COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 812-474-9097
AUSTIN, TEXAS 78701
TEXAS REGISTERED ENGINEERING FIRM F-863

10 April 2015

Via Hand Delivery

Ms. Joanna Manning, Project Manager (MC-127)
Texas Commission on Environmental Quality (TCEQ)
VCP / Corrective Action Section
P.O. Box 13087
Austin, TX 78711-3087

Re: Transmittal Letter for PRAA 2 APAR, Grand Park, 7275 Dallas Parkway, Frisco, Taxas, VCP #2592

Dear Ms. Manning:

Two copias of an Affected Property Assessmant Report (APAR) for Partial Response Action Area 2 (PRAA 2) within the Grend Park VCP Site in Frisco, Texas are attached to this transmittal letter. Cook-Joyce, Inc. (CJI) has prepared this document on behalf of its clients, tha City of Frisco and Russell & Rodriguez.

Ona of the copies includas paper copies of all analytical reports. The second provides this information electronically on a compact disk.

Per our previous discussions tha Grand Park VCP applicants request an axpedited review for the PRAA 2 APAR. The expedited review is necessary to facilitate a potantial real estate transaction for that portion of the Site.

Please contact the undersignad with quastions or comments. We can be reached at 512/474-9097 or by email at wade.wheatley@cook-joyce.com or richard.varnell@cook.joyce.com.

Sincerely,

Wade M. Wheatley, P.E.
Principal Engineer, Vice President

Richard D. Varnell, P.G.
Senior Staff

HAND DELIVERED

RV:rv

Cc: George Purefoy, City of Frisco
Mack Borchardt, City of Frisco
Henry Hill, City of Frisco
Kerry Russell, Russell & Rodriguez
Rusty Simpson, Southwest Geoscience

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APR 10 2015
TCEQ Remediation Division

RUSSELL & RODRIGUEZ\FINAL\13046.01
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COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
TEXAS REGISTERED ENGINEERING FIRM F-883

AFFECTED PROPERTY ASSESSMENT REPORT

GRAND PARK - PARTIAL RESPONSE ACTION AREA 2 (PRAA 2)
7275 DALLAS PARKWAY, FRISCO, TEXAS
VCP #2592

10 APRIL 2015

Prepared for:

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas

APAR Table of Contents[1]	Check if included
Cover Page	✓
Professional Signatures and Seals	✓
Executive Summary	✓
Conclusions and Recommendations	✓
Chronology*	✓
Specialized Submittals Checklist	✓
Section 1 Property Information	
Discussion of site operations, release sources, and geology/hydrogeology	✓
Table 1A - Sources of Release	
Table 1B - Potential Off-Site Sources	✓
Figure 1A - On-Site Property Map*	✓
Figure 1B - Affected Property Map*	✓
Figure 1C - Regional Geologic Map*	✓
Figure 1D - Regional Geologic Cross Section(s)*	✓
Section 2 Exposure Pathways and Groundwater Resource Classification	
Discussion of potential receptors, groundwater classification, and exposure pathways	✓
Table 2A - Water Well Summary	✓
Table 2B - Affected Water Well Summary	
Table 2C - Complete or Reasonably Anticipated to be Complete Exposure Pathways	✓
Figure 2A - Potential Receptors Map*	✓
Figure 2B - Field Survey Photographs*	✓
Figure 2C - Water Well Map*	✓
Attachment 2A - Tier 1 Ecological Exclusion Criteria Checklist	✓
Attachment 2B - Tier 1 Ecological Exclusion Criteria Supporting Documentation*	✓
Section 3 Assessment Strategy	
Discussion of assessment strategies	✓
Table 3A. Underground Utilities	✓
Section 4 Soil Assessment	
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Table 4A - Surface Soil Residential Assessment Levels with no Ecological Component	✓
Table 4B - Surface Soil Residential Assessment Levels with Ecological Component	
Table 4C - Subsurface Soil Residential Assessment Levels	
Table 4D - Soil Data Summary*	✓
Table 4E - Soil Geochemical/Geotechnical Data Summary*	
Figure 4A - Surface Soil COC Concentration Maps*	✓
Figure 4B - Subsurface Soil COC Concentration Maps*	
Figure 4C - Cross Sections*	
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Table 5B - Groundwater Data Summary*	✓
Table 5C - Groundwater Geochemical Data Summary*	
Table 5D - Groundwater Measurements*	✓
Figure 5A - Groundwater Gradient Map*	✓
Figure 5B - Groundwater COC Concentration Maps*	✓
Figure 5C - Groundwater Geochemistry Maps*	
Figure 5D - Cross Section Groundwater-to-Surface Water Pathway*	
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Discussion of nature and extent of COCs in sediment	

[1] Items marked with an asterisk do not have prescribed formats (for example, laboratory reports).

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Section 10 COC Screening	
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Table 10A - COC Screening Summary Table	
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Table 11A - Surface Soil Critical PCLs (On-Site/Off-Site)	✓
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Appendix 3 Monitor Well Development and Purging Data*	
Appendix 4 Registration and Institutional Controls*	
Appendix 5 Water Well Records*	✓
Appendix 6 Monitor Well Records*	✓
Appendix 7 Aquifer Testing Data*	
Appendix 8 Statistics Data Tables and Calculations*	
Appendix 9 Development of Non-Default RBELs and PCLs*	✓
Appendix 10 Laboratory Data Packages and Data Usability Summary*	✓
Appendix 11 Miscellaneous Assessment*	
Appendix 12 Waste Characterization and Disposition Documentation*	
Appendix 13 Photographic Documentation*	✓
Appendix 14 Standard Operating Procedures*	✓
Appendix 15 OSHA Health and Safety Plan (§350.74(b)(1))*	
Appendix 16 Reference List*	✓

Cover Page

Program ID No. (Primary): VCP #2592 Report date: 10 April 2015
TCEQ Region No.: 4 MSD Certificate No.:
Additional Program ID Numbers: SWR/Facility ID No.: PST Facility ID No.:
DCRP ID No.: VCP ID No.: 2592 LPST ID No.:
MSW Tracking No.: HW Permit/CP No.: Enforcement ID No.:
Other ID Nos.:

Reason for submittal (check all that apply):
☒ Initial submittal
☐ Revision
Notice of Deficiency Letter
Permit/Compliance Plan
Voluntary response
Enforcement/Agreed order
Directive/NOV letter
Other:

On-Site Property Information

On-Site Property (Facility) Name: Grand Park – Partial Response Action Area 2 (PRAA 2)
Street no. 7275 Pre dir: East Street name: Dallas Parkway Street type: Parkway Post dir:
City: Frisco County: Denton County Code 61 Zip 75034
Nearest street intersection and location description: Subject property is situated in the northwest corner of the planned Grand Park development and is bound to the north by Cotton Gin Road and to the west by Legacy Drive.

Latitude: Degrees - North 33° 08' 31.19"
Longitude: Degrees - West 96° 50' 46.21"

Contact Person for On-Site Property Information and Acknowledgment

Company Name or Person: City of Frisco
Contact Name: Mr. Mack Borchardt Title: Special Assistant to the City Manager
Mailing Address: 6101 Frisco Square Boulevard
City: Frisco State: TX Zip: 75034 Phone: (972) 292-5000
Email: MBorchardt@friscotexas.gov Fax: (972) 292-5122
Person is: ✓ property owner ___ property manager ___ potential purchaser ___ tenant ___ operator
Note: The City of Frisco is the property owner. Mr. Borchardt is the City's coordinator for this site.

By my signature below, I acknowledge the requirement of §350.2(a) that no person shall submit information to the executive director or to parties who are required to be provided information under this chapter which they know or reasonably should have known to be false or intentionally misleading, or fail to submit available information which is critical to the understanding of the matter at hand or to the basis of critical decisions which reasonably would have been influenced by that information. Violation of this rule may subject a person to the imposition of administrative, civil, or criminal penalties.

Signature of Person Mack Borchardt Name (print): Mack Borchardt Date: 4-10-15

Consultant Contact Person

Consultant Company Name: Cook-Joyce, Inc.
Contact Person: Wade Wheatley, P.E. Title: Vice President
Mailing Address: 812 West 11th Street
City: Austin State: TX Zip: 78701
Phone: (512) 474-9097 Fax: None E-mail address wade.wheatley@cook-joyce.com

Professional Signatures and Seals

Professional Geoscientists

Kevin Lonseth, P.G.	10330	5/31/2015
Professional Geoscientist	Geoscientist License number	Expiration date

Signature	Date	
512/474-9097	None	kevin.lonseth@cook-joyce.com
Telephone number	FAX number	E-mail

Richard Varnell, P.G.	4992	12/31/2015
Professional Geoscientist	Geoscientist License number	Expiration date

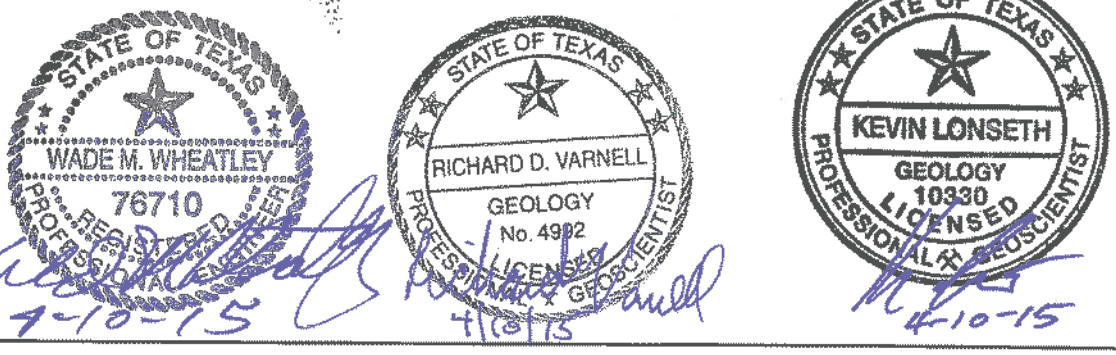
Signature	Date	
512/474-9097	None	richard.varnell@cook-joyce.com
Telephone number	FAX number	E-mail

Professional Engineer

Wade Wheatley, P.E.	76710	6/30/2015
Professional Engineer	P.E. License number	Expiration date

Signature	Date	
512/474-9097	None	wade.wheatley@cook-joyce.com
Telephone number	FAX number	E-mail

Seals, as applicable:



Executive Summary

Environmental Media	Actual or Probable Exposures On-Site?		Actual or Probable Exposures Off-Site?		Have notifications for actual or probable exposures been completed? (§350.55(e))		
	Yes	No	Yes	No	Yes	No	N/A
Soil	✓			✓			✓
Groundwater		✓		✓			✓
Sediment		✓		✓			✓
Surface Water		✓		✓			✓

Is there, or has there been, an affected or potentially affected water well? ___ Yes ✓ No

If yes, what is the well used for? _____

Actual land use: On-site: ___ Res ✓ C/I Off-site affected property: ___ Res ___ C/I ✓ N/A

Land use for critical PCL determination: On-site: ✓ Res ___ C/I Off-site affected property: ___ Res ___ C/I ✓ N/A

Did the affected property pass the Tier 1 ecological exclusion criteria checklist? ✓ Yes ___ No

Affected groundwater-bearing unit(s) (in order from depth below ground surface), or uppermost groundwater-bearing unit if none affected

Unit No.	Name	Depth below ground surface (ft)	Resource Classification (1, 2, or 3)
1	Surface alluvium (groundwater not encountered within PRAA 2)	>20'	2
2			
3			

Assessment

Environmental Media		Assessment Levels Exceeded?						Affected property defined to RAL?			Is COC extent stable or expanding?	General classes of COCs (VOCs SVOCs, metals, etc.)
		On-Site?			Off-Site?							
		Yes	No	Not sampled	Yes	No	Not sampled	Yes	No	N/A		
Soil	Surface	✓					✓	✓			Stable	Metals
	Subsurface			✓			✓			✓	---	---
Groundwater				✓			✓			✓	---	---
Sediment				✓			✓			✓	---	---
Surface Water				✓			✓			✓	---	---

NAPL Occurrence Matrix

		NAPL Occurrence	Description
NAPL in vadose zone	✓	No NAPL in vadose zone	There is no direct or indirect evidence of NAPL in the vadose zone
		NAPL in/on soil	NAPL detected in or on unsaturated, unconsolidated clay-, silt-, sand-, and/or gravel-dominated soils
		NAPL in fractured clay	NAPL detected in fractures of unsaturated fine-grained soils
		NAPL in fractured or porous rock	NAPL detected in unsaturated lithologic material
		NAPL in karst	NAPL detected in karst environment
NAPL at capillary fringe	✓	No NAPL at capillary fringe	There is no direct or indirect evidence of NAPL at the capillary fringe
		NAPL at capillary fringe	NAPL detected at vadose-saturated zone transition, capillary fringe (in contact with water table)
NAPL in saturated zone	✓	No NAPL in saturated zone	There is no direct or indirect evidence of NAPL in the saturated zone
		NAPL in soil	NAPL detected in saturated unconsolidated clay-, silt-, sand-, and/or gravel-dominated soils
		NAPL in fractured clay	NAPL detected in fractures of saturated fine-grained soil or other double-porosity sediments
		NAPL in saturated fractured or porous rock	NAPL detected in saturated lithologic material
		NAPL in saturated karst	NAPL detected in karst environment within the saturated zone
NAPL in surface water or sediment	✓	No NAPL in surface water or sediment	There is no direct or indirect evidence of NAPL in surface water or sediments
		NAPL in surface water	NAPL detected in surface water at exceedance concentration levels or visual observation
		NAPL in sediments	NAPL detected in sediments at exceedance concentration levels or visual observation via migration pathway or a direct release

Remedy Decision

Environmental Media		Critical PCL exceeded on-site?			Critical PCL exceeded off-site?			PCLE zones defined?			General class (VOCs, SVOCs, metals, etc.) of COCs requiring remedy
		Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	
Soil	Surface	✓					✓	✓			Metals
	Subsurface			✓			✓			✓	---
Groundwater				✓			✓			✓	---
Sediment				✓			✓*			✓	---
Surface Water				✓			✓			✓	---

***Sediment impacts will be addressed in the APAR generated for the Stewart Creek portion of the Grand Park site.**

NAPL Triggers

NAPL Response Action Triggers		Description of Triggers
✓	No NAPL response action triggers	No NAPL triggers have been observed in any assessment zones (vadose, capillary fringe and saturated), nor in surface water or sediments
	NAPL vapor accumulation is explosive	NAPL vapors accumulate in buildings, utility and other conduits, other existing structures, or within anticipated construction areas at levels that are potentially explosive (≥ 25% LEL)
	NAPL zone expanding	NAPL zone is observed to be expanding using time-series data
	Mobile NAPL in vadose zone	NAPL zone is observably mobile, or is theoretically mobile based on COC concentrations and residual saturation
	NAPL creating an aesthetic impact or causing nuisance condition	NAPL is responsible for objectionable characteristics (e.g., taste, odor, color, etc.) resulting in making a natural resource or soil unfit for intended use
	NAPL in contact with Class 1 groundwater	NAPL has come in actual contact with saturated zone or capillary fringe of a Class 1 GWBU
	NAPL in contact with Class 2 or 3 groundwater	NAPL has come in actual contact with saturated zone or capillary fringe of a Class 2 or Class 3 GWBU
	NAPL in contact with surface water	Liquid containing COC concentrations that exceed the aqueous solubility in contact with surface water via various migration pathways or direct release to surface water
	NAPL in or on sediments	Liquid containing COC concentrations that exceed the aqueous solubility impact surface water sediments via migration pathway or a direct release

Conclusions and Recommendations

Assessment Results

The ~63-acre Partial Response Action Area 2 (PRAA 2) portion of the Grand Park property (VCP #2592) comprises the northwestern section of the Grand Park site at the intersection of Cotton Gin Road and Legacy Drive in Frisco, Texas. PRAA 2 (the subject property) is currently open pasture that has historically been used for either farming or ranching. The City of Frisco (Frisco) owns the approximately 320 acres of contiguous property that make up the Grand Park site. The City currently plans to develop the Grand Park site into park lands, retail, and residential properties. The Grand Park site is located to the south of Cotton Gin Road, to the west of Dallas North Tollway and a BNSF Railway, to the north of Stonebrook Parkway, and to the east of Legacy Drive. Based on sediment sampling of Stewart Creek, it appears that Stewart Creek sediment within Grand Park has been impacted by past operations at the upstream former Exide Battery Recycling Facility (Exide). Historic stack emissions from Exide could have impacted surface soils within the Grand Park site. Past cotton farming practices at this site could have impacted surface soils. These known and potential impacts within Grand Park are being assessed in sections referred to as partial response action areas.

The affected property assessment consisted of a focused investigation of the surface soils at the PRAA 2 site. The purpose of the assessment was to determine if contaminants of concern (COCs) were present in PRAA 2 surface soils at concentrations exceeding residential assessment levels (RALs) and if so, to fully delineate the vertical and lateral extent of contamination exceeding RALs. COCs for PRAA 2 include arsenic, cadmium, lead, and selenium. Critical protective concentration (PCL) limits for the PRAA 2 site are based on Tier 1 or 2 RALs; therefore, any affected property represents a PCL exceedance (PCLE) zone. Based on the assessment findings, two COCs at three surface soil sample locations exceed PCLs. The surface soil sample locations with COCs above PCLs include: sample location 7B-d (arsenic), sample location 7E-c (arsenic and lead), and sample location 11C-a (arsenic). COCs at these locations were vertically delineated to levels below PCLs at one foot below the ground surface. COCs in surface soil samples were vertically delineated to MQLs or background prior to encountering groundwater. COCs were laterally delineated to concentrations below PCLs within the PRAA 2 site. The site layout and assessment sampling locations are depicted on Figures 1A and 1B, respectively.

COCs in surface soils at the PRAA 2 site were detected above RALs at three sample locations; therefore, the site is an affected property. Affected property locations are also depicted on Figure 1B. Receptors within 500 feet of the three affected property areas (PCLE zones) include: one water well (located within Grand Park), a former stock pond located within Grand Park, and residences along the eastern edge of the Diamond Point Estates neighborhood. Affected property areas have been laterally delineated to COC concentrations below RALs within PRAA 2. COCs have also been delineated vertically in surface soils to MQLs or background prior to encountering groundwater. Therefore, there are no affected or potentially affected receptors from impacted PRAA 2 surface soils.

Since COCs have been vertically delineated prior to encountering groundwater, groundwater has not been affected by PRAA 2 surface soils. To assess the potential migration of contaminants in groundwater from offsite sources, one groundwater monitoring well was installed at PRAA 2 (well GP-MW-7). GP-MW-7 was installed to a depth of 20 feet below ground surface at sample location 7E-c. The well was dry when it was installed in November 2014, and remained dry when last gauged in February 2015. Groundwater was not encountered within the PRAA 2 site; however, groundwater sampled at other monitoring wells located within Grand Park, including well GP-MW-15 which is located adjacent to PRAA 2, contained COCs at concentrations well below PCLs.

NAPL Discussion

No evidence of NAPL was observed during the investigation activities.

Response Actions and Recommendations

The results of the affected property assessment reveal the property is protective of ecological receptors; however, COCs in surface soils were greater than residential assessment levels at three sample locations. Response actions are required at these three areas. Soils exceeding PCLs within PRAA 2 will be removed under Remedy Standard A. A Response Action Plan (RAP) will be submitted for the PRAA 2 portion of the Grand Park property. The RAP will describe in detail the planned response actions for each of the PRAA 2 PCLE zones.

CHRONOLOGY

Unknown	City of Frisco acquires PRAA 2 property located in the northwest corner of the planned Grand Park development, located to the south of Cotton Gin Road and to the east of Legacy Drive.
28 January 2014	CJI submits a revised Affected Property Assessment Workplan for the Grand Park site which includes the PRAA 2 property. The original workplan was submitted in October 2013.
September 2014 – November 2014	CJI conducts assessment sampling of PRAA 2 area surface soils to determine COC concentrations to obtain the necessary data needed to complete an affected property assessment.
19 November 2014	Monitoring well GP-MW-7 installed within PRAA 2.
23 February 2015	GP-MW-7 gauged dry. The well was previously gauged dry on December 15th and 18th (2014) and on 12 January 2015.
10 April 2015	Affected Property Assessment Report (APAR) for PRAA 2 portion of the Grand Park development submitted to the TCEQ.

Specialized Submittals Checklist

____ Check here if no specialized submittals in this report

	If included, specify section or appendix
Ecological Risk Assessment	
Reasoned justification, expedited stream evaluation, Tier 2 or 3 ecological risk assessment, and/or proposal for ecological services analysis	
Statistics	
Calculated site-specific background concentrations	Section 3.1
Used alternate statistical methods to determine proxy values for non-detected results (§350.51(n))	
Calculated representative concentrations (§350.79(2)) for remedy decision	
Analytical Issues	
Used SQL for assessment or critical PCL instead of the MQL (§350.51(d)(1)) or PCL (§350.79)	
The MQL of the analytical method exceeds assessment levels/critical PCLs (§350.54(e)(3))	
Human Health/Toxicology	
Variance to exposure factors approved by TCEQ Executive Director[1] (§350.74(j)(2))	
Developed PCLs based on alternate exposure areas	
Evaluated non-standard exposure pathway (e.g., agricultural, contact recreation, etc)	
Combined exposure pathways across media for simultaneously exposed populations (§350.71(j))	
Adjusted PCLs due to residual saturation, cumulative risk, hazard index, aesthetic concerns, or theoretical soil vapor	
Utilized non-default human health RBELs to calculate PCLs (includes use of non-default parameters, toxicity factors not published in rule, etc.) (§350.51(l), §350.73, §350.74)	
Calculated Tier 2 or 3 RBELs/PCLs or TSCA levels for polychlorinated biphenyls, or calculated Tier 2 or 3 RBELS/PCLs for cadmium, lead, dibenzo-p-dioxins, dibenzofurans, and/or polycyclic aromatic hydrocarbons	Appendix 9
Calculated Tier 1, 2, or 3 total petroleum hydrocarbon (TPH) PCLs	
Developed sediment/surface water human health RBELs and PCLs	
Fate and Transport	
Used or developed groundwater to surface water dilution factors	
Calculated Tier 2 PCL	Appendix 9
Calculated Tier 3 PCL	
Groundwater Issues	
Conducted aquifer test, classified Class 3 groundwater, or determined non-groundwater bearing unit (saturated soil)	

[1] Prior approval by Executive Director is required.

Section 1 Property Information

Section 1.1 Physical Location

Property Location and Land Use

Facility Name:	Partial Response Action Area 2 (PRAA 2) within Grand Park
Address/Location:	Grand Park is located at 7275 Dallas Parkway in Frisco, Texas. It is bounded by Cotton Gin Road to the north, the North Dallas Tollway and a BNSF Railway to the east, Stonebrook Parkway to the south, and Legacy Drive to the west. The county line crosses Grand Park north to south on its eastern side. The western portion of Grand Park is located in Denton County, while the eastern portion is located in Collin County.
Property Owner:	The City of Frisco
Property Size:	~63 acres (PRAA 2 portion of Grand Park site)
General Land Use:	The general land use of the subject property is open pasture that has historically been used for farming or ranching. The adjacent property south, southeast, and east consist of open pasture or heavily wooded floodplain located along Stewart Creek. Stewart Creek is located (at its closest point) approximately 360 feet to the east of the PRAA 2 site.

Topography

Based on CJI's review of the USGS 7.5-minute *Frisco, Texas* topographic map (1981), the subject property ranges in elevation from approximately 600 feet to 610 feet above mean sea level. The topography around the site is relatively flat with a gentle slope to the south/southeast toward Stewart Creek. Based on site observations and review of topographic maps, the direction of surface water runoff on the subject property is generally towards the closest portion of Stewart Creek. Stewart Creek drains into Lake Lewisville, approximately 4 miles to the southwest of the subject property. Information provided on the Texas Water Development Board (TWDB) on-line geographic information system indicates the site is located within the Trinity River Basin (specifically the Elm Fork of the Trinity River).

A review of the Flood Insurance Rate Map for Denton County (FEMA, 2011) indicates the PRAA 2 portion of the Grand Park site is not located within the 100-year floodplain.

Weather

Frisco is located in a humid subtropical region. There are no known recent weather conditions or seasonal variations that would have significantly affected COC transport.

Section 1.2 Affected Property and Sources of Release

History and Operations

The subject property is currently open pasture that has historically been used for farming or ranching. The Grand Park site (which includes PRAA 2) was enrolled in the VCP to investigate known impacts to Stewart Creek and potential historical airborne deposits of metal particulate to upland areas near the former Exide facility.

Manufacturing operations at Exide's Frisco facility began in approximately 1964 when the property was initially developed as a lead oxide manufacturing facility. Battery recycling operations began at the facility around 1969 and continued until the facility ceased operations in November 2012. The Exide facility is constructed over the former channel of Stewart Creek and a tributary to the north. Currently, Stewart Creek is adjacent to the southern side of the facility, and the northern tributary of Stewart Creek is located immediately to the north of the facility. Two structures, a stormwater retention pond and the facility's wastewater treatment plant, are located across Stewart Creek from the facility and connected by piping that crosses the creek.

The facility recycled large batteries (such as auto and marine batteries) by breaking them in a water bath. Plastic and rubber "chips" from the broken battery casings floated to the surface of the water where they were collected for disposal. Liquid from the batteries mixed with the water, and would eventually be treated either in the facility's wastewater treatment plant or at the City of Frisco's nearby Stewart Creek Wastewater Treatment Plant. Metal from the batteries sank to the bottom of the bath, where it was collected. The metal was then re-smelted to recover lead and smaller amounts of other valuable metals.

The waste streams produced at the Exide facility have resulted in widespread contamination of the Exide property and surrounding areas, and multiple state and federal environmental enforcement actions have been taken at the facility. Sections of Stewart Creek have previously been dredged to remove slag and/or lead contaminated sediment - initially in 1986 and again in 1999. Lead contaminated sediment has been documented in or adjacent to Stewart Creek downstream of the Exide facility on the Grand Park property.

Sampling has shown that shallow soil contamination from airborne deposition of metal particulate extends over approximately 24 acres of Exide "buffer property" that surrounds the Exide facility. Most of this soil contamination is less than 1 foot deep. Due to the Grand Park property's close proximity to the Exide facility and the Exide "buffer property", shallow soil contamination from airborne deposition of metals is a potential contaminant source for the subject property.

Project Overview

As described above, shallow soil contamination from airborne deposition of metals is a potential contaminant source for the subject property. The affected property assessment was performed to determine if any COCs exceed residential assessment levels which represent the critical protective concentration limits for the site.

Prior Sampling Activities

Prior sampling has not occurred on the subject property (PRAA 2). Prior sampling has occurred within Partial Response Action Area 1 (PRAA 1), an area of Grand Park adjacent to the east of PRAA 2. Surface soils in PRAA 1 did not exceed residential assessment levels. Extensive sediment sampling has occurred within Stewart Creek on the Grand Park site.

Completed Response Actions

No response actions have been completed within PRAA 2. No response actions were required for the PRAA 1 portion of Grand Park. Some slag and battery chips have been removed from Stewart Creek within Grand Park; however, these clean-up activities were interim actions performed by Exide.

Section 1.3 Geology/Hydrogeology

Geology

CJI reviewed the Bureau of Economic Geology's *Geologic Atlas of Texas, Sherman Sheet* (1967, revised 1991) to determine the geologic formation(s) that outcrop across the subject property. The Site is mapped in "Qu" (surficial sands, clays, silts, and gravels). The Eagle Ford Shale underlies these deposits. The Atlas further defines these deposits or formations as:

- Surficial deposits undivided (Qu): Sand, clay, silt, and gravel.

- Eagle Ford Formation (Kef): A 300 to 400 foot thick shale formation that dips to the east. The Eagle Ford Shale is medium to dark gray in color. The shale is selenitic, bituminous, and commonly contains calcareous concretions and septaria. Thin, platy beds of sandstone and sandy limestone occur in the middle and upper parts of the Eagle Ford. Finally, the shale contains marine megafossils.

Hydrogeology

The site is positioned over the subcrop of a minor aquifer (the Woodbine) and a major aquifer (the Trinity). The Woodbine is the shallower of the two aquifers. It underlies the Eagle Ford Shale. The upper surface of the Woodbine is approximately 425 feet below ground surface (bgs) in the vicinity of the subject property. The Trinity Aquifer is separated from the Woodbine by the Washita and Fredricksburg Limestones. Its upper surface is reportedly ~1400 feet bgs in the vicinity of the subject property.

A monitoring well (GP-MW-7) was installed at the PRAA 2 site and was completed to a depth of 20 feet below ground surface (screened from 10 to 20 feet). This well was dry when it was installed in November 2014 and was dry when last gauged on 23 February 2015. The majority of the monitoring wells installed within the Grand Park site are dry wells. Wells containing shallow groundwater are screened in sand and gravel layers that are not laterally continuous across Grand Park. Groundwater in these wells is generally sits on top of the Eagle Ford Shale within more transmissive strata at typical depths of 17 to 20 feet below ground surface.

Table 1A – Sources of Release
(NOT APPLICABLE)

Table 1B – Potential Off-Site Sources

Table 1B. Potential Off-Site Sources

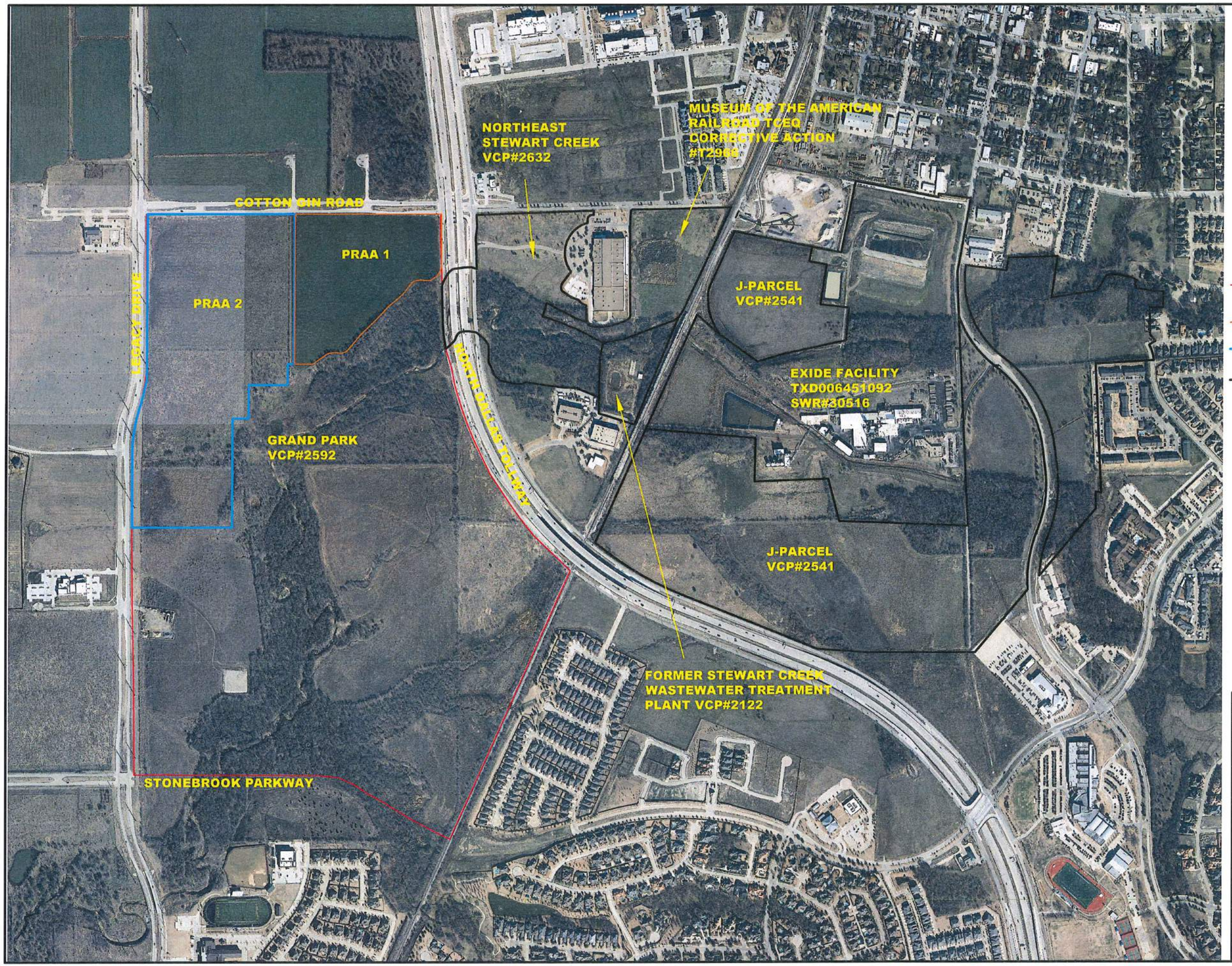
Affected property name/number	Off-site facility/ site name	Physical address	Regulatory ID number	Type of operation/ business	Years of operation (if known)	COCs
Grand Park/VCP #2592	Former Exide Battery Recycling Facility	7471 5th St. Frisco, TX 75034	TCEQ SWR #30516	Battery Recycling Facility	50+	Arsenic, Cadmium, Lead, Selenium

Figure 1A - On-Site Property Map

Figure 1B - Affected Property Map

Figure 1C - Regional Geologic Map

Figure 1D - Regional Geologic Cross Section



N

800 400 0 800

(SCALE IN FEET)

LEGEND

- GRAND PARK VCP BOUNDARY
- PRAA 1
- PRAA 2
- NEAR BY TCEQ REGULATED SITES

AERIAL SOURCE:
NORTH CENTRAL TEXAS COUNCIL
OF GOVERNMENTS (NCTCOG); 2011

REV.	DATE	DESCRIPTION	DR BY	APP BY

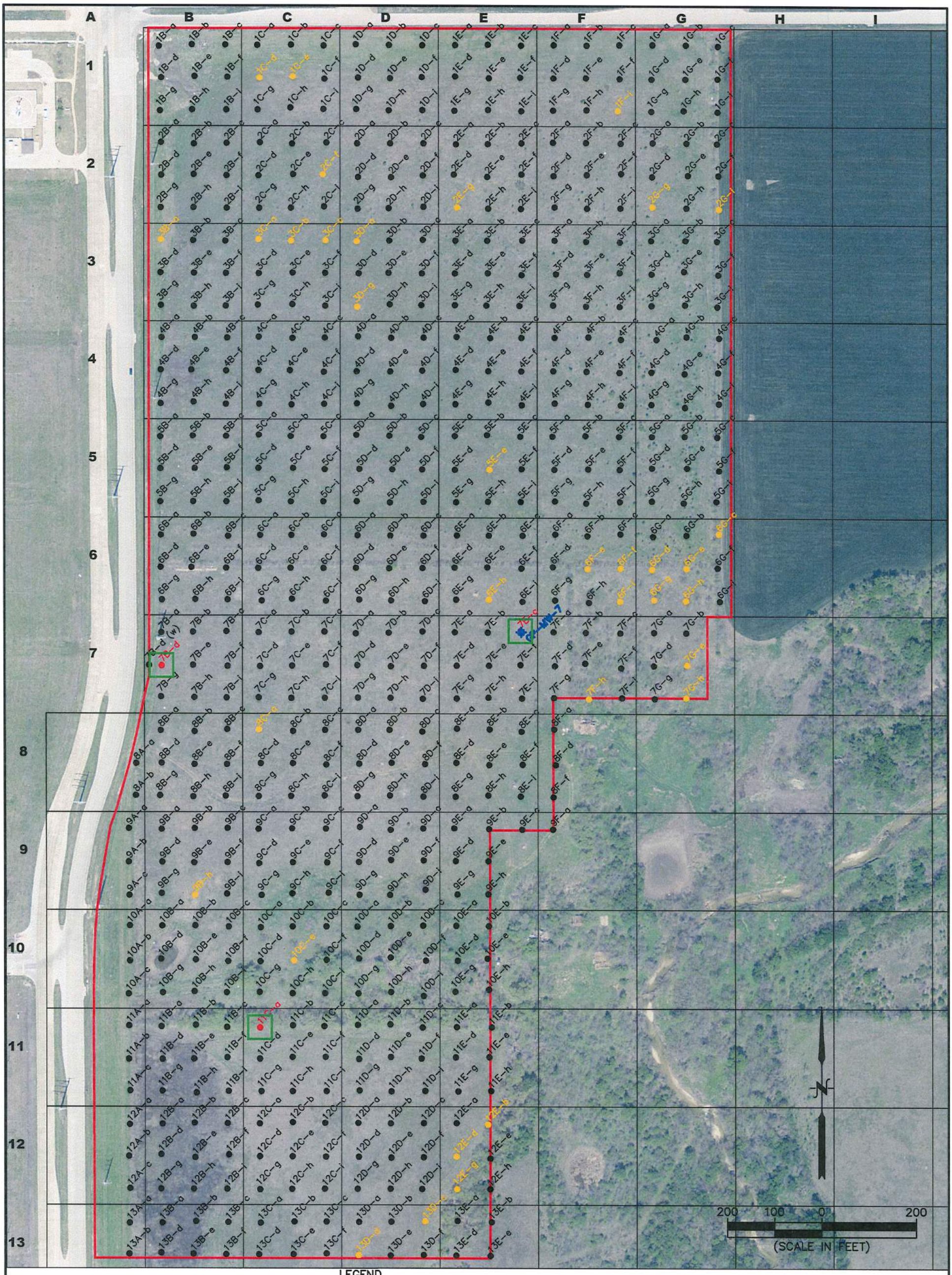
COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
ON-SITE PROPERTY MAP

DES BY			SCALE: SEE BAR SCALE
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	RDV		CJI NO. 13046078
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 1A
PURPOSE: APAR			

S:\CAD\City of Frisco\13046\13046078 Fig 1A.dwg, 4/9/2015 5:51:20 PM



LEGEND

- SAMPLE LESS THAN PCL, BACKGROUND, AND/OR MQL.
- SAMPLE LESS THAN PCL, EXCEED HIGHER OF BACKGROUND OR MQL
- SAMPLE EXCEEDS CRITICAL PCL
- MONITORING WELL
- AFFECTED PROPERTY/PCLE ZONE

AERIAL SOURCE:

USGS TEXAS ORTHOIMAGRY PROGRAM; 10/19/2013

REV.	DATE	DESCRIPTION	DR BY	APP BY

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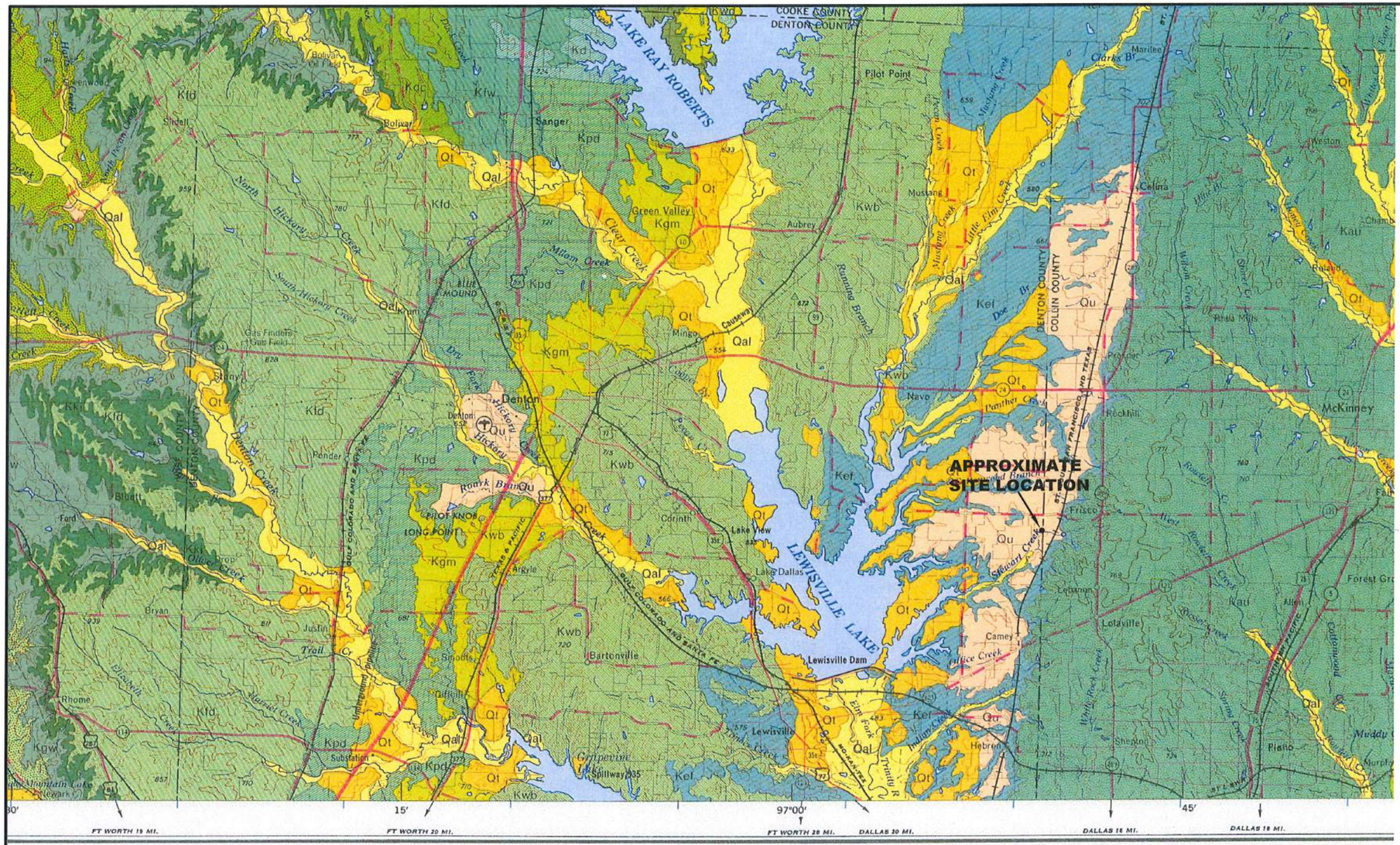
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
AFFECTED PROPERTY MAP

DES BY			SCALE: 1" = 200'
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	RDV		CJI NO. 13046139
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 1B
PURPOSE: APAR			

S:\CAD\City of Frisco\13046\13046139 PRAA 2 Fig 1B.dwg, 4/9/2015 5:54:36 PM



EXPLANATION

Qal | Qds | Qs | Qu | Qt

Alluvium, Qal, windblown deposits, Qds and Qs, fluviatile terrace deposits, Qt, and surficial deposits undivided, Qu

Tertiary Quaternary — Paleocene Pleistocene Holocene

Rk

Kincaid Formation

Kke | Kns | Kna

Kemp Clay, Kke, Nacatoch Sand, Kns, and Navarro Group (undivided,) Kna

Kne

Neylandville Marl

Kmb

Marlbrook Marl

Kpg

Pecan Gap Chalk

Kwc

Wolfe City Sand

Ko

Ozan Formation

Upper Cretaceous

Kau | Kr | Kgc | Kbf | Kbl | Kbn | Ker

Austin Group, Kau, Roxton Limestone, Kr, Gober Chalk, Kg, Brownstown Marl, Kbr, Blossom Sand, Kbl, Bonham Marl, Kbn, and Ector Chalk, Ker

Kef

Eagle Ford Formation

Kwb | Kwt | Kwl | Kwr | Kwd

Woodbine Formation, Kwb, and Templeton, Kwt, Lewisville, Kwl, Red Branch, Kwr, and Dexter, Kwd, Members of the Woodbine Formation

CRETACEOUS

Scale 1:250,000

5 0 5 10 15 20 Statute Miles

5 0 5 10 15 20 25 30 Kilometers

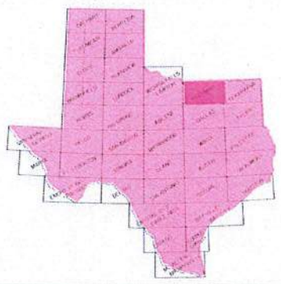
5 0 5 10 Nautical Miles

CONTOUR INTERVAL 50 FEET

TRANSVERSE MERCATOR PROJECTION

1991 MAGNETIC DECLINATION FOR THE CENTER OF THE SHEET IS 5° 59'20". MEAN ANNUAL CHANGE IS 5'40" WESTWARD.

LOCATION MAP



GEOLOGIC ATLAS OF TEXAS, SHERMAN SHEET

WALTER SCOTT ADKINS MEMORIAL EDITION

REVISED 1991

REV.	DATE	DESCRIPTION	DR BY	APP BY

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HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
REGIONAL GEOLOGIC MAP

DES BY			SCALE: SEE BAR SCALE
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	KLL		CJI NO. 13046083
APP BY	APP		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 1C
PURPOSE: APAR			

S:\CAD\City of Frisco\13046\13046083 Fig 1C.dwg, 4/9/2015 5:56:05 PM

S:\CAD\City of Frisco\13046\13046084 Fig 1D.dwg, 4/9/2015 5:57:38 PM

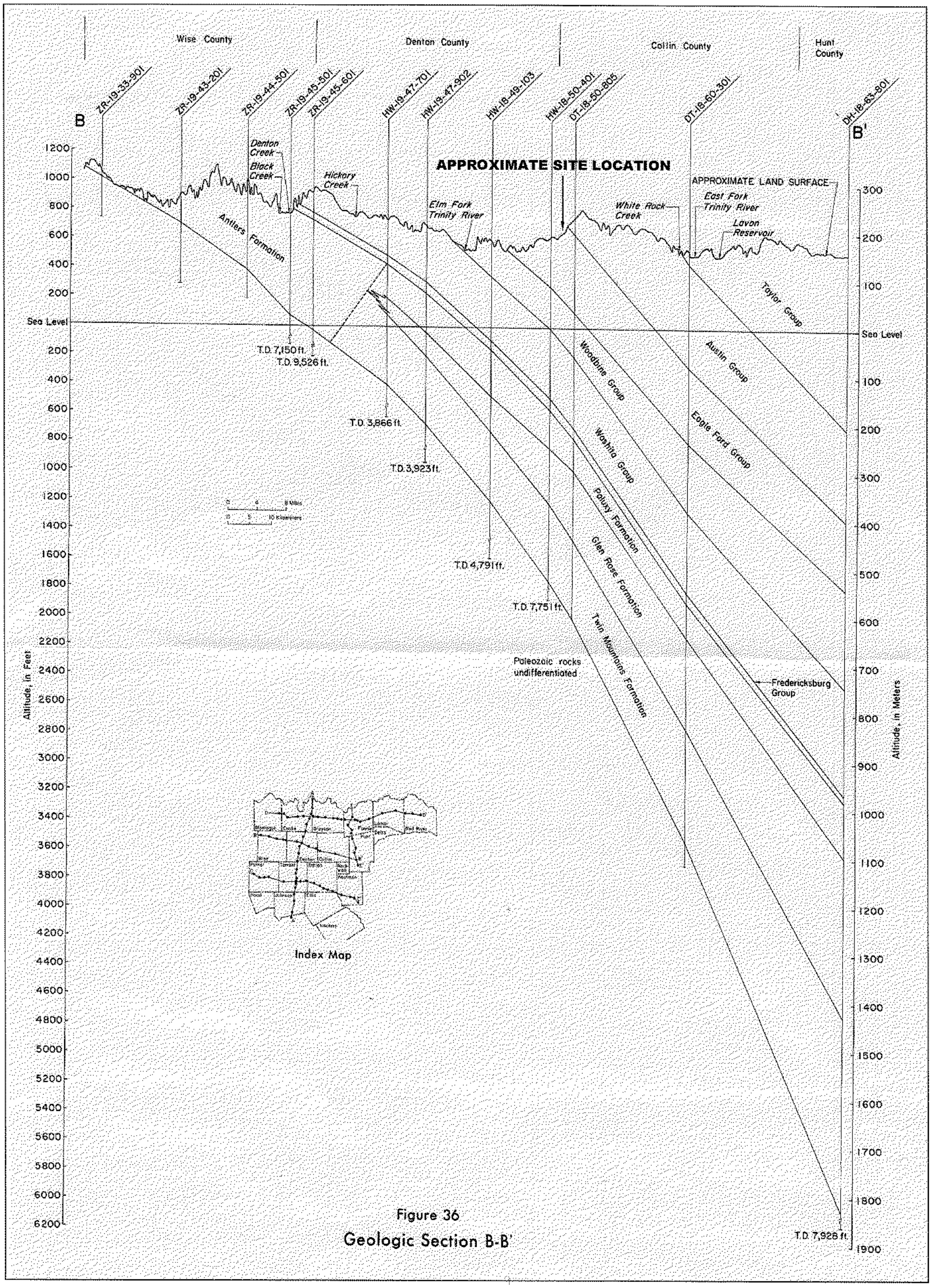

Figure 36

Geologic Section B-B'

MAP SOURCE:
TEXAS WATER DEVELOPMENT BOARD REPORT #269
(NORDSTROM, 1982)

REV.	DATE	DESCRIPTION	DR BY	APP BY

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812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
REGIONAL GEOLOGIC CROSS SECTION

DES BY			SCALE: SEE BAR SCALE
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	CHK		CJI NO. 13046084
APP BY	APP		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 1D
PURPOSE: APAR			

Section 2 Exposure Pathways and Groundwater Resource Classification

Section 2.1 Source(s) of Potable Water for On-Site Property and Affected Off-Site Properties

COCs in surface soils assessed at the PRAA 2 site were detected above protective concentration limits (PCLs) at three sample locations. COCs have been delineated vertically in surface soils to MQLs or background prior to encountering groundwater. Therefore, groundwater has not been affected by PRAA 2 surface soils. Groundwater was not encountered at the monitoring well installed within PRAA 2 (GP-MW-7). Groundwater samples collected from other Grand Park monitoring wells, including well GP-MW-15 which is adjacent to PRAA 2, contained COCs at concentrations well below protective concentration limits. Potable water supplies are not at risk. PRAA 2 and other portions of the Grand Park site would receive potable water from the City of Frisco.

Section 2.2 Field Receptor Survey

CJI personnel have visually surveyed properties within 500 feet of PRAA 2's site perimeter on various dates in an effort to located potentially sensitive receptors such as schools, hospitals, residences, child care centers, nursing homes, recreational areas, agricultural areas, and ecological receptors. On December 30, 2013, Mr. Richard Varnell surveyed the areas to the south of PRAA 2 and on June 3, 2014, Mr. Kevin Lonseth and Mr. Kevin Ashley surveyed areas to the north of the site. A site vicinity map is provided as Figure 2A. Photographs taken during the dates specified above are provided as Figure 2B. No schools, hospitals, child care centers, nursing homes, or recreational areas were identified within 500 feet of the subject site. The PRAA 2 property is currently undeveloped, but was formerly used for farming and/or ranching. Farmed land is located across Cotton Gin Road within 500 feet of the site. Frisco Fire Station #4 is located west of the northwest corner of the PRAA 2 site (across Legacy Drive). Additional undeveloped property is located to the west of PRAA 2 across Legacy Drive. A housing development (Diamond Point Estates) is located within 500 feet of the subject property and to the southwest of PRAA 2 across Legacy Drive. A former stock pond located within Grand Park property is observed on the west side of Stewart Creek, approximately 180 feet to the east of PRAA 2. Stewart Creek, a perennial stream, is located approximately 360 feet from the subject property. Two water wells have been identified within 500 feet of the subject property. The wells are located on Grand Park property to the east of PRAA 2. These wells are associated with an old farmhouse complex located on the west side of Stewart Creek within Grand Park. Diamond Point Estates residences, the former stock pond, Stewart Creek, and the two water wells are the only potential receptors within 500 feet of the subject property.

Section 2.3 Records Survey

Banks Environmental Data provided a water well search extending ½ mile out from the boundary of the Grand Park property. One water well was identified within the Grand Park site

(well #1), and four were located within ½ mile. Well #1 was identified within the PRAA 2 portion of Grand Park; however, this well was field located during site investigational activities to the east of PRAA 2. This well is associated with an old, dilapidated farmhouse complex located on the west side of Stewart Creek in the north-central portion of the Grand Park property. A second well was discovered in this area (well #6) that was not identified in the Banks search.

Section 2.4 Receptor Survey Results

The land use surrounding the PRAA 2 portion of the Grand Park site is mixed. Farmland is across Cotton Gin Road to the north. A fire station is located across Legacy Drive (at the corner of Legacy Drive and Cotton Gin Road). A housing development (Diamond Point Estates) is also located near PRAA 2 on its southern end, on the west side of Legacy Drive. Potential receptors within 500 feet of the site include: Diamond Point Estates residences, two water wells located within Grand Park to the east of PRAA 2, a former stock pond located to the southeast of PRAA 2, and Stewart Creek. The former stock pond is located approximately 180 feet away from PRAA 2. Stewart Creek is approximately 360 feet away from PRAA 2 at its closest point.

As previously discussed, potable water for the subject property and the surrounding area would be provided by the City of Frisco. Two water wells (wells #1 and #6 on Figures 2A and 2C) were identified during site reconnaissance activities. Wells #1 and #6 are within the PRAA 2 500 foot radius. Well #4, which is depicted across Cotton Gin Road to the north of PRAA 2, was not located during the receptor survey. Coordinates provided for well #4 show it to be outside of the 500 foot survey radius.

Section 2.5 Groundwater Resource Classification

The PRAA 2 site groundwater is classified as Class 2 based on low groundwater yields from monitoring wells located on the undeveloped buffer property surrounding the Exide facility. Based on the Exide Technologies Undeveloped Buffer Property APAR, some of the buffer property wells were completed in clayey gravels that produce some groundwater, while other found no groundwater at all. Monitoring wells installed within the Grand Park site generally confirm this groundwater classification; however, groundwater appears to be more isolated within Grand Park. The PRAA 2 site is located approximately 0.6 mile from the Exide buffer property.

Section 2.6 Exposure Pathways

Affected property areas have been laterally delineated to COC concentrations below RALs within PRAA 2. COCs have also been delineated vertically in surface soils to MQLs or background prior to encountering groundwater. Therefore, there are no affected or potentially affected receptors from impacted PRAA 2 surface soils.

Complete or reasonably anticipated to be complete exposure pathways are shown in Table 2C. Since COCs have been delineated vertically to MQLs or background in surface soil, potential exposure pathways in subsurface soil are not evaluated. Groundwater ingestion or inhalation is not a complete exposure pathway since COCs have been delineated vertically to MQLs or background in surface soils prior to reaching groundwater.

Surface water and sediment are not complete exposure pathways and were not evaluated. A former stock pond that is intermittently dry is located approximately 180 feet to the southeast of PRAA 2 and ~480 feet from PRAA 2 affected property. Stewart Creek is located approximately 360 feet to the east of the PRAA 2 boundary at its closest point and over 500 feet away from PRAA 2 affected property. Stewart Creek is known to contain sediment impacted with metals from the upstream Exide facility. Extensive sediment sampling has been conducted in Stewart Creek on the Grand Park site.

Table 2A – Water Well Summary

Table 2B – Affected Water Well Summary
(NOT APPLICABLE)

Table 2C – Complete or Reasonably Anticipated to Be Complete Exposure Pathways

Table 2A. Water Well Summary

Map ID	Well #	Approximate Distance from Site[1]	Aquifer Name	Use	Status	Depth Drilled	Owner	Notes
1	18-50-7A	~80’	Unknown	Domestic	Unknown	450’	Leo Wollenreich	Within Grand Park on property owned by the City of Frisco
2	WIID348444	~3680’	Paluxy	Stock	Unknown	1600’	Starwood HOA	None
3	WIID24984	~2680’	Unknown	Irrigation	Unknown	675	Legacy Christian Academy	None
4	18-50-7G	~920’	Unknown	Domestic	Unknown	33	B.F. Phillips	Well shown in wheat field to the north/northwest of site.
5	18-50-7H	~3920’	Unknown	Domestic	Unknown	36	B.F. Phillips	Well shown in middle of Cheyenne Village neighborhood.
6	Unknown	~320’	Unknown	Unknown	Unknown	Unknown	Unknown	Within Grand Park on property owned by the City Frisco (in close proximity to well #1)

Notes:
1. Approximate distance from PRAA 2 portion of the Grand Park site.

Table 2C. Complete or Reasonably Anticipated to be Complete Exposure Pathways

Exposure pathway	Surface soil[1]	Subsurface soil[2]	Groundwater	Surface water/ sediment
$^{Tot}Soil_{Comb}$[3]	■	NA	NA	NA
$^{Air}Soil_{Inh\text{-}V}$	NA	NA		
$^{GW}Soil_{Ing}$ or $^{GW}Soil_{Class3}$	NA	NA		
$^{GW}GW_{Ing}$ or $^{GW}GW_{Class3}$	NA	NA	□	
$^{Air}GW_{Inh\text{-}V}$			□	
^{SW}GW			□	
^{Sed}GW			□	
^{SW}SW or ^{Sed}Sed			NA	□
Other (specify)[4]	□	□	□	□

[1] Residential: soils from 0-15 feet deep, or to bedrock or groundwater-bearing unit if shallower.
Commercial/industrial: soils from 0-5 feet deep, or to bedrock or groundwater-bearing unit if shallower.

[2] The vadose zone beneath the surface soil extending to the groundwater-bearing unit, and including unsaturated zones between stratified groundwater-bearing units.

[3] Residential: $^{Air}Soil_{Inh\text{-}VP} + {}^{Soil}Soil_{Ing} + {}^{Soil}Soil_{Derm} + {}^{Veg}Soil_{Ing}$
Commercial/industrial: $^{Air}Soil_{Inh\text{-}VP} + {}^{Soil}Soil_{Ing} + {}^{Soil}Soil_{Derm}$

[4] If other exposure pathways are identified here, include those pathways in the derivation of assessment levels and evaluation of critical PCLs.

Figure 2A - Potential Receptors Map

Figure 2B - Field Survey Photographs

Figure 2C - Water Well Map

1000 500 0 1000

(SCALE IN FEET)

LEGEND

- PRAA 2 BOUNDARY
- PRAA 2 500 FOOT RADIUS
- GRAND PARK VCP BOUNDARY
- WATER WELL

AERIAL SOURCE:
GOOGLE EARTH PRO
10-18-2013

REV.	DATE	DESCRIPTION	DR BY	APP BY

COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
POTENTIAL RECEPTORS MAP

DES BY			SCALE: SEE BAR SCALE
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	KLL		CJI NO. 13046079
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 2A
PURPOSE: APAR			

S:\CAD\City of Frisco\13046\13046079 Fig 2A.dwg, 4/9/2015 5:59:46 PM

FIGURE 2B - FIELD SURVEY PHOTOGRAPHS
GRAND PARK PRAA 2
FRISCO, TEXAS

Photo 1 – This photo was taken from the north side of Cotton Gin Road and north of the site looking to the west. A wheat field is visible on the north side of the road, and PRAA 2 is seen to the south. A fire station can be seen in the distance (on Legacy Drive).

Photo 2 – This is a photo Frisco Fire Station #4 located on the southwest corner of Legacy Drive and Cotton Gin Road.

FIGURE 2B - FIELD SURVEY PHOTOGRAPHS
GRAND PARK PRAA 2
FRISCO, TEXAS

Photo 3 – This is a view of the PRAA 1 property located to the east of PRAA 2 (looking south).

Photo 4 – This photo was taken from the east side of Legacy Drive. This shows Legacy Drive and the housing development located across from the southern portion of the PRAA 2 site.

FIGURE 2B - FIELD SURVEY PHOTOGRAPHS
GRAND PARK PRAA 2
FRISCO, TEXAS

Photo 5 – This photo was taken from the east side of Legacy Drive and shows a church located to the southwest of the PRAA 2 site.

Photo 6 – This photo shows undeveloped Grand Park property located to the south of the PRAA 2 site.

FIGURE 2B - FIELD SURVEY PHOTOGRAPHS
GRAND PARK PRAA 2
FRISCO, TEXAS

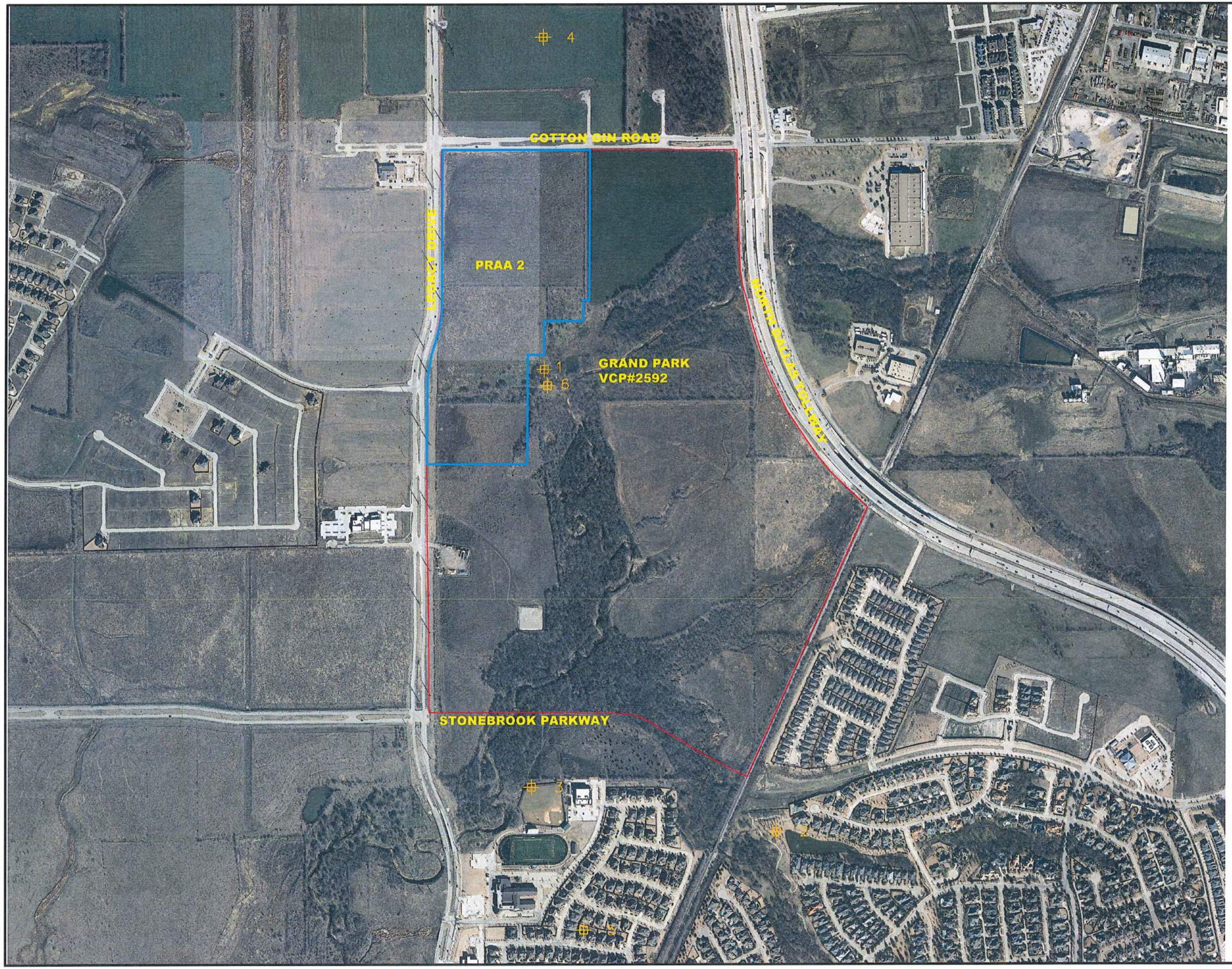
Photo 7 – This is a photo of well #1 located on the Grand Park property to the east of PRAA 2.

Photo 8 – This is a photo of well #6 located on the Grand Park property to the east of PRAA 2.

FIGURE 2B - FIELD SURVEY PHOTOGRAPHS
GRAND PARK PRAA 2
FRISCO, TEXAS

Photo 9 – View of Stewart Creek within Grand Park

Photo 10 – View of former stock pond area to the southeast of PRAA 2 within Grand Park.



AERIAL SOURCE:
NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG); 2011

REV.	DATE	DESCRIPTION	DR BY	APP BY

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ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
WATER WELL MAP

DES BY			SCALE: SEE BAR SCALE
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	RDV		CJI NO. 13046081
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 2C
PURPOSE: APAR			

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Attachment 2A - Tier 1 Ecological Exclusion Criteria Checklist

Attachment 2B - Tier 1 Ecological Exclusion Criteria Supporting Documentation

Attachment 2A Tier 1 Exclusion Criteria Checklist

PART I. Affected Property Identification and Background Information

1) Provide a description of the specific area of the response action and the nature of the release. Include estimated acreage of the affected property and the facility property, and a description of the type of facility and/or operation associated with the affected property. Also describe the location of the affected property with respect to the facility property boundaries and public roadways.

The subject property (PRAA 2) is open pasture that has historically been used for farming or ranching and is located on the southeast corner of Cotton Gin Road and Legacy Drive in Frisco, Texas. The site is bound to the north by Cotton Gin Road, to the west by the Legacy Drive, and to the south and east by undeveloped (Grand Park) City owned property. The City of Frisco acquired the subject property, along with adjacent properties to the east and south, for the planned Grand Park development (park land, residential, and retail properties).

The Grand Park site (which includes PRAA 2) was enrolled in the VCP to investigate known impacts to Stewart Creek and potential, airborne deposits of metal particulate to the upland areas of the property.

Surface soils in PRAA 2 were assessed to determine if site development could proceed in a manner protective of human health and the environment, while also meeting the applicable regulatory requirements. Results show that surface soils exceed residential assessment levels at three sample locations. PRAA 2 is approximately 63 acres in size, and the affected property within PRAA 2 is estimated to be less than ¼ acre. The three areas of affected property totaling less than ¼ acre have been laterally delineated to levels less than residential assessment levels within the PRAA 2 site and vertically delineated to either the MQL or background.

Attach available USGS topographic maps and/or aerial or other affected property photographs to this form to depict the affected property and surrounding area. Indicate attachments:

____ Topo map _X_ Aerial photo ____ Other (specify) _____

(See APAR Fig 1B)

2) Identify environmental media known or suspected to contain chemicals of concern (COCs) at the present time. Check all that apply:

Known/Suspected COC Location	Based on sampling data?	
X Soil <5 ft below ground surface	X Yes	____ No
____ Soil >5 ft below ground surface	____ Yes	____ No
____ Groundwater	____ Yes	____ No
____ Surface Water/Sediments	____ Yes	____ No

Explain (previously submitted information may be referenced):

Assessment sampling has confirmed that COCs (arsenic and lead) in surface soils at the site are present at concentrations exceeding residential assessment levels. Affected property areas have been laterally delineated to COC concentrations below RALs within PRAA 2. COCs have also been vertically delineated to concentration below RALs at 1 foot below ground surface.

3) Provide the information below for the nearest surface water body which has become or has the potential to become impacted from migrating COCs via surface water runoff, air deposition, groundwater seepage, etc. Exclude wastewater treatment facilities and stormwater conveyances/impoundments authorized by permit. Also exclude conveyances, decorative ponds, and those portions of process facilities that are:

a. Not in contact with surface waters in the State or other surface waters which are ultimately in contact with surface waters in the State; and
b. Not consistently or routinely utilized as valuable habitat for natural communities including birds, mammals, reptiles, etc.

The nearest surface water body is ~480 feet from the affected property and is named:

Former stock pond. The former stock pond is located approximately 70 feet to the north/northwest from Stewart Creek, a perennial stream.

The water body is best described as a:

freshwater stream:
___ perennial (has water all year)
___ intermittent (dries up completely for at least 1 week a year)
___ intermittent with perennial pools
___ freshwater swamp/marsh/wetland
___ saltwater or brackish marsh/swamp/wetland
X reservoir, lake, or pond; approximate surface acres < 0.20 acre
___ drainage ditch
___ tidal stream ___ bay ___ estuary
___ other; specify

Is the water body listed as a State classified segment in Appendix C of the current Texas Surface Water Quality Standards; §§307.1 - 307.10?

___ Yes Segment # _____ Use Classification: _____
X No

If the water body is not a State classified segment, identify the first downstream classified segment.

Name: Lewisville Lake
Segment #: 0823
Use Classification: Contact Recreation Use, General Use, Fish Consumption, Public Water Supply Use

As necessary, provide further description of surface waters in the vicinity of the affected property:

Lewisville Lake is approximately 4 miles downstream of the PRAA 2 site.

PART II. Exclusion Criteria and Supportive Information

Subpart A. Surface Water/Sediment Exposure

1) Regarding the affected property where a response action is being pursued under the TRRP, have COCs migrated and resulted in a release or imminent threat of release to either surface waters or to their associated sediments via surface water runoff, air deposition, groundwater seepage, etc.? Exclude wastewater treatment facilities and stormwater conveyances/impoundments authorized by permit. Also exclude conveyances, decorative ponds, and those portions of process facilities which are:

a. Not in contact with surface waters in the State or other surface waters which are ultimately in contact with surface waters in the State; and

b. Not consistently or routinely utilized as valuable habitat for natural communities including birds, mammals, reptiles, etc.

___ Yes X No

Explain:

The nearest surface water, a former stock pond, is located ~480 feet to the southeast of PRAA 2 affected property. Stewart Creek is located over 500 feet away from affected PRAA 3 property. Residential assessment levels (RALs) for COCs were exceeded in 3 of the 586 surface soil samples collected in PRAA 2. Affected property areas have been laterally delineated to COC concentrations below RALs within PRAA 2.

If the answer is yes to Subpart A above, the affected property does not meet the exclusion criteria. However, complete the remainder of Part II to determine if there is a complete and/or significant soil exposure pathway, then complete PART III - Qualitative Summary and Certification. If the answer is No, go to Subpart B.

Subpart B. Affected Property Setting

In answering "Yes" to the following question, it is understood that the affected property is not attractive to wildlife or livestock, including threatened or endangered species (i.e., the affected property does not serve as valuable habitat, foraging area, or refuge for ecological communities). (May require consultation with wildlife management agencies.)

1) Is the affected property wholly contained within contiguous land characterized by: pavement, buildings, landscaped area, functioning cap, roadways, equipment storage area, manufacturing or process area, other surface cover or structure, or otherwise disturbed ground?

____ Yes X No

Explain:

The PRAA 2 site is currently open pasture. Roadways surround the property to the north and west, and undeveloped Grand Park property is located adjacent to the south and east.

If the answer to Subpart B above is Yes, the affected property meets the exclusion criteria, assuming the answer to Subpart A was No. Skip Subparts C and D and complete PART III - Qualitative Summary and Certification. If the answer to Subpart B above is No, go to Subpart C.

Subpart C. Soil Exposure

1) Are COCs which are in the soil of the affected property solely below the first 5 feet beneath ground surface **or** does the affected property have a physical barrier present to prevent exposure of receptors to COCs in surface soil?

____ Yes X No

Explain:

Surface soils were assessed to investigate potential, airborne deposits of metal particulate. COCs were generally assessed in the top foot of site soils. 586 surface soil samples were collected and only 3 samples contained COCs exceeding residential assessment levels.

If the answer to Subpart C above is Yes, the affected property meets the exclusion criteria, assuming the answer to Subpart A was No. Skip Subpart D and complete PART III - Qualitative Summary and Certification. If the answer to Subpart C above is No, proceed to Subpart D.

Subpart D. *De Minimus* Land Area

In answering "Yes" to the question below, it is understood that all of the following conditions apply:

- The affected property is not known to serve as habitat, foraging area, or refuge to threatened/endangered or otherwise protected species. (Will likely require consultation with wildlife management agencies.)
- Similar but unimpacted habitat exists within a half-mile radius.
- The affected property is not known to be located within one-quarter mile of sensitive environmental areas (e.g., rookeries, wildlife management areas, preserves). (Will likely require

consultation with wildlife management agencies.)

- There is no reason to suspect that the COCs associated with the affected property will migrate such that the affected property will become larger than one acre.

1) Using human health protective concentration levels as a basis to determine the extent of the COCs, does the affected property consist of one acre or less and does it meet all of the conditions above?

X Yes ____ No

Explain how conditions are met/not met:

Based on residential assessment levels, there is affected property at the PRAA 2 site. The PRAA 2 site consists of approximately 63 acres and less than ¼ acre is considered potentially affected property. It is unlikely that the site would serve as habitat, foraging area, or refuge to threatened/endangered or otherwise protected species as it is former cultivated farmland bounded by two heavily travelled roadways and is within the rapidly developing City of Frisco. Non-aquatic threatened species listed by the Texas Parks and Wildlife Department for Denton County include: the American Peregrine Falcon, the Bald Eagle, the Peregrine Falcon, the White-faced Ibis, the Whooping Crane, the Wood Stork, the Texas horned lizard, and the Timber rattlesnake. The Red wolf was the single endangered species listed for Denton County. Areas within PRAA 2 with shallow surface soils impacted with COCs (that are to be removed during response actions) are no more attractive to threatened or endangered species than similar, unimpacted property found in the majority of PRAA 2 and other undeveloped properties within a half-mile radius of the site. Sensitive environmental areas are not located within one-quarter mile of the PRAA 2 site. The closest water body, a former stock pond that is intermittently dry, is located approximately 480' from PRAA 2 affected property; however, affected property areas within PRAA 2 have been laterally delineated to COC concentrations below RALs.

If the answer to Subpart D above is Yes, then no further ecological evaluation is needed at this affected property, assuming the answer to Subpart A was No. Complete PART III - Qualitative Summary and Certification. If the answer to Subpart D above is No, proceed to Tier 2 or 3 or comparable ERA.

PART III. Qualitative Summary and Certification (complete in all cases.)

Attach a brief statement (not to exceed 1 page) summarizing the information you have provided in this form. This summary should include sufficient information to verify that the affected property meets or does not meet the exclusion criteria. The person should make the initial decision regarding the need for further ecological evaluation (i.e., Tier 2 or 3) based upon the results of this checklist. After review, TCEQ will make a final determination on the need for further assessment. **Note that the person has the continuing obligation to re-enter the ERA process if changing circumstances result in the affected property not meeting the Tier 1 exclusion criteria.**

Completed by	Kevin Lonseth, P.G.	(Typed/Printed Name)
	CJI Project Staff	(Title)
	4/10/2015	(Date)

I believe that the information submitted is true, accurate, and complete, to the best of my knowledge.

Mack Borchardt	(Typed/Printed Name of Person)
Special Assistant to the City Manager	(Title of Person)
Mack Borchardt	(Signature of Person)
4/10/2015	(Date Signed)

Attachment 2B Tier 1 Exclusion Supporting Documentation

The ~63-acre Partial Response Action Area 2 (PRAA 2) within the Grand Park property (VCP #2592) is located in the northwest corner of the Grand Park site at the intersection of Cotton Gin Road and Legacy Drive. PRAA 2 (the subject property) is currently open pasture that was previously farmed or used for ranching. The City of Frisco (Frisco) owns the approximately 320 acres of contiguous property that make up the Grand Park site. The City currently plans to develop the Grand Park site into park lands, retail, and residential properties. The Grand Park site is located to the south of Cotton Gin Road, to the west of Dallas North Tollway and a BNSF Railway, to the north of Stonebrook Parkway, and to the east of Legacy Drive. Based on sediment sampling of Stewart Creek, it appears that Stewart Creek sediment within Grand Park has been impacted by past operations at the upstream former Exide Battery Recycling Facility (Exide). In addition, historic stack emissions from Exide could have impacted surface soils within the Grand Park site.

The affected property assessment consisted of a focused investigation of the surface soils at the PRAA 2 site. The purpose of the assessment was to determine if contaminants of concern (COCs) were present in surface soils and if so, to fully delineate the vertical and lateral extent of contamination. Based on the assessment findings, COCs were found to exceed residential assessment levels at 3 of the 586 sampled locations.

The subject property meets the ecological exclusion criteria for the following reasons:

1. Assessment sampling confirmed that COCs in surface soils across the majority of the PRAA 2 site are below residential assessment levels. In the 63 acre site, less than ¼ acre is estimated to be affected property. The three affected property areas within PRAA 2 have been laterally delineated to COC concentrations below RALs. COCs in surface soils were also vertically delineated to MQLs or background in the top foot of surface soils.

2. The nearest surface water body, a former stock pond, is located approximately 180 feet southeast from the site. This intermittently dry pond is ~480 feet away from PRAA 2 affected property. Stewart Creek, is located about 360 feet east/southeast of the site, and over 500 feet away from PRAA 2 affected property. Extensive sampling of Stewart Creek within the Grand Park property has shown that sediments have been impacted by past operations at the upstream Exide facility.

3. Soil benchmarks were reviewed in TCEQ's *Conducting Ecological Risk Assessments at Remediation Sites in Texas* (RG-263, Revised Draft January 2014). Of the 586 surface soil samples collected for arsenic, only 4 concentrations exceeded the recommended soil benchmark for plants (18 mg/Kg). Two of those four samples exceeded the earthworm benchmark of 60 mg/Kg. A 95% upper confidence limit (UCL) for arsenic of 10.07 mg/Kg was calculated using all 587 surface soil samples collected for arsenic at the PRAA 2 site. A 95% UCL for arsenic was also calculated using only the sample concentrations located outside of the PCLE zones (583 samples). This value was calculated at 9.44 mg/Kg. Both of these values for arsenic are well below the plant benchmark and the site specific arsenic background value of 15.9 mg/Kg.

Of the 586 surface soil samples collected for lead, only 2 values exceeded the recommended soil benchmark for plants (120 mg/Kg) and all were well below the earthworm benchmark of 1700 mg/Kg. A 95% UCL of 26.53 mg/Kg was calculated for lead using all 586 surface soil samples. Removing the lead concentrations from within the PCLE zones, a 95% UCL of 25.17 mg/Kg was calculated. Both of these lead values are well below the plant benchmark and below the site specific lead background value of 31.5 mg/Kg. 95% UCL calculations for arsenic and lead are included within this attachment.

4. Shallow surface soils impacted with COCs will be removed from the PRAA 2 site during response action activities.

5. The site is currently open pasture bounded on two sides by two heavily travelled roads and is within the rapidly developing City of Frisco. PRAA 2 would not be considered more attractive to wildlife, including threatened or endangered species, than the immediate surrounding area.

Section 3 Assessment Strategy

Section 3.1 General Assessment Issues

Environmental Media Assessed

Surface soils and groundwater were the only environmental media assessed. As described in Section 4.2, the results of the assessment samples revealed that COCs within PRAA 2 site surface soils were above residential assessment levels at three locations, and that COCs were vertically delineated to MQLs or background at one foot below ground surface. Therefore, deeper subsurface soils were not assessed. One monitoring well (GP-MW-7) was installed within PRAA 2 to assess potential groundwater impacts, however, no groundwater was encountered. Stewart Creek flows through the Grand Park site, and is located approximately 360 feet to the east/southeast of PRAA 2. Extensive sampling of Stewart Creek sediment within the Grand Park site has been conducted. Stewart Creek sediments within Grand Park are known to be impacted by historic Exide activities.

Target COCs

The target COCs and associated laboratory methods consisted of the following heavy metals: arsenic, cadmium, lead, and selenium by EPA 6020. The contaminants of concern were selected based on potential contamination from particulate deposition from airborne emissions originating at the former Exide facility.

Background

Background sampling was not conducted during the PRAA 2 property assessment.

Background soil samples were previously collected from the Grand Park property by Pastor, Behling & Wheeler, LLC (PBW). PBW collected the samples on behalf of their client, Exide Technologies. The purpose of the background samples was to determine representative background concentrations for arsenic, cadmium, and lead in surface soil in the area.

A Background Report documenting PBW's sample collection procedures, sample results, statistical evaluation, and conclusions is provided in Appendix I of the Grand Park Phase I ESA submitted to the TCEQ on January 16, 2014 and incorporated herein by reference. The general location where these samples were collected is provided on Figure 4 of the Phase I ESA and on Figure 1 of the PBW report. Specific background sample locations are provided on Figure 2 of the PBW Report.

As documented in the Background Report, PBW collected 10 soil samples near Stewart Creek on the southern portion of the subject property on 29 March 2012. Based on a verbal request by the TCEQ, PBW collected 3 more soil samples from the same area on 9 May 2013. The analytical data from those samples is summarized in the following table.

Sample ID	Sample Depth (feet below ground surface)	Concentration (milligrams per Kilogram [mg/Kg])		
		Arsenic	Cadmium	Lead
2012-BG-1	0-2	11.2	< 0.0313 UJ	13.2 J
2012-BG-2	0-2	9.29	< 0.0287 UJ	13 J
2012-BG-3	0-2	11.6	< 0.0301 UJ	11.5 J
2012-BG-4	0-2	10.8	< 0.0315 UJ	15.7 J
2012-BG-5	0-2	14.8	< 0.031 UJ	13.5 J
2012-BG-6	0-2	10.0	< 0.0314 UJ	14.3 J
2012-BG-7	0-2	9.74	< 0.031 UJ	14.1 J
2012-BG-8	0-2	9.83	0.122 J	24 J
2012-BG-9	0-2	12.6	8.09 J	*302 J*
2012-BG-10	0-2	11.0	< 0.615 UJ	*67.6 J*
2012-BG-11	0-2	Not Analyzed	Not Analyzed	20.6
2012-BG-12	0-2	Not Analyzed	Not Analyzed	27.5
2012-BG-13	0-2	Not Analyzed	Not Analyzed	18.9
Background Mean		11.1	Not Calculated	16.9
Standard Deviation		1.64	Not Calculated	5.16
K-Value		2.911	--	2.815
Upper Tolerance Limit		15.9	Not Calculated	31.5

Notes: Values presented in *italic* type were excluded from statistical analyses because they were statistically identified as outliers.

Data Qualifiers: J = estimated concentration; UJ – compound not detected at the indicated detection limit, estimated value.

Background values not calculated for cadmium because most of the data were non-detect.

The lead concentrations reported in the highlighted samples, 2012-BG-9 and 2012-BG-10, were considered outliers and were excluded from the statistical evaluation. CJI considers the highlighted lead and cadmium concentrations reported above to be indicative of surface soil contamination.

As shown in the table above, PBW used the arsenic and lead data to calculate upper tolerance limits (UTLs). The UTLs represent background levels for arsenic and lead in surface soil of 15.9 mg/Kg and 31.5 mg/Kg, respectively. Those values were reported to the TCEQ in the FOP APAR (the Background Report is provided in Appendix 8 of that document). CJI assumes that the TCEQ has approved the Background Report and calculations, since it did not comment on them in the 8 October 2013 or 19 November 2013 letters regarding the FOP APAR. The 19 November 2013 letter is a conditional approval of the FOP APAR. Based on the TCEQ's apparent concurrence, and since those samples were collected on-site, CJI has concluded that those values are appropriate for use in the Grand Park VCP investigation.

Southwest Geoscience (now Apex TITAN, Inc.) performed a background study for the City of Frisco. The Southwest Geoscience Background Study was submitted to the TCEQ in March 2014. Due to its size, it is not appended to this document. Rather, it is incorporated by reference.

As documented in its background study, Southwest Geoscience collected samples from 70 two-foot deep borings. Ten borings were installed at each of seven different locations throughout the City of Frisco; and two samples were collected from each boring (one from the 0-1' interval, the second from the 1-2' interval) for a total of 140 individual soil samples.

Although Southwest Geoscience collected the samples and validated the data, it did not statistically evaluate them. ToxStrategies, Inc. performed that task. ToxStrategies evaluated the data from the 0-1' sampling interval and calculated several different statistical values for each metal. Due to the population characteristics, ToxStrategies could not calculate 95% UTLs (the statistical evaluation performed by PBW). However, it did calculate the following:

Statistical Test and Confidence Interval	Description
95% Upper Confidence Limit (UCL) on the mean	95% Chance that the mean of the range of natural concentrations will be equal to or less that this value.
95% UTL on the median	95% Confidence that the median of the range of natural concentrations will be equal to or less that this value.
75th percentile (75% Upper Prediction Limit [UPL])	75% Confidence that 75% of the natural concentrations observed in the future will be equal to or less than this value.
95% UTL on 75th Percentile	95% Confidence that 75% of the natural concentrations will be less than this value.
95th percentile (95% UPL)	95% Confidence that 95% of the natural concentrations observed in the future will be equal to or less than this value.
99th percentile (95% UPL)	95% Confidence that 99% of the natural concentrations observed in the future will be equal to or less than this value.

After reviewing the statistics performed by ToxStrategies and using the 95% UTL on the 75th Percentile, CJI has determined appropriate background values for cadmium and selenium as 0.4 mg/Kg and 2.1 mg/Kg, respectively.

Section 3.2 Assessment Strategy

General Assessment Approach

The soil assessment was conducted by superimposing a sampling grid across the PRAA 2 property and collecting samples within that grid. Each surface soil sample was collected from the top few inches of soil. This sample depth was selected because airborne emissions from the former Exide facility could have resulted in shallow soil contamination. A total of 586 surface soil samples were collected over the approximately 63-acre PRAA 2 site to assess potential releases and to determine the lateral extent of any contamination in soils. Additional samples were collected at 56 locations for vertical delineation to MQLs or background levels. These samples were collected from 1-1.5' below ground surface. An additional surface soil sample, 7B-d (w), was collected to complete the lateral delineation of arsenic at sample 7B-d.

Vertical delineation samples were collected at each of the three surface soil samples locations with COCs detected above residential assessment levels. Vertical delineation for arsenic, lead, and selenium was performed in areas exceeding background levels. Vertically delineation samples collected for arsenic, lead, and selenium were all below background values. Vertically delineation samples analyzed for cadmium were below laboratory MQLs. Vertical delineation samples were collected using a Geoprobe rig.

A deeper boring was installed at sample location 7E-c using a Mobile B-57 drilling rig. During boring advancement, soil samples were screened for the presence of organic vapors using a Photo-Ionization Detector (PID). The PID showed no evidence of contamination. The boring was lithologically logged using the Unified Soil Classification System (USCS). It was drilled into the top of the Eagle Ford Shale. A monitoring well was installed in this boring (GP-MW-7) to assess potential groundwater impacts. This well was screened on top of the Eagle Ford Shale formation, an aquitard, from 10 to 20 feet below ground surface. The well was dry during its most recent gauging in February 2015. The boring log including well completion information for GP-MW-7 is provided in Appendix 2.

Sample collection, handling, and laboratory analysis were conducted in accordance with TCEQ technical guidance. Soil samples were collected using pre-cleaned and/or decontaminated equipment. Samples were immediately placed into laboratory supplied sampling jars and then transferred to a cooled container pending delivery to the laboratory. Samples were delivered to the laboratory at the end of each sample collection work week using strict chain-of-custody procedures. The samples were analyzed for target metals (arsenic, cadmium, lead, and selenium).

Sampling Approach

A grid system established on 1-acre centers was selected as the most appropriate sampling approach since any particulate deposition from Exide emissions would not have been isolated to specific areas of the PRAA 2 site, but instead could be present across the entire site. The particulate deposition would be isolated to the top few inches of the surface soil. Nine surface soil samples were collected within each full 1-acre grid space.

Surface Water and Sediment Assessment

No surface water or sediment sampling was performed in PRAA 2 since none exists. A former stock pond is located approximately 180 feet to the southeast of PRAA 2 property. Stewart Creek is located approximately 360 feet away from PRAA 2 at its closest point. Extensive sampling of Stewart Creek sediment within the Grand Park site has been conducted.

Miscellaneous

No miscellaneous sampling was performed in PRAA 2.

Utilities

Utility location through Texas 811 and the City of Frisco was initiated prior to any sample collection activities (Geoprobe and Mobile B-57 borings) deeper than 18 inches. The City of Frisco identified sewer and water lines that cross the PRAA 2 site. Atmos Energy identified a

gas line that runs across the northern portion of the PRAA 2 site. No utilities were identified that crossed affected surface soils within the PRAA 2 site. Utilities at the site are not threatened, affected, or able to serve as a migration pathway. Impacted soils will be removed during the planned response action prior to any site development.

Assessment Methods

Each surface soil sample was collected from the top few inches of soil (generally 0 to 3 inches below ground surface) since the potential contamination is from particulate deposition from airborne emissions from the former Exide facility. Samples were collected by hand using disposable sampling trowels. The coordinates of each surface soil sample was determined using a GPS unit and recorded in a logbook. A stake was used to mark each sample location. One duplicate sample per 20 soil samples was collected for QA/QC purposes.

Deeper samples were collected from 1' to 1.5' for vertical delineation to background. One additional surface soil sample, 7B-d (w), was collected for the lateral delineation of arsenic at sample 7B-d.

Collected soil samples were placed into a laboratory supplied jar that was appropriately labeled, and a chain of custody was initiated in the field at the time of sampling. All of the samples were thermally preserved after collection by placing the sample jars in an insulated chest with ice. The samples were kept at approximately 4°C in the field and during transport to the laboratory. A temperature blank was present in each of the ice chests to ensure laboratory personnel could check the temperature. Samples were delivered to the laboratory at the end of sample collection work weeks using strict chain-of-custody procedures. Sample collection, handing, and laboratory analyses were conducted in accordance with EPA and TCEQ technical guidance.

A minimal amount of investigation derived wastes were generated during PRAA 2 assessment activities. These wastes included soil cuttings from monitoring well GP-MW-7 boring installation and minor volumes of decontamination rinsate water. These wastes will be appropriately disposed of during future Grand Park assessment activities.

Data Quality

All of the target compounds were analyzed using EPA approved methods. These methods are standard industry methods that achieve low MQLs and are appropriate for use on projects implemented under the Texas Risk Reduction Program. All sample results were reported on a dry weight basis.

Table 3A - Underground Utilities

Table 3A. Underground Utilities

Utility type	Construction material	Backfill material	Approx. depth (ft)	Utility company name	Potential migration pathway?		Affected?	
					Yes	No	Yes	No
Existing Storm Sewer	Unknown	Soil	Unknown	City of Frisco		X		X
Existing Water Line	Unknown	Soil	Unknown	City of Frisco		X		X
Existing Gas Line	Unknown	Soil	Unknown	Atmos		X		X

Figure 3A – Site Utilities Map

PRAA 2

LEGEND

SEWER LINE

WATER LINE

STORM SEWER

GAS LINE

500 0 500

(SCALE IN FEET)

NOTE:
GENERAL LOCATIONS TAKEN FROM MAPS PROVIDED BY THE CITY OF FRISCO AND ATMOS ENERGY.

REV.	DATE	DESCRIPTION	DR BY	APP BY

COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
SITE UTILITIES MAP

DES BY			SCALE: SEE BAR SCALE
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	RDV		CJI NO. 13046082
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 3A
PURPOSE: APAR			

S:\CAD\City of Frisco\13046\13046082 Fig 3A.dwg, 4/9/2015 6:04:06 PM

Section 4 Soil Assessment

Section 4.1 Derivation of Assessment Levels

Exposure pathways considered for determination of the assessment levels for surface soils were: (1) protection of groundwater from soil leachate; and (2) combined ingestion, dermal contact, and inhalation of volatiles/particulates, and ingestion of vegetables. The assessment levels for surface soils were selected as the lowest Tier 1 or 2 residential PCLs for the identified exposure pathways. As described in Section 2.6, ecological receptors should not be threatened by this site.

The assessment levels for some of the target COCs were based on Tier 2 soil-to-groundwater PCLs. Tier 2 soil-to-groundwater PCLs were calculated for arsenic, cadmium, lead, and selenium. The Tier 2 PCL calculations are provided in Appendix 9 and were performed to consider the sorptive redistribution of contaminants from leachate into the underlying unaffected soils. As a conservative measure, all of the Tier 1 default parameters for a 30-acre source area and residential land use were used in the calculations, with exception of L1 and L2 input values. The basis for the site-specific L1 and L2 input values are provided below.

- L1 value: Airborne emission (particulate deposition) from the Exide facility is expected to be found it top few inches of site soils. Vertically delineating data confirms that affected soil is located in the top foot of soil. Therefore, as a conservative measure, L1 (the total thickness of affected media), has been assigned a value of 1 foot.

- Arsenic and Selenium L2 value: As described in Section 1.3, a dry well was installed at the PRAA 2 site. The total depth of this well was 20 feet bgs. Therefore, as a conservative measure, L2, which is the depth from the top of the affected soils to groundwater, has been assigned a value of 20 feet for arsenic and selenium.

- Cadmium and Lead L2 value: For cadmium and lead, an L2 value of 1 foot was used, assuming soil contaminated with these metals is in direct contact with groundwater at the site.

Section 4.2 Nature and Extent of COCs and NAPL in Soil

Soil sampling was conducted to determine the nature and extent of any COCs at the site. The maximum concentrations of COCs in PRAA 2 surface soils are summarized in Table 4A. The analytical results for the assessment samples are provided in Table 4D. The data usability summary and laboratory reports are provided in Appendix 10.

Three surface soil samples collected within PRAA 2 exceeded PCLs. Arsenic was detected in sample 7B-d at a concentration of 27.1 mg/kg, slightly above its PCL value of 24 mg/kg. Arsenic and lead were detected above their respective PCLs in sample 7E-c. Arsenic was also detected above its PCL in sample 11C-a. COCs at the remaining 582 surface soil samples collected at PRAA 2 were below PCLs.

No NAPL was observed at the site during the affected property assessment activities.

Vertical Delineation Samples

After surface soil sample data was evaluated, vertical delineation samples were collected at the 3 sample locations with PCL exceedances. COC concentrations in these samples were below PCLs in the 1' to 1.5' samples. Additional samples were collected from 53 locations where concentrations of arsenic, cadmium, lead, or selenium were detected above either MQLs (potentially) or background values. These samples were collected from 1' to 1.5' deep, with one deeper sample collected from 1.5' to 2' below ground surface. Arsenic, cadmium, lead, and selenium concentrations from the 1' to 1.5' deep samples were detected below either MQLs or background levels in all samples. Based on the vertical delineation sample results target COCs in all site soils are less than residential assessment levels at 1 foot below ground surface and have been delineated to the higher of their MQLs or background.

Lateral Delineation Samples

Soil samples were collected to determine if COCs exceeded residential assessment levels. All of the collected soil samples were generally comprised of dark brown clay with minor amounts silts or sands. 586 samples were collected from the upper three inches of soils at the site and analyzed for the target COCs. Target compounds in 583 of these samples met their residential assessment levels. Lateral delineation was accomplished with other grid samples, however, an additional sample was required to laterally delineate sample 7B-d for arsenic. Sample 7B-d (w) was collected to the west of 7B-d and had a concentration of 11.6 mg/kg, well below its PCL value of 24 mg/kg.

Groundwater Assessment

COCs were vertically delineated prior to encountering groundwater, therefore, groundwater has not been affected by PRAA 2 surface soils. Monitoring well GP-MW-7 was installed to assess groundwater potentially impacted from offsite sources. Groundwater was not encountered in GP-MW-7.

Table 4A - Surface Soil Residential Assessment Levels for Human Health Exposure Pathways

Table 4B - Surface Soil Residential Assessment Levels with Ecological Components (NOT APPLICABLE)

Table 4C - Subsurface Soil Residential Assessment Levels (NOT APPLICABLE)

Table 4D – Soil Data Summary

Table 4E Soil Geochemical / Geotechnical Data Summary (NOT APPLICABLE)

Table 4A. Surface Soil Residential Assessment Levels for Human Health Exposure Pathways

COC[1]	Source area size (acres)	$^{Tot}Soil_{Comb}$ PCL (mg/kg)	^{GW}Soil PCL		MQL (mg/kg)	Back-ground (mg/kg)	Maximum concentration			
			(mg/kg)	Tier			Sample ID	Sample depth	Sample date	Conc (mg/kg)
Arsenic	<30	**24**	60.19	2	1	15.9	11C-a	0-3”	9/17/14	122
Cadmium	<30	52	**20.00**	2	1	0.4	7E-c	0-3”	9/11/14	6.98 J
Lead	<30	**250**	274.51	2	1	31.5	7E-c	0-3”	9/11/14	257
Selenium	<30	310	**33.96**	2	1	2.1	7E-c	0-3”	9/11/14	10.9 J

1. Includes all COCs that were detected in assessment samples.
2. The lead assessment level (250 mg/Kg) represents half of the $^{Tot}Soil_{Comb}$ PCL. It is based on 1) an agreement between the City of Frisco and Exide; and 2) a Tier 2 PCL that exceeds this value.

NA – Not Applicable; background value not established.
J – Laboratory estimate value between SQL and MQL.

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
1B-a	9/2/2014	14-09-0479 1	7.93	0.717 J	14.1	<0.280
1B-b	9/2/2014	14-09-0479 2	6.35	0.644 J	14.5	<0.279
1B-c	9/2/2014	14-09-0479 3	6.59	0.723 J	15.0	<0.279
1B-d	9/2/2014	14-09-0479 36	8.01	0.631 J	14.6	1.47
1B-e	9/2/2014	14-09-0479 35	12.0	0.737 J	24.8	1.80
1B-e (1-1.5')	10/23/2014	14-10-2039 122	NA	NA	NA	<0.264
1B-f	9/2/2014	14-09-0479 34	8.19	0.600 J	15.9	1.91
1B-g	9/3/2014	14-09-0479 39	7.49	0.576 J	15.0	1.41
1B-h	9/3/2014	14-09-0479 40	8.31	0.566 J	17.7	1.43
1B-i	9/3/2014	14-09-0479 41	9.87	0.806 J	29.3	1.29 J
1C-a	9/2/2014	14-09-0479 4	9.50	0.558 J	17.0	<0.280
1C-b	9/2/2014	14-09-0479 5	5.61	0.557 J	15.2	<0.277
1C-c	9/2/2014	14-09-0479 6	5.83	0.575 J	16.4	<0.278
1C-d	9/2/2014	14-09-0479 33	8.60	0.644 J	26.8	**2.37**
1C-d (1-1.5')	10/23/2014	14-10-2039 120	NA	NA	NA	0.449 J
1C-e	9/2/2014	14-09-0479 32	9.07	0.601 J	25.0	**2.47**
1C-e (1-1.5')	10/23/2014	14-10-2039 118	NA	NA	NA	0.451 J
1C-f	9/2/2014	14-09-0479 31	8.94	0.596 J	24.6	1.94
1C-g	9/3/2014	14-09-0479 42	8.73	0.677 J	26.5	1.76
1C-h	9/3/2014	14-09-0479 43	8.24	0.647 J	26.3	1.34
1C-i	9/3/2014	14-09-0479 44	10.6	0.752 J	27.5	1.31
1D-a	9/2/2014	14-09-0479 7	7.57	0.733 J	17.9	<0.281
1D-b	9/2/2014	14-09-0479 8	7.06	0.740 J	15.8	<0.276
1D-c	9/2/2014	14-09-0479 9	8.22	0.680 J	16.4	<0.278
1D-d	9/2/2014	14-09-0479 30	9.63	0.640 J	27.4	2.06
1D-d (1-1.5')	10/23/2014	14-10-2039 116	NA	NA	NA	0.544 J
1D-e	9/2/2014	14-09-0479 29	9.69	0.646 J	26.0	0.537 J
1D-f	9/2/2014	14-09-0479 28	9.69	0.707 J	25.2	<0.286
1D-g	9/3/2014	14-09-0479 45	9.37	0.600 J	25.6	1.60
1D-h	9/3/2014	14-09-0479 46	9.47	0.660 J	27.1	1.08 J
1D-i	9/3/2014	14-09-0479 47	9.10	0.654 J	26.6	1.24
1D-i (1-1.5')	10/23/2014	14-10-2039 114	NA	NA	NA	0.468 J
1E-a	9/2/2014	14-09-0479 10	7.74	0.568 J	19.4	1.34
1E-a (1-1.5')	10/23/2014	14-10-2039 106	NA	NA	NA	0.347 J
1E-b	9/2/2014	14-09-0479 11	6.85	0.610 J	16.6	0.479 J
1E-c	9/2/2014	14-09-0479 12	7.90	0.683 J	15.0	<0.282
1E-d	9/2/2014	14-09-0479 27	9.66	0.685 J	27.2	0.421 J
1E-e	9/2/2014	14-09-0479 26	10.4	0.673 J	28.2	<0.282

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic		Cadmium		Lead		Selenium	
Critical PCL			24 [3]		20 [4]		250 [5]		33.96 [4]	
MQL			1		1		1		1	
Background Value			15.9 [1]		0.4 [2]		31.5 [1]		2.1 [2]	
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)							
1E-f	9/2/2014	14-09-0479 25	9.69		0.687	J	26.7		0.335	J
1E-g	9/3/2014	14-09-0479 48	8.74		0.766	J	28.8		1.05	J
1E-h	9/3/2014	14-09-0479 49	8.54		0.726	J	28.2		1.42	
1E-i	9/3/2014	14-09-0479 50	9.19		0.652	J	27.0		1.98	
1E-i (1-1.5')	10/23/2014	14-10-2039 112	NA		NA		NA		0.37	J
1F-a	9/2/2014	14-09-0479 13	8.18		0.669	J	18.8		0.602	J
1F-b	9/2/2014	14-09-0479 14	7.19		0.526	J	15.2		0.420	J
1F-c	9/2/2014	14-09-0479 15	8.10		0.640	J	16.5		0.296	J
1F-d	9/2/2014	14-09-0479 24	9.62		0.758	J	19.1		<0.284	
1F-e	9/2/2014	14-09-0479 23	9.59		0.718	J	27.4		0.451	J
1F-f	9/2/2014	14-09-0479 22	9.23		0.660	J	27.8		0.426	J
1F-g	9/3/2014	14-09-0479 51	9.10		0.769	J	29.5		1.93	
1F-h	9/3/2014	14-09-0479 52	10.2		0.801	J	28.9		1.81	
1F-i	9/3/2014	14-09-0479 53	9.40		0.700	J	27.7		**2.33**	
1F-i (1-1.5')	10/23/2014	14-10-2039 110	NA		NA		NA		0.313	J
1G-a	9/2/2014	14-09-0479 16	8.89		0.600	J	18.6		0.683	J
1G-b	9/2/2014	14-09-0479 17	8.51		0.701	J	16.4		0.455	J
1G-c	9/2/2014	14-09-0479 18	10.2		0.608	J	20.4		0.501	J
1G-d	9/2/2014	14-09-0479 21	9.67		0.699	J	28.4		0.308	J
1G-e	9/2/2014	14-09-0479 20	11.3		0.687	J	26.3		0.352	J
1G-f	9/2/2014	14-09-0479 19	10.7		0.608	J	18.4		0.360	J
1G-g	9/3/2014	14-09-0479 54	10.9		0.711	J	28.0		1.48	
1G-h	9/3/2014	14-09-0479 55	9.82		0.712	J	28.5		1.37	
1G-i	9/3/2014	14-09-0479 56	11.0		0.701	J	26.5		1.24	
1G-i (1-1.5')	10/23/2014	14-10-2039 108	NA		NA		NA		0.345	J
2B-a	9/3/2014	14-09-0479 74	7.65		0.570	J	15.0		<0.278	
2B-b	9/3/2014	14-09-0479 73	8.59		0.670	J	26.4		0.346	J
2B-c	9/3/2014	14-09-0479 72	8.48		0.765	J	27.2		<0.293	
2B-d	9/3/2014	14-09-0479 75	9.95		0.595	J	15.3		<0.284	
2B-e	9/3/2014	14-09-0479 76	7.73		0.666	J	26.5		0.498	J
2B-f	9/3/2014	14-09-0479 77	15.0		0.627	J	24.0		0.679	J
2B-g	9/4/2014	14-09-0479 150	8.39		0.507	J	14.2		<0.283	
2B-h	9/4/2014	14-09-0479 151	13.3		0.664	J	27.7		<0.287	
2B-i	9/4/2014	14-09-0479 152	11.9		0.691	J	26.1		0.442	J
2C-a	9/3/2014	14-09-0479 71	9.02		0.663	J	26.2		0.631	J
2C-b	9/3/2014	14-09-0479 70	7.60		0.663	J	25.9		0.417	J
2C-c	9/3/2014	14-09-0479 69	8.08		0.723	J	27.1		0.378	J
2C-d	9/3/2014	14-09-0479 78	15.9		0.640	J	25.2		0.545	J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
2C-e	9/3/2014	14-09-0479 79	15.8	0.676 J	24.9	0.356 J
2C-f	9/3/2014	14-09-0479 80	**18.0**	0.757 J	26.6	0.333 J
2C-f (1-1.5')	10/23/2014	14-10-2039 124	5.32	NA	NA	NA
2C-g	9/4/2014	14-09-0479 153	12.3	0.654 J	27.9	0.319 J
2C-h	9/4/2014	14-09-0479 154	15.4	0.449 J	15.3	0.439 J
2C-i	9/4/2014	14-09-0479 155	13.5	0.659 J	28.2	0.807 J
2D-a	9/3/2014	14-09-0479 68	7.97	0.675 J	25.4	<0.288
2D-b	9/3/2014	14-09-0479 67	6.55	0.647 J	24.5	0.560 J
2D-c	9/3/2014	14-09-0479 66	6.82	0.648 J	26.9	0.388 J
2D-d	9/3/2014	14-09-0479 81	15.6	0.717 J	27.1	0.345 J
2D-e	9/3/2014	14-09-0479 82	14.3	0.705 J	25.8	<0.288
2D-f	9/3/2014	14-09-0479 83	13.7	0.705 J	26.9	0.407 J
2D-g	9/4/2014	14-09-0479 156	11.5	0.731 J	28.8	<0.298
2D-h	9/4/2014	14-09-0479 157	12.5	0.651 J	27.1	0.548 J
2D-i	9/4/2014	14-09-0479 158	13.0	0.681 J	28.4	0.501 J
2E-a	9/3/2014	14-09-0479 65	6.90	0.666 J	24.9	<0.288
2E-b	9/3/2014	14-09-0479 64	6.92	0.684 J	27.4	<0.292
2E-c	9/3/2014	14-09-0479 63	6.57	0.721 J	23.1	<0.291
2E-d	9/3/2014	14-09-0479 84	13.6	0.696 J	26.6	0.337 J
2E-e	9/3/2014	14-09-0479 85	14.4	0.678 J	26.1	0.374 J
2E-f	9/3/2014	14-09-0479 86	12.7	0.682 J	26.1	<0.287
2E-g	9/3/2014	14-09-0479 101	10.2	0.689 J	28.6	**2.32**
2E-g (1-1.5')	10/23/2014	14-10-2039 132	NA	NA	NA	0.609 J
2E-h	9/3/2014	14-09-0479 100	9.50	0.690 J	28.0	1.93
2E-i	9/3/2014	14-09-0479 99	9.52	0.660 J	28.1	1.94
2F-a	9/3/2014	14-09-0479 62	6.80	0.713 J	25.2	<0.285
2F-b	9/3/2014	14-09-0479 61	5.59	0.766 J	17.1	<0.286
2F-c	9/3/2014	14-09-0479 60	7.45	0.741 J	26.0	<0.289
2F-d	9/3/2014	14-09-0479 87	12.6	0.663 J	26.4	0.814 J
2F-e	9/3/2014	14-09-0479 88	14.9	0.711 J	26.9	0.383 J
2F-f	9/3/2014	14-09-0479 89	13.3	0.736 J	28.4	0.463 J
2F-g	9/3/2014	14-09-0479 98	9.84	0.639 J	25.3	1.35
2F-h	9/3/2014	14-09-0479 97	8.94	0.723 J	29.3	1.83
2F-h (1-1.5')	10/23/2014	14-10-2039 134	NA	NA	NA	0.511 J
2F-i	9/3/2014	14-09-0479 96	8.20	0.622 J	26.2	1.61
2G-a	9/3/2014	14-09-0479 59	7.77	0.659 J	25.7	1.22
2G-b	9/3/2014	14-09-0479 58	7.94	0.745 J	28.9	1.36
2G-c	9/3/2014	14-09-0479 57	12.9	0.762 J	26.7	1.01 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
2G-d	9/3/2014	14-09-0479 90	8.54	0.641 J	26.7	1.80
2G-e	9/3/2014	14-09-0479 91	10.4	0.752 J	27.8	0.694 J
2G-f	9/3/2014	14-09-0479 92	12.7	0.587 J	26.4	2.04
2G-g	9/3/2014	14-09-0479 95	10.3	0.746 J	28.8	**2.45**
2G-g (1-1.5')	10/23/2014	14-10-2039 136	NA	NA	NA	0.42 J
2G-h	9/3/2014	14-09-0479 94	11.3	0.723 J	27.2	1.60
2G-i	9/3/2014	14-09-0479 93	**18.2**	0.627 J	24.9	1.40
2G-i (1-1.5')	10/23/2014	14-10-2039 138	5.45	NA	NA	0.738 J
3B-a	9/4/2014	14-09-0479 159	**17.2**	0.514 J	15.3	0.402 J
3B-a (1-1.5')	10/23/2014	14-10-2039 126	7.93	NA	NA	NA
3B-b	9/4/2014	14-09-0479 160	6.18	0.604 J	22.9	<0.287
3B-c	9/4/2014	14-09-0479 161	6.15	0.658 J	26.5	<0.289
3B-d	9/4/2014	14-09-0479 139	9.69	0.504 J	14.7	<0.283
3B-e	9/4/2014	14-09-0479 138	7.16	0.615 J	29.4	0.377 J
3B-f	9/4/2014	14-09-0479 137	6.88	0.595 J	26.5	<0.285
3B-g	9/4/2014	14-09-0479 140	8.77	0.463 J	15.6	0.345 J
3B-h	9/4/2014	14-09-0479 141	10.2	0.728 J	28.5	0.390 J
3B-i	9/4/2014	14-09-0479 142	10.3	0.565 J	24.2	0.662 J
3C-a	9/4/2014	14-09-0479 106	7.90	0.672 J	25.9	**2.60**
3C-b	9/4/2014	14-09-0479 107	8.66	0.659 J	27.4	**2.59**
3C-c	9/4/2014	14-09-0479 108	8.08	0.614 J	26.1	**3.37**
3C-c (1-1.5')	10/23/2014	14-10-2039 128	NA	NA	NA	0.442 J
3C-d	9/4/2014	14-09-0479 136	7.45	0.584 J	27.7	<0.290
3C-e	9/4/2014	14-09-0479 135	7.12	0.623 J	28.3	0.333 J
3C-f	9/4/2014	14-09-0479 134	7.45 J	0.578 J	26.6	0.330 J
3C-g	9/4/2014	14-09-0479 144	10.3	0.584 J	24.7	0.729 J
3C-h	9/4/2014	14-09-0479 145	9.43	0.538 J	23.4	0.596 J
3C-i	9/4/2014	14-09-0479 146	10.1	0.555 J	24.9	0.513 J
3D-a	9/4/2014	14-09-0479 109	10.1	0.654 J	28.1	**3.82**
3D-a (1-1.5')	10/23/2014	14-10-2039 130	NA	NA	NA	0.49 J
3D-b	9/4/2014	14-09-0479 110	12.9	0.657 J	27.2	0.948 J
3D-c	9/4/2014	14-09-0479 111	11.4	0.683 J	25.2	0.759 J
3D-d	9/4/2014	14-09-0479 133	6.83	0.545 J	25.1	<0.285
3D-e	9/4/2014	14-09-0479 132	12.7	0.739 J	30.2	0.485 J
3D-f	9/4/2014	14-09-0479 131	6.58	0.604 J	24.7	0.552 J
3D-g	9/4/2014	14-09-0479 147	12.1	0.963 J	**36.3**	0.664 J
3D-g (1-1.5')	10/23/2014	14-10-2039 144	NA	NA	13.3	NA
3D-h	9/4/2014	14-09-0479 148	10.0	0.656 J	26.9	0.652 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
3D-i	9/4/2014	14-09-0479 149	10.2	0.592 J	25.6	0.426 J
3E-a	9/4/2014	14-09-0479 112	12.3	0.629 J	26.0	0.652 J
3E-b	9/4/2014	14-09-0479 113	13.3	0.724 J	27.3	1.67
3E-c	9/4/2014	14-09-0479 114	5.16	0.634 J	25.5	0.464 J
3E-d	9/4/2014	14-09-0479 130	7.48	0.682 J	27.9	0.337 J
3E-e	9/4/2014	14-09-0479 129	10.9	0.662 J	26.3	0.653 J
3E-f	9/4/2014	14-09-0479 128	10.1	0.712 J	27.6	0.901 J
3E-g	9/8/2014	14-09-1089 1	5.51	0.621 J	21.9	0.859 J
3E-h	9/8/2014	14-09-1089 2	5.84	0.629 J	24.3	0.831 J
3E-i	9/8/2014	14-09-1089 3	5.43	0.677 J	26.2	0.924 J
3F-a	9/4/2014	14-09-0479 115	5.47	0.663 J	25.4	0.464 J
3F-b	9/4/2014	14-09-0479 116	5.81	0.698 J	26.5	<0.286
3F-c	9/4/2014	14-09-0479 117	5.85	0.629 J	25.4	0.396 J
3F-d	9/4/2014	14-09-0479 127	8.93	0.695 J	25.2	0.561 J
3F-e	9/4/2014	14-09-0479 126	8.56	0.684 J	26.8	0.339 J
3F-f	9/4/2014	14-09-0479 125	9.15	0.665 J	28.3	0.333 J
3F-g	9/8/2014	14-09-1089 4	5.36	0.643 J	26.5	1.10 J
3F-h	9/8/2014	14-09-1089 5	4.94	0.575 J	24.7	1.00 J
3F-i	9/8/2014	14-09-1089 6	5.44	0.589 J	24.9	0.706 J
3G-a	9/4/2014	14-09-0479 119	5.27	0.660 J	25.4	<0.288
3G-b	9/4/2014	14-09-0479 120	5.63	0.705 J	26.0	<0.287
3G-c	9/4/2014	14-09-0479 121	6.94	0.643 J	24.9	0.388 J
3G-d	9/4/2014	14-09-0479 124	8.20	0.663 J	26.5	0.685 J
3G-e	9/4/2014	14-09-0479 123	5.57	0.664 J	27.1	0.514 J
3G-f	9/4/2014	14-09-0479 122	6.31	0.615 J	25.5	0.366 J
3G-g	9/8/2014	14-09-1089 7	6.47	0.734 J	27.5	1.20
3G-g (1-1.5')	10/23/2014	14-10-2039 140	NA	NA	NA	0.368 J
3G-h	9/8/2014	14-09-1089 8	6.15	0.714 J	26.8	0.639 J
3G-i	9/8/2014	14-09-1089 9	6.11	0.608 J	21.3	0.751 J
4B-a	9/8/2014	14-09-1089 27	6.63	0.448 J	12.8	0.606 J
4B-b	9/8/2014	14-09-1089 26	6.06	0.527 J	23.5	0.773 J
4B-c	9/8/2014	14-09-1089 25	7.34	0.666 J	28.2	0.942 J
4B-d	9/8/2014	14-09-1089 28	6.23	0.436 J	14.7	0.392 J
4B-e	9/8/2014	14-09-1089 29	7.24	0.566 J	27.2	0.751 J
4B-f	9/8/2014	14-09-1089 30	8.04	0.665 J	26.7	0.680 J
4B-g	9/9/2014	14-09-1089 63	9.64	0.453 J	16.4	<0.264
4B-h	9/9/2014	14-09-1089 62	8.94	0.671 J	28.1	0.610 J
4B-i	9/9/2014	14-09-1089 61	7.77	0.509 J	24.0	0.710 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
4C-a	9/8/2014	14-09-1089 24	6.05	0.729 J	25.5	0.706 J
4C-b	9/8/2014	14-09-1089 23	6.24	0.556 J	24.1	0.683 J
4C-c	9/8/2014	14-09-1089 22	5.76	0.574 J	24.5	0.697 J
4C-d	9/8/2014	14-09-1089 31	7.80	0.741 J	27.5	0.811 J
4C-e	9/8/2014	14-09-1089 32	6.77	0.541 J	25.8	0.816 J
4C-f	9/8/2014	14-09-1089 33	6.65	0.636 J	24.3	0.655 J
4C-g	9/9/2014	14-09-1089 60	9.59	0.655 J	26.6	0.695 J
4C-h	9/9/2014	14-09-1089 59	8.40	0.659 J	27.2	0.842 J
4C-i	9/9/2014	14-09-1089 58	8.46	0.608 J	26.0	0.696 J
4D-a	9/8/2014	14-09-1089 21	5.91	0.592 J	24.4	1.07 J
4D-b	9/8/2014	14-09-1089 20	5.84	0.603 J	24.6	0.733 J
4D-c	9/8/2014	14-09-1089 19	6.04	0.631 J	26.9	0.709 J
4D-d	9/8/2014	14-09-1089 34	6.37	0.582 J	24.6	0.856 J
4D-e	9/8/2014	14-09-1089 35	6.70	0.612 J	25.8	0.839 J
4D-f	9/8/2014	14-09-1089 36	7.43	0.705 J	26.8	1.07 J
4D-g	9/9/2014	14-09-1089 57	8.08	0.666 J	25.8	0.462 J
4D-h	9/9/2014	14-09-1089 56	9.94	0.623 J	26.3	0.658 J
4D-i	9/9/2014	14-09-1089 55	9.36	0.544 J	24.8	0.618 J
4E-a	9/8/2014	14-09-1089 18	6.42	0.629 J	25.6	0.655 J
4E-b	9/8/2014	14-09-1089 17	5.81	0.601 J	24.7	0.876 J
4E-c	9/8/2014	14-09-1089 16	6.13	0.618 J	25.4	0.792 J
4E-d	9/8/2014	14-09-1089 37	5.86	0.587 J	25.8	0.704 J
4E-e	9/8/2014	14-09-1089 38	6.07	0.619 J	27.0	0.894 J
4E-f	9/9/2014	14-09-1089 39	6.65	0.648 J	27.1	0.786 J
4E-g	9/9/2014	14-09-1089 54	7.96	0.453 J	21.8	0.666 J
4E-h	9/9/2014	14-09-1089 53	8.24	0.668 J	28.5	0.926 J
4E-i	9/9/2014	14-09-1089 52	7.08	0.607 J	24.4	0.798 J
4F-a	9/8/2014	14-09-1089 15	5.19	0.587 J	25.3	0.805 J
4F-b	9/8/2014	14-09-1089 14	5.55	0.603 J	25.4	1.08 J
4F-c	9/8/2014	14-09-1089 13	6.23	0.690 J	26.0	0.704 J
4F-d	9/9/2014	14-09-1089 40	6.15	0.665 J	25.6	1.18
4F-d (1-1.5')	10/23/2014	14-10-2039 142	NA	NA	NA	0.443 J
4F-e	9/9/2014	14-09-1089 41	6.98	0.608 J	27.0	0.711 J
4F-f	9/9/2014	14-09-1089 42	6.98	0.642 J	27.8	1.00 J
4F-g	9/9/2014	14-09-1089 51	5.55	0.428 J	18.2	0.614 J
4F-h	9/9/2014	14-09-1089 50	5.18	0.430 J	15.0	0.771
4F-i	9/9/2014	14-09-1089 49	5.75	0.402 J	16.0	0.756
4G-a	9/8/2014	14-09-1089 12	6.92	0.660 J	28.3	0.740 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
4G-b	9/8/2014	14-09-1089 11	6.78	0.609 J	24.1	0.871 J
4G-c	9/8/2014	14-09-1089 10	6.24	0.608 J	22.5	0.575 J
4G-d	9/9/2014	14-09-1089 43	6.53	0.629 J	26.8	0.901 J
4G-e	9/9/2014	14-09-1089 44	7.31	0.629 J	27.7	0.750 J
4G-f	9/9/2014	14-09-1089 45	11.3	0.643 J	24.7	0.642 J
4G-g	9/9/2014	14-09-1089 48	5.79	0.436 J	18.5	0.386 J
4G-h	9/9/2014	14-09-1089 47	12.4	0.650 J	28.6	0.940 J
4G-i	9/9/2014	14-09-1089 46	9.84	0.599 J	24.7	0.678 J
5B-a	9/9/2014	14-09-1089 64	9.05	0.517 J	15.8	<0.264
5B-b	9/9/2014	14-09-1089 65	10.7	0.532 J	27.6	0.312 J
5B-c	9/9/2014	14-09-1089 66	12.3	0.494 J	28.7	0.297 J
5B-d	9/9/2014	14-09-1089 99	6.71	0.535 J	13.4	0.833 J
5B-e	9/9/2014	14-09-1089 98	7.83	0.503 J	25.5	0.564 J
5B-f	9/9/2014	14-09-1089 97	6.76	0.532 J	26.1	0.793 J
5B-g	9/9/2014	14-09-1089 100	6.29	0.549 J	14.6	0.652 J
5B-h	9/9/2014	14-09-1089 101	6.72	0.588 J	21.4	0.734 J
5B-i	9/9/2014	14-09-1089 102	7.44	0.655 J	25.6	1.24
5B-i (1-1.5')	10/23/2014	14-10-2039 146	NA	NA	NA	0.414 J
5C-a	9/9/2014	14-09-1089 67	12.2	0.603 J	30.5	<0.264
5C-b	9/9/2014	14-09-1089 68	9.52	0.493 J	26.1	0.293 J
5C-c	9/9/2014	14-09-1089 69	10.2	0.574 J	28.0	0.310 J
5C-d	9/9/2014	14-09-1089 96	6.65	0.610 J	25.8	0.467 J
5C-e	9/9/2014	14-09-1089 95	10.8	0.584 J	28.0	<0.264
5C-f	9/9/2014	14-09-1089 94	12.1	0.561 J	30.3	0.373 J
5C-g	9/9/2014	14-09-1089 103	7.38	0.496 J	26.2	0.566 J
5C-h	9/9/2014	14-09-1089 104	7.75	0.524 J	26.2	0.671 J
5C-i	9/9/2014	14-09-1089 105	7.05	0.543 J	24.4	0.666 J
5D-a	9/9/2014	14-09-1089 70	11.7	0.648 J	29.4	<0.264
5D-b	9/9/2014	14-09-1089 71	10.4	0.604 J	29.3	0.411 J
5D-c	9/9/2014	14-09-1089 72	9.69	0.521 J	26.5	0.419 J
5D-d	9/9/2014	14-09-1089 93	11.0	0.573 J	28.4	0.342 J
5D-e	9/9/2014	14-09-1089 92	10.0	0.586 J	25.6	<0.264
5D-f	9/9/2014	14-09-1089 91	9.45	0.572 J	26.5	0.714 J
5D-g	9/9/2014	14-09-1089 106	8.02	0.495 J	24.5	0.805 J
5D-h	9/9/2014	14-09-1089 107	8.13	0.554 J	27.0	1.42
5D-i	9/9/2014	14-09-1089 108	6.54	0.501 J	24.4	0.971 J
5E-a	9/9/2014	14-09-1089 73	10.2	0.589 J	28.3	0.546 J
5E-b	9/9/2014	14-09-1089 74	8.19	0.490 J	22.4	0.558 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
5E-c	9/9/2014	14-09-1089 75	10.5	0.669 J	28.8	0.655 J
5E-d	9/9/2014	14-09-1089 90	9.13	0.572 J	25.5	0.653 J
5E-e	9/9/2014	14-09-1089 89	10.3	0.585 J	**38.1**	0.628 J
5E-e (1-1.5')	10/23/2014	14-10-2039 154	NA	NA	15.2	NA
5E-f	9/9/2014	14-09-1089 88	10.2	0.586 J	28.1	0.635 J
5E-g	9/9/2014	14-09-1089 109	6.58	0.535 J	24.6	1.34
5E-h	9/9/2014	14-09-1089 110	6.88	0.577 J	25.5	0.824 J
5E-i	9/9/2014	14-09-1089 111	6.90	0.605 J	26.4	0.914 J
5F-a	9/9/2014	14-09-1089 76	9.76	0.614 J	28.9	0.683 J
5F-b	9/9/2014	14-09-1089 77	10.3	0.618 J	26.2	1.08 J
5F-c	9/9/2014	14-09-1089 78	11.9	0.638 J	28.0	0.566 J
5F-d	9/9/2014	14-09-1089 87	11.1	0.671 J	30.2	0.471 J
5F-e	9/9/2014	14-09-1089 86	10.6	0.667 J	28.6	0.803 J
5F-f	9/9/2014	14-09-1089 85	11.5	0.629 J	27.2	0.342 J
5F-g	9/9/2014	14-09-1089 112	6.97	0.668 J	30.4	1.17
5F-h	9/9/2014	14-09-1089 113	6.92	0.592 J	25.6	0.618 J
5F-i	9/9/2014	14-09-1089 114	5.77	0.595 J	25.8	0.860 J
5G-a	9/9/2014	14-09-1089 79	12.4	0.648 J	28.4	0.609 J
5G-b	9/9/2014	14-09-1089 80	11.8	0.673 J	30.0	0.544 J
5G-c	9/9/2014	14-09-1089 81	9.46	0.618 J	24.6	0.941 J
5G-d	9/9/2014	14-09-1089 84	9.91	0.595 J	26.9	0.622 J
5G-e	9/9/2014	14-09-1089 83	12.4	0.745 J	30.1	0.331 J
5G-f	9/9/2014	14-09-1089 82	13.3	0.711 J	29.1	0.364 J
5G-g	9/10/2014	14-09-1089 115	7.36	0.614 J	27.1	0.722 J
5G-h	9/10/2014	14-09-1089 116	9.70	0.621 J	27.3	1.35
5G-h (1-1.5')	10/23/2014	14-10-2039 158	NA	NA	NA	0.375 J
5G-i	9/10/2014	14-09-1089 117	10.3	0.615 J	20.0	0.942 J
6B-a	9/10/2014	14-09-1089 135	9.44	0.509 J	16.4	0.666 J
6B-b	9/10/2014	14-09-1089 134	10.1	0.603 J	26.6	0.870 J
6B-c	9/10/2014	14-09-1089 133	10.7	0.541 J	25.4	0.956 J
6B-d	9/10/2014	14-09-1089 136	9.02	0.464 J	21.1	0.935 J
6B-e	9/10/2014	14-09-1089 137	7.48	0.525 J	26.3	1.21
6B-f	9/10/2014	14-09-1089 138	9.11	0.558 J	27.1	1.06 J
6B-g	9/10/2014	14-09-1089 171	11.7	0.576 J	15.8	0.653 J
6B-h	9/10/2014	14-09-1089 170	9.65	0.514 J	26.2	1.99
6B-h (1-1.5')	10/23/2014	14-10-2039 176	NA	NA	NA	0.504 J
6B-i	9/10/2014	14-09-1089 169	9.17	0.490 J	26.4	1.15
6C-a	9/10/2014	14-09-1089 132	10.8	0.564 J	25.9	1.21

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
6C-b	9/10/2014	14-09-1089 131	11.6	0.564 J	26.5	1.37
6C-c	9/10/2014	14-09-1089 130	11.7	0.642 J	28.1	1.68
6C-c (1-1.5')	10/23/2014	14-10-2039 148	NA	NA	NA	0.530 J
6C-d	9/10/2014	14-09-1089 139	8.43	0.603 J	28.0	0.74 J
6C-e	9/10/2014	14-09-1089 140	8.86	0.655 J	28.7	1.10
6C-f	9/10/2014	14-09-1089 141	7.40	0.661 J	28.1	0.748 J
6C-g	9/10/2014	14-09-1089 168	10.2	0.526 J	27.2	1.22
6C-h	9/10/2014	14-09-1089 167	10.8	0.540 J	26.9	1.36
6C-h (1-1.5')	10/23/2014	14-10-2039 174	NA	NA	NA	0.487 J
6C-i	9/10/2014	14-09-1089 166	10.8	0.635 J	29.4	1.12
6D-a	9/10/2014	14-09-1089 129	10.5	0.534 J	23.5	1.69
6D-b	9/10/2014	14-09-1089 128	11.3	0.537 J	26.3	1.25
6D-c	9/10/2014	14-09-1089 127	9.24	0.563 J	27.6	1.45
6D-c (1-1.5')	10/23/2014	14-10-2039 150	NA	NA	NA	0.712 J
6D-d	9/10/2014	14-09-1089 142	8.68	0.558 J	27.6	1.27
6D-e	9/10/2014	14-09-1089 143	11.3	0.680 J	31.4	1.03 J
6D-f	9/10/2014	14-09-1089 144	10.2	0.661 J	28.8	1.09 J
6D-g	9/10/2014	14-09-1089 165	11.7	0.637 J	27.2	1.07 J
6D-h	9/10/2014	14-09-1089 164	10.5	0.733 J	25.7	1.34
6D-h (1-1.5')	10/23/2014	14-10-2039 172	NA	NA	NA	0.561 J
6D-i	9/10/2014	14-09-1089 163	11.4	0.700 J	29.6	1.27
6E-a	9/10/2014	14-09-1089 126	10.1	0.509 J	23.6	1.20
6E-b	9/10/2014	14-09-1089 125	10.2	0.582 J	26.5	1.59
6E-b (1-1.5')	10/23/2014	14-10-2039 152	NA	NA	NA	0.47 J
6E-c	9/10/2014	14-09-1089 124	8.54	0.545 J	26.9	1.72
6E-d	9/10/2014	14-09-1089 145	9.97	0.606 J	28.4	1.25
6E-e	9/10/2014	14-09-1089 146	11.3	0.652 J	30.1	1.35
6E-f	9/10/2014	14-09-1089 147	8.40	0.584 J	28.8	0.923 J
6E-g	9/10/2014	14-09-1089 162	11.1	0.730 J	30.4	1.29
6E-h	9/10/2014	14-09-1089 161	8.81	0.704 J	**32.1**	0.807 J
6E-h (1-1.5')	10/23/2014	14-10-2039 170	NA	NA	15.8	NA
6E-i	9/10/2014	14-09-1089 160	12.8	0.653 J	31.0	1.53
6E-i (1-1.5')	10/23/2014	14-10-2039 168	NA	NA	NA	<0.264
6F-a	9/10/2014	14-09-1089 123	9.61	0.597 J	27.4	1.60
6F-a (1-1.5')	10/23/2014	14-10-2039 156	NA	NA	NA	0.433 J
6F-b	9/10/2014	14-09-1089 122	9.70	0.557 J	26.0	0.871 J
6F-c	9/10/2014	14-09-1089 121	7.98	0.622 J	24.1	0.774 J
6F-d	9/10/2014	14-09-1089 148	7.70	0.621 J	28.8	1.01 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
6F-e	9/10/2014	14-09-1089 149	8.89	0.613 J	**34.1**	1.23
6F-f	9/10/2014	14-09-1089 150	9.96	0.679 J	**37.4**	1.53
6F-f (1-1.5')	10/23/2014	14-10-2039 166	NA	NA	14.7	0.539 J
6F-g	9/10/2014	14-09-1089 159	12.3	0.705 J	30.6	1.30
6F-h	9/10/2014	14-09-1089 158	11.5	0.692 J	30.2	1.49
6F-i	9/10/2014	14-09-1089 157	11.9	0.595 J	**33.8**	0.954 J
6G-a	9/10/2014	14-09-1089 120	9.31	0.624 J	25.3	0.887 J
6G-b	9/10/2014	14-09-1089 119	10.2	0.653 J	26.6	0.835 J
6G-c	9/10/2014	14-09-1089 118	**17.2**	0.661 J	26.4	1.03 J
6G-c (1-1.5')	10/23/2014	14-10-2039 160	5.26	NA	NA	NA
6G-d	9/10/2014	14-09-1089 151	9.16	0.717 J	**39.6**	1.29
6G-d (1-1.5')	10/23/2014	14-10-2039 164	NA	NA	13.7	0.349 J
6G-e	9/10/2014	14-09-1089 152	10.4	0.728 J	**34.3**	1.48
6G-e (1-1.5')	10/23/2014	14-10-2039 162	NA	NA	14.5	0.542 J
6G-f	9/10/2014	14-09-1089 153	9.50	0.631 J	30.7	1.16
6G-g	9/10/2014	14-09-1089 156	11.4	0.645 J	**34.0**	1.02 J
6G-h	9/10/2014	14-09-1089 155	10.1	0.552 J	**33.3**	1.11
6G-i	9/10/2014	14-09-1089 154	8.59	0.623 J	30.8	1.20
7B-a	9/11/2014	14-09-1089 172	11.6	0.535 J	14.4	1.09
7B-b	9/11/2014	14-09-1089 173	6.41	0.467 J	23.2	1.09
7B-c	9/11/2014	14-09-1089 174	8.06	0.511 J	22.5	1.26
7B-c (1-1.5')	10/23/2014	14-10-2039 178	NA	NA	NA	0.527 J
7B-d (w)	1/12/2015	15-01-1030 4	11.6	NA	NA	NA
7B-d	9/11/2014	14-09-1089 207	**27.1**	0.555 J	14.6	0.813 J
7B-d (1-1.5')	10/23/2014	14-10-2039 198	6.36	NA	NA	NA
7B-e	9/11/2014	14-09-1089 206	9.22	0.545 J	26.1	1.25
7B-f	9/11/2014	14-09-1089 205	9.67	0.609 J	26.2	1.39
7B-g	9/11/2014	14-09-1089 208	10.1	0.535 J	14.6	1.09
7B-h	9/11/2014	14-09-1089 209	11.0	0.566 J	25.8	1.66
7B-h (1-1.5')	10/23/2014	14-10-2039 196	NA	NA	NA	0.616 J
7B-i	9/11/2014	14-09-1089 210	10.1	0.599 J	26.6	1.61
7C-a	9/11/2014	14-09-1089 175	11.9	0.569 J	26.9	1.58
7C-b	9/11/2014	14-09-1089 176	12.0	0.589 J	27.5	1.25
7C-b (1-1.5')	10/23/2014	14-10-2039 180	NA	NA	NA	0.513 J
7C-c	9/11/2014	14-09-1089 177	10.4	0.617 J	28.2	1.16
7C-d	9/11/2014	14-09-1089 204	11.1	0.590 J	28.1	1.07 J
7C-e	9/11/2014	14-09-1089 203	11.2	0.648 J	28.1	1.26
7C-f	9/11/2014	14-09-1089 202	11.0	0.676 J	28.0	1.15

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
7C-g	9/11/2014	14-09-1089 211	10.8	0.623 J	27.9	1.04 J
7C-h	9/11/2014	14-09-1089 212	11.8	0.687 J	29.2	1.32
7C-i	9/11/2014	14-09-1089 213	10.2	0.610 J	25.5	1.19
7C-i (1-1.5')	10/23/2014	14-10-2039 194	NA	NA	NA	0.635 J
7D-a	9/11/2014	14-09-1089 178	11.3	0.587 J	26.4	1.20
7D-b	9/11/2014	14-09-1089 179	10.2	0.648 J	28.9	1.66
7D-b (1-1.5')	10/23/2014	14-10-2039 182	NA	NA	NA	0.457 J
7D-c	9/11/2014	14-09-1089 180	9.74	0.571 J	23.7	1.12
7D-d	9/11/2014	14-09-1089 201	8.11	0.681 J	29.4	0.647 J
7D-e	9/11/2014	14-09-1089 200	10.3	0.655 J	27.0	1.34
7D-f	9/11/2014	14-09-1089 199	9.79	0.642 J	24.6	0.862 J
7D-g	9/11/2014	14-09-1089 214	10.8	0.669 J	27.0	1.42
7D-h	9/11/2014	14-09-1089 215	11.0	0.640 J	24.4	1.49
7D-h (1-1.5')	10/23/2014	14-10-2039 192	NA	NA	NA	0.753 J
7D-i	9/11/2014	14-09-1089 216	11.5	0.679 J	28.3	1.44
7E-a	9/11/2014	14-09-1089 181	8.10	0.659 J	29.4	0.812 J
7E-b	9/11/2014	14-09-1089 182	10.2	0.621 J	27.7	1.27
7E-c	9/11/2014	14-09-1089 183	**94.5**	**6.98** J	**257**	**10.9** J
7E-c (1-1.5')	10/23/2014	14-10-2039 184	7.83	0.434 J	14.9	0.595 J
7E-d	9/11/2014	14-09-1089 198	11.7	0.721 J	28.1	1.18
7E-e	9/11/2014	14-09-1089 197	15.9	0.746 J	27.1	1.12
7E-f	9/11/2014	14-09-1089 196	11.9	0.684 J	28.7	1.14
7E-g	9/11/2014	14-09-1089 217	11.6	0.686 J	28.4	1.29
7E-g (1-1.5')	10/23/2014	14-10-2039 190	NA	NA	NA	0.62 J
7E-h	9/11/2014	14-09-1089 218	11.3	0.582 J	25.7	1.01 J
7E-i	9/11/2014	14-09-1089 219	11.5	0.597 J	25.4	1.00 J
7F-a	9/11/2014	14-09-1089 184	11.2	0.656 J	29.5	1.29
7F-b	9/11/2014	14-09-1089 185	11.5	0.694 J	26.7	1.48
7F-b (1-1.5')	10/23/2014	14-10-2039 186	NA	NA	NA	0.676 J
7F-c	9/11/2014	14-09-1089 186	11.2	0.671 J	31.3	1.17
7F-d	9/11/2014	14-09-1089 195	12.1	0.623 J	26.9	1.25
7F-e	9/11/2014	14-09-1089 194	12.4	0.674 J	31.4	1.40
7F-f	9/11/2014	14-09-1089 193	11.8	0.675 J	29.5	1.52
7F-f (1-1.5')	11/13/2014	14-11-1242 1	NA	NA	NA	<0.264
7F-g	9/11/2014	14-09-1089 220	12.6	0.651 J	28.6	1.24
7F-h	9/11/2014	14-09-1089 221	8.32	0.738 J	30.7	0.602 J
7F-i	9/11/2014	14-09-1089 222	9.98	0.668 J	29.4	<0.264
7G-a	9/11/2014	14-09-1089 187	10.4	0.665 J	27.3	1.08 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic		Cadmium		Lead		Selenium	
Critical PCL			24 [3]		20 [4]		250 [5]		33.96 [4]	
MQL			1		1		1		1	
Background Value			15.9 [1]		0.4 [2]		31.5 [1]		2.1 [2]	
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)							
7G-b	9/11/2014	14-09-1089 188	10.9		0.635	J	29.8		1.12	
7G-d	9/11/2014	14-09-1089 192	11.9		0.670	J	30.2		1.19	
7G-e	9/11/2014	14-09-1089 191	12.1		0.735	J	**34.2**		1.29	
7G-e (1-1.5')	10/23/2014	14-10-2039 188	NA		NA		10.4		0.396	J
7G-g	9/11/2014	14-09-1089 223	9.82		0.710	J	30.3		0.364	J
7G-h	9/11/2014	14-09-1089 224	11.2		0.829	J	**33.6**		<0.264	
8A-a	9/15/2014	14-09-1641 19	7.15		0.445	J	16.5		1.29	
8A-a (1-1.5')	11/13/2014	14-11-1242 3	NA		NA		NA		0.569	J
8A-b	9/16/2014	14-09-1641 48	8.89		0.417	J	16.4		0.545	J
8B-a	9/15/2014	14-09-1641 18	6.08		0.412	J	12.3		0.358	J
8B-b	9/15/2014	14-09-1641 17	6.49		0.480	J	23.9		0.752	J
8B-c	9/15/2014	14-09-1641 16	6.45		0.528	J	23.8		0.783	J
8B-d	9/15/2014	14-09-1641 20	7.09		0.577	J	24.7		0.575	J
8B-e	9/15/2014	14-09-1641 21	6.69		0.557	J	23.1		0.667	J
8B-f	9/15/2014	14-09-1641 22	7.17		0.580	J	24.3		0.607	J
8B-g	9/16/2014	14-09-1641 47	7.16		0.531	J	26.3		0.848	J
8B-h	9/16/2014	14-09-1641 46	5.95		0.510	J	25.0		1.09	J
8B-i	9/16/2014	14-09-1641 45	5.43		0.487	J	24.2		0.840	J
8C-a	9/15/2014	14-09-1641 15	10.2		0.941	J	**41.6**		0.879	J
8C-a (1-1.5')	11/13/2014	14-11-1242 5	NA		NA		11.0		NA	
8C-b	9/15/2014	14-09-1641 14	7.70		0.689	J	27.4		0.610	J
8C-c	9/15/2014	14-09-1641 13	7.31		0.597	J	25.1		0.797	J
8C-d	9/15/2014	14-09-1641 23	6.39		0.594	J	27.6		0.603	J
8C-e	9/15/2014	14-09-1641 24	6.75		0.595	J	26.3		0.704	J
8C-f	9/15/2014	14-09-1641 25	7.4		0.559	J	26.1		0.631	J
8C-g	9/16/2014	14-09-1641 44	5.85		0.504	J	23.7		0.457	J
8C-h	9/16/2014	14-09-1641 43	6.53		0.520	J	24.4		0.587	J
8C-i	9/16/2014	14-09-1641 42	6.76		0.515	J	23.0		0.557	J
8D-a	9/15/2014	14-09-1641 12	7.33		0.593	J	25.2		0.577	J
8D-b	9/15/2014	14-09-1641 11	7.49		0.753	J	25.2		0.674	J
8D-c	9/15/2014	14-09-1641 10	7.07		0.674	J	26.6		0.592	J
8D-d	9/15/2014	14-09-1641 26	7.00		0.543	J	24.4		0.690	J
8D-e	9/15/2014	14-09-1641 27	7.17		0.543	J	19.4		0.583	J
8D-f	9/15/2014	14-09-1641 28	7.43		0.532	J	24.3		0.573	J
8D-g	9/16/2014	14-09-1641 41	7.32		0.551	J	24.0		0.657	J
8D-h	9/16/2014	14-09-1641 40	7.20		0.561	J	25.6		0.764	J
8D-i	9/16/2014	14-09-1641 39	7.34		0.559	J	24.1		0.638	J
8E-a	9/15/2014	14-09-1641 9	7.52		0.617	J	25.4		0.850	J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic		Cadmium		Lead		Selenium	
Critical PCL			24 [3]		20 [4]		250 [5]		33.96 [4]	
MQL			1		1		1		1	
Background Value			15.9 [1]		0.4 [2]		31.5 [1]		2.1 [2]	
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)							
8E-b	9/15/2014	14-09-1641 8	8.49		0.588	J	25.7		0.467	J
8E-c	9/15/2014	14-09-1641 7	8.40		0.525	J	25.5		0.768	J
8E-d	9/15/2014	14-09-1641 29	6.13		0.507	J	23.1		0.609	J
8E-e	9/15/2014	14-09-1641 30	8.38		0.644	J	27.3		0.618	J
8E-f	9/15/2014	14-09-1641 31	7.70		0.619	J	24.3		0.735	J
8E-g	9/16/2014	14-09-1641 38	5.77		0.512	J	23.6		0.470	J
8E-h	9/16/2014	14-09-1641 37	6.60		0.607	J	27.9		0.805	J
8E-i	9/16/2014	14-09-1641 36	8.88		0.785	J	24.7		0.915	J
8F-a	9/15/2014	14-09-1641 6	8.95		0.617	J	27.0		0.481	J
8F-d	9/15/2014	14-09-1641 32	8.57		0.638	J	25.5		0.867	J
8F-f	9/16/2014	14-09-1641 35	8.65		0.637	J	26.4		0.548	J
9A-a	9/16/2014	14-09-1641 49	9.12		0.491	J	16.3		0.510	J
9A-b	9/16/2014	14-09-1641 78	6.78		0.393	J	12.7		0.509	J
9A-c	9/16/2014	14-09-1641 79	10.9		0.360	J	14.0		0.534	J
9B-a	9/16/2014	14-09-1641 50	5.67		0.450	J	23.9		0.796	J
9B-b	9/16/2014	14-09-1641 51	5.45		0.484	J	24.5		0.667	J
9B-c	9/16/2014	14-09-1641 52	5.94		0.568	J	25.5		0.744	J
9B-d	9/16/2014	14-09-1641 77	6.22		0.428	J	21.0		0.589	J
9B-e	9/16/2014	14-09-1641 76	4.78		0.378	J	20.1		0.611	J
9B-f	9/16/2014	14-09-1641 75	5.81		0.551	J	24.8		0.520	J
9B-g	9/16/2014	14-09-1641 80	6.67		0.483	J	28.3		0.525	J
9B-h	9/16/2014	14-09-1641 81	8.18		0.629	J	**32.3**		0.543	J
9B-h (1-1.5')	11/13/2014	14-11-1242 13	NA		NA		14.0		NA	
9B-i	9/16/2014	14-09-1641 82	6.56		0.543	J	26.8		0.520	J
9C-a	9/16/2014	14-09-1641 53	5.25		0.549	J	23.8		0.854	J
9C-b	9/16/2014	14-09-1641 54	5.46		0.522	J	23.5		0.691	J
9C-c	9/16/2014	14-09-1641 55	5.66		0.440	J	21.4		0.542	J
9C-d	9/16/2014	14-09-1641 74	5.25		0.516	J	23.8		0.651	J
9C-e	9/16/2014	14-09-1641 73	5.59		0.530	J	22.4		0.434	J
9C-f	9/16/2014	14-09-1641 72	7.30		0.544	J	23.8		0.538	J
9C-g	9/16/2014	14-09-1641 83	6.98		0.565	J	29.6		0.836	J
9C-h	9/16/2014	14-09-1641 84	6.17		0.479	J	25.7		0.581	J
9C-i	9/16/2014	14-09-1641 85	6.55		0.525	J	26.6		0.588	J
9D-a	9/16/2014	14-09-1641 56	7.45		0.572	J	25.8		0.720	J
9D-b	9/16/2014	14-09-1641 57	6.94		0.534	J	24.9		0.665	J
9D-c	9/16/2014	14-09-1641 58	7.50		0.513	J	25.0		0.652	J
9D-d	9/16/2014	14-09-1641 71	6.61		0.516	J	23.2		0.585	J
9D-e	9/16/2014	14-09-1641 70	7.35		0.528	J	23.9		0.788	J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
9D-f	9/16/2014	14-09-1641 69	7.58	0.641 J	26.4	0.753 J
9D-g	9/16/2014	14-09-1641 86	8.21	0.544 J	24.6	0.568 J
9D-h	9/16/2014	14-09-1641 87	6.52	0.599 J	23.8	0.657 J
9D-i	9/16/2014	14-09-1641 88	7.51	0.576 J	28.1	0.685 J
9E-a	9/16/2014	14-09-1641 59	7.27	0.628 J	24.6	0.659 J
9E-b	9/16/2014	14-09-1641 60	6.27	0.631 J	26.3	0.785 J
9E-c	9/16/2014	14-09-1641 61	7.82	0.641 J	25.0	0.868 J
9E-d	9/16/2014	14-09-1641 68	6.98	0.566 J	25.7	0.612 J
9E-e	9/16/2014	14-09-1641 67	6.51	0.584 J	25.2	0.591 J
9E-g	9/16/2014	14-09-1641 89	6.32	0.522 J	28.0	0.807 J
9E-h	9/16/2014	14-09-1641 90	6.84	0.616 J	27.7	0.430 J
10A-a	9/16/2014	14-09-1641 109	13.9	0.382 J	16.0	0.379 J
10A-b	9/16/2014	14-09-1641 110	11.2	0.327 J	13.3	0.653 J
10A-c	9/17/2014	14-09-1641 140	8.00	0.410 J	13.6	0.370 J
10B-a	9/16/2014	14-09-1641 108	11.3	0.496 J	20.4	0.433 J
10B-b	9/16/2014	14-09-1641 107	7.08	0.563 J	28.0	0.763 J
10B-c	9/16/2014	14-09-1641 106	8.57	0.595 J	30.9	0.679 J
10B-d	9/16/2014	14-09-1641 111	3.68	0.456 J	18.5	0.398 J
10B-e	9/16/2014	14-09-1641 112	8.51	0.558 J	17.6	0.611 J
10B-f	9/16/2014	14-09-1641 113	5.23	0.533 J	24.5	0.698 J
10B-g	9/17/2014	14-09-1641 139	8.72	0.442 J	16.9	0.523 J
10B-h	9/17/2014	14-09-1641 138	7.98	0.376 J	13.2	1.10
10B-i	9/17/2014	14-09-1641 137	6.88	0.640 J	21.5	0.499 J
10C-a	9/16/2014	14-09-1641 105	7.31	0.500 J	27.9	0.570 J
10C-b	9/16/2014	14-09-1641 104	7.98	0.549 J	25.9	0.657 J
10C-c	9/16/2014	14-09-1641 103	7.60	0.524 J	21.9	0.644 J
10C-d	9/16/2014	14-09-1641 114	6.74	0.621 J	26.7	0.976 J
10C-e	9/16/2014	14-09-1641 115	7.96	0.619 J	**32.0**	0.822 J
10C-e (1-1.5')	11/13/2014	14-11-1242 19	NA	NA	13.9	NA
10C-f	9/16/2014	14-09-1641 116	7.22	0.655 J	29.1	0.752 J
10C-g	9/17/2014	14-09-1641 136	6.71	0.622 J	27.1	0.541 J
10C-h	9/17/2014	14-09-1641 135	7.13	0.670 J	26.1	0.630 J
10C-i	9/17/2014	14-09-1641 134	6.20	0.583 J	23.7	0.691 J
10D-a	9/16/2014	14-09-1641 102	7.77	0.559 J	21.9	0.654 J
10D-b	9/16/2014	14-09-1641 101	7.24	0.626 J	22.6	0.638 J
10D-c	9/16/2014	14-09-1641 100	7.89	0.636 J	23.8	0.954 J
10D-d	9/16/2014	14-09-1641 117	6.64	0.632 J	24.6	0.500 J
10D-e	9/16/2014	14-09-1641 118	7.55	0.734 J	28.0	0.746 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
10D-f	9/16/2014	14-09-1641 119	8.10	0.469 J	24.2	0.357 J
10D-g	9/17/2014	14-09-1641 133	6.21	0.615 J	26.3	0.693 J
10D-h	9/17/2014	14-09-1641 132	8.23	0.655 J	25.8	0.695 J
10D-i	9/17/2014	14-09-1641 131	8.56	0.698 J	30.4	0.711 J
10E-a	9/16/2014	14-09-1641 99	6.27	0.464 J	23.5	0.710 J
10E-b	9/16/2014	14-09-1641 98	7.56	0.599 J	25.8	0.347 J
10E-c	9/18/2014	14-09-1641 97	7.96	0.93 J	**71.7**	0.816 J
10E-c (1-1.5')	11/13/2014	14-11-1242 21	NA	0.513 J	15.1	NA
10E-d	9/16/2014	14-09-1641 120	9.10	0.453 J	21.3	0.493 J
10E-e	9/16/2014	14-09-1641 121	10.3	0.380 J	15.4	0.851 J
10E-g	9/17/2014	14-09-1641 130	8.21	0.693 J	31.4	0.622 J
10E-h	9/17/2014	14-09-1641 129	7.08	0.623 J	29.8	0.583 J
11A-a	9/17/2014	14-09-1641 141	7.56	0.234 J	7.8	0.344 J
11A-b	9/17/2014	14-09-1641 168	7.50	0.481 J	12.2	0.500 J
11A-c	9/17/2014	14-09-1641 169	10.4	0.474 J	14.6	0.517 J
11B-a	9/17/2014	14-09-1641 142	6.18	0.523 J	20.4	0.415 J
11B-b	9/17/2014	14-09-1641 143	8.76	0.516 J	15.2	0.504 J
11B-c	9/17/2014	14-09-1641 144	10.6	0.545 J	21.4	0.518 J
11B-d	9/17/2014	14-09-1641 167	9.72	0.653 J	22.7	0.670 J
11B-e	9/17/2014	14-09-1641 166	8.43	0.504 J	19.7	0.597 J
11B-f	9/17/2014	14-09-1641 165	9.55	0.578 J	20.3	0.575 J
11B-g	9/17/2014	14-09-1641 170	7.79	0.586 J	22.7	0.689 J
11B-h	9/17/2014	14-09-1641 171	8.41	0.578 J	21.9	0.775 J
11B-i	9/17/2014	14-09-1641 172	9.22	0.607 J	21.7	0.773 J
11C-a	9/17/2014	14-09-1641 145	**122**	**5.19** J	**236**	**6.10** J
11C-a (1-1.5')	11/13/2014	14-11-1242 30	5.05	0.426 J	13.4	1.84
11C-a (1.5-2')	11/13/2014	14-11-1242 31	NA	NA	NA	0.668 J
11C-b	9/17/2014	14-09-1641 146	10.6	0.580 J	24.7	0.582 J
11C-c	9/17/2014	14-09-1641 147	12.1	0.654 J	26.4	0.485 J
11C-d	9/17/2014	14-09-1641 164	11.2	0.639 J	23.1	0.779 J
11C-e	9/17/2014	14-09-1641 163	12.2	0.626 J	25.3	0.564 J
11C-f	9/17/2014	14-09-1641 162	11.5	0.574 J	23.5	0.900 J
11C-g	9/17/2014	14-09-1641 173	10.1	0.614 J	23.1	0.753 J
11C-h	9/17/2014	14-09-1641 174	10.5	0.642 J	24.2	0.723 J
11C-i	9/17/2014	14-09-1641 175	11.4	0.699 J	27.3	0.768 J
11D-a	9/17/2014	14-09-1641 148	9.00	0.615 J	23.3	0.775 J
11D-b	9/17/2014	14-09-1641 149	10.8	0.708 J	26.6	0.860 J
11D-c	9/17/2014	14-09-1641 150	10.5	0.606 J	23.5	0.859 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
11D-d	9/17/2014	14-09-1641 161	11.0	0.597 J	24.2	0.587 J
11D-e	9/17/2014	14-09-1641 160	11.6	0.636 J	25.7	0.510 J
11D-f	9/17/2014	14-09-1641 159	11.1	0.638 J	23.7	0.509 J
11D-g	9/17/2014	14-09-1641 176	11.1	0.631 J	24.5	0.555 J
11D-h	9/17/2014	14-09-1641 177	10.9	0.648 J	24.5	0.714 J
11D-i	9/17/2014	14-09-1641 178	9.65	0.575 J	22.3	0.575 J
11E-a	9/17/2014	14-09-1641 151	11.3	0.549 J	23.5	0.772 J
11E-b	9/17/2014	14-09-1641 152	14.9	0.591 J	23.3	0.881 J
11E-d	9/17/2014	14-09-1641 158	10.9	0.532 J	22.4	0.613 J
11E-e	9/17/2014	14-09-1641 157	10.9	0.555 J	20.9	0.542 J
11E-g	9/17/2014	14-09-1641 179	10.2	0.542 J	22.5	0.653 J
11E-h	9/17/2014	14-09-1641 180	12.6	0.615 J	22.5	0.551 J
12A-a	9/17/2014	14-09-1641 196	8.05	0.459 J	14.8	0.396 J
12A-b	9/18/2014	14-09-1641 211	9.66	0.434 J	14.7	0.679 J
12A-c	9/18/2014	14-09-1641 212	8.42	0.485 J	13.9	0.551 J
12B-a	9/17/2014	14-09-1641 195	11.2	0.604 J	24.6	0.533 J
12B-b	9/17/2014	14-09-1641 194	6.59	0.614 J	22.0	0.618 J
12B-c	9/17/2014	14-09-1641 193	8.56	0.592 J	19.5	0.577 J
12B-d	9/18/2014	14-09-1641 210	12.2	0.628 J	25.1	0.629 J
12B-e	9/18/2014	14-09-1641 209	9.45	0.559 J	22.7	0.746 J
12B-f	9/18/2014	14-09-1641 208	13.2	0.580 J	15.2	0.590 J
12B-g	9/18/2014	14-09-1641 213	8.24	0.688 J	20.1	1.030 J
12B-h	9/18/2014	14-09-1641 214	9.79	0.593 J	19.5	0.767 J
12B-i	9/18/2014	14-09-1641 215	13.9	0.641 J	22.7	0.635 J
12C-a	9/17/2014	14-09-1641 192	9.25	0.578 J	18.0	0.579 J
12C-b	9/17/2014	14-09-1641 191	11.6	0.619 J	25.3	0.778 J
12C-c	9/17/2014	14-09-1641 190	10.6	0.632 J	24.4	0.671 J
12C-d	9/18/2014	14-09-1641 207	7.81	0.636 J	18.4	0.396 J
12C-e	9/18/2014	14-09-1641 206	14.0	0.686 J	24.9	0.502 J
12C-f	9/18/2014	14-09-1641 205	12.6	0.637 J	25.9	0.621 J
12C-g	9/18/2014	14-09-1641 216	9.45	0.632 J	19.3	0.688 J
12C-h	9/18/2014	14-09-1641 217	13.9	0.622 J	23.8	0.879 J
12C-i	9/18/2014	14-09-1641 218	15.7	0.670 J	27.1	0.935 J
12D-a	9/17/2014	14-09-1641 189	10.5	0.593 J	24.2	0.460 J
12D-b	9/17/2014	14-09-1641 188	11.3	0.567 J	24.9	0.692 J
12D-c	9/17/2014	14-09-1641 187	10.2	0.573 J	23.2	0.609 J
12D-d	9/18/2014	14-09-1641 204	11.4	0.671 J	25.2	0.530 J
12D-e	9/18/2014	14-09-1641 203	11.9	0.680 J	25.2	0.581 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
12D-f	9/18/2014	14-09-1641 202	11.4	0.651 J	22.6	0.605 J
12D-g	9/18/2014	14-09-1641 219	15.5	0.631 J	25.2	0.723 J
12D-h	9/18/2014	14-09-1641 220	15.3	0.612 J	25.0	0.719 J
12D-i	9/18/2014	14-09-1641 221	15.2	0.597 J	23.4	0.733 J
12E-a	9/17/2014	14-09-1641 186	12.3	0.666 J	24.6	0.668 J
12E-b	9/17/2014	14-09-1641 185	**16.1**	0.660 J	24.8	0.465 J
12E-d	9/18/2014	14-09-1641 201	**16.5**	0.669 J	25.2	0.586 J
12E-d (1-1.5')	11/13/2014	14-11-1242 34	7.31	NA	NA	NA
12E-e	9/17/2014	14-09-1641 200	9.02	0.654 J	30.4	0.946 J
12E-g	9/18/2014	14-09-1641 222	**16.3**	0.608 J	20.5	0.905 J
12E-h	9/18/2014	14-09-1641 223	9.17	0.562 J	26.8	0.894 J
13A-a	9/18/2014	14-09-1641 241	10.3	0.530 J	14.4	0.382 J
13A-b	9/18/2014	14-09-1641 242	10.4	0.512 J	13.8	0.625 J
13B-a	9/18/2014	14-09-1641 240	10.2	0.603 J	18.9	0.824 J
13B-b	9/18/2014	14-09-1641 239	10.9	0.595 J	20.9	0.965 J
13B-c	9/18/2014	14-09-1641 238	14.1	0.612 J	23.5	0.667 J
13B-d	9/18/2014	14-09-1641 243	10.7	0.499 J	14.7	0.341 J
13B-e	9/18/2014	14-09-1641 244	10.5	0.436 J	16.1	0.631 J
13B-f	9/18/2014	14-09-1641 245	14.4	0.638 J	24.0	0.672 J
13C-a	9/18/2014	14-09-1641 237	10.9	0.585 J	21.0	0.834 J
13C-b	9/18/2014	14-09-1641 236	12.5	0.577 J	23.1	0.655 J
13C-c	9/18/2014	14-09-1641 235	14.0	0.666 J	26.0	0.810 J
13C-d	9/18/2014	14-09-1641 246	13.2	0.597 J	23.1	0.684 J
13C-e	9/18/2014	14-09-1641 247	13.4	0.589 J	24.3	0.799 J
13C-f	9/18/2014	14-09-1641 248	15.7	0.649 J	25.0	0.876 J
13D-a	9/18/2014	14-09-1641 234	14.7	0.616 J	23.7	0.670 J
13D-b	9/18/2014	14-09-1641 233	14.9	0.693 J	22.7	0.921 J
13D-c	9/18/2014	14-09-1641 232	**17.2**	0.645 J	22.6	0.862 J
13D-c (1-1.5')	11/13/2014	14-11-1242 44	6.58	NA	NA	NA
13D-d	9/18/2014	14-09-1641 249	**16.5**	0.687 J	24.2	0.763 J
13D-e	9/18/2014	14-09-1641 250	13.7	0.561 J	19.6	0.640 J
13D-f	9/18/2014	14-09-1641 251	15.5	0.537 J	19.2	0.674 J

TABLE 4D

GRAND PARK PRAA 2
SURFACE SOIL DATA SUMMARY
GRAND PARK - FRISCO, TEXAS

Constituent			Arsenic	Cadmium	Lead	Selenium
Critical PCL			24 [3]	20 [4]	250 [5]	33.96 [4]
MQL			1	1	1	1
Background Value			15.9 [1]	0.4 [2]	31.5 [1]	2.1 [2]
Sample ID	Sample Collection Date	Laboratory ID Number	Metals (mg/Kg)			
13E-a	9/18/2014	14-09-1641 231	15.5	0.550 J	26.2	0.970 J
13E-b	9/18/2014	14-09-1641 230	8.23 J	0.561 J	24.7	0.686 J
13E-d	9/18/2014	14-09-1641 252	10.0	0.529 J	29.9	0.728 J
13E-e	9/18/2014	14-09-1641 253	8.6	0.574 J	28.7	0.816 J

Notes:

1. Background value calculated for Exide by Pastor Behling Wheeler (PBW) in 30 May 2013 letter to TCEQ, "Revised Site-Specific Background Soil Concentration Evaluation"

2. Background values for cadmium and selenium were taken from 95% UTL on the 75th percentile for samples collected during the City of Frisco Background Study conducted by SWG dated March 4, 2014.

3. Tier 1 Residential $^{Tot}Soil_{Comb}$ PCL for 0.5 to 30-acre source area from 12 November 2014 PCL Table.

4. Tier 2 Residential $^{GW}Soil_{Ing}$ PCL for 30 acre source area.

5. 250 mg/Kg represents half of the $^{Tot}Soil_{Comb}$ PCL. It is based on 1) an agreement between the City of Frisco and Exide; and 2) a Tier 2 PCL that exceeds this value.

Shaded values exceed the critical PCL.

Shaded values exceed higher of background or MQL but are less than the critical PCL.

<x = Non-detect results presented as less than the Sample Quantitation Limit.

J = Estimated concentration

Surface Soil COC Concentration Maps

Figure 4A-1 PRAA 2 Surface Soil Arsenic Results

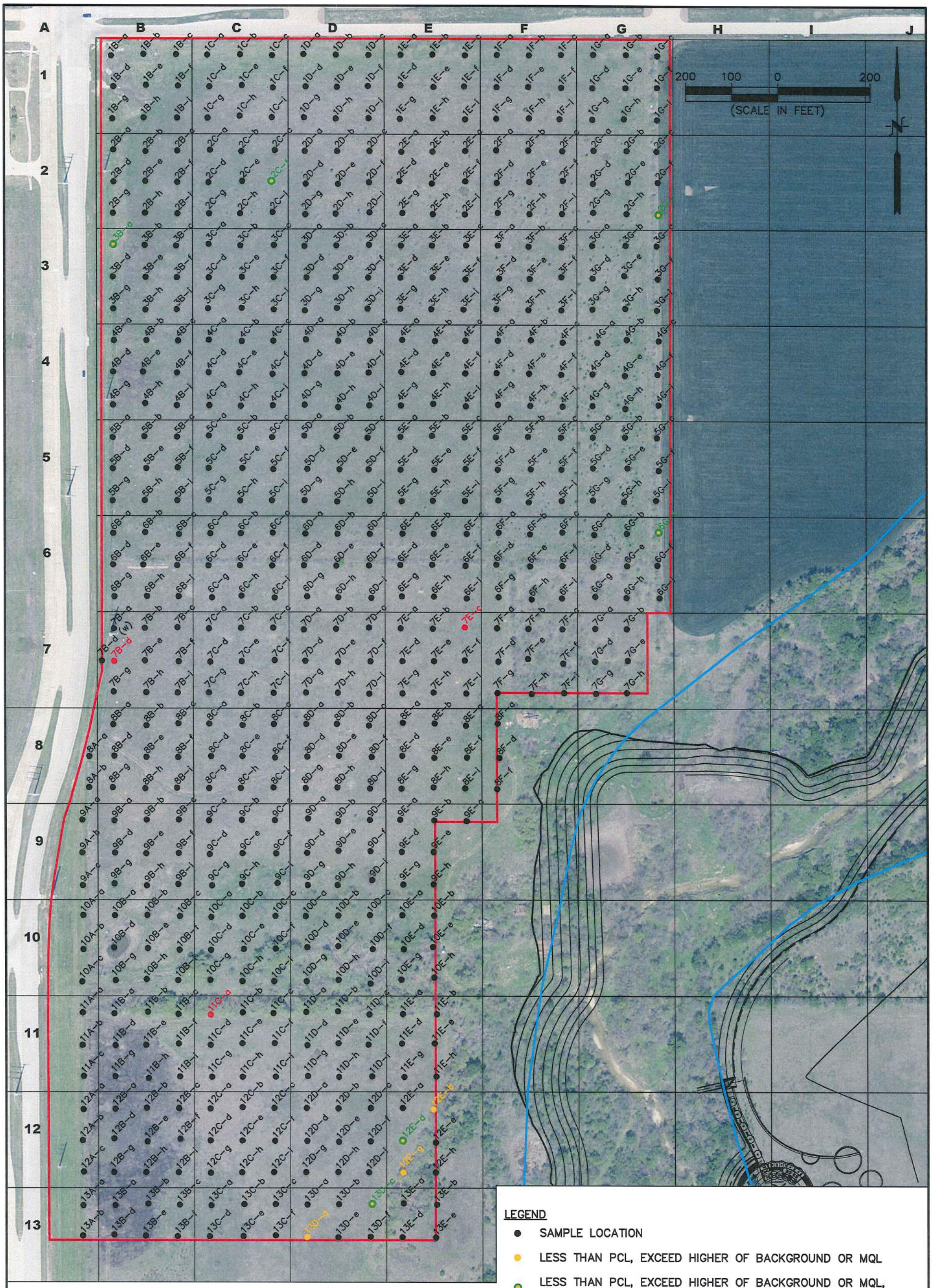
Figure 4A-2 PRAA 2 Surface Soil Cadmium Results

Figure 4A-3 PRAA 2 Surface Soil Lead Results

Figure 4A-4 PRAA 2 Surface Soil Selenium Results

Figure 4B - Subsurface Soil COC Concentration Maps
(NOT APPLICABLE)

Figure 4C - Cross Sections
(NOT APPLICABLE)



AERIAL SOURCE:
USGS TEXAS ORTHOIMAGRY PROGRAM; 10/19/2013

REV.	DATE	DESCRIPTION	DR BY	APP BY

COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT: GRAND PARK PRAA 2 FRISCO, TEXAS	DES BY		SCALE: 1" = 200'
	DR BY	SDB	PROJECT NO. 13046.01
	CHK BY	KLL	CJI NO. 13046134
SHEET TITLE: SURFACE SOIL ARSENIC RESULTS	APP BY	RDV	SHEET 1 OF 1 SHEETS
	DATE ISSUED: 04-10-2015		FIGURE NO. 4A-1
	PURPOSE: APAR		

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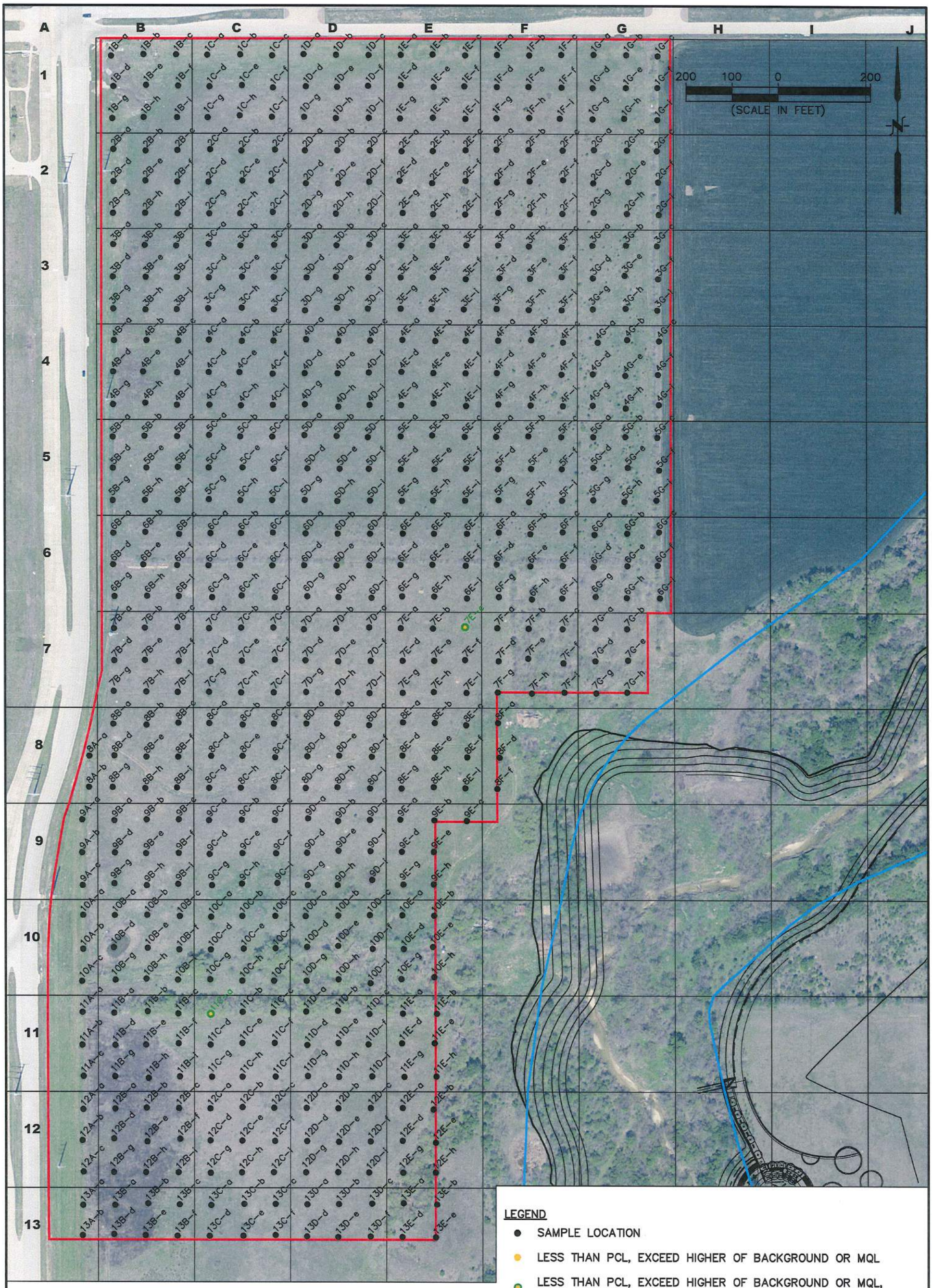

AERIAL SOURCE:
USGS TEXAS ORTHOIMAGRY PROGRAM; 10/19/2013

REV.	DATE	DESCRIPTION	DR BY	APP BY

COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT: GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE: SURFACE SOIL CADMIUM RESULTS

DES BY			SCALE: 1" = 200'
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	KLL		CJI NO. 13046135
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 4A-2
PURPOSE: APAR			

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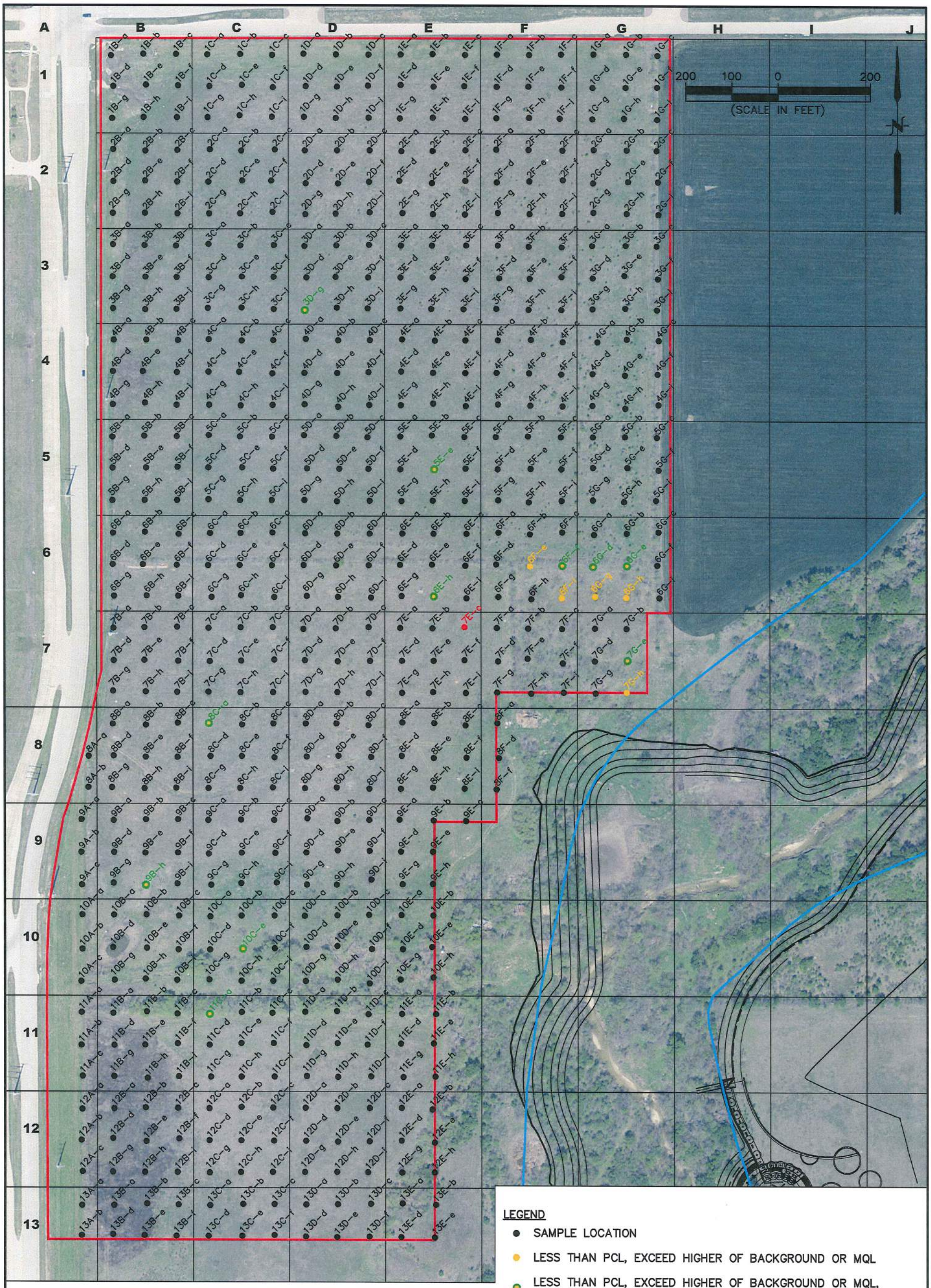

LEGEND

- SAMPLE LOCATION
- LESS THAN PCL, EXCEED HIGHER OF BACKGROUND OR MQL
- LESS THAN PCL, EXCEED HIGHER OF BACKGROUND OR MQL, VERTICAL DELINEATION SAMPLE LOCATION
- EXCEEDS CRITICAL PCL, VERTICAL DELINEATION SAMPLE LOCATION

AERIAL SOURCE:
USGS TEXAS ORTHOIMAGRY PROGRAM; 10/19/2013

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ENGINEERING AND CONSULTING
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AUSTIN, TEXAS 78701
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TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT: GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE: SURFACE SOIL LEAD RESULTS

DES BY			SCALE: 1" = 200'
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	KLL		CJI NO. 13046136
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 4A-3
PURPOSE: APAR			

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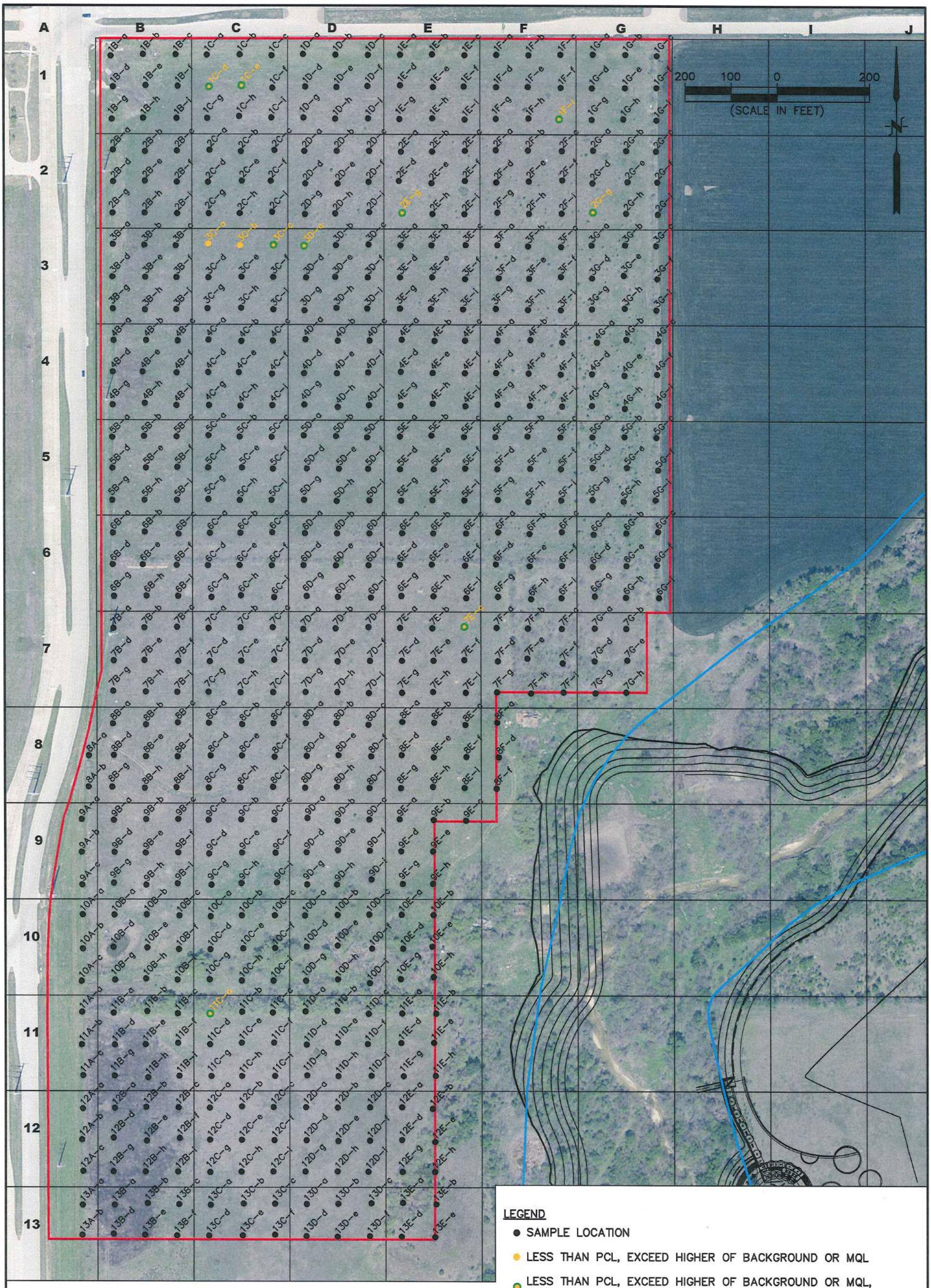

AERIAL SOURCE:
USGS TEXAS ORTHOIMAGRY PROGRAM; 10/19/2013

REV.	DATE	DESCRIPTION	DR BY	APP BY

COOK-JOYCE INC.
ENGINEERING AND CONSULTING
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AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT: GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE: SURFACE SOIL SELEMIUM RESULTS

DES BY			SCALE: 1" = 200'
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	KLL		CJI NO. 13046137
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 4A-4
PURPOSE: APAR			

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Section 5 Groundwater Assessment

PRAA 2 Monitoring Well

All target COCs in surface soils across the PRAA 2 site were delineated to levels below MQLs or background at 1 foot below the ground surface (bgs), therefore, groundwater has not been impacted from the PRAA 2 site. During PRAA 2 site investigational activities, one deeper boring was drilled to a depth of 21.5' bgs near sample location 7E-c to assess potential groundwater impacts from offsite sources. During boring advancement, soil samples retrieved using Shelby tubes or split-spoon samplers were screened for the presence of organic vapors using a Photo-Ionization Detector (PID). The PID showed no evidence of contamination. The boring was lithologically logged using the Unified Soil Classification System (USCS). Groundwater was not noted at the time of drilling. A monitoring well, GP-MW-7, was installed in this boring and screened from 10 to 20 feet bgs to intercept any groundwater sitting on top of the Eagle Ford Shale formation, a known aquiclude. The well was dry when drilled and remained dry when last gauged in February 2015. The boring log including well completion information for GP-MW-7 is provided in Appendix 2.

Additional Monitoring Wells

Including PRAA 2 well (GP-MW-7), there are fifteen monitoring wells located within the Grand Park site. They are designated GP-MW-1 through GP-MW-15. Eleven of the fifteen wells were installed by CJI during site investigation activities. Two former piezometers (PZ-6 and PZ-8) were installed by Alpha Testing, Inc. to observe groundwater levels at proposed dam locations for two lakes to be constructed within Grand Park. CJI converted these piezometers to permanent wells in November 2014. PZ-8 and PZ-6 are now identified as monitoring wells GP-MW-4 and GP-MW-5, respectively. Two additional wells, GP-MW-1 and GP-MW-2 are located on the eastern perimeter of Grand Park just north of where the BNSF railroad goes under the Dallas North Tollway. These wells were identified during site investigation activities. The installation purpose and history for these wells is currently unknown. Groundwater measurements collected for Grand Park monitoring wells are provided in Table 5D.

Four of these additional monitoring wells are located in close proximity to PRAA 2. They include: GP-MW-8, GP-MW-9, GP-MW-14, and GP-MW-15. Monitoring well GP-MW-14 was installed at sample location 6H-h in the southwestern corner of the PRAA 1 site and GP-MW-15 was installed in the northwest corner of PRAA 1. Monitoring well GP-MW-8 was installed at sample location 10F-a, just to the east of PRAA 2 near the old farmhouse. Monitoring well GP-MW-9 was installed at sample location 14C-f, just to the south of the PRAA 2 site. Each of these borings was screened for the presence of organic vapors using a PID. The PID showed no evidence of contamination in these borings. The borings were lithologically logged using the USCS. Boring logs including well completion information for these wells are provided in Appendix 2.

Groundwater was not noted at the time of drilling in any of these wells, and all of the wells except GP-MW-15 remained dry when last gauged on 26 February 2015. GP-MW-15 had approximately 4.5 feet of water in the well on that date. A groundwater sample was collected from GP-MW-15 on 26 February 2015, and all COCs were detected well below groundwater PCLs. Groundwater analyses, including results from other Grand Park wells, are provided in Table 5B.

Cross Sections

Two cross sections were constructed depicting subsurface lithology and hydrology in the area of PRAA 2. A cross section location map is provided as Figure 5-1.

Cross Section A-A' was constructed using CJI borings GP-MW-7, GP-MW-14, GP-MW-3, and GP-MW-6. Cross Section A-A' generally runs west to east and crosses into the east-central portion of the PRAA 2 site just north of Stewart Creek. The Eagle Ford Shale was encountered at elevations of approximately 588' to 597' amsl in this cross section. Clays were encountered from the ground surface down to the shale. The only logged sand was a thin stringer observed in GP-MW-3. No evidence of groundwater was observed when these boring were installed. No groundwater has been gauged in any of these wells since completion. Logs for borings utilized to construct cross section A-A' are provided in Appendix 2. Cross Section A-A' is provided as Figure 5-2.

Cross Section B-B' was constructed using borings CJI borings GP-MW-9, GP-MW-8, GP-MW-7, and GP-MW-15. This cross section runs south to north and generally follows the eastern edge of the PRAA 2 site. No evidence of groundwater was observed when these borings were installed. No groundwater has been gauged in any of these wells since completion, except in GP-MW-15. Approximately 4.5' of water was measured in GP-MW-15 when it was last gauged in February 2015. Logs for borings utilized to construct cross section B-B' are provided in Appendix 2. Cross Section B-B' is provided as Figure 5-3.

The cross sections indicate that site lithology typically consists of clays at the surface extending down to the Eagle Ford Shale Formation. The shale is typically observed at depths of approximately 18 feet bgs. Where present, groundwater is observed in sand and gravel layers within the clays that extend down to the Eagle Ford Shale.

A continuous shallow groundwater bearing unit does not appear to be present at the PRAA 2 portion of the Grand Park site. Therefore, a groundwater gradient direction is indeterminable. Potential groundwater impacts from offsite properties are unlikely due to the limited extent of near surface groundwater in and around PRAA 2.

Summary

All target COCs in surface soils across the PRAA 2 site were vertically delineated to levels below MQLs or background, therefore, groundwater has not been impacted from the PRAA 2 site. Groundwater was not encountered in the PRAA 2 well (GP-MW-7) and groundwater was only encountered in one of the four wells located in close proximity to PRAA 2. Groundwater was only encountered in 5 of the 15 monitoring wells located within Grand Park. Groundwater does not appear to be laterally continuous across the PRAA 2 portion of Grand Park.

A groundwater gradient direction cannot be determined due to the limited nature of near surface groundwater in PRAA 2. Potential groundwater impacts from offsite properties are unlikely due to the apparent limited extent of groundwater at PRAA 2.

Groundwater sampling and analysis has been conducted at four Grand Park monitoring wells (GP-MW-1, GP-MW-2, GP-MW-13, and GP-MW-15). GP-MW-15 is located in the northwest corner of PRAA 1, adjacent to PRAA 2. COCs detected in groundwater samples collected from these wells were well below groundwater PCLs.

Table 5A - Groundwater Residential Assessment Levels

Table 5B - Groundwater Data Summary

Table 5C - Groundwater Geochemical Data Summary (NOT APPLICABLE)

Table 5D – Groundwater Measurements

Table 5A. Groundwater Residential Assessment Levels

COC	$^{GW}GW_{Ing}$ or $^{GW}GW_{Class3}$ (mg/L)	$^{Air}GW_{Inh\text{-}V}$		$^{SW}GW^{1}$ (mg/L)	$^{Sed}GW^{1}$ (mg/L)	MQL (mg/L)	Back-ground (mg/L)	Maximum concentration			
		(mg/L)	Source area size (acres)					Sample ID	Sample depth (ft)	Sample date	Conc (mg/L)
Arsenic	0.01	NA	NA	NA	NA	0.00100	NA	GP-MW-15	~18' bgs	2-26-15	0.00248
Cadmium	0.005	NA	NA	NA	NA	0.00100	NA	GP-MW-1	~24' bgs	12-18-14	0.000264 J
Lead	0.015	NA	NA	NA	NA	0.00100	NA	GP-MW-15	~18' bgs	2-26-15	0.000345 J
Selenium	0.05	NA	NA	NA	NA	0.00100	NA	GP-MW-15	~18' bgs	2-26-15	0.00764

NA – not applicable
bgs – below ground surface
J – estimated concentration

TABLE 5B

GROUNDWATER DATA SUMMARY
PRAA 2 - GRAND PARK - FRISCO, TEXAS

Constituent	Critical PCL[1]	MQL	GP-MW-1	GP-MW-2	GP-MW-13	GP-MW-15
		Sample Collection Date	12/18/2014	12/18/2014	12/18/2014	2/26/2015
		Laboratory ID Number	14-12-1977 1	14-12-1977 2	14-12-1977 4	15-02-2153 1
METALS (mg/L)						
Arsenic	0.01	0.00100	0.000553 J	0.00121	0.00213	0.00248
Cadmium	0.005	0.00100	0.000264 J	<0.000128	<0.000386	<0.000128
Lead	0.015	0.00100	<0.0000898	0.000328 J	<0.0000898	0.000345 J
Selenium	0.05	0.00100	0.000474 J	0.00104	0.00121	0.00764

Notes:
1. Critical Residential Groundwater PCLs are based on TCEQs June 29, 2012 Tier 1 PCL Table.
Shaded values exceed the critical PCL.
Shaded values exceeds higher of MQL or background but is below the
<x = Non-detect results presented as less than the Sample Quantitation Limit.
J = Estimated concentration

TABLE 5D
GROUNDWATER MEASUREMENTS
PRAA 2 - GRAND PARK - FRISCO, TEXAS

Well ID	Approximate Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Date Gauged	Depth to Water from Top of Casing (TOC) (ft)	Measured Total Depth from TOC (ft)	Water Height in Well (ft)	Approximate Groundwater Elevation (ft amsl)
GP-MW-1	620.0	623.99	5/5/2014	19.98	27.4	7.4	604.01
			12/18/2014	20.06	NM	---	603.93
GP-MW-2	615.6	619.64	5/5/2014	17.81	27.9	10.1	601.83
			12/18/2014	18.49	NM	---	601.15
GP-MW-3 (5J-e)	616.3	616.20	5/5/2014	Dry	NM	NA	Dry @ 598.7
			5/6/2014	Dry	17.55	NA	Dry @ 598.7
			6/3/2014	Dry	17.53	NA	Dry @ 598.7
			9/8/2014	Dry	17.54	NA	Dry @ 598.7
			11/10/2014	Dry	17.53	NA	Dry @ 598.7
			1/12/2015	Dry	17.54	NA	Dry @ 598.7
			2/26/2015	Dry	NM	NA	Dry @ 598.7
GP-MW-4 (Alpha PZ-8)	596.3	600.33	5/6/2014	42.86	45.72	2.86	558.37
			9/5/2014	40.91	45.68	4.77	560.32
			12/15/2014	38.82	NM	---	561.51
			12/18/2014[1]	38.81	44.78	5.97	561.52
			12/19/2014[2]	42.31	44.82	2.51	558.02
			1/12/2015	42.27	44.82	2.55	558.06
			2/26/2015	41.26	44.86	3.60	559.07
GP-MW-5 (Alpha PZ-6)	586.3	590.28	9/5/2014	13.67	43.98	30.31	577.79
			12/15/2014	12.25	NM	---	578.03
			12/17/2014[1]	12.25	42.80	30.55	578.03
			12/17/2014[3]	38.98	42.80	3.82	551.30
			12/18/2014	38.46	NM	---	551.82
			1/12/2015	36.03	43.53	7.50	554.25
			2/26/2015	21.51	43.25	21.74	568.77
GP-MW-6 (5M-b)	603.2	607.15	12/18/2014	Dry	19.42	NA	Dry @ 587.7
			1/12/2015	Dry	19.42	NA	Dry @ 587.7
			2/26/2015	Dry	19.43	NA	Dry @ 587.7
GP-MW-7 (7E-c)	615.8	619.80	12/15/2014	Dry	22.80	NA	Dry @ 597.0
			12/18/2014	Dry	22.80	NA	Dry @ 597.0
			1/12/2015	Dry	22.80	NA	Dry @ 597.0
			2/23/2015	Dry	22.80	NA	Dry @ 597.0
GP-MW-8 (10F-a)	619.1	623.13	12/15/2014	Dry	22.72	NA	Dry @ 600.4
			12/18/2014	Dry	22.74	NA	Dry @ 600.4
			1/12/2015	Dry	22.74	NA	Dry @ 600.4
			2/23/2015	Dry	22.74	NA	Dry @ 600.4

TABLE 5D
GROUNDWATER MEASUREMENTS
PRAA 2 - GRAND PARK - FRISCO, TEXAS

Well ID	Approximate Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Date Gauged	Depth to Water from Top of Casing (TOC) (ft)	Measured Total Depth from TOC (ft)	Water Height in Well (ft)	Approximate Groundwater Elevation (ft amsl)
GP-MW-9 (14C-f)	615.0	619.03	12/15/2014	Dry	28.26	NA	Dry @ 590.8
			12/18/2014	Dry	28.27	NA	Dry @ 590.8
			1/12/2015	Dry	28.27	NA	Dry @ 590.8
			2/23/2015	Dry	28.27	NA	Dry @ 590.8
GP-MW-10 (Outfall 1-Soil)	595.5	599.54	12/15/2014	Dry	32.57	NA	Dry @ 567.0
			12/18/2014	Dry	32.57	NA	Dry @ 567.0
			1/12/2015	Dry	32.57	NA	Dry @ 567.0
			2/23/2015	Dry	32.57	NA	Dry @ 567.0
GP-MW-11 (21D-i)	581.2	585.16	12/15/2014	Dry	22.49	NA	Dry @ 562.7
			12/18/2014	Dry	22.49	NA	Dry @ 562.7
			1/12/2015	Dry	22.49	NA	Dry @ 562.7
			2/23/2015	Dry	22.48	NA	Dry @ 562.7
GP-MW-12 (7L-a2 [P4])	599.2	603.18	12/18/2014	Dry	17.54	NA	Dry @ 585.7
			1/12/2015	Dry	17.54	NA	Dry @ 585.7
			2/26/2015	Dry	17.54	NA	Dry @ 585.7
GP-MW-13 (17L-a)	604.1	608.13	12/15/2014	19.94	28.26	8.32	588.19
			12/18/2014[4]	23.23	28.26	5.03	584.90
			1/12/2015	19.92	28.26	8.34	588.21
			2/26/2015	19.71	NM	---	588.42
GP-MW-14 (6H-h)	613.8	617.84	12/18/2014	Dry	23.59	NA	Dry @ 594.3
			1/12/2015	Dry	23.59	NA	Dry @ 594.3
			2/26/2015	Dry	23.59	NA	Dry @ 594.3
GP-MW-15	614.3	618.31	12/18/2014	Dry	28.63	NA	Dry @ 589.7
			1/12/2015	Dry	28.63	NA	Dry @ 589.7
			2/26/2015	24.24	28.68	4.44	594.07

Notes:
1. GP-MW-4 (formerly PZ-8) and GP-MW-5 (formerly PZ-6) were surface completed in November 2014. The well depths changed at that time, because a portion of the stick-up riser pipe was removed for the pipe to fit in the steel protective casing.
2. GP-MW-4 was bailed on 18 December 2014 to evaluate recharge, and then again on 19 December 2014 (after gauging). The water present in GP-MW-4 is believed to be non-formational as the well is screened entirely in the Eagle Ford Shale.
3. GP-MW-5 was pumped on 17 December 2014 to evaluate recharge. This measurement was taken after the pump dewatered the well and was removed.
4. Well GP-MW-13 was dewatered twice on 12/18/14 during well development activities. A total of 13 gallons of water were removed from the well by 9:45 AM that morning. The depth to water measurement was taken later on the same day at 3:52 PM.
NM - Not Measured

Figure 5-1 – Cross Section Location Map

Figure 5-2 – Cross Section A – A'

Figure 5-3 – Cross Section B – B'

Figure 5A – Groundwater Gradient Map
(NOT APPLICABLE)

Figure 5B - Groundwater COC Concentration Map

Figure 5C – Groundwater Geochemistry Maps
(NOT APPLICABLE)

Figure 5d – Cross Section Groundwater-to-Surface Water Pathway
(NOT APPLICABLE)

REV.	DATE	DESCRIPTION	DR BY	APP BY

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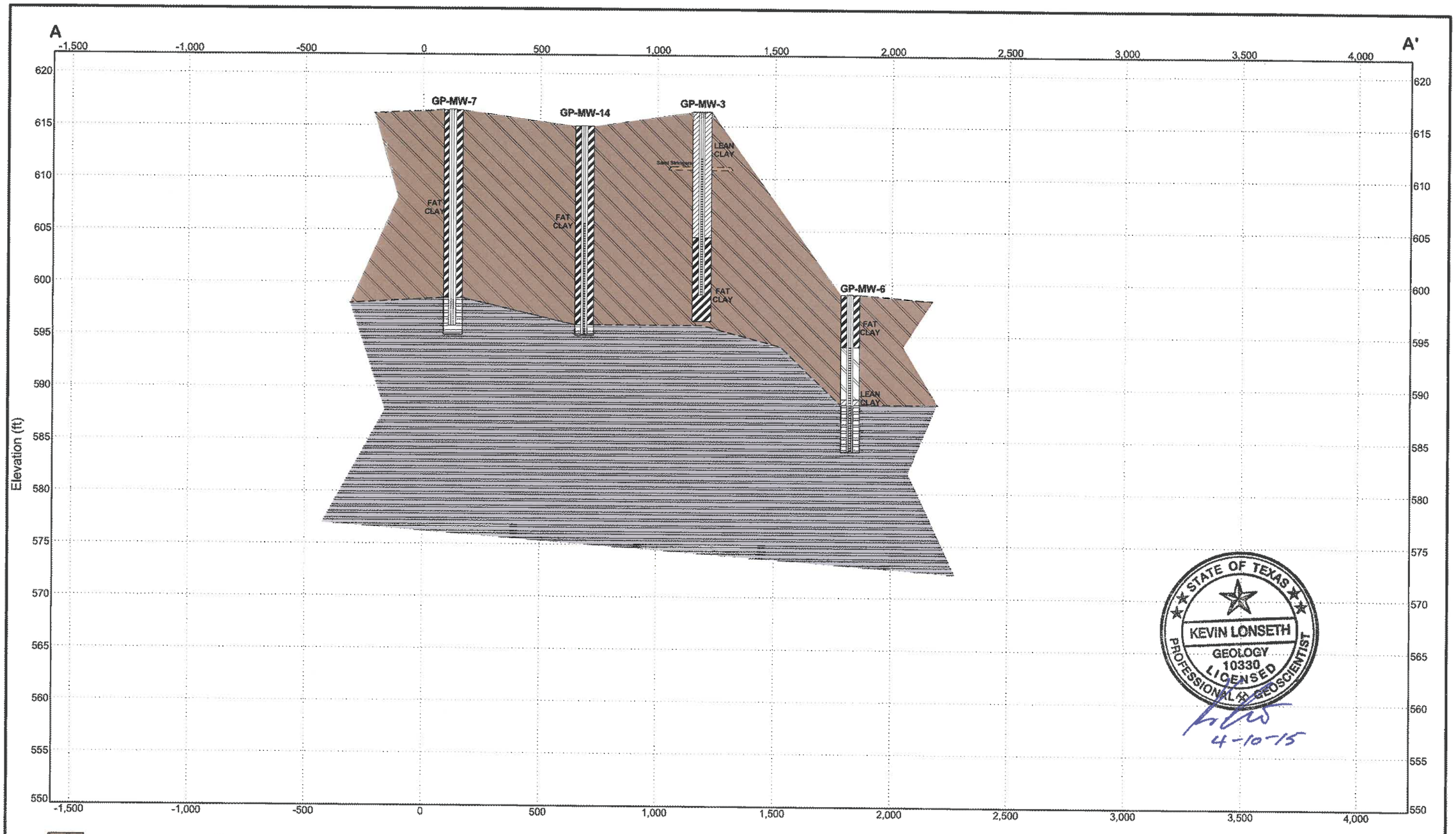
AUSTIN, TEXAS 78701
HUB & WBE CERTIFIED
TEXAS REGISTERED ENGINEERING FIRM F-883

PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
CROSS SECTION LOCATION MAP

DES BY			SCALE: 1" = 400'
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	KLL		CJI NO. 13046138
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 5-1
PURPOSE: APAR			

S:\CAD\City of Frisco\13046\13046138 PRAA 2 Fig 5-1.dwg, 4/9/2015 6:14:47 PM



CLAY

SHALE

INTERPRETED CONTACT

Groundwater Elevation (After Drilling)

Notes:
1. Ground surface elevations are approximate.

STATE OF TEXAS
KEVIN LONSETH
GEOLOGY
10330
LICENSED
PROFESSIONAL GEOSCIENTIST

4-10-15

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AUSTIN, TEXAS 78701
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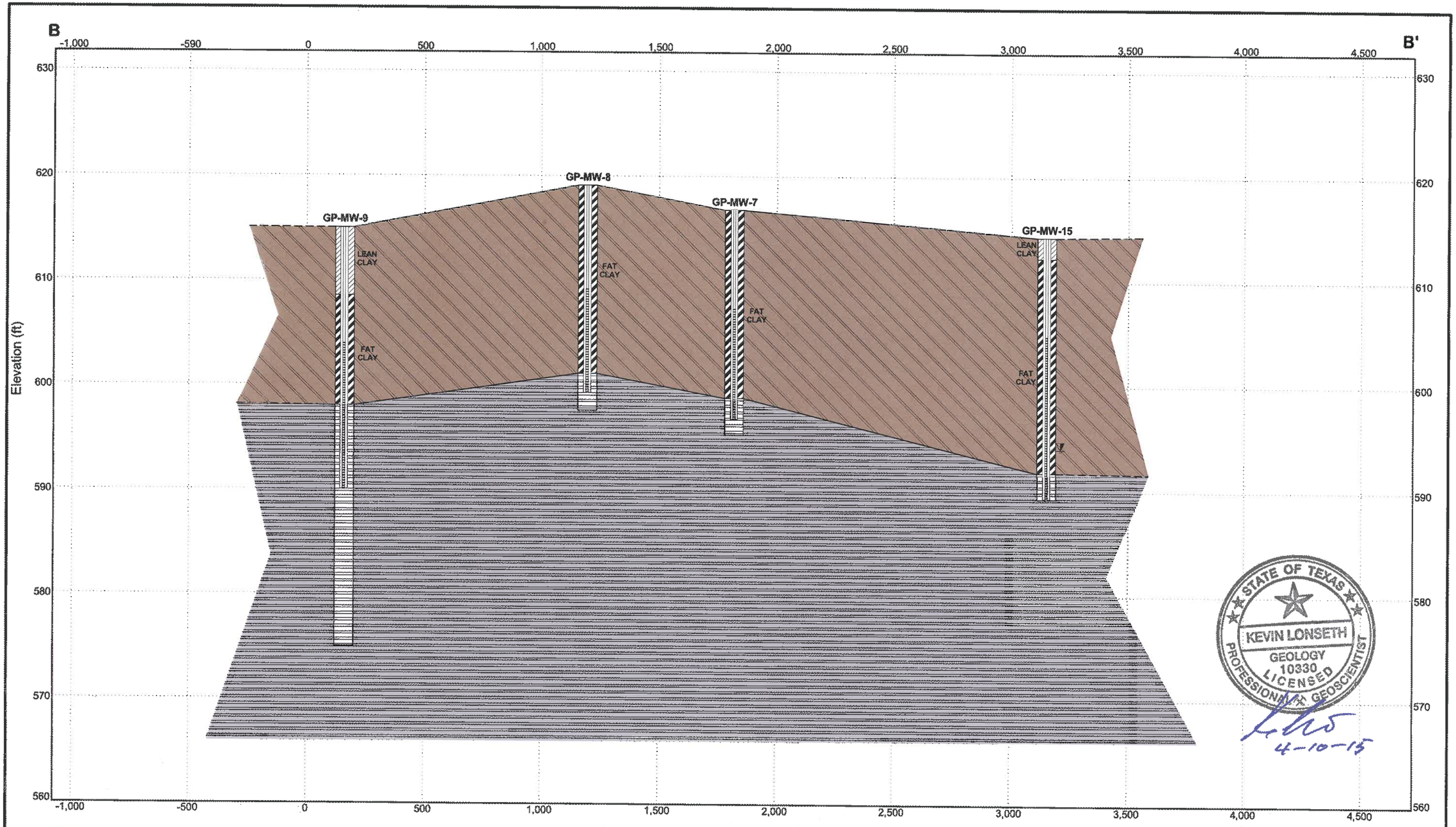
PROJECT: GRANO PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE: GEOLOGIC CROSS SECTION A-A'

DES BY	KLL		SCALE: SEE SCALE
DR BY	KLL		PROJECT NO. 13048.02
CHK BY	RDV		CJI NO. 13048CS6
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 15-04-10			FIGURE NO. 5-2
PURPOSE: APAR			



Notes:
1. Ground surface elevations are approximate.

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GEOLOGY
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PROFESSIONAL GEOSCIENTIST

4-10-15

REV.	DATE	DESCRIPTION	DR BY	APP BY

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PROJECT: GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE: GEOLOGIC CROSS SECTION B-B'

DES BY	KLL		SCALE: SEE SCALE
DR BY	KLL		PROJECT NO. 13046.02
CHK BY	RDV		CJI NO. 13046CS5
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 15-04-10			FIGURE NO. 5-3
PURPOSE: APAR			

400 200 0 400
(SCALE IN FEET)

GP-MW-15

GP-MW-15	
ARSENIC	0.00248
CADMIUM	<0.00128
LEAD	0.000345
SELENIUM	0.00764

GP-MW-7 (7E-c) (DRY)

GP-MW-14 (6H-h) (DRY)

GP-MW-3 (5J-e) (DRY)

GP-MW-6 (4L-b) (DRY)

GP-MW-4 (Alpha PZ-8)

GP-MW-8 (10F-a) (DRY)

GP-MW-12 (7L-a2 (P4)) (DRY)

GP-MW-1	
ARSENIC	0.000537
CADMIUM	0.000264
LEAD	<0.0000898
SELENIUM	0.000474

GP-MW-1

GP-MW-9 (14C-f) (DRY)

GP-MW-2

GP-MW-2	
ARSENIC	0.00121
CADMIUM	<0.00128
LEAD	0.000328
SELENIUM	0.00104

GP-MW-10 (Outfall 1) (DRY)

GP-MW-5 (Alpha PZ-6)

GP-MW-13 (17L-a)

GP-MW-13	
ARSENIC	0.00213
CADMIUM	<0.00386
LEAD	<0.0000898
SELENIUM	0.00121

GP-MW-11 (21D-f) (DRY)

LEGEND

- MONITORING WELL

NOTE:
WATER PRESENT IN GP-MW-4 AND GP-MW-5 UNDER FUTHER EVALUATION.

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PROJECT:
GRAND PARK PRAA 2
FRISCO, TEXAS

SHEET TITLE:
GROUNDWATER COC CONCENTRATION MAP

DES BY			SCALE: 1" = 400'
DR BY	SDB		PROJECT NO. 13046.01
CHK BY	RDV		CJI NO. 13046140
APP BY	RDV		SHEET 1 OF 1 SHEETS
DATE ISSUED: 04-10-2015			FIGURE NO. 5B
PURPOSE: APAR			

S:\CAD\City of Frisco\13046\13046140 PRAA 2 Fig 5B.dwg, 4/9/2015 6:13:37 PM

Section 11 Soil Critical PCL Development

Section 11.1 Tier 2 or 3 PCL Development and Non-Default Parameters

Tier 2 and 3 Development

Tier 2 soil-to-groundwater PCLs were calculated for arsenic, cadmium, lead, and selenium using the TRRP Tier 2 Soil-to-Groundwater PCL equation. The calculations were performed to consider the sorptive redistribution of contaminants from leachate into underlying unaffected soils. As a conservative measure, all of the Tier 1 default parameters for a 30-acre source area and residential land use were used in the calculations, with exception of L1 and L2. L1 is the thickness of the affected soils. L2 is the depth from the top of the affected soils to the groundwater table.

As described in Section 1.3, the depth to the upper groundwater-bearing unit beneath the site is deeper than 20 feet bgs based on GP-MW-7 being a dry well. As a conservative measure, L2 has been assigned a value of 20 feet (for the arsenic and selenium calculations). For cadmium and lead, an L2 value of 1 foot was used, assuming soil contaminated with these metals is in direct contact with groundwater at the site

Based on findings of the affected property assessment, the maximum depth of affected soils at the site should be less than 1 feet bgs. Therefore, L1 has been assigned a value of 1 foot.

The Tier 2 soil-to-groundwater PCLs calculations are provided in Appendix 9.

Non-Default Affected Property Parameters

Not Applicable.

Section 11.2 Soil PCL Adjustments

Soil PCL adjustments were not performed and aesthetics were not considered during this project.

Section 11.3 Soil Critical PCLs

Critical PCLs were developed in surface soils for each COC that was detected at the site. The critical PCL for each COC in surface soil was selected as the lower of: (1) the applicable Tier 1 or Tier 2 soil-to-groundwater PCL; and (2) the Tier 1 PCL for combined ingestion, dermal contact, and inhalation of volatiles/particulates, and ingestion of vegetables. The critical PCLs were based on residential land use and a 30-acre source area. As described in Section 2.6, ecological receptors are not expected to be threatened by this site.

Table 11A - Surface Soil Critical PCLs (On-Site/Off-Site)

Table 11B - Subsurface Soil Critical PCLs (On-Site/Off-Site)
(NOT APPLICABLE)

Table 11A. Surface Soil Critical PCLs

Date of the Tier 1 PCL tables used in the determination of PCLs: June 29, 2012

On-Site Surface Soil Critical PCLs

Land use for purpose of critical PCL development: √ Residential ___ Commercial/industrial

COC[4]	$^{Tot}Soil_{Comb}$ PCL			$^{GW}Soil$[1] PCL			Ecological PCL		MQL (mg/kg)	Back-ground (mg/kg)	$^{SW}Soil$[2] (mg/kg)	$^{Sed}Soil$[2] (mg/kg)	Conc (mg/kg)		Remedy or NFA
	(mg/kg)	Tier	Source area size (acres)	(mg/kg)	Tier	Source area size (acres)	0-0.5 ft. (mg/kg)	0.5-5 ft. (mg/kg)					Max	Rep[3]	
Arsenic	**24**	1	<30	60.19	2	<30	NA	NA	1	15.9	NA	NA	122	NA	Remedy
Cadmium	52	1	<30	**20.00**	2	<30	NA	NA	1	0.4	NA	NA	6.98 J	NA	NFA
Lead	**250[5]**	1	<30	274.51	2	<30	NA	NA	1	31.5	NA	NA	257	NA	Remedy
Selenium	310	1	<30	**33.96**	2	<30	NA	NA	1	2.1	NA	NA	10.9 J	NA	NFA

1. $^{GW}Soil$ includes $^{GW}Soil_{Ing}$, $^{GW}Soil_{Class3}$, $^{Air}GW\text{-}Soil_{Inh\text{-}V}$, and $^{GW}Soil$ for secondary MCLs, as applicable.
2. Refer to *Determining PCLs for Surface Water and Sediment* (RG-366/TRRP-24) to determine if a PCL is required to be developed for this pathway.
3. Provide justifications and calculations for use of representative concentrations in Appendix 8.
4. Includes all COCs that were detected in the release determination and assessment samples.
5. The lead assessment level (250 mg/Kg) represents half of the of the TotSoilComb PCL. It is based on 1) an agreement between the City of Frisco and Exide; and 2) a Tier 2 PCL that exceeds this value.

NA – Not Applicable.
NC – Not Calculated.
J – Estimated Value between the SQL and MQL.
D – Diluted due to targets detected over the highest point on the calibration curve, or due to matrix interference. The result is from a diluted sample.

Figure 11A - Surface Soil PCLE Zone Maps
(SEE FIGURE 1B)

Figure 11B - Subsurface Soil PCLE Zone Maps
(NOT APPLICABLE)

Figure 11C – Cross Sections of the PCLE Zone
(NOT APPLICABLE)

Section 13 Notifications

Section 13.1 Notification of Actual or Probable Exposure

No notifications were required for actual or probable exposure.

Section 13.2 Other Notifications

Based on the findings of the affected property assessment, off-site properties would not be affected by the PRAA 2 portion of the Grand Park property.

Table 13A. Notification Summary
NOT APPLICABLE

Figure 13A - Notification Map

(NOT APPLICABLE)

APPENDICES

APPENDIX 2

BORING LOGS

PROJECT: **City of Frisco**	BORING/WELL ID: **GP-MW-3 / 5J-e**
LOCATION: **Grand Park**	
DATE: **5/5/14**	GROUND ELEVATION: **616.4 ft** NORTHING: **7102809.593**
DRILLING COMPANY: **Sunbelt**	TOC ELEVATION: **616.2 ft** EASTING: **2475923.705**
DRILLING EQUIPMENT: **Geoprobe**	TOTAL DEPTH: **20 ft**
DRILLING METHOD: **Direct Push/Auger**	LOGGED BY: **R. Varnell/K. Ashely**

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	DPT	100	PID = 0		(CL) CLAY, loamy, dry, brown.	SURFACE COMPLETION: Cement
5	DPT	100	PID = 0		Similar to above (STA), increased sand, moist, darker.	Bentonite Seal; Sand Filter
10	DPT	100	PID = 0		STA, sandy CLAY, lighter color. STA, with sand stringer, moist. STA, sand stringer from 9.5' to 10'.	
12.0 (604.4)					(CH) CLAY, calcareous, moist, tan/gray.	2" PVC Screen
15	DPT	100	PID = 0		STA, progressively harder with depth.	
20 (20.0, 596.4)	DPT	100	PID = 0			

Bottom of borehole at 20.0 feet.

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PROJECT NO. 13046

CJI LOG WITH WELL - GINT STD US LAB.GDT - 1/27/15 12:00 - S:\BORING LOGS\PROJECT NAME\FRISCO\GRAND PARK.GPJ

PROJECT: **City of Frisco**
LOCATION: **Grand Park**

BORING/WELL ID: **GP-MW-6 / 5M-b**

DATE: **12/16/14**
DRILLING COMPANY: **Roddy Qualls Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push/Auger**

GROUND ELEVATION: **603.2 ft** NORTHING: **7102877.199**
TOC ELEVATION: **607.15 ft** EASTING: **2476549.053**
TOTAL DEPTH: **15 ft**
LOGGED BY: **K. Ashley**

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0							SURFACE COMPLETION:
	DPT	95	PID = 7.6		(CH) CLAY, fat, dry, dark brown.		Cement
			PID = 8.3				Bentonite Seal
5							Sand Filter
					5.0	598.2	
	DPT	95	PID = 10.4		(CL) CLAY, with some gravel, dry, dark gray.		
			PID = 10.8				
10					10.0	593.2	2" PVC Screen
			PID = 9.2		10.5 (CL) CLAY, moist, light brown.	592.7	
	DPT	100	PID = 10.9		SHALE, gray.		
15					15.0	588.2	

Bottom of borehole at 15.0 feet.

Note: Ground surface elevations are approximate.

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PROJECT NO. 13046

CJI LOG WITH WELL - GINT STD US LAB.GDT - 1/27/15 12:00 - S:\BORING LOGS\PROJECT NAME\FRISCO\GRAND PARK.GPJ

PROJECT: **City of Frisco**
LOCATION: **Grand Park**

BORING/WELL ID: **GP-MW-7 / 7E-c**

DATE: **11/19/14**
DRILLING COMPANY: **Total Support Services**
DRILLING EQUIPMENT: **Mobile B-57**
DRILLING METHOD: **Direct Flight Augers**

GROUND ELEVATION: **616.8 ft** NORTHING: **7102465.56**
TOC ELEVATION: **619.8 ft** EASTING: **2474946.856**
TOTAL DEPTH: **21.5 ft**
LOGGED BY: **E. Hughes**

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION
0	SH	60	PID = 0		(CH) CLAY, high plasticity, firm, moist, black, with some small gravel (mm scale).
	SH	100	PID = 0		
5	SH	100	PID = 0		
	SH	80	PID = 0		
	SH	80	PID = 0		Similar to above, light brown, tan, and orange.
10					
15	AU				
					18.0 (598.8) Clayey SHALE, brittle, dry, dark gray.
20	SS	100	PID = 0		21.5 (595.3)

WELL DIAGRAM

SURFACE COMPLETION:

- Cement
- Bentonite Seal
- Sand Filter
- 2" PVC Screen

Bottom of borehole at 21.5 feet.

Note: Ground surface elevations are approximate.

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PROJECT NO. 13046

CJI LOG WITH WELL - GINT STD US LAB.GDT - 1/27/15 12:00 - S:\BORING LOGS\PROJECT NAME\FRISCO\GRAND PARK.GPJ

PROJECT: **City of Frisco**	BORING/WELL ID: **GP-MW-8 / 10F-a**
LOCATION: **Grand Park**	
DATE: **11/19/14**	GROUND ELEVATION: **619.1 ft** NORTHING: **7101845.062**
DRILLING COMPANY: **Total Support Services**	TOC ELEVATION: **623.13 ft** EASTING: **2475014.058**
DRILLING EQUIPMENT: **Mobile B-57**	TOTAL DEPTH: **21.5 ft**
DRILLING METHOD: **Direct Flight Augers**	LOGGED BY: **E. Hughes**

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION
0	SH	100	PID = 0		(CH) CLAY, firm, damp, black, high plasticity. Some small gravel (mm scale) and some plant roots at surface.
	SH	80	PID = 0		Similar to above, light brown and gray.
5	SH	60	PID = 0		
	SH	80	PID = 0		
	SH	80	PID = 0.6		
10					
	AU				
15					
20					
	SS	100	PID = 0		
					18.0 / 601.1 SHALE, clayey, firm, dry, black.
					21.5 / 597.6

WELL DIAGRAM

SURFACE COMPLETION:

- Cement
- Bentonite Seal
- Sand Filter
- 2" PVC Screen

Bottom of borehole at 21.5 feet.

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CJI LOG WITH WELL - GINT STD US LAB.GDT - 3/24/15 13:45 - S:\BORING LOGS\PROJECT NAME\FRISCO\GRAND PARK.GPJ

PROJECT: **City of Frisco**
LOCATION: **Grand Park**

BORING/WELL ID: **GP-MW-9 / 14C-f**

DATE: **11/18/14**
DRILLING COMPANY: **Total Support Services**
DRILLING EQUIPMENT: **Mobile B-57**
DRILLING METHOD: **Direct Flight Augers**

GROUND ELEVATION: **615 ft** NORTHING: **7100928.755**
TOC ELEVATION: **619.03 ft** EASTING: **2474534.366**
TOTAL DEPTH: **40 ft**
LOGGED BY: **E. Hughes**

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	AU				(CL) CLAY, moist, black, with some small gravel. Similar to above, dry, tan.	SURFACE COMPLETION: Cement
5	SH	100				Bentonite
	AU				6.5 / 608.5	
10	SH	100			(CH) CLAY, moist, tan and gray.	Sand Filter
15	AU				17.0 / 598.0	2" PVC Screen
20	SH	100			SHALE, moist, dark gray.	
25						
30	AU					
35						
40					40.0 / 575.0	

Bottom of borehole at 40.0 feet.

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PROJECT NO. 13046

PROJECT: **City of Frisco**
LOCATION: **Grand Park**

BORING/WELL ID: **GP-MW-14 / 6H-h**

DATE: **12/16/14**
DRILLING COMPANY: **Roddy Qualls Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push/Auger**

GROUND ELEVATION: **613.8 ft** NORTHING: **7102531.095**
TOC ELEVATION: **617.84 ft** EASTING: **2475510.332**
TOTAL DEPTH: **20 ft**
LOGGED BY: **K. Ashley**

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						SURFACE COMPLETION:
	DPT	100	PID = 6.1		(CH) CLAY, fat, damp, dark brown.	Cement
			PID = 6.3			
5						Bentonite Seal
	DPT	100	PID = 6.9		Similar to above (STA), lighter brown.	
			PID = 7.6			Sand Filter
10						
	DPT	100	PID = 6.2			
			PID = 8.4			
15						2" PVC Screen
	DPT	100	PID = 5.6			
					STA, with very fine grained sand stringer at 17' - 18' below ground surface.	
			PID = 6.3		19.0 / 594.8	
					SHALE, weathered, gray.	
20					20.0 / 593.8	

Bottom of borehole at 20.0 feet.

Note: Ground surface elevations are approximate.

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PROJECT NO. 13046

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PROJECT: **City of Frisco**
LOCATION: **Grand Park**

BORING/WELL ID: **GP-MW-15**

DATE: **12/16/14**
DRILLING COMPANY: **Roddy Qualls Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push/Auger**

GROUND ELEVATION: **614.3 ft** NORTHING: **7103705.914**
TOC ELEVATION: **618.31 ft** EASTING: **2475419.369**
TOTAL DEPTH: **25 ft**
LOGGED BY: **K. Ashley**

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						SURFACE COMPLETION:
	DPT	85	PID = 12.4		(CL) CLAY, dark brown. Some white sand observed at 2' below ground suface.	Cement
					2.0 / 612.3	
			PID = 10.9		(CH) CLAY, fat, light brown.	
5						Bentonite Seal
	DPT	100	PID = 11.5			
			PID = 11.1			Sand Filter
10						
	DPT	100	PID = 14.1			
			PID = 11.5		Similar to above, with some orange/red sand stringers.	
15						
	DPT	100	PID = 11.6			2" PVC Screen
20						
	DPT	100			22.5 / 591.8	
					SHALE, gray.	
25					25.0 / 589.3	

Bottom of borehole at 25.0 feet.

Note: Ground surface elevations are approximate.

COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701

This boring log should not be used separately from the original report.

PROJECT NO. 13046

APPENDIX 5

WATER WELL RECORDS

Prepared for:

COOK-JOYCE, INC.-AUSTIN
812 West Eleventh Street
Austin, TX 78701-2000

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP

Water Well Report

Grand Park

7275 Dallas Parkway

Frisco, Texas 75034

Collin/Denton County

ES-110821

Wednesday, May 28, 2014

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

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Maps	
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Topographic Overlay Map - 0.5 Mile Buffer	**5**
Current Imagery Overlay Map - 0.5 Mile Buffer	**6**
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Database Definitions and Sources	**17**
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www.banksenvdata.com

Geographic Summary *Grand Park*

Location
Collin/Denton County, Texas
Target location is 0.537 square miles and has a 3.04 mile perimeter

Coordinates	
Longitude & Latitude in Degrees Minutes Seconds	NA
Longitude & Latitude in Decimal Degrees	NA
X and Y in UTM	NA

Elevation
NA

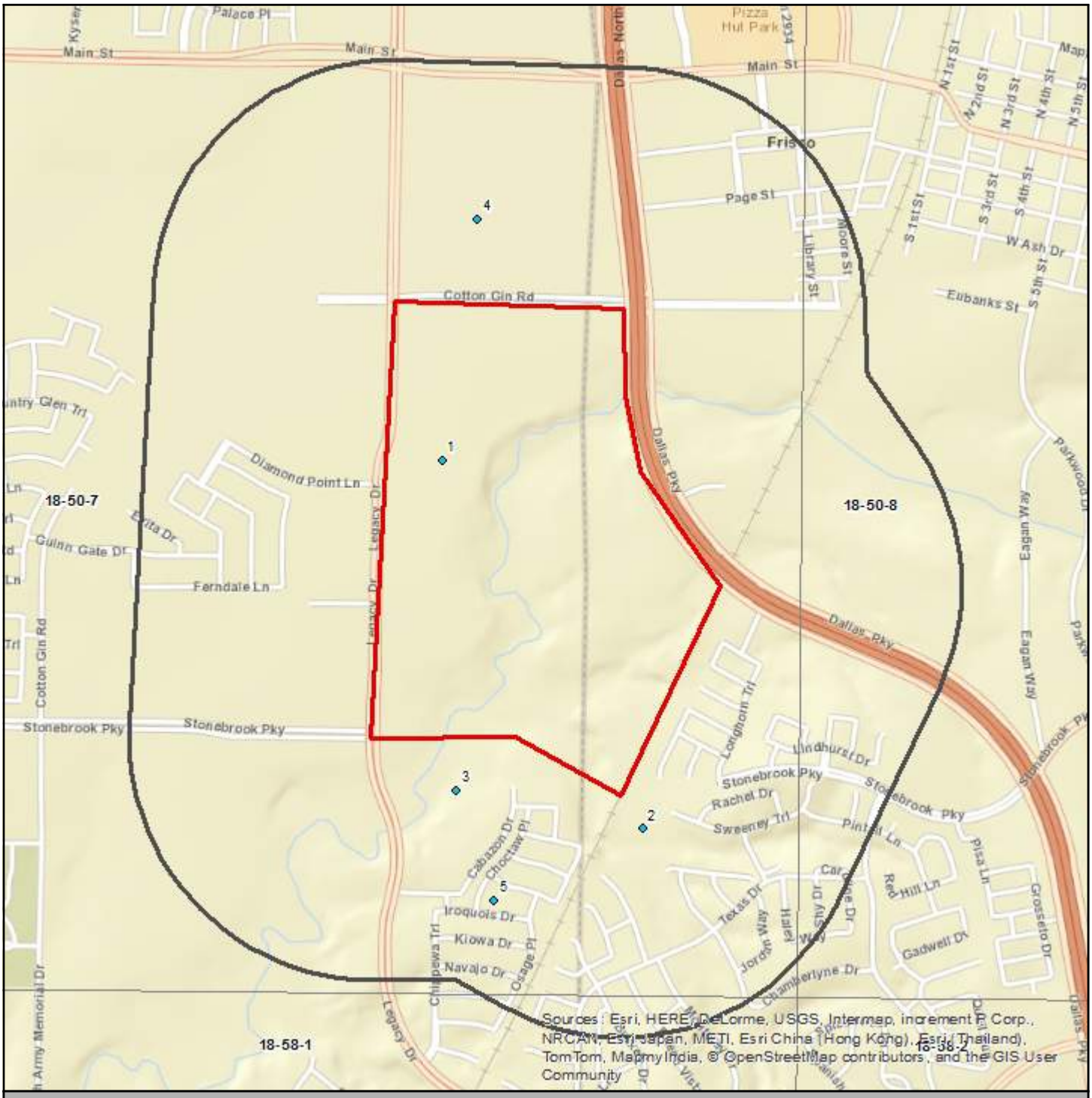
Zip Codes Searched	
Search Distance	**Zip Codes (historical zip codes included)**
Target Property	75034, 75033
0.5 miles	75034, 75033

Topos Searched	
Search Distance	**Topo Name**
Target Property	Frisco (1982)
0.5 miles	Hebron (1982), Frisco (1982)

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Summary Map - 0.5 Mile Buffer

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP



Grand Park

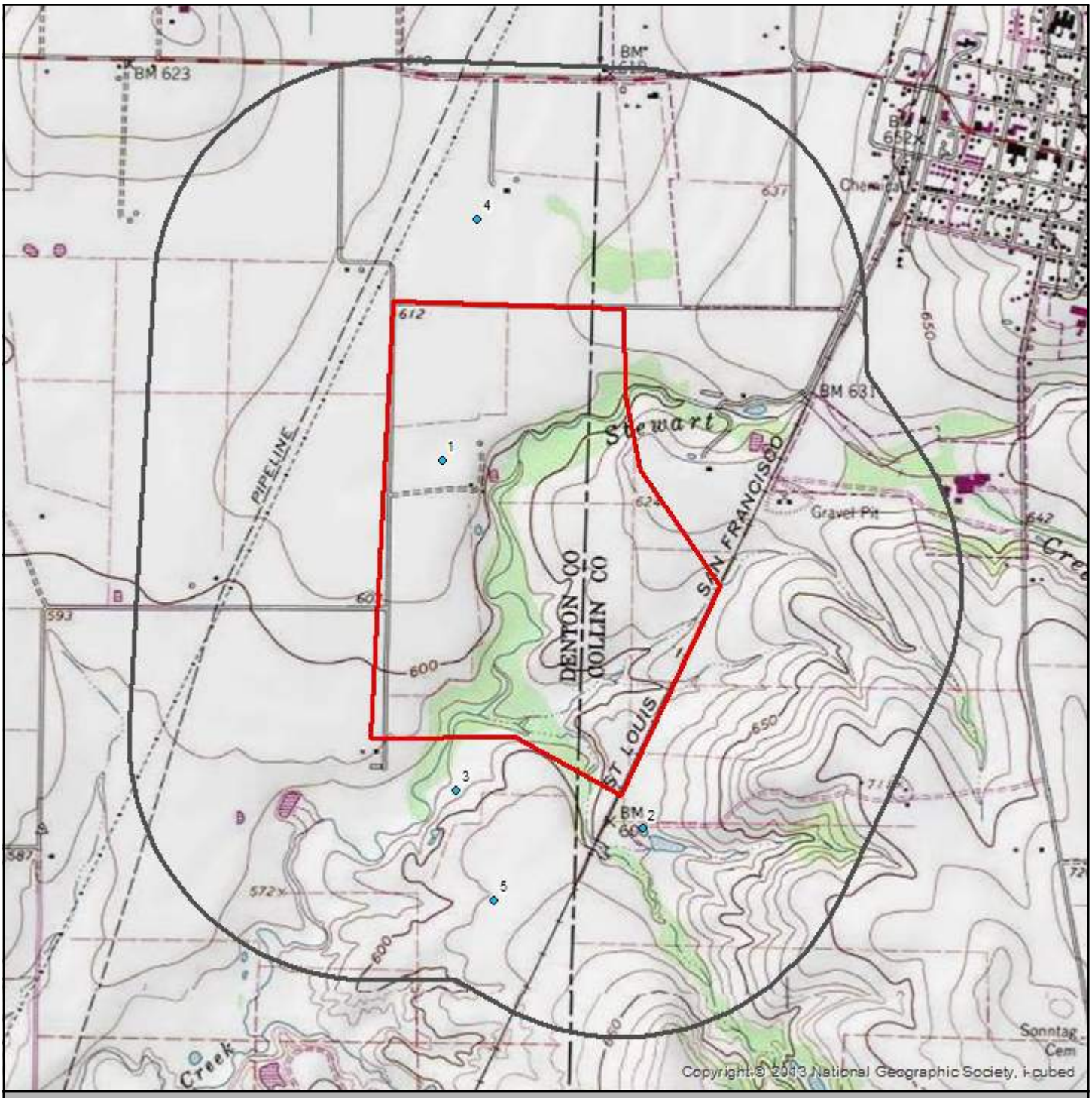
- Well
- Well Cluster
- Target Property
- Search Buffer
- Texas Quad Index

1 : 19,000
1 inch = 0.300 miles
1 inch = 1583 feet
1 centimeter = 0.190 kilometers
1 centimeter = 190 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

Topographic Overlay Map - 0.5 Mile Buffer



Grand Park

Well

Well Cluster

Target Property

Search Buffer

Target Property Quad Name(s)
Frisco (1982)

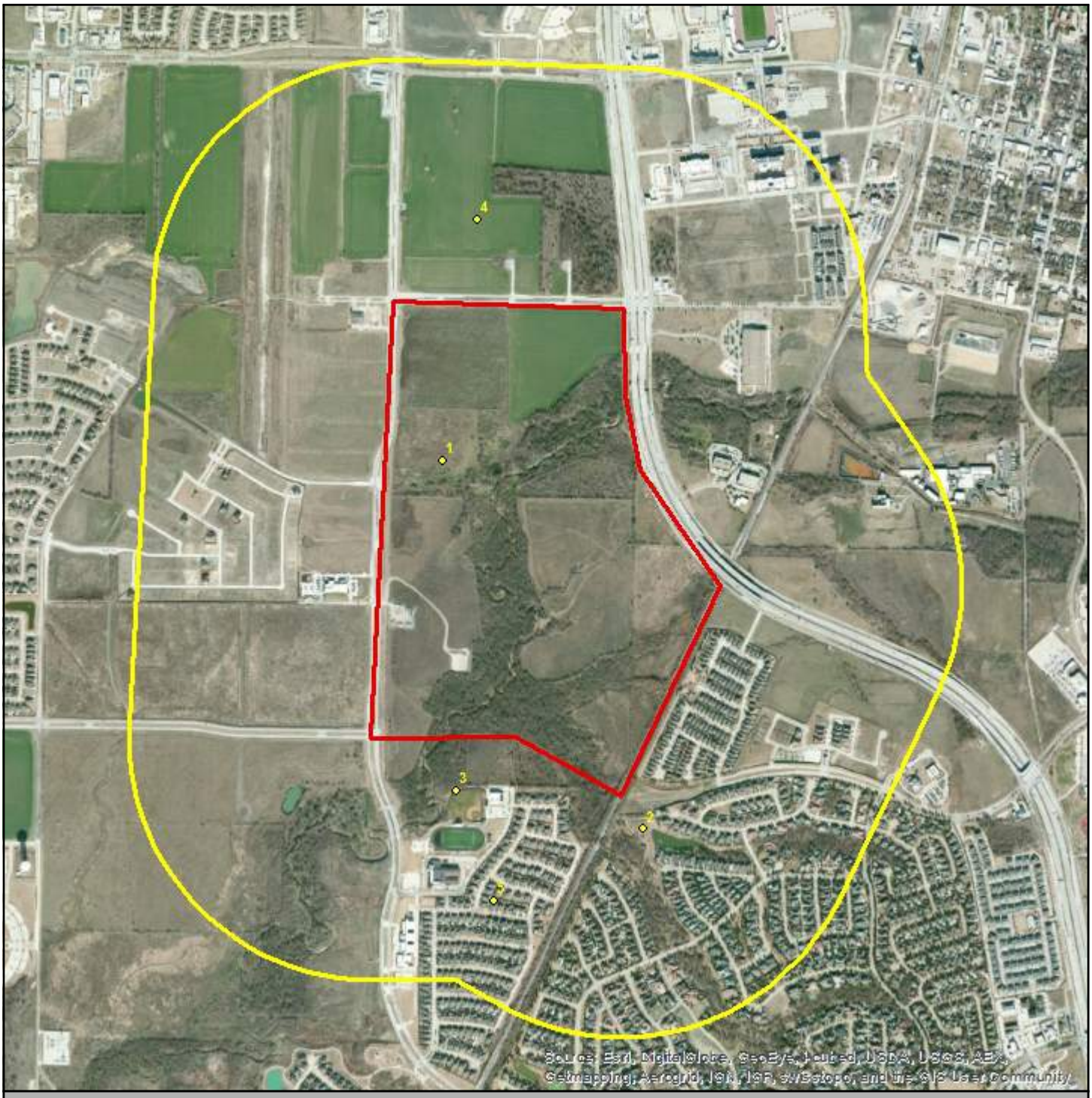
1 : 19,000
1 inch = 0.300 miles
1 inch = 1583 feet

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

N

Current Imagery Overlay Map - 0.5 Mile Buffer

BANKS ENVIRONMENTAL DATA
A DIVISION OF THE BANKS GROUP



Grand Park

Well
Well Cluster
Target Property
Search Buffer

1 : 19,000
1 inch = 0.300 miles
1 inch = 1583 feet
1 centimeter = 0.190 kilometers
1 centimeter = 190 meters

N

Lambert Conformal Conic Projection
1983 North American Datum
First Standard Parallel: 33 0' 00" North
Second Standard Parallel: 45 0' 00" North
Central Meridian: 96 0' 00" West
Latitude of Origin: 39 0' 00" North

Water Well Details *Grand Park*

Map ID	Source ID	Dataset	Owner of Well	Type of Well	Depth Drilled	Completion Date	Longitude	Latitude	Elevation	Driller's Logs
1	18-50-7A	TX TCEQ HIST	Leo Wollenreich	Domestic	450	03/20/1967	-96.84617	33.141019	613 ft	View
2	WIID348444	TX TWDB WIID	Starwood HOA	Stock	1600	9/10/2013	-96.838888	33.129999	613 ft	View
3	WIID24984	TX TWDB WIID	Legacy Christian Academy	Irrigation	675	8/12/2003	-96.845555	33.13111	587 ft	View
4	18-50-7G	TX TCEQ HIST	B.F. Phillips	Domestic	33	08/17/1981	-96.844989	33.148287	614 ft	View
5	18-50-7H	TX TCEQ HIST	B.F. Phillips	Domestic	36	08/19/1981	-96.844179	33.127816	612 ft	View

Well Summary

Water Well Dataset	# of Wells
TX TCEQ HIST	3
TX TWDB WIID	2
Total Count	**5**

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www.banksenvdata.com

GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 18-30-11
Located on map 461
Received: 67
Form GW 8
Form GW 9

1) OWNER:
Person having well drilled Leo Wollenreich (Name) Address Frisco, Texas (Street or RFD) (City) (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Denton Labor League Abstract No. C. Rogers Survey 1094

NW¼ NE¼ SW¼ SE¼ of Section Block No. Survey C. Rogers
(Circle as many as are known)

miles in 1½ Miles SW direction from Frisco
(NE., SW., etc.) (Town)

NORTH

Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.

3) TYPE OF WORK (Check):
New Well ☒ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☐ Driven ☐ Dug ☐
Cable ☒ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6 in. Depth drilled 450 ft. Depth of completed well 450 ft. Date drilled 3-20-67

All measurements made from ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	10	Black Top Soil
10	35	Yellow Clay
35	425	Blue Shale
425	450	Water Sand

From (ft.)	To (ft.)	Description and color of formation material

side if necessary)

7) COMPLETION (Check):
Straight wall ☐ Gravel packed ☒ Other
Under reamed ☐ Open hole ☐

03805001

land surface Date 3-20-67
per square inch Date

9) CASING:
Type: old ☐ New ☐ Steel ☒ Plastic ☐ Other ☐
Cemented from ft. to ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
7in	0	52	24lb.
4in	52	425	9.5lb.

10) SCREEN:
Type
Perforated ☐ Slotted ☐

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot size

11) WELL TESTS:
Was a pump test made? ☐ Yes ☒ No If yes by whom?

Yield: gpm with ft. drawdown after hrs
Bailer test gpm with ft. drawdown after hrs
Artesian flow gpm Date
Temperature of water
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? depth of strata

12) PUMP DATA:
Manufacturer's Name Aermotor
Type Rod H.P. 1
Designed pumping rate 180 gpm ☐ gph ☒
Type power unit Electrid
Depth to bowls, cylinder, jet, etc., 350 ft.
below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Claud Boyd (Type or Print) Water Well Drillers Registration No. 481

Address Box # 344 (Street or RFD) Frisco (City) Texas (State)

(Signed) Claud Boyd (Water Well Driller) Boyd Drilling Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

STATE OF TEXAS WELL REPORT for Tracking #348444

Owner:	**Starwood HOA**	Owner Well #:	**Sweeney #1**
Address:	**West End of Sweeney Trail Frisco , TX 75035**	Grid #:	**18-50-7**
Well Location:	**West End of Sweeney Trail by lake Frisco , TX 75035**	Latitude:	**33° 07' 48" N**
Well County:	**Collin**	Longitude:	**096° 50' 20" W**
Elevation:	**No Data**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Stock**

Drilling Date:
Started: **8/5/2013**
Completed: **9/10/2013**

Diameter of Hole:
Diameter: **12 in From Surface To 1280 ft**
Diameter: **7.875 in From 1280 ft To 1600 ft**

Drilling Method:
Mud Rotary

Borehole Completion:
Gravel Packed From: **1270 ft to 1600 ft**
Gravel Pack Size: **8/16**

Annular Seal Data:
1st Interval: **From 0 ft to 1272 ft with class A cement (#sacks and material)**
2nd Interval: **No Data**
3rd Interval: **No Data**
Method Used: **positive displacement**
Cemented By: **Baker-Hughes**
Distance to Septic Field or other Concentrated Contamination: **No Data**
Distance to Property Line: **No Data**
Method of Verification: **No Data**
Approved by Variance: **No Data**

Surface Completion:
Surface Slab Installed

Water Level:
Static level: **No Data**
Artesian flow: **No Data**

Packers:
No Data

Plugging Info:
Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump:
Submersible
Depth to pump bowl: **1100 ft**

Well Tests:
No Data

Water Quality:
Type of Water: **Paluxy**
Depth of Strata: **1305 ft.**
Chemical Analysis Made: **No**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**

Certification Data:
The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information:
Earth Tech
145 Rose Lane
Frisco , TX 75034

Driller License Number:
56064

Licensed Well Driller Signature:
Tom Gasmann

Registered Driller Apprentice Signature:
Eric Trujillo

Apprentice Registration Number:
58331

Comments:
No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking **#348444**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 5 topsoil black/brown
5 18 yellow clay
18 465 gray shale
465 480 sand
480 590 gray shale
590 610 sand
610 705 shale w.sand stks
705 760 sand
760 1040 shale w. limestone stks
1040 1210 limestone
1210 1242 very dark black shale
1242 1305 limestone
1305 1325 shale w. sandy stks
1325 1360 sand
1360 1392 shale w. sand stks
1392 1432 sand
1432 1454 shale
1454 1585 sand
1585 1600 shale

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
8 N Steel 0 1272
4 N Steel 1242 1305
4 N SSWW screen 1305 1347 .020
4 N Steel 1347 1389
4 N SSWW screen 1389 1432 .020
4 N Steel 1432 1453
4 N SSWW screen 1453 1600 .020

STATE OF TEXAS WELL REPORT for Tracking #24984

Owner:	**Legacy Christian Academy**	Owner Well #:	**1**
Address:	**5000 Academy Dr.** **Frisco , TX 75034**	Grid #:	**18-50-7**
Well Location:	**Same as above** **TX**	Latitude:	**33° 07' 52" N**
Well County:	**Denton**	Longitude:	**096° 50' 44" W**
Elevation:	**No Data**	GPS Brand Used:	**Garmin- E-Trex**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Date:	Started: **7/28/2003** Completed: **8/12/2003**
Diameter of Hole:	Diameter: **10.75 in From Surface To 675 ft**
Drilling Method:	**Air Rotary**
Borehole Completion:	Gravel Packed From: **575 ft to 675 ft** Gravel Pack Size:
Annular Seal Data:	1st Interval: **From 0 ft to 20 ft with 15 (#sacks and material)** 2nd Interval: **From 450 ft to 480 ft with 15 (#sacks and material)** 3rd Interval: **No Data** Method Used: **tremie pressure** Cemented By: **driller** Distance to Septic Field or other Concentrated Contamination: **none ft** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Sleeve Installed**
Water Level:	Static level: **300 ft. below land surface on 8/12/2003** Artesian flow: **No Data**
Packers:	**none**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**Turbine** Depth to pump bowl: **570 ft**
Well Tests:	**Pump** Yield: **160 GPM with 150 ft drawdown after 2 hours**
Water Quality:	Type of Water: **fresh** Depth of Strata: **625 ft.** Chemical Analysis Made: **Yes** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Lonestar Underground Inc.** **680 CR 77** **Prosper , TX 75078**
Driller License Number:	**54840**
Licensed Well Driller Signature:	**Dale Chepulis**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #**24984**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 12 Black top soil
12 415 Gray shale
415 450 Sand
450 625 Shale w/ sand stks.
625 675 Sand

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
6 N Steel 0 615
6 N Steel screen 615 675 .03

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 18-50-716
Located on map Yes
Received: RLW

1) OWNER B.F. Phillips (Name) Address Rt. 2 (Street or RFD) Frisco (City) Texas (State) 75034 (Zip)

2) LOCATION OF WELL:
County Denton 8 miles in N.E. (N.E., S.W., etc.) direction from Lewisville (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☐ Domestic ☐ Industrial ☐ Public Supply ☒ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☐ Mud Rotary ☐ Air Hammer ☐ Driven ☒ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
#7
Date drilled 8-17-81

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
36	Surface	33

7) BOREHOLE COMPLETION:
☒ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	9	Top soil
9	15	Clay
15	20	Sand & Gravel
20	21	Gravel
21	33	Blue shale

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
36	N	Concrete	0	33	N/A

CEMENTING DATA
Cemented from N/A ft. to _____ ft.
Method used _____
Cemented by _____ (Company or Individual)

SEP 03 1982

9) WATER LEVEL:
Static level 20 ft. below land surface Date 8-17-81
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth
N/A

02882001

11) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other N/A
Depth to pump bowls, cylinder, jet, etc., _____ ft.

(Use reverse side if necessary)

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☒ Estimated
Yield: 10 gpm with — ft. drawdown after — hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Gregory A. Shutkufski (Type or Print) Water Well Drillers Registration No. 2111

ADDRESS 438 W. Mockingbird Ln. (Street or RFD) Dallas (City) TX (State) 75247 (Zip)

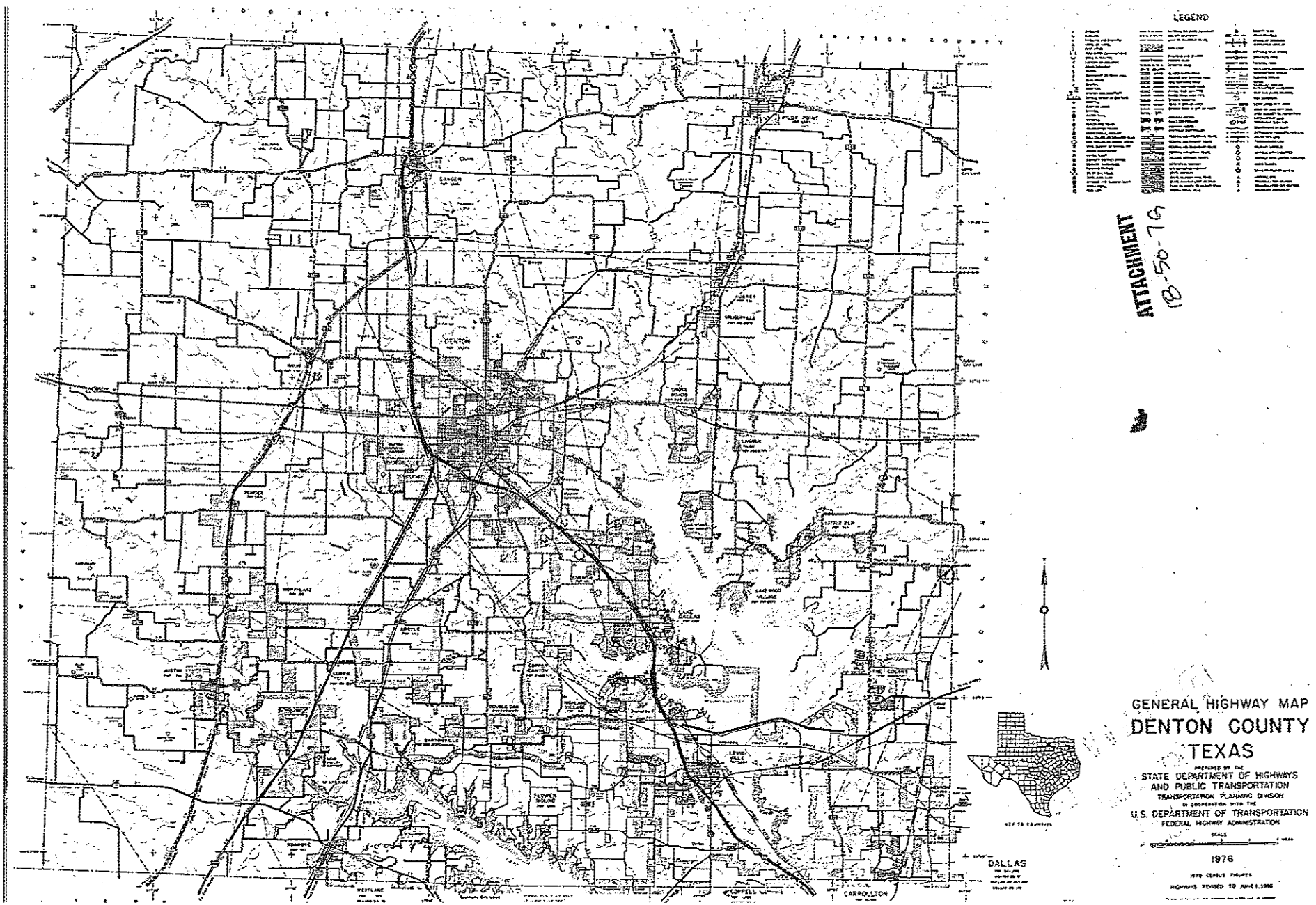
(Signed) Gregory A. Shutkufski (Water Well Driller)

Southwest Waterwells, Incorporated (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY



ATTACHMENT
18-50-76

GENERAL HIGHWAY MAP

DENTON COUNTY
TEXAS

PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE

1976

1970 CENSUS FIGURES
HIGHWAYS REVISED TO JAN. 1, 1976

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 18-50-7TH
Located on map YES
Received: RLW

1) OWNER B.F. Phillips (Name) Address Rt. 2 (Street or RFD) Frisco (City) Texas (State) 75034 (Zip)

2) LOCATION OF WELL:
County Denton 8 miles in N.E. (N.E., S.W., etc.) direction from Lewisville (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☐ Domestic ☐ Industrial ☐ Public Supply ☒ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☐ Mud Rotary ☐ Air Hammer ☐ Driven ☒ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
#8
Date drilled 8-19-81

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
36	Surface	36

7) BOREHOLE COMPLETION:
☒ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	10	Top soil
10	15	Clay
15	20	Sand
20	25	Gravel
25	36	Blue shale

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
36	N	Concrete	0	36	N/A

CEMENTING DATA
Cemented from N/A ft. to _____ ft.
Method used _____
Cemented by _____ (Company or Individual)

RECEIVED
SEP 03 1982
CK/TOWER

9) WATER LEVEL:
Static level 22 ft. below land surface Date 8-19-81
Artesian flow _____ gpm. Date _____

10) PACKERS: Type N/A Depth

02881001

☐ Jet ☐ Submersible ☐ Cylinder
A

(Use reverse side if necessary)

Depth to pump bowls, cylinder, jet, etc., _____ ft.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☒ Estimated
Yield: 10 gpm with — ft. drawdown after — hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Gregory A. Shutkufski (Type or Print) Water Well Drillers Registration No. 2111

ADDRESS 438 W. Mockingbird Ln. (Street or RFD) Dallas (City) TX (State) 75247 (Zip)

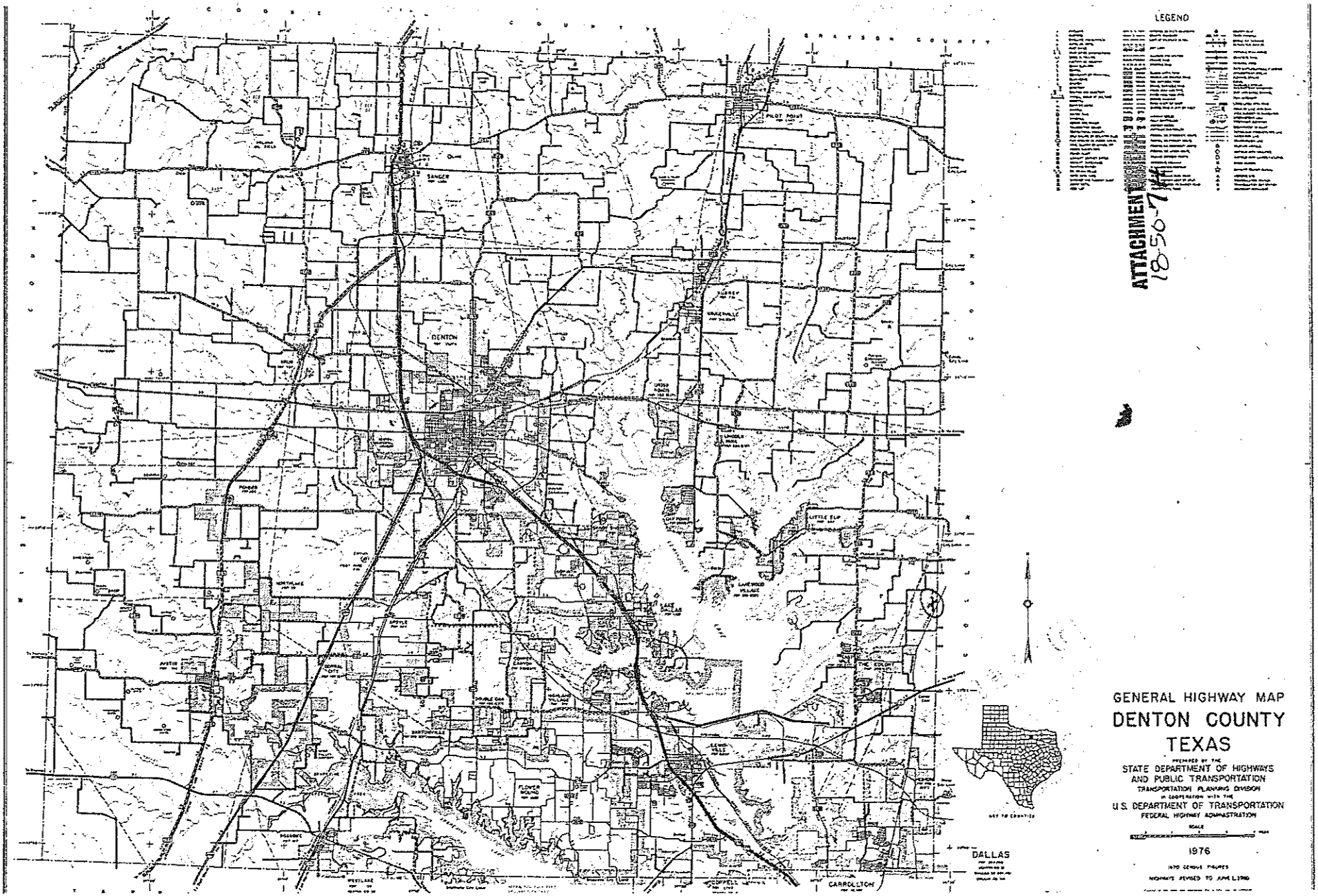
(Signed) Gregory A. Shutkufski (Water Well Driller)

Southwest Waterwells, Incorporated (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY



ATTACHMENT 13B
18-50-74

GENERAL HIGHWAY MAP

DENTON COUNTY
TEXAS

PREPARED BY THE
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE

1976

1970 CENSUS FIGURES
HIGHWAYS REVISED TO JUNE 1, 1976

Dataset Descriptions and Sources *Grand Park*

Dataset	Source	Dataset Description	Update Schedule	Data Requested	Data Obtained	Data Updated	Source Updated
TX HGSD - Texas HGSD	Harris Galveston Subsidence District/Fort Bend Subsidence District	This dataset contains all groundwater well records compiled by Harris Galveston Subsidence District/Fort Bend Subsidence District.	Quarterly	03/24/2014	03/24/2014	04/06/2013	03/24/2014
TX TCEQ HIST - Texas TCEQ Historical	Texas Commission on Environmental Quality	This dataset contains all historical water well records searched from the TCEQ Public Water Well Viewer. Banks Environmental Data plots each well record based on location information found on the log.	As requested	N/A	N/A	N/A	N/A
TX TCEQ PWS - Texas TCEQ PWS	Texas Commission on Environmental Quality	This dataset contains a collection of records from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ.	Quarterly	03/05/2014	03/12/2014	04/06/2014	03/12/2014
TX TWDB GW - Texas TWDB Groundwater Database	Texas Water Development Board	This dataset contains water well records contained within Texas Water Development Board Groundwater Database.	Quarterly	04/03/2014	04/03/2014	04/06/2014	03/04/2014
TX TWDB WIID - Texas TWDB Submitted Drillers' Logs	Texas Water Development Board	This dataset contains water well records from the Texas Water Development Board Submitted Driller's Reports Database.	Quarterly	04/03/2014	04/03/2014	04/06/2014	04/02/2014
WW USGS - USGS Water Wells	U.S. Geological Survey	This dataset contains groundwater well records from the U.S. Geological Survey.	Quarterly	04/04/2014	04/04/2014	04/06/2014	04/04/2014

Banks Environmental Data, Inc. - 1601 Rio Grande, Ste. 500 - Austin, TX 78701 - 800.531.5255 P - 512.478.1433 F
www.banksenvdata.com

Disclaimer *Grand Park*

The Banks Environmental Data Water Well Report was prepared from existing state water well databases and/or additional file data/records research conducted at the state agency and the U.S. Geological Survey. Banks Environmental Data has performed a thorough and diligent search of all groundwater well information provided and recorded. All mapped locations are based on information obtained from the source. Although Banks performs quality assurance and quality control on all research projects, we recognize that any inaccuracies of the records and mapped well locations could possibly be traced to the appropriate regulatory authority or the actual driller. It may be possible that some water well schedules and logs have never been submitted to the regulatory authority by the water driller and, thus, may explain the possible unaccountability of privately drilled wells. It is uncertain if the above listing provides 100% of the existing wells within the area of review. Therefore, Banks Environmental Data cannot fully guarantee the accuracy of the data or well location(s) of those maps and records maintained by the regulatory authorities.

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APPENDIX 6

MONITOR WELL RECORDS

STATE OF TEXAS WELL REPORT for Tracking #366955

Owner:	**City of Frisco**	Owner Well #:	**5J-E**
Address:	**6101 Frisco Square Blvd Frisco , TX 75034**	Grid #:	**18-50-7**
Well Location:	**SW Cotton Gin Rd & Dallas N Tollway Frisco , TX 75034**	Latitude:	**33° 08' 47" N**
Well County:	**Denton**	Longitude:	**096° 50' 27" W**
Elevation:	**622 ft.**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **5/5/2014** Completed: **5/5/2014**
Diameter of Hole:	Diameter: **6.25 in From Surface To 17 ft**
Drilling Method:	Other: **Flight Augers**
Borehole Completion:	Other: **16/30 Sand Pack**
Annular Seal Data:	1st Interval: **From 0 ft to 3 ft with 1 Concrete (#sacks and material)** 2nd Interval: **From 3 ft to 5 ft with 1 Bentonite (#sacks and material)** 3rd Interval: **From 5 ft to 17 ft with 3 Sand (#sacks and material)** Method Used: **Gravity** Cemented By: **Juan R. Alcala** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Sunbelt Industrial Services 2415 Cullen St Fort Worth , TX 76107**
Driller License Number:	**59430**

Licensed Well Driller Signature:	**Juan R. Alcala**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**DE14123**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking number (Tracking #**366955**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**9'**	**Brown Clay**
9	**17'**	**Gray/Brown Clay**

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
2"	**New**	**PVC Riser**	**0-7' SCH 40**
2"	**New**	**Screen**	**7-17' 0.010 Slot**

STATE OF TEXAS WELL REPORT for Tracking #386431

Owner:	**City of Frisco**	Owner Well #:	**5MB-b**
Address:	**6101 Frisco Square Blvd. Frisco , TX 75034**	Grid #:	**18-50-7**
Well Location:	**7275 Dallas Parkway Frisco , TX 75034**	Latitude:	**33° 08' 15" N**
Well County:	**Collin**	Longitude:	**096° 50' 42" W**
Elevation:	**No Data**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **12/16/2014** Completed: **12/16/2014**
Diameter of Hole:	Diameter: **6 in From Surface To 15 ft**
Drilling Method:	Other: **Flight auger**
Borehole Completion:	**No Data**
Annular Seal Data:	1st Interval: **From 0 ft to 1 ft with 1 bag concrete (#sacks and material)** 2nd Interval: **From 1 ft to 3 ft with 1 bag bentonite (#sacks and material)** 3rd Interval: **From 3 ft to 15 ft with 3 bags of sand (#sacks and material)** Method Used: **Mixed by hand** Cemented By: **Gilbert Robles** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Roddy Qualls Environmental Drilling 2790 Zion Hill Road Weatherford , TX 76086**
Driller License Number:	**52694**

Licensed Well Driller Signature:	**Gilbert M. Robles**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

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Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**10'**	**Dk brown silty clay**
10'	**15'**	**Tan clay**

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
2"	**New**	**PVC slotted screen**	**15 to 5**
2"	**New**	**PVC Riser**	**5 to 0**

STATE OF TEXAS WELL REPORT for Tracking #386624

Owner:	**City of Frisco**	Owner Well #:	**GP-MW-7**
Address:	**Frisco , TX**	Grid #:	**18-50-7**
Well Location:	**Cotton Gin Rd @ Legacy Frisco , TX**	Latitude:	**33° 08' 45" N**
Well County:	**Collin**	Longitude:	**096° 50' 53" W**
Elevation:	**No Data**	GPS Brand Used:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **11/19/2014** Completed: **11/19/2014**
Diameter of Hole:	Diameter: **6 in From Surface To 21.5 ft**
Drilling Method:	Other: **solid flights**
Borehole Completion:	Other: **20/40 silica sand**
Annular Seal Data:	1st Interval: **From 0 ft to 2 ft with cement 1 bag (#sacks and material)** 2nd Interval: **From 2 ft to 8 ft with chips 2 bags (#sacks and material)** 3rd Interval: **No Data** Method Used: **hand mix** Cemented By: **tss** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**total support Services inc** **3801 N. Capital of tx hwy 454** **austin , TX 78746**
Driller License Number:	**54611**
Licensed Well Driller Signature:	**brian kern**

Registered Driller Apprentice Signature:	**Chester Westbrook**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

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Texas Department of Licensing & Regulation
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Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-18 clay
18-21.5 shale

td 21.5 ft.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2 n pvc 0-10 riser
2 n pvc 10-21.5 screen

STATE OF TEXAS WELL REPORT for Tracking #386625

Owner:	**City of Frisco**	Owner Well #:	**GP-MW-8**
Address:	**Frisco , TX**	Grid #:	**18-50-7**
Well Location:	**Cotton Gin Rd @ Legacy Frisco , TX**	Latitude:	**33° 08' 45" N**
Well County:	**Collin**	Longitude:	**096° 50' 53" W**
Elevation:	**No Data**	GPS Brand Used:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **11/19/2014** Completed: **11/19/2014**
Diameter of Hole:	Diameter: **6 in From Surface To 21.5 ft**
Drilling Method:	Other: **solid flights**
Borehole Completion:	Other: **20/40 silica sand**
Annular Seal Data:	1st Interval: **From 0 ft to 2 ft with cement 1 bag (#sacks and material)** 2nd Interval: **From 2 ft to 8 ft with chips 2 bags (#sacks and material)** 3rd Interval: **No Data** Method Used: **hand mix** Cemented By: **tss** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**total support Services inc** **3801 N. Capital of tx hwy 454** **austin , TX 78746**
Driller License Number:	**54611**
Licensed Well Driller Signature:	**brian kern**

Registered Driller Apprentice Signature: **Chester Westbrook**

Apprentice Registration Number: **No Data**

Comments: **No Data**

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(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-18 clay
18-21.5 shale

td 21.5 ft.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2 n pvc 0-10 riser
2 n pvc 10-21.5 screen

STATE OF TEXAS WELL REPORT for Tracking #386626

Owner:	**City of Frisco**	Owner Well #:	**GP-MW-9**
Address:	**Frisco , TX**	Grid #:	**18-50-7**
Well Location:	**Cotton Gin Rd @ Legacy Frisco , TX**	Latitude:	**33° 08' 45" N**
Well County:	**Collin**	Longitude:	**096° 50' 53" W**
Elevation:	**No Data**	GPS Brand Used:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **11/18/2014** Completed: **11/18/2014**
Diameter of Hole:	Diameter: **6 in From Surface To 21.5 ft**
Drilling Method:	Other: **solid flights**
Borehole Completion:	Other: **20/40 silica sand**
Annular Seal Data:	1st Interval: **From 0 ft to 2 ft with cement 1 bag (#sacks and material)** 2nd Interval: **From 2 ft to 8 ft with chips 2 bags (#sacks and material)** 3rd Interval: **No Data** Method Used: **hand mix** Cemented By: **tss** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**total support Services inc** **3801 N. Capital of tx hwy 454** **austin , TX 78746**
Driller License Number:	**54611**
Licensed Well Driller Signature:	**brian kern**

Registered Driller Apprentice Signature:	**Chester Westbrook**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

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(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-18 clay
18-21.5 shale

td 21.5 ft.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2 n pvc 0-10 riser
2 n pvc 10-21.5 screen

STATE OF TEXAS WELL REPORT for Tracking #386428

Owner:	**City of Frisco**	Owner Well #:	**MW6H-h**
Address:	**6101 Frisco Square Blvd. Frisco , TX 75034**	Grid #:	**18-50-7**
Well Location:	**7275 Dallas Parkway Frisco , TX 75034**	Latitude:	**33° 08' 15" N**
Well County:	**Collin**	Longitude:	**096° 50' 42" W**
Elevation:	**No Data**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **12/16/2014** Completed: **12/16/2014**
Diameter of Hole:	Diameter: **6 in From Surface To 25 ft**
Drilling Method:	Other: **Flight auger**
Borehole Completion:	**No Data**
Annular Seal Data:	1st Interval: **From 0 ft to 2 ft with 1 bag concrete (#sacks and material)** 2nd Interval: **From 2 ft to 8 ft with 2 bgs bentonite (#sacks and material)** 3rd Interval: **From 8 ft to 25 ft with 4 bags of sand (#sacks and material)** Method Used: **Mixed by hand** Cemented By: **Gilbert Robles** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Roddy Qualls Environmental Drilling 2790 Zion Hill Road Weatherford , TX 76086**
Driller License Number:	**52694**

Licensed Well Driller Signature:	**Gilbert M. Robles**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

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(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 to 12' Dk brown silty clay
12' to 18' brown clay
18' to 25' Tan clay

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" New PVC slotted screen 25 to 10
2" New PVC Riser 10 to 0

STATE OF TEXAS WELL REPORT for Tracking #386429

Owner:	**City of Frisco**	Owner Well #:	**GP- MW-15**
Address:	**6101 Frisco Square Blvd. Frisco , TX 75034**	Grid #:	**18-50-7**
Well Location:	**7275 Dallas Parkway Frisco , TX 75034**	Latitude:	**33° 08' 15" N**
Well County:	**Collin**	Longitude:	**096° 50' 42" W**
Elevation:	**No Data**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **12/16/2014** Completed: **12/16/2014**
Diameter of Hole:	Diameter: **6 in From Surface To 25 ft**
Drilling Method:	Other: **Flight auger**
Borehole Completion:	**No Data**
Annular Seal Data:	1st Interval: **From 0 ft to 2 ft with 1 bag concrete (#sacks and material)** 2nd Interval: **From 2 ft to 8 ft with 2 bgs bentonite (#sacks and material)** 3rd Interval: **From 8 ft to 25 ft with 4 bags of sand (#sacks and material)** Method Used: **Mixed by hand** Cemented By: **Gilbert Robles** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Roddy Qualls Environmental Drilling 2790 Zion Hill Road Weatherford , TX 76086**
Driller License Number:	**52694**

Licensed Well Driller Signature:	**Gilbert M. Robles**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

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DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 to 12' Dk brown silty clay
12' to 18' brown clay
18' to 25' Tan clay

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" New PVC slotted screen 25 to 10
2" New PVC Riser 10 to 0

APPENDIX 9

DEVELOPMENT OF
TIER 2 SOIL-TO-GROUNDWATER PCLs

Surface and Subsurface Soil - ^{GW}Soil

Tier 2 Evaluation

Specify media to which tables apply X Surface soil ____ Subsurface soil

Specify if table is for on-site or off-site property X On-site ____ Off-site
Off-site land use(s) for purpose of PCL development[1]: ____ Residential ____ Commercial/industrial

	Soil bulk density ρ_b (g/cm^3)	Volumetric water content θ_{ws} (cm^3/cm^3)	Volumetric air content θ_{as} (cm^3/cm^3)	Fraction organic carbon foc (g/g)	Groundwater Darcy velocity U_{gw} (cm/year)	Aquifer thickness b_{gw} (m)	Ground-water gradient i (m/m)	Hydraulic conductivity K (m/day)	Average annual precipitation P (cm/yr)	Net infiltration rate I_f (cm/yr)	Saturated hydraulic conductivity of vadose zone soils K_{vs} (cm/s)
Tier 1 defaults	1.67	0.16	0.21	0.002	NA	NA	NA	NA	NA	NA	NA
Tier 2 values	1.67	0.16	0.21	0.002	NA	NA	NA	NA	NA	NA	NA

COC	Critical GW PCL (from Table 12A)[3]		Affected soil thickness L_1 (cm)	Depth from top of affected soil to gw table L_2 (cm)	Source area width parallel to gw flow W_s (m)	GW mixing zone thickness δ_{gw} (m)	Soil-leachate partition factor K_{sw} (mg/L/mg/kg)	Lateral dilution factor LDF	^{GW}Soil PCL (mg/kg)
	(mg/L)	pathway[2]							
Arsenic	0.01	$^{GW}GW_{Ing}$	30.48 (1 ft)	609.60 (20 ft)	NA	NA	0.033227218	10	60.19
Cadmium	0.005	$^{GW}GW_{Ing}$	30.48 (1 ft)	30.48 (1 ft)	NA	NA	0.002499401	10	20.00
Lead	0.015	$^{GW}GW_{Ing}$	30.48 (1 ft)	30.48 (1 ft)	NA	NA	0.000546419	10	274.51
Selenium	0.05	$^{GW}GW_{Ing}$	30.48 (1 ft)	609.60 (20 ft)	NA	NA	0.294480691	10	33.96

[1] Repeat the table if needed for different off-site land uses.
[2] Specify the pathway for the critical groundwater PCL ($^{GW}GW_{Ing}$, $^{GW}GW_{Class3}$, $^{Air}GW_{Inh\text{-}V}$, ecological PCL (eco), ^{SW}GW, etc.)
NA – Not Applicable
[3] COCs in surface soils were vertically delineated to MQLs or background levels and no groundwater was encountered in monitoring well GP-MW-7.

TABLE C-1

CALCULATION OF TIER 2 $^{GW}SOIL_{ING}$ PCL FOR ARSENIC
GRAND PARK SITE - PRAA 2, FRISCO, TEXAS

Tier 2 Formulas (From 30 TAC §350.75(b)(1).):

$$^{GW}Soil = \frac{(GWPCL \cdot LDF)}{K_{sw}} \cdot \frac{L_2}{L_1}$$

$$K_{sw}\left[\frac{(\text{mg/L} - \text{H}_2\text{O})}{(\text{mg/kg} - \text{soil})}\right] = \frac{\rho_b}{\theta_{ws} + K_d \rho_b + H'\theta_{as}}$$

DATA INPUTS			
Item	**Value**	**Unit**	**Source**
Sample Depth (in feet bgs)	0	Feet bgs	Site-Specific
L_1 - Thickness of Impacted Strata	1	Feet bgs	Site-Specific
Depth to GWBU	20	Feet bgs	Based on depth to water in GP-MW-15 of 24.24 feet btoc (20.24 bgs) on 2/26/2015.
L_2 - Distance from top of impacted strata to groundwater	20	Feet bgs	Based on depth to water in GP-MW-15 of 24.24 feet btoc (20.24 bgs) on 2/26/2015.
Conversion from feet to centimeters	30.48	cm/ft	
$^{GW}GW_{Ing}$ - Residential PCL for Arsenic in Class 1 or 2 Groundwater	0.01	mg/L	From TRRP Tier 1 PCL Table June 29, 2012.
LDF - Lateral Dilution Factor	10	unitless	Tier 1 default value from TAC Figure §350.75(b)(1), §350.75(c) and (d). Conservatively assumes 30-acre source area.
ρ_b - Soil bulk density	1.67	g/cm^3	Tier 1 Default provided in 30 TAC §350.75
θ_{as} - Volumetric air content of vadose zone soils	0.21	cm^3-a / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
θ_{ws} - Volumetric water content of vadose zone soils	0.16	cm^3-w / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
K_d - Soil water partition coefficient	30.00	L/kg	Tier 2 Default provided in 30 TAC §350.73(e)(1)(C) for soils with a pH of 7.4*.
H' - Henry's Law Constant	0	unitless	Tier 1 Default provided in 30 TAC §350.73(e)
K_{sw} - Soil-Leachate partition factor for COC	0.033227218	kg/L	Calculated Using Formula Provided Above

Tier 2 $^{GW}Soil_{Ing}$ PCL for Arsenic at the Site = 60.19 mg/Kg

Notes: bgs: below ground surface
mg/L: miligrams per liter
mg/Kg: miligrams per kilogram
L/Kg: liters per kilogram
KG/L: kilograms per liter
L_1 = The thickness of the impacted soil in centimeters.
L_2 = The depth from the top of the affected soil to the groundwater table.
* = 7.4 Is the average pH of 10 soil samples collected from PRAA 1.

TABLE C-2

CALCULATION OF TIER 2 $^{GW}SOIL_{ING}$ PCL FOR CADMIUM
GRAND PARK SITE - PRAA 2, FRISCO, TEXAS

Tier 2 Formulas (From 30 TAC §350.75(b)(1).):

$$^{GW}Soil = \frac{(GWPCL \cdot LDF)}{K_{sw}} \cdot \frac{L_2}{L_1}$$

$$K_{sw}\left[\frac{(\text{mg/L} - \text{H}_2\text{O})}{(\text{mg/kg} - \text{soil})}\right] = \frac{\rho_b}{\theta_{ws} + K_d \rho_b + H'\theta_{as}}$$

DATA INPUTS			
Item	**Value**	**Unit**	**Source**
Sample Depth (in feet bgs)	0	Feet bgs	Site-Specific
L_1 - Thickness of Impacted Strata	1	Feet bgs	Site-Specific
Depth to GWBU	1	Feet bgs	Assumes cadmium contaminated soil in direct contact with groundwater.
L_2 - Distance from top of impacted strata to groundwater	1	Feet bgs	Assumes cadmium contaminated soil in direct contact with groundwater.
Conversion from feet to centimeters	30.48	cm/ft	
$^{GW}GW_{Ing}$ - Residential PCL for Cadmium in Class 1 or 2 Groundwater	0.005	mg/L	From TRRP Tier 1 PCL Table June 29, 2012.
LDF - Lateral Dilution Factor	10	unitless	Tier 1 default value from TAC Figure §350.75(b)(1), §350.75(c) and (d). Conservatively assumes 30-acre source area.
ρ_b - Soil bulk density	1.67	g/cm^3	Tier 1 Default provided in 30 TAC §350.75
θ_{as} - Volumetric air content of vadose zone soils	0.21	cm^3-a / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
θ_{ws} - Volumetric water content of vadose zone soils	0.16	cm^3-w / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
K_d - Soil water partition coefficient	400.00	L/kg	Tier 2 Default provided in 30 TAC §350.73(e)(1)(C) for soils with a pH of 7.4.
H' - Henry's Law Constant	0	unitless	Tier 1 Default provided in 30 TAC §350.73(e)
K_{sw} - Soil-Leachate partition factor for COC	0.002499401	kg/L	Calculated Using Formula Provided Above

Tier 2 $^{GW}Soil_{Ing}$ PCL for Cadmium at the Site = 20.00 mg/Kg

Notes: bgs: below ground surface
mg/L: miligrams per liter
mg/Kg: miligrams per kilogram
L/Kg: liters per kilogram
KG/L: kilograms per liter
L_1 = The thickness of the impacted soil in centimeters.
L_2 = The depth from the top of the affected soil to the groundwater table.
* = 7.4 Is the average pH of 10 soil samples collected from PRAA 1.

TABLE C-3

CALCULATION OF TIER 2 $^{GW}SOIL_{ING}$ PCL FOR LEAD
GRAND PARK SITE - PRAA 2, FRISCO, TEXAS

Tier 2 Formulas (From 30 TAC §350.75(b)(1).):

$$^{GW}Soil = \frac{(GWPCL \cdot LDF)}{K_{sw}} \cdot \frac{L_2}{L_1}$$

$$K_{sw}\left[\frac{(\text{mg/L} - \text{H}_2\text{O})}{(\text{mg/kg} - \text{soil})}\right] = \frac{\rho_b}{\theta_{ws} + K_d \rho_b + H'\theta_{as}}$$

DATA INPUTS			
Item	**Value**	**Unit**	**Source**
Sample Depth (in feet bgs)	0	Feet bgs	Site-Specific
L_1 - Thickness of Impacted Strata	1	Feet bgs	Site-Specific
Depth to GWBU	1	Feet bgs	Assumes lead contaminated soil in direct contact with groundwater.
L_2 - Distance from top of impacted strata to groundwater	1	Feet bgs	Assumes lead contaminated soil in direct contact with groundwater.
Conversion from feet to centimeters	30.48	cm/ft	
$^{GW}GW_{Ing}$ - Residential PCL for Lead in Class 1 or 2 Groundwater	0.015	mg/L	From TRRP Tier 1 PCL Table June 29, 2012.
LDF - Lateral Dilution Factor	10	unitless	Tier 1 default value from TAC Figure §350.75(b)(1), §350.75(c) and (d). Conservatively assumes 30-acre source area.
ρ_b - Soil bulk density	1.67	g/cm^3	Tier 1 Default provided in 30 TAC §350.75
θ_{as} - Volumetric air content of vadose zone soils	0.21	cm^3-a / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
θ_{ws} - Volumetric water content of vadose zone soils	0.16	cm^3-w / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
K_d - Soil water partition coefficient	1830.00	L/kg	Tier 2 Default of 1830 for clayey soils with pH between 5.0 and 9.0* as provided by TCEQ in 30 TAC §350.73(e)(1)(A).
H' - Henry's Law Constant	0	unitless	Tier 1 Default provided in 30 TAC §350.73(e)
K_{sw} - Soil-Leachate partition factor for COC	0.000546419	kg/L	Calculated Using Formula Provided Above

Tier 2 $^{GW}Soil_{Ing}$ PCL for Lead at the Site = 274.51 mg/Kg

Notes: bgs: below ground surface
mg/L: miligrams per liter
mg/Kg: miligrams per kilogram
L/Kg: liters per kilogram
KG/L: kilograms per liter
L_1 = The thickness of the impacted soil in centimeters.
L_2 = The depth from the top of the affected soil to the groundwater table.
* = 7.4 Is the average pH of 10 soil samples collected from PRAA 1.

TABLE C-4

CALCULATION OF TIER 2 $^{GW}SOIL_{ING}$ PCL FOR SELENIUM
GRAND PARK SITE - PRAA 2, FRISCO, TEXAS

Tier 2 Formulas (From 30 TAC §350.75(b)(1).):

$$^{GW}Soil = \frac{(GWPCL \cdot LDF)}{K_{sw}} \cdot \frac{L_2}{L_1}$$

$$K_{sw}\left[\frac{(\text{mg/L} - H_2O)}{(\text{mg/kg} - \text{soil})}\right] = \frac{\rho_b}{\theta_{ws} + K_d \rho_b + H'\theta_{as}}$$

DATA INPUTS			
Item	**Value**	**Unit**	**Source**
Sample Depth (in feet bgs)	0	Feet bgs	Site-Specific
L_1 - Thickness of Impacted Strata	1	Feet bgs	Site-Specific
Depth to GWBU	20	Feet bgs	Based on depth to water in GP-MW-15 of 24.24 feet btoc (20.24 bgs) on 2/26/2015.
L_2 - Distance from top of impacted strata to groundwater	20	Feet bgs	Based on depth to water in GP-MW-15 of 24.24 feet btoc (20.24 bgs) on 2/26/2015.
Conversion from feet to centimeters	30.48	cm/ft	
$^{GW}GW_{Ing}$ - Residential PCL for Selenium in Class 1 or 2 Groundwater	0.05	mg/L	From TRRP Tier 1 PCL Table June 29, 2012.
LDF - Lateral Dilution Factor	10	unitless	Tier 1 default value from TAC Figure §350.75(b)(1), §350.75(c) and (d). Conservatively assumes 30-acre source area.
ρ_b - Soil bulk density	1.67	g/cm^3	Tier 1 Default provided in 30 TAC §350.75
θ_{as} - Volumetric air content of vadose zone soils	0.21	cm^3-a / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
θ_{ws} - Volumetric water content of vadose zone soils	0.16	cm^3-w / cm^3 -s	Tier 1 Default provided in 30 TAC §350.75
K_d - Soil water partition coefficient	3.30	L/kg	Tier 2 Default provided in 30 TAC §350.73(e)(1)(C) for soils with a pH of 7.4*.
H' - Henry's Law Constant	0	unitless	Tier 1 Default provided in 30 TAC §350.73(e)
K_{sw} - Soil-Leachate partition factor for COC	0.294480691	kg/L	Calculated Using Formula Provided Above

Tier 2 $^{GW}Soil_{Ing}$ PCL for Selenium at the Site = 33.96 mg/Kg

Notes: bgs: below ground surface
mg/L: miligrams per liter
mg/Kg: miligrams per kilogram
L/Kg: liters per kilogram
KG/L: kilograms per liter
L_1 = The thickness of the impacted soil.
L_2 = The depth from the top of the affected soil to the groundwater table.
* = 7.4 Is the average pH of 10 soil samples collected from PRAA 1.

TABLE C-5
pH VALUES FOR 10 SAMPLES OBTAINED FROM PRAA 1
GRAND PARK SITE - PRAA 2, FRISCO, TEXAS

Sample ID	Laboratory ID		Date Collected	pH
2M-e 0.5-1'	14-06-0342	1	6/3/2014	6.85
1M-h 0.5-1'	14-06-0342	3	6/3/2014	7.09
3L-a 0.5-1'	14-06-0342	5	6/3/2014	7.41
2L-e 0.5-1'	14-06-0342	6	6/3/2014	7.39
1L-h 0.5-1'	14-06-0342	7	6/3/2014	7.42
1J-e 0.5-1'	14-06-0342	8	6/3/2014	7.39
1K-h 0.5-1'	14-06-0342	9	6/3/2014	7.47
2J-b 0.5-1'	14-06-0342	10	6/3/2014	7.55
3I-c 0.5-1'	14-06-0342	11	6/3/2014	7.62
4I-e 0.5-1'	14-06-0342	12	6/3/2014	7.59
			Average:	**7.378**

APPENDIX 10

LABORATORY DATA PACKAGES
AND
DATA USABILITY SUMMARY

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DATA USABILITY SUMMARY

GRAND PARK SITE – LAB REPORT 14-09-0479

JANUARY 2015

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1.0 INTRODUCTION

Cook-Joyce, Inc. (CJI) reviewed one analytical data package for samples of environmental media collected at the Grand Park Site in Frisco, Texas. Work at the site was done on behalf of the City of Frisco, which owns the property being evaluated for potential impacts. CJI collected the subject samples in September 2014. All analyses were performed in accordance with the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) and meet Texas Risk Reduction Program (TRRP) requirements. This Data Usability Summary (DUS) was prepared to document the usability of the data in supporting site closure under TRRP.

The Texas Commission on Environmental Quality (TCEQ) document, *Review and Reporting of COC Concentration Data (RG-366/TRRP-13)*, describes the procedures for reviewing and reporting data to ensure they are of sufficient and documented quality, as required by 30 §TAC 350.54. These procedures embody the default objectives for levels of quality control, documentation, and data review that apply to all data generated on or after 1 February 2003 for TRRP compliance, unless alternative project objectives are established prior to sample collection. CJI reviewed the data described herein for conformance with TRRP-13 criteria and any project-specific quality objectives. Any derivations from these criteria are discussed in this DUS.

The following laboratory submittals and field data were examined:

- The laboratory reportable data as identified by TRRP-13;
- The laboratory review checklists (LRCs), associated exception reports and supporting data;
- The laboratory electronic data deliverable (EDD); and
- The field notes from the sampling events.

Samples were analyzed by Calscience, and results were provided to CJI on 18 September 2014 in analytical package 14-09-0479. At the time of data analysis, Calscience was NELAC accredited under the TCEQ's Texas Laboratory Accreditation Program (TLAP) for subject matrices, methods, and analytical parameters, except as may be qualified in this DUS. A copy of Calscience's TLAP certification that is coincident with the sample analyses addressed in this DUS is provided as Attachment A to this Data Usability Summary (DUS).

2.0 INTENDED USE OF DATA

The Grand Park site (the Site) is comprised of currently cultivated farmland, unused pasture, and surface water bodies (Stewart Creek and its tributaries). Grand Park is enrolled in the Voluntary Cleanup Program (VCP) as site number 2592 to evaluate and remediate impacts to the Site from a neighboring and upstream property known as the former Exide Battery Recycling Facility. Impacts that may have resulted from the historical uses of the Site are also being evaluated.

As documented in Section 1 of this DUS and in Table 1, CJI collected 153 discrete soil samples and 8 field duplicates of those samples across portions of the Grand Park Site in September 2014. The following analyses were requested for chemicals of concern (COCs):

- ASTM D-2216 (M) – Moisture content of a solid.
- EPA 6020 – Inductively coupled plasma-mass spectrometry of a solid.

Specific metals analyzed under EPA 6020 included arsenic, cadmium, lead, and selenium. All of these analytes and methods are recognized fields of accreditation for solid and chemical materials under TCEQ's NELAC certification of Calscience.

2.1 DATA REVIEWED

Table 1 summarizes the sample analyses that were reviewed for this DUS and provides the field identification number of each sample, cross referenced to the laboratory identification number, sample collection date, sample type, analysis performed, and quality control batch numbers. The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and, when provided, case narratives, all of which were included in this review. The LRCs, associated ERs, and analytical reports received from the laboratory are provided in Attachment B to this DUS.

Field data were reviewed to verify that appropriate procedures were used during collection of samples. All reportable data to be provided by the analytical laboratory, as identified in TRRP-13, were reviewed for completeness and conformance with quantitative QC criteria, where applicable, including preservation/holding times, instrument calibrations, blank recovery, internal standard and surrogate recoveries, laboratory control sample (LCS) results and reproducibilities, matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities, and field duplicate precision.

2.2 PROJECT OBJECTIVES

The overall project objective is to achieve closure of the Grand Park Site through the TCEQ. This DUS evaluates the quality of analytical data provided in the laboratory package identified in Section 1.0 and Table 1. These data represent a discrete portion of the Site and will be used to identify and delineate any environmental impacts in this portion of the Site.

Data review was conducted to identify any potential impacts on sample analytical results as a result of field and/or analytical laboratory activities and ensure that the data are suitable for its use in accordance with TRRP. Quantitative review criteria for each QC parameter were based on laboratory procedure and analytical method requirements and/or TRRP-13 guidance, and these criteria are documented in the summary tables included herein and in the QC summary report section of the analytical data report(s) in Appendix B. No project-specific review criteria were necessary or developed for this project.

3.0 DATA REVIEW RESULTS

3.1 GENERAL DATA PACKAGE REVIEW

Laboratory reports were evaluated for consistency of sample identification labels and laboratory analysis as listed on the COC. In addition, they were reviewed against the TRRP-13 requirements. The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDDs contain all sample results in an acceptable format. The hardcopy laboratory reports and the EDDs include a result, method detection limit (MDL), adjusted method quantitation limit (MQL), which is also referred to as the sample quantitation limit (SQL)[1], and the sample-specific detection limit (SDL)[2] for each analysis. The SDL is that value below which the COC cannot be reliably detected.

In accordance with TRRP requirements, a laboratory defines "non-detect" results as less than the value of the SDL.[3] "Estimated" results are typically "J" qualified by the laboratory; results are estimated rather than quantified when a compound is determined to be present at a concentration less than the SQL, but greater than the SDL.

3.1.1 Appropriate Reporting

Results for metals are reported in milligrams per kilogram (mg/Kg) and have been dry weight corrected. Non-detects are reported using the SDL as specified in TRRP, and detects between the SDL and the SQL are reported as estimated concentrations with a laboratory J-flag.

None of the samples required dilution due to the high concentration of an analyte or matrix interferences. There were no elevated reporting limits for "non-detects".

---

[1] The SQL represents the MQL adjusted for moisture and sample size. The MQL is defined in §350.4(54) as "The lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory."

[2] The SDL is defined as the MDL adjusted to reflect sample-specific factors such as sample characteristics, sample preparation, and analytical adjustments. The MDL is "the minimum concentration of a COC the laboratory would measure and report with 99% confidence that the analyte concentration is greater than zero and is determined for each COC in a reagent matrix."

[3] Certain laboratories may assign a "U" qualifier to non-detect results. For clarity, CJI does not include laboratory assigned "U" qualifiers in our data tables. Instead, "U" qualified data are represented as "<" the SDL.

3.1.2 Chain-of-Custody Procedures

Proper sample custody procedures confirm that the integrity of the samples was maintained. All three coolers containing the samples addressed in this report were shipped to Calscience following these procedures. However, a discrepancy between the chain-of-custody (COC) information and the samples received was identified as documented in the laboratory report. This discrepancy, an omission of the final continuation page of the COC, was immediately resolved through dialog between CJI and Calscience. Field personnel were made aware of this discrepancy, and proper procedures for sample labeling, packing, and sample custody preparation were reviewed and reinforced. All samples were labeled correctly, and the appropriate analytical tests were performed by the laboratory.

3.1.3 Holding Times and Preservation

Samples were collected and placed into laboratory supplied containers. After collection in laboratory supplied containers, all samples were immediately placed in an ice-filled cooler and maintained on ice until their receipt by the analytical laboratory. The laboratory measured the temperature blank in each cooler upon its receipt; none of the data were qualified based on receiving temperature. CJI also compared the date of sample collection to the date of sample analysis to identify any samples that did not meet sample holding requirements. Based on our review, all samples reviewed for this DUS were analyzed within their appropriate holding times. Preservation and hold time requirements are provided in Table 2.

3.1.4 Blanks

Field and trip blanks were not collected or analyzed during sampling activities associated with this DUS. Samples were collected using single-use, disposable hand trowels, therefore, equipment blanks were not warranted.

3.1.5 Quality Control Sample Spikes

TRRP-13 requires that the laboratory's quality control samples, such as laboratory control samples (LCSs), laboratory control sample duplicates (LCSDs), matrix spikes (MSs), and matrix spike duplicates (MSDs), be spiked with all of the analytes reported by the laboratory. An exception to this rule is when an analyte is comprised of multiple compounds. Polychlorinated biphenyls (PCBs) are an example for this type of analyte.

Based on CJI's review, the quality control samples for total metals were spiked with all of the analytes reported by the laboratory.

3.2 ANALYTICAL RESULTS

Laboratory analyses are divided into QC batches, in which samples are prepared for analysis (e.g. extractions). Each QC batch includes appropriate QC samples required for analysis – such as matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples (LCS). This information was provided by the laboratory in the analytical packages. Each sample ID and analysis performed is listed with its associated QC batch in Table 1 of this DUS.

Each qualified analyte and sample qualification rationale is listed in Table 3 of this DUS. Further details on data qualifications are discussed in the following subsections.

3.2.1 Calibrations

According to the LRCs, initial and continuing calibration data met method requirements in all cases. No data were qualified due to initial or continuing calibration issues.

3.2.2 Lab Blanks

Laboratory QC results and provided LRCs were reviewed to identify any COC concentrations exceeding the MDL in required method blanks. There were no samples in which detection of blank constituents resulted in sample qualification.

3.2.3 Surrogate Recoveries

When applicable, surrogate recovery data are used to evaluate potential bias in the analytical results for each sample that could have been introduced by the preparatory procedures and/or the analysis. Surrogates are typically used in organic analyses and were not used for the metal analyses evaluated in this DUS. Table 4 lists any data qualifications based on surrogate recoveries.

3.2.4 Laboratory Control Samples/Laboratory Control Sample Duplicates

Laboratory Control Samples (LCSs) are generated to evaluate the accuracy of the analytical method and the laboratory's performance. Laboratory Control Sample Duplicates (LCSDs) may also be analyzed to evaluate the laboratory's precision.

If LCS recoveries are above specifications, then results generally are estimated high (JH). If recoveries are below specifications, then results generally are qualified as estimated low (JL). If recoveries are below 30% for metals or 10% for organics, then results are estimated low or rejected (R).

All of the analytes reported by the laboratory were spiked in the LCSs. According to the LRCs and based on the data provided in the reports and EDDs, the recoveries of all of the spiked compounds were within the recovery control limits developed by the laboratory. In addition to the comparison to the laboratory specified control limits, CJI also compared the data to TRRP-13 review standards (a standardized control limit of 70-130% for metals). No data was qualified due to LCS percent recoveries when compared to TRRP-13 control limits. Table 5 lists any data qualifications based on LCS recoveries.

One LCSD sample was analyzed by Calscience for this report and there was no data qualification based on LCS/LCSD relative percent differences.

3.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix Spike/Matrix Spike Duplicates (MS/MSDs) were used to evaluate the impact of the sample matrix on analytical recoveries. MS/MSD recoveries were used to assist in sample qualification in connection with other data quality indicators. In general, sample results were not qualified on MS/MSD recovery data alone. LCS recoveries were also checked, and these were used to support MS/MSD data qualification. In cases where no other precision data could be evaluated (i.e. the absence of field duplicate samples), the data was qualified based on MS/MSD reproducibilities alone.

MS/MSD recoveries were compared to both laboratory control limits and TRRP-13 review criteria for metals (70% - 130%, but not less than 30%). MS/MSD relative percent differences were also compared to both laboratory control limits and TRRP-13 review criteria (acceptable within 30% for metals).

MS/MSD Spike Accuracy

MS/MSD recoveries were typically reported within acceptance criteria in the data packages reviewed for this DUS. Table 6A lists any data qualifications based on MS/MSD recoveries.

MS/MSD recoveries outside control limits and the reasoning behind data qualification or non-qualification based on these recoveries are discussed below.

- For batch 140910S09, the MSD taken from sample 2D-d for arsenic had a recovery that was slightly below the laboratory control limit but was within TRRP-13 review criteria. The associated LCS recovery for arsenic met laboratory control limits. Therefore, no data are qualified based on this MSD recovery.

- For batch 140910L11, the MS/MSD taken from sample 3G-c for arsenic, cadmium, and lead had recoveries that were above laboratory control limits, and the arsenic and lead recoveries were above TRRP-13 review criteria specified above. Cadmium recoveries met TRRP-13 review criteria. Associated LCS recoveries for these constituents met laboratory control limits. Therefore, no data are qualified based on these MS/MSD recoveries.

- MS/MSD recoveries were acceptable for all other metals analyses.

MS/MSD Spike Precision

MS/MSD reproducibilities were reported within acceptance criteria in the data packages reviewed for this DUS. MS/MSD relative percent differences (RPDs) were compared to both laboratory control limits and TRRP-13 review criteria. There were no sample qualifications based on MS/MSD reproducibilities. Table 6B lists any data qualifications based on MS/MSD RPDs.

3.2.6 Post Digestion Spikes

Post digestion spikes (PDSs) were performed for metals analyses in each data package. All PDS recoveries were within laboratory (75%-125%) and TRRP-13 (70%-130%) control limits, except as noted below.

- For batch 140910S09, the PDS taken from sample 2D-d for arsenic had a percent recovery that was below laboratory control limits, and only slightly below the TRRP-13 review criteria. The associated LCS recovery for arsenic was within control limits, therefore, there are no data qualifications of arsenic based on PDS recoveries.

3.2.7 Detectability Check Sample

A detectability check sample (DCS) is a reagent matrix spiked by the laboratory with analytes near, or within two or three times, the calculated MDL and carried through the sample preparation procedures for the analysis. DCSs are used to test the lab's ability to detect analytes concentrations near the MQL. DCSs were not performed for the subject data. Calscience's MDLs are adjusted and supported by the analysis of annual MDL/RL verifications per NELAC requirements. Some of the MDLs (including those for the EPA 6020 Metals) are also supported by quarterly LOD/LOQ verifications per Department of Defense requirements.

3.2.8 Laboratory Duplicates

Duplicate analysis for moisture content was performed on 10 samples analyzed for this project. The RPD for the result of the duplicate analysis when compared with the original met the laboratory's control limits of 0-10%. No data are qualified based on laboratory duplicate data.

3.2.9 Adequacy of MQLs and SDLs

MQLs and, where applicable, SDLs were compared to the constituent specific, critical protective concentration limits (PCLs) for a residential site with an affected property that is between 0.5 and 30 acres in size (or the background values, if greater than the critical PCLs) to evaluate whether the laboratory was able to achieve sufficiently low limits. The critical PCLs/background values comprise the assessment targets and represent the Levels of Required Performance (LORPs).

These comparisons were primarily made because sample specific interferences or elevated COC concentrations may affect the laboratory's ability to detect or quantify a COC below the LORP. In addition, concentrations of certain chemical parameters in environmental media cannot be quantified using currently-available analytical technologies.

All MQLs in the data packages addressed herein were below their respective LORPs for the requested analytes.

3.2.10 Field Precision

Field duplicate precision was reviewed in sample sets where they were obtained. Field duplicate samples were collected at the locations listed below. Analytical results of the original sample and the duplicate sample are compared in Table 7.

- 1B-b / 140902 Dup-1
- 1G-e / 140902 Dup-2
- 1C-g / 140903 DUP-1
- 2F-a / 140903 DUP-2
- 2D-d / 140903 DUP-3
- 2E-g / 140903 DUP-4
- 3E-b / 140904 DUP-1
- 3C-f / 140904 DUP-2

Reproducibility is calculated by dividing the difference of the two duplicate analytical results (R1 – R2) by the average of the two results, then multiplying by 100 to obtain a percentage, as shown in the equation below. The acceptable range of reproducibility for metal analyses is 0 to 50% and for organic analyses is 0 to 40%.

$$\text{Reproducibility} = \frac{[R1 - R2]}{\left[(R1 + R2)/2\right]} \times 100$$

A comparison of the reproducibilities for the sample/duplicate sets described above is provided in Table 7. Based on the comparisons provided in Table 7, all of the reproducibilities for sample / field duplicate pairs are acceptable except as noted below.

The RPD for arsenic between samples 3E-b/140904 DUP-1 and 3C-f/140904 DUP-2 were outside of the acceptable range. Based on this, arsenic has been flagged with a J for samples 3E-b and 3C-f.

3.3 FIELD PROCEDURES/RECORDS

Samples were collected according to CJI's standard operating procedures (SOPs). Field notes documenting sample collection activities were also reviewed. No data qualification was required based on field procedures or field records.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In general, the data quelity was good. Critical samples collected for comparison to risk based PCLs to identify any exceedances or trends were usable and no data gaps were identified. Any specific data quality issues are identified in the text of this document.

To address the issues identified during data review recommendations for future monitoring at this site include:

- MS/MSDs should continue to be analyzed on samples from this Site so that matrix effects can be evaluated.
- In general, analytical results from all reviewed samples are usable for their intended purpose, and sampling should continue as conducted.

Kevin Lonseth		1/27/2015
Data Reviewer	Signature	Date

TABLES

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
9/2/2014	140902 Dup-1	14-09-0479	37	Soil	FD	X	140910L05	X	E0909MOIB7
9/2/2014	140902 Dup-2	14-09-0479	38	Soil	FD	X	140910L05	X	E0909MOIB7
9/3/2014	140903 DUP-1	14-09-0479	102	Soil	FD	X	140910L10	X	E0910MOIB4
9/3/2014	140903 DUP-2	14-09-0479	103	Soil	FD	X	140910L10	X	E0910MOIB4
9/3/2014	140903 DUP-3	14-09-0479	104	Soil	FD	X	140910L10	X	E0910MOIB4
9/3/2014	140903 DUP-4	14-09-0479	105	Soil	FD	X	140910L10	X	E0910MOIB4
9/4/2014	140904 DUP-1	14-09-0479	118	Soil	FD	X	140910L10	X	E0910MOIB4
9/4/2014	140904 DUP-2	14-09-0479	143	Soil	FD	X	140910L12	X	E0910MOIB6
9/2/2014	1B-a	14-09-0479	1	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1B-b	14-09-0479	2	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1B-c	14-09-0479	3	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1B-d	14-09-0479	36	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1B-e	14-09-0479	35	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1B-f	14-09-0479	34	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/3/2014	1B-g	14-09-0479	39	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/3/2014	1B-h	14-09-0479	40	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/3/2014	1B-i	14-09-0479	41	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/2/2014	1C-a	14-09-0479	4	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1C-b	14-09-0479	5	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1C-c	14-09-0479	6	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1C-d	14-09-0479	33	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1C-e	14-09-0479	32	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1C-f	14-09-0479	31	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/3/2014	1C-g	14-09-0479	42	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1C-h	14-09-0479	43	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1C-i	14-09-0479	44	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/2/2014	1D-a	14-09-0479	7	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1D-b	14-09-0479	8	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1D-c	14-09-0479	9	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1D-d	14-09-0479	30	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1D-e	14-09-0479	29	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1D-f	14-09-0479	28	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/3/2014	1D-g	14-09-0479	45	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1D-h	14-09-0479	46	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1D-i	14-09-0479	47	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/2/2014	1E-a	14-09-0479	10	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1E-b	14-09-0479	11	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1E-c	14-09-0479	12	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1E-d	14-09-0479	27	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1E-e	14-09-0479	26	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1E-f	14-09-0479	25	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/3/2014	1E-g	14-09-0479	48	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1E-h	14-09-0479	49	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1E-i	14-09-0479	50	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/2/2014	1F-a	14-09-0479	13	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1F-b	14-09-0479	14	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1F-c	14-09-0479	15	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1F-d	14-09-0479	24	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1F-e	14-09-0479	23	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1F-f	14-09-0479	22	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/3/2014	1F-g	14-09-0479	51	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1F-h	14-09-0479	52	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1F-i	14-09-0479	53	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/2/2014	1G-a	14-09-0479	16	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1G-b	14-09-0479	17	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1G-c	14-09-0479	18	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1G-d	14-09-0479	21	Soil	Inv.	X	140910L05	X	E0909MOIB7
9/2/2014	1G-e	14-09-0479	20	Soil	Inv.	X	140910L04	X	E0909MOIB6
9/2/2014	1G-f	14-09-0479	19	Soil	Inv.	X	140910L04	X	E0909MOIB6

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LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
9/3/2014	1G-g	14-09-0479	54	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1G-h	14-09-0479	55	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	1G-i	14-09-0479	56	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	2B-a	14-09-0479	74	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2B-b	14-09-0479	73	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2B-c	14-09-0479	72	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2B-d	14-09-0479	75	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2B-e	14-09-0479	76	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2B-f	14-09-0479	77	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/4/2014	2B-g	14-09-0479	150	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	2B-h	14-09-0479	151	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	2B-i	14-09-0479	152	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/3/2014	2C-a	14-09-0479	71	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2C-b	14-09-0479	70	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2C-c	14-09-0479	69	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2C-d	14-09-0479	78	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2C-e	14-09-0479	79	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2C-f	14-09-0479	80	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/4/2014	2C-g	14-09-0479	153	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	2C-h	14-09-0479	154	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	2C-i	14-09-0479	155	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/3/2014	2D-a	14-09-0479	68	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2D-b	14-09-0479	67	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2D-c	14-09-0479	66	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2D-d	14-09-0479	81	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2D-e	14-09-0479	82	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2D-f	14-09-0479	83	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/4/2014	2D-g	14-09-0479	156	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	2D-h	14-09-0479	157	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	2D-i	14-09-0479	158	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/3/2014	2E-a	14-09-0479	65	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2E-b	14-09-0479	64	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2E-c	14-09-0479	63	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2E-d	14-09-0479	84	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2E-e	14-09-0479	85	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2E-f	14-09-0479	86	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2E-g	14-09-0479	101	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/3/2014	2E-h	14-09-0479	100	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2E-i	14-09-0479	99	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2F-a	14-09-0479	62	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2F-b	14-09-0479	61	Soil	Inv.	X	140910L07	X	E0910MOIB2
9/3/2014	2F-c	14-09-0479	60	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	2F-d	14-09-0479	87	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2F-e	14-09-0479	88	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2F-f	14-09-0479	89	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2F-g	14-09-0479	98	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2F-h	14-09-0479	97	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2F-i	14-09-0479	96	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2G-a	14-09-0479	59	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	2G-b	14-09-0479	58	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	2G-c	14-09-0479	57	Soil	Inv.	X	140910L06	X	E0910MOIB1
9/3/2014	2G-d	14-09-0479	90	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2G-e	14-09-0479	91	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2G-f	14-09-0479	92	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2G-g	14-09-0479	95	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2G-h	14-09-0479	94	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/3/2014	2G-i	14-09-0479	93	Soil	Inv.	X	140910L09	X	E0910MOIB3
9/4/2014	3B-a	14-09-0479	159	Soil	Inv.	X	140910L12	X	E0910MOIB6

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LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
9/4/2014	3B-b	14-09-0479	160	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3B-c	14-09-0479	161	Soil	Inv.	X	140910L01	X	E0909MOIB4
9/4/2014	3B-d	14-09-0479	139	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3B-e	14-09-0479	138	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3B-f	14-09-0479	137	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3B-g	14-09-0479	140	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3B-h	14-09-0479	141	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3B-i	14-09-0479	142	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3C-a	14-09-0479	106	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3C-b	14-09-0479	107	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3C-c	14-09-0479	108	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3C-d	14-09-0479	136	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3C-e	14-09-0479	135	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3C-f	14-09-0479	134	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3C-g	14-09-0479	144	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3C-h	14-09-0479	145	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3C-i	14-09-0479	146	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3D-a	14-09-0479	109	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3D-b	14-09-0479	110	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3D-c	14-09-0479	111	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3D-d	14-09-0479	133	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3D-e	14-09-0479	132	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3D-f	14-09-0479	131	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3D-g	14-09-0479	147	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3D-h	14-09-0479	148	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3D-i	14-09-0479	149	Soil	Inv.	X	140910L12	X	E0910MOIB6
9/4/2014	3E-a	14-09-0479	112	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3E-b	14-09-0479	113	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3E-c	14-09-0479	114	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3E-d	14-09-0479	130	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3E-e	14-09-0479	129	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3E-f	14-09-0479	128	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3F-a	14-09-0479	115	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3F-b	14-09-0479	116	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3F-c	14-09-0479	117	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3F-d	14-09-0479	127	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3F-e	14-09-0479	126	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3F-f	14-09-0479	125	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3G-a	14-09-0479	119	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3G-b	14-09-0479	120	Soil	Inv.	X	140910L10	X	E0910MOIB4
9/4/2014	3G-c	14-09-0479	121	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3G-d	14-09-0479	124	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3G-e	14-09-0479	123	Soil	Inv.	X	140910L11	X	E0910MOIB5
9/4/2014	3G-f	14-09-0479	122	Soil	Inv.	X	140910L11	X	E0910MOIB5
	Laboratory Control Sample Duplicate	14-09-0479	609	Soil	LCD	X	140910L01		
	Laboratory Control Sample	14-09-0479	609	Soil	LCS	X	140910L01		
	Laboratory Control Sample	14-09-0479	601	Soil	LCS	X	140910L04		
	Laboratory Control Sample	14-09-0479	602	Soil	LCS	X	140910L05		
	Laboratory Control Sample	14-09-0479	603	Soil	LCS	X	140910L06		
	Laboratory Control Sample	14-09-0479	604	Soil	LCS	X	140910L07		
	Laboratory Control Sample	14-09-0479	605	Soil	LCS	X	140910L09		
	Laboratory Control Sample	14-09-0479	606	Soil	LCS	X	140910L10		
	Laboratory Control Sample	14-09-0479	607	Soil	LCS	X	140910L11		
	Laboratory Control Sample	14-09-0479	608	Soil	LCS	X	140910L12		
	Method Blank	14-09-0479	609	Soil	MB	X	140910L01		
	Method Blank	14-09-0479	601	Soil	MB	X	140910L04		
	Method Blank	14-09-0479	602	Soil	MB	X	140910L05		
	Method Blank	14-09-0479	603	Soil	MB	X	140910L06		

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
	Method Blank	14-09-0479	604	Soil	MB	X	140910L07		
	Method Blank	14-09-0479	605	Soil	MB	X	140910L09		
	Method Blank	14-09-0479	606	Soil	MB	X	140910L10		
	Method Blank	14-09-0479	607	Soil	MB	X	140910L11		
	Method Blank	14-09-0479	608	Soil	MB	X	140910L12		
	Method Blank (moisture)	14-09-0479	4761	Soil	MB			X	E0909MOIB4
	Method Blank (moisture)	14-09-0479	4770	Soil	MB			X	E0909MOIB6
	Method Blank (moisture)	14-09-0479	4771	Soil	MB			X	E0909MOIB7
	Method Blank (moisture)	14-09-0479	4772	Soil	MB			X	E0910MOIB1
	Method Blank (moisture)	14-09-0479	4773	Soil	MB			X	E0910MOIB2
	Method Blank (moisture)	14-09-0479	4774	Soil	MB			X	E0910MOIB3
	Method Blank (moisture)	14-09-0479	4775	Soil	MB			X	E0910MOIB4
	Method Blank (moisture)	14-09-0479	4776	Soil	MB			X	E0910MOIB5
	Method Blank (moisture)	14-09-0479	4777	Soil	MB			X	E0910MOIB6
9/2/2014	1B-a	14-09-0479	1	Soil	MS	X	140910L04		
9/3/2014	1B-i	14-09-0479	41	Soil	MS	X	140910L06		
9/2/2014	1G-d	14-09-0479	21	Soil	MS	X	140910L05		
9/3/2014	2D-d	14-09-0479	81	Soil	MS	X	140910L09		
9/3/2014	2E-g	14-09-0479	101	Soil	MS	X	140910L10		
9/3/2014	2F-b	14-09-0479	61	Soil	MS	X	140910L07		
9/4/2014	3B-h	14-09-0479	141	Soil	MS	X	140910L12		
9/4/2014	3G-c	14-09-0479	121	Soil	MS	X	140910L11		
9/2/2014	1B-a	14-09-0479	1	Soil	MSD	X	140910L04		
9/3/2014	1B-i	14-09-0479	41	Soil	MSD	X	140910L06		
9/2/2014	1G-d	14-09-0479	21	Soil	MSD	X	140910L05		
9/3/2014	2D-d	14-09-0479	81	Soil	MSD	X	140910L09		
9/3/2014	2E-g	14-09-0479	101	Soil	MSD	X	140910L10		
9/3/2014	2F-b	14-09-0479	61	Soil	MSD	X	140910L07		
9/4/2014	3B-h	14-09-0479	141	Soil	MSD	X	140910L12		
9/4/2014	3G-c	14-09-0479	121	Soil	MSD	X	140910L11		
9/5/2014	14-09-0464-1	14-09-0479	1	Soil	NC			X	E0909MOIB4
9/5/2014	14-09-0464-1	14-09-0479	1	Soil	SDP			X	E0909MOIB4
9/2/2014	1B-a	14-09-0479	1	Soil	SDP			X	E0909MOIB6
9/3/2014	1B-i	14-09-0479	41	Soil	SDP			X	E0910MOIB1
9/2/2014	1G-d	14-09-0479	21	Soil	SDP			X	E0909MOIB7
9/3/2014	2D-d	14-09-0479	81	Soil	SDP			X	E0910MOIB3
9/3/2014	2E-g	14-09-0479	101	Soil	SDP			X	E0910MOIB4
9/3/2014	2F-b	14-09-0479	61	Soil	SDP			X	E0910MOIB2
9/4/2014	3B-h	14-09-0479	141	Soil	SDP			X	E0910MOIB6
9/4/2014	3G-c	14-09-0479	121	Soil	SDP			X	E0910MOIB5
Total Number of Analyses Reviewed						196		180	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
LCS = Laboratory Control Sample
LCD = Laboratory Control Sample Duplicate
MB = Method Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
SDP = Sample Duplicate (Laboratory)

TABLE 2
SAMPLE PRESERVATION AND HOLDING TIMES - LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Parameters	Analytical Method	Preservation	Required Reporting Limit	Holding Time
Moisture Content	ASTM D-2216	Cool 4 ± 2°C	NA	10 days for solids
Total metals (arsenic, cadmium, lead, and selenium)	EPA 6020	Cool 4 ± 2°C[1] Water: Acidify w/ HNO_3 to pH < 2	TRRP Reporting	180 days

Notes: 1) Although not required by method, the workplan for this project specified that samples submitted for metal analyses would be preserved with ice.

TABLE 3
SUMMARY OF ALL QUALIFIED DATA - LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Method	Analyte	QC Batch	Assigned Qualifier	Reason for Qualification
		Work Order	#							
9/4/2014	3E-b	14-09-0479	113	Soil	Inv.	EPA 6020	Arsenic	140910L10	J	Poor Field Duplicate Precision
9/4/2014	3C-f	14-09-0479	134	Soil	Inv.	EPA 6020	Arsenic	140910L11	J	Poor Field Duplicate Precision

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
QC Batch numbers for laboratory control samples (LCSs) contain an "L", those for matrix spike/matrix spike duplicates (MS/MSDs) contain an "S". Otherwise the numbers are identical.

TABLE 4
SAMPLE RESULTS QUALIFIED BASED ON SURROGATE RECOVERIES - LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample	Surrogate Recovery			Qualifier	
	Work Order	#	Type	Surrogate	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on Surrogate Recoveries			NA	NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low

TABLE 5
SAMPLE RESULTS QUALIFIED BASED ON LCS RECOVERIES - LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Sample ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery			Qualifier	
	Work Order	#			Analyte	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on LCS Recoveries					NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Colored fill represents QC Batches that appear in several data packages.

TABLE 6A
SAMPLE RESULTS WITH MS/MSD RECOVERIES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery				Review Limits	Qualifier	
	Work Order	#			Analyte	MS %R	MSD %R	Ave %R		Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD Recoveries						NA	NA	NA

Notes: %R = Percent Recovery
Ave %R = Average of matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
R = Data are Rejected
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Light shaded average recoveries are low.
Dark shaded average recoveries are extremely low.

TABLE 6B
MS/MSD RELATIVE PERCENT DIFFERENCES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		QC Batch	Analyte	MS	MSD	RPD	Review	Qualifier	
	Work Order	#			%R	%R		Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD RPD's.						NA	NA

Notes: %R = Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
UJL = Estimated Non-Detect, Biased Low

TABLE 7
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES - LAB REPORT 14090479
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	1B-b	140902 Dup-1	Absolute Difference	RPD	1G-e	140902 Dup-2	Absolute Difference	RPD
		9/2/2014	9/2/2014			9/2/2014	9/2/2014		
		14-09-0479-2	14-09-0479-37			14-09-0479-20	14-09-0479-38		
Arsenic	1	6.35	6.35	0.00	0.00	11.30	10.1	1.20	11.21
Cadmium	1	0.644	0.663	0.02	2.91	0.69	0.643	0.04	6.62
Lead	1	14.5	14.9	0.40	2.72	26	27.8	1.50	5.55
Selenium	1	*0.264*	1.40	1.14	136.54	0.352	1.48	1.13	123.14

CONSTITUENTS	MQL	1C-g	140903 DUP-1	Absolute Difference	RPD	2F-a	140903 DUP-2	Absolute Difference	RPD	2D-d	140903 DUP-3	Absolute Difference	RPD	2E-g	140903 DUP-4	Absolute Difference	RPD
		9/3/2014	9/3/2014			9/3/2014	9/3/2014			9/3/2014	9/3/2014			9/3/2014	9/3/2014		
		14-09-0479-42	14-09-0479-102			14-09-0479-62	14-09-0479-103			14-09-0479-81	14-09-0479-104			14-09-0479-101	14-09-0479-105		
Arsenic	1	8.73	9.45	0.72	7.92	6.8	9.16	2.36	29.57	15.6	10.2	5.40	41.86	10.2	9.49	0.71	7.21
Cadmium	1	0.677	0.647	0.03	4.53	0.713	0.670	0.04	6.22	0.717	0.661	0.06	8.13	0.689	0.753	0.06	8.88
Lead	1	26.5	26.1	0.40	1.52	25.2	26.1	0.90	3.51	27.1	27.0	0.10	0.37	28.6	28.8	0.20	0.70
Selenium	1	1.76	1.71	0.05	2.88	*0.264*	2.16	1.90	156.44	0.345	2.77	2.43	155.70	2.32	2.50	0.18	7.47

CONSTITUENTS	MQL	3E-b	140904 DUP-1	Absolute Difference	RPD	3C-f	140904 DUP-2	Absolute Difference	RPD
		9/4/2014	9/4/2014			9/4/2014	9/4/2014		
		14-09-0479-113	14-09-0479-118			14-09-0479-134	14-09-0479-143		
Arsenic	1	13.3	5.69	7.61	80.15	7.45	13.6	6.15	58.43
Cadmium	1	0.724	0.781	0.06	7.57	0.578	0.685	0.11	16.94
Lead	1	27.3	27.2	0.10	0.37	26.6	27.6	1.00	3.69
Selenium	1	1.67	0.358	1.31	129.39	0.330	0.333	0.00	0.90

Notes: RPD = Relative Percent Difference.
MQL = Method Quantitation Limit.
Concentrations for metals reported in mg/Kg.
NC = Not Calculated.
NA = Not Analyzed.
Shaded RPDs are outside of the acceptable range.
Italicized values represent analyte method detection limits used for field duplicate precision calculations.
Shaded RPDs for soil samples require data to be qualified when:
1) RPD ≥ 50% AND analyte concentrations > 5x MQL; OR
2) RPD ≥ 50%, analyte concentrations < 5x MQL, AND
a) Analyte concentration < 5x MQL AND absolute difference is ≥ 3x the MQL.

ATTACHMENT A

CALSCIENCE NELAC/TLAP ACCREDITATION

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704499-14-4
Effective Date: 8/1/2014
Expiration Date: 7/31/2015

Executive Director Texas Commission on Environmental Quality

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

CERTIFIED MAIL

Mr. Larry Lem
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Lem:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

We are also continuing secondary accreditation based on your application and primary NELAP accreditation from the states of Oregon and New York according to the attached Fields of Accreditation. Your laboratory's secondary accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary Accreditation Bodies.

I am enclosing an accreditation certificate and listing of the fields of accreditation. Please review the enclosures for accuracy and completeness.

In the meantime, please contact me by telephone at (512) 239–3754 or electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Air & Emissions***

Method EPA TO-14A

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	NY	5160	10248609
1,1,2,2-Tetrachloroethane	NY	5110	10248609
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248609
1,1,2-Trichloroethane	NY	5165	10248609
1,1-Dichloroethane	NY	4630	10248609
1,1-Dichloroethylene	NY	4640	10248609
1,2,4-Trichlorobenzene	NY	5155	10248609
1,2,4-Trimethylbenzene	NY	5210	10248609
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248609
1,2-Dichlorobenzene	NY	4610	10248609
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248609
1,2-Dichloropropane	NY	4655	10248609
1,3,5-Trimethylbenzene	NY	5215	10248609
1,3-Dichlorobenzene	NY	4615	10248609
1,4-Dichlorobenzene	NY	4620	10248609
Benzene	NY	4375	10248609
Benzyl chloride	NY	5635	10248609
Carbon tetrachloride	NY	4455	10248609
Chlorobenzene	NY	4475	10248609
Chloroethane (Ethyl chloride)	NY	4485	10248609
Chloroform	NY	4505	10248609
cis-1,2-Dichloroethylene	NY	4645	10248609
cis-1,3-Dichloropropene	NY	4680	10248609
Dichlorodifluoromethane (Freon-12)	NY	4625	10248609
Ethylbenzene	NY	4765	10248609
Hexachlorobutadiene	NY	4835	10248609
Methyl bromide (Bromomethane)	NY	4950	10248609
Methyl chloride (Chloromethane)	NY	4960	10248609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

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Matrix: *Air & Emissions*

Methylene chloride (Dichloromethane)	NY	4975	10248609
Styrene	NY	5100	10248609
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248609
Toluene	NY	5140	10248609
trans-1,2-Dichloroethylene	NY	4700	10248609
trans-1,3-Dichloropropylene	NY	4685	10248609
Trichloroethene (Trichloroethylene)	NY	5170	10248609
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248609
Vinyl chloride	NY	5235	10248609
Xylene (total)	NY	5260	10248609

Method EPA TO-15

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	NY	5160	10248803
1,1,2,2-Tetrachloroethane	NY	5110	10248803
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248803
1,1,2-Trichloroethane	NY	5165	10248803
1,1-Dichloroethane	NY	4630	10248803
1,1-Dichloroethylene	NY	4640	10248803
1,2,4-Trichlorobenzene	NY	5155	10248803
1,2,4-Trimethylbenzene	NY	5210	10248803
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248803
1,2-Dichlorobenzene	NY	4610	10248803
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248803
1,2-Dichloropropane	NY	4655	10248803
1,3,5-Trimethylbenzene	NY	5215	10248803
1,3-Butadiene	NY	9318	10248803
1,3-Dichlorobenzene	NY	4615	10248803
1,4-Dichlorobenzene	NY	4620	10248803
1,4-Dioxane (1,4-Diethyleneoxide)	NY	4735	10248803
2-Butanone (Methyl ethyl ketone, MEK)	NY	4410	10248803

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Issue Date: 8/1/2014

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Matrix: *Air & Emissions*

Benzene	NY	4375	10248803
Benzyl chloride	NY	5635	10248803
Bromodichloromethane	NY	4395	10248803
Bromoform	NY	4400	10248803
Carbon tetrachloride	NY	4455	10248803
Chlorobenzene	NY	4475	10248803
Chloroethane (Ethyl chloride)	NY	4485	10248803
Chloroform	NY	4505	10248803
cis-1,2-Dichloroethylene	NY	4645	10248803
cis-1,3-Dichloropropene	NY	4680	10248803
Dichlorodifluoromethane (Freon-12)	NY	4625	10248803
Ethylbenzene	NY	4765	10248803
Hexachlorobutadiene	NY	4835	10248803
Methyl bromide (Bromomethane)	NY	4950	10248803
Methyl chloride (Chloromethane)	NY	4960	10248803
Methyl isobutyl ketone (Hexone) (MIBK)	NY	4985	10248803
Methyl tert-butyl ether (MTBE)	NY	5000	10248803
Methylene chloride (Dichloromethane)	NY	4975	10248803
n-Hexane	NY	4855	10248803
Styrene	NY	5100	10248803
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248803
Toluene	NY	5140	10248803
trans-1,2-Dichloroethylene	NY	4700	10248803
trans-1,3-Dichloropropylene	NY	4685	10248803
Trichloroethene (Trichloroethylene)	NY	5170	10248803
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248803
Vinyl acetate	NY	5225	10248803
Vinyl chloride	NY	5235	10248803
Xylene (total)	NY	5260	10248803

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

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Garden Grove, CA 92841-1427

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Matrix: ***Non-Potable Water***

Method ASTM D516

Analyte	AB	Analyte ID	Method ID
Sulfate	OR	2000	30002201

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	OR	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	OR	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	OR	1000	10013806
Antimony	OR	1005	10013806
Arsenic	OR	1010	10013806
Barium	OR	1015	10013806
Beryllium	OR	1020	10013806
Boron	OR	1025	10013806
Cadmium	OR	1030	10013806
Calcium	OR	1035	10013806
Chromium	OR	1040	10013806
Cobalt	OR	1050	10013806
Copper	OR	1055	10013806
Iron	OR	1070	10013806
Lead	OR	1075	10013806
Magnesium	OR	1085	10013806
Manganese	OR	1090	10013806
Molybdenum	OR	1100	10013806

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Eurofins Calscience, Inc.

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Matrix: ***Non-Potable Water***

Nickel	OR	1105	10013806
Potassium	OR	1125	10013806
Selenium	OR	1140	10013806
Silica as SiO2	OR	1990	10013806
Silver	OR	1150	10013806
Sodium	OR	1155	10013806
Thallium	OR	1165	10013806
Tin	OR	1175	10013806
Vanadium	OR	1185	10013806
Zinc	OR	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	OR	1000	10014605
Antimony	OR	1005	10014605
Arsenic	OR	1010	10014605
Barium	OR	1015	10014605
Beryllium	OR	1020	10014605
Boron	OR	1025	10014605
Cadmium	OR	1030	10014605
Chromium	OR	1040	10014605
Cobalt	OR	1050	10014605
Copper	OR	1055	10014605
Iron	OR	1070	10014605
Lead	OR	1075	10014605
Manganese	OR	1090	10014605
Molybdenum	OR	1100	10014605
Nickel	OR	1105	10014605
Selenium	OR	1140	10014605
Silver	OR	1150	10014605
Thallium	OR	1165	10014605

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Matrix: ***Non-Potable Water***

Tin	OR	1175	10014605
Titanium	OR	1180	10014605
Vanadium	OR	1185	10014605
Zinc	OR	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	10053006
Fluoride	OR	1730	10053006
Nitrate as N	OR	1810	10053006
Nitrate-nitrite	OR	1820	10053006
Nitrite as N	OR	1840	10053006
Orthophosphate as P	OR	1870	10053006
Sulfate	OR	2000	10053006

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	OR	1540	10053608

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	OR	1515	10063408

Method EPA 351.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Kjeldahl nitrogen - total (TKN)	OR	1795	10065200

Method EPA 365.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10069804
Phosphorus	OR	1910	10069804

Method EPA 365.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10070801
Phosphorus	OR	1910	10070801

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Matrix: ***Non-Potable Water***

Method EPA 410.4

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	OR	1565	10077200

Method EPA 420.1

Analyte	AB	Analyte ID	Method ID
Total phenolics	OR	1905	10079400

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204

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Matrix: ***Non-Potable Water***

Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204
Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606

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Matrix: ***Non-Potable Water***

Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606
Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000

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Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000
Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802

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Matrix: *Non-Potable Water*

1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802
1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802

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Matrix: *Non-Potable Water*

4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802
Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromochloropropane	OR	4580	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802

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Matrix: *Non-Potable Water*

Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802
Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	OR	4770	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802

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Matrix: ***Non-Potable Water***

Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802
T-amylmethylether (TAME)	OR	4370	10184802
tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805

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Matrix: *Non-Potable Water*

1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805
2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805

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Matrix: *Non-Potable Water*

4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805
4-Dimethyl aminoazobenzene	OR	6105	10185805
4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805

Texas Commission on Environmental Quality

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Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
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Issue Date: 8/1/2014

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Matrix: *Non-Potable Water*

bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805
Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805

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Matrix: ***Non-Potable Water***

Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805
n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method SM 2130 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Turbidity	OR	2055	20042200

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Alkalinity as CaCO3	OR	1505	20045005
Method SM 2340 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20046008
Method SM 2340 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20047001
Method SM 2510 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	OR	1610	20048004
Method SM 2540 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	OR	1950	20004608
Method SM 2540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	OR	1955	20049803
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	OR	1960	20004802
Method SM 2540 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	OR	1965	20005009
Method SM 4500-Cl^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	20084804
Method SM 4500-F^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	20101808
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	20104603

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-NH3 C	Ammonia as N	OR	1515	20023603
SM 4500-NH3 F	Ammonia as N	OR	1515	20023001
SM 4500-NH3 G	Ammonia as N	OR	1515	20023205
SM 4500-NO_2^- B	Nitrite as N	OR	1840	20024004
SM 4500-NO3 E	Nitrate as N	OR	1810	20114209
	Nitrate-nitrite	OR	1820	20114209
	Nitrite as N	OR	1840	20114209
SM 4500-O G	Oxygen, dissolved	OR	1880	20025405
SM 4500-P E	Orthophosphate as P	OR	1870	20025803
SM 4500-$S2^-$ D	Sulfide	OR	2005	20125400
SM 4500-$SO3^-$ B	Sulfite	OR	2015	20026806
SM 5210 B	Biochemical oxygen demand (BOD)	OR	1530	20027401

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Matrix: ***Non-Potable Water***

Carbonaceous BOD, CBOD	OR	1555	20027401
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	OR	1565	20027809
Method SM 5310 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20137206
Method SM 5310 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20139202
Method SM 5520 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	20028802
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	20028802
Method SM 5540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	OR	2025	20144405
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	OR	849	10118806

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204
Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204

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Matrix: ***Solid & Chemical Materials***

Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606
Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606

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Matrix: *Solid & Chemical Materials*

Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000
Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000

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Matrix: ***Solid & Chemical Materials***

Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802
1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802

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Matrix: *Solid & Chemical Materials*

1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802
4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802

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Matrix: *Solid & Chemical Materials*

Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802
Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802

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Matrix: *Solid & Chemical Materials*

Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methanol	OR	4930	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802
Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802

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Matrix: ***Solid & Chemical Materials***

tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805
1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805
4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805

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Matrix: *Solid & Chemical Materials*

4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805

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NELAP - Recognized Laboratory Fields of Accreditation

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7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

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Matrix: ***Solid & Chemical Materials***

Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachlorocyclopentadiene	OR	6285	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805
Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805

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Matrix: ***Solid & Chemical Materials***

n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	OR	1615	10198400
pH	OR	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	10199209

Texas Commission on Environmental Quality

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Garden Grove, CA 92841-1427

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Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT B

DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

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WORK ORDER NUMBER: 14-09-0479

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cook-Joyce Inc.

Client Project Name: 13046.01 / Grand Park

Attention: Richard Varnell
812 West 11th Street
Austin, TX 78701-2053

Approved for release on 09/18/2014 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-0479

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Work Order Narrative

Work Order: 14-09-0479 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/08/14. They were assigned to Work Order 14-09-0479.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-0479
		Project Name:	13046.01 / Grand Park
		PO Number:	
		Date/Time Received:	09/08/14 09:45
		Number of Containers:	161
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
1B-a	14-09-0479-1	09/02/14 12:50	1	Solid
1B-b	14-09-0479-2	09/02/14 13:05	1	Solid
1B-c	14-09-0479-3	09/02/14 13:09	1	Solid
1C-a	14-09-0479-4	09/02/14 13:14	1	Solid
1C-b	14-09-0479-5	09/02/14 13:17	1	Solid
1C-c	14-09-0479-6	09/02/14 13:16	1	Solid
1D-a	14-09-0479-7	09/02/14 13:20	1	Solid
1D-b	14-09-0479-8	09/02/14 13:29	1	Solid
1D-c	14-09-0479-9	09/02/14 13:32	1	Solid
1E-a	14-09-0479-10	09/02/14 13:35	1	Solid
1E-b	14-09-0479-11	09/02/14 13:38	1	Solid
1E-c	14-09-0479-12	09/02/14 13:42	1	Solid
1F-a	14-09-0479-13	09/02/14 14:18	1	Solid
1F-b	14-09-0479-14	09/02/14 14:21	1	Solid
1F-c	14-09-0479-15	09/02/14 14:28	1	Solid
1G-a	14-09-0479-16	09/02/14 14:21	1	Solid
1G-b	14-09-0479-17	09/02/14 14:28	1	Solid
1G-c	14-09-0479-18	09/02/14 14:32	1	Solid
1G-f	14-09-0479-19	09/02/14 14:35	1	Solid
1G-e	14-09-0479-20	09/02/14 14:39	1	Solid
1G-d	14-09-0479-21	09/02/14 14:43	1	Solid
1F-f	14-09-0479-22	09/02/14 14:47	1	Solid
1F-e	14-09-0479-23	09/02/14 14:58	1	Solid
1F-d	14-09-0479-24	09/02/14 15:01	1	Solid
1E-f	14-09-0479-25	09/02/14 15:04	1	Solid
1E-e	14-09-0479-26	09/02/14 15:09	1	Solid
1E-d	14-09-0479-27	09/02/14 15:12	1	Solid
1D-f	14-09-0479-28	09/02/14 15:34	1	Solid
1D-e	14-09-0479-29	09/02/14 15:38	1	Solid
1D-d	14-09-0479-30	09/02/14 15:41	1	Solid
1C-f	14-09-0479-31	09/02/14 15:47	1	Solid
1C-e	14-09-0479-32	09/02/14 15:51	1	Solid
1C-d	14-09-0479-33	09/02/14 15:56	1	Solid
1B-f	14-09-0479-34	09/02/14 15:58	1	Solid
1B-e	14-09-0479-35	09/02/14 16:02	1	Solid
1B-d	14-09-0479-36	09/02/14 16:06	1	Solid
140902 Dup-1	14-09-0479-37	09/02/14 12:00	1	Solid
140902 Dup-2	14-09-0479-38	09/02/14 12:00	1	Solid
1B-g	14-09-0479-39	09/03/14 08:52	1	Solid
1B-h	14-09-0479-40	09/03/14 09:02	1	Solid
1B-i	14-09-0479-41	09/03/14 09:04	1	Solid
1C-g	14-09-0479-42	09/03/14 09:07	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-0479
		Project Name:	13046.01 / Grand Park
		PO Number:	
		Date/Time Received:	09/08/14 09:45
		Number of Containers:	161
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
1C-h	14-09-0479-43	09/03/14 09:13	1	Solid
1C-i	14-09-0479-44	09/03/14 09:17	1	Solid
1D-g	14-09-0479-45	09/03/14 09:24	1	Solid
1D-h	14-09-0479-46	09/03/14 09:30	1	Solid
1D-i	14-09-0479-47	09/03/14 09:37	1	Solid
1E-g	14-09-0479-48	09/03/14 09:45	1	Solid
1E-h	14-09-0479-49	09/03/14 09:49	1	Solid
1E-i	14-09-0479-50	09/03/14 09:52	1	Solid
1F-g	14-09-0479-51	09/03/14 09:57	1	Solid
1F-h	14-09-0479-52	09/03/14 10:02	1	Solid
1F-i	14-09-0479-53	09/03/14 10:05	1	Solid
1G-g	14-09-0479-54	09/03/14 10:08	1	Solid
1G-h	14-09-0479-55	09/03/14 10:12	1	Solid
1G-i	14-09-0479-56	09/03/14 10:16	1	Solid
2G-c	14-09-0479-57	09/03/14 10:37	1	Solid
2G-b	14-09-0479-58	09/03/14 10:40	1	Solid
2G-a	14-09-0479-59	09/03/14 10:42	1	Solid
2F-c	14-09-0479-60	09/03/14 10:45	1	Solid
2F-b	14-09-0479-61	09/03/14 10:47	1	Solid
2F-a	14-09-0479-62	09/03/14 10:52	1	Solid
2E-c	14-09-0479-63	09/03/14 10:58	1	Solid
2E-b	14-09-0479-64	09/03/14 11:01	1	Solid
2E-a	14-09-0479-65	09/03/14 11:04	1	Solid
2D-c	14-09-0479-66	09/03/14 11:08	1	Solid
2D-b	14-09-0479-67	09/03/14 11:14	1	Solid
2D-a	14-09-0479-68	09/03/14 11:16	1	Solid
2C-c	14-09-0479-69	09/03/14 13:18	1	Solid
2C-b	14-09-0479-70	09/03/14 13:25	1	Solid
2C-a	14-09-0479-71	09/03/14 13:29	1	Solid
2B-c	14-09-0479-72	09/03/14 13:33	1	Solid
2B-b	14-09-0479-73	09/03/14 13:38	1	Solid
2B-a	14-09-0479-74	09/03/14 13:47	1	Solid
2B-d	14-09-0479-75	09/03/14 13:50	1	Solid
2B-e	14-09-0479-76	09/03/14 13:53	1	Solid
2B-f	14-09-0479-77	09/03/14 13:57	1	Solid
2C-d	14-09-0479-78	09/03/14 14:09	1	Solid
2C-e	14-09-0479-79	09/03/14 14:14	1	Solid
2C-f	14-09-0479-80	09/03/14 14:18	1	Solid
2D-d	14-09-0479-81	09/03/14 14:22	1	Solid
2D-e	14-09-0479-82	09/03/14 14:41	1	Solid
2D-f	14-09-0479-83	09/03/14 14:46	1	Solid
2E-d	14-09-0479-84	09/03/14 14:50	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-0479
		Project Name:	13046.01 / Grand Park
		PO Number:	
		Date/Time Received:	09/08/14 09:45
		Number of Containers:	161
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
2E-e	14-09-0479-85	09/03/14 14:53	1	Solid
2E-f	14-09-0479-86	09/03/14 14:58	1	Solid
2F-d	14-09-0479-87	09/03/14 15:04	1	Solid
2F-e	14-09-0479-88	09/03/14 15:13	1	Solid
2F-f	14-09-0479-89	09/03/14 15:17	1	Solid
2G-d	14-09-0479-90	09/03/14 15:21	1	Solid
2G-e	14-09-0479-91	09/03/14 15:41	1	Solid
2G-f	14-09-0479-92	09/03/14 15:44	1	Solid
2G-i	14-09-0479-93	09/03/14 15:49	1	Solid
2G-h	14-09-0479-94	09/03/14 15:54	1	Solid
2G-g	14-09-0479-95	09/03/14 15:57	1	Solid
2F-i	14-09-0479-96	09/03/14 16:03	1	Solid
2F-h	14-09-0479-97	09/03/14 16:07	1	Solid
2F-g	14-09-0479-98	09/03/14 16:12	1	Solid
2E-i	14-09-0479-99	09/03/14 16:19	1	Solid
2E-h	14-09-0479-100	09/03/14 16:27	1	Solid
2E-g	14-09-0479-101	09/03/14 16:30	1	Solid
140903 DUP-1	14-09-0479-102	09/03/14 12:00	1	Solid
140903 DUP-2	14-09-0479-103	09/03/14 12:00	1	Solid
140903 DUP-3	14-09-0479-104	09/03/14 12:00	1	Solid
140903 DUP-4	14-09-0479-105	09/03/14 12:00	1	Solid
3C-a	14-09-0479-106	09/04/14 09:34	1	Solid
3C-b	14-09-0479-107	09/04/14 09:42	1	Solid
3C-c	14-09-0479-108	09/04/14 09:47	1	Solid
3D-a	14-09-0479-109	09/04/14 09:56	1	Solid
3D-b	14-09-0479-110	09/04/14 10:05	1	Solid
3D-c	14-09-0479-111	09/04/14 10:10	1	Solid
3E-a	14-09-0479-112	09/04/14 10:14	1	Solid
3E-b	14-09-0479-113	09/04/14 10:19	1	Solid
3E-c	14-09-0479-114	09/04/14 10:25	1	Solid
3F-a	14-09-0479-115	09/04/14 10:57	1	Solid
3F-b	14-09-0479-116	09/04/14 11:03	1	Solid
3F-c	14-09-0479-117	09/04/14 11:06	1	Solid
140904 DUP-1	14-09-0479-118	09/04/14 12:00	1	Solid
3G-a	14-09-0479-119	09/04/14 11:12	1	Solid
3G-b	14-09-0479-120	09/04/14 11:16	1	Solid
3G-c	14-09-0479-121	09/04/14 11:21	1	Solid
3G-f	14-09-0479-122	09/04/14 11:25	1	Solid
3G-e	14-09-0479-123	09/04/14 11:30	1	Solid
3G-d	14-09-0479-124	09/04/14 11:39	1	Solid
3F-f	14-09-0479-125	09/04/14 11:45	1	Solid
3F-e	14-09-0479-126	09/04/14 11:48	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-0479
		Project Name:	13046.01 / Grand Park
		PO Number:	
		Date/Time Received:	09/08/14 09:45
		Number of Containers:	161
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
3F-d	14-09-0479-127	09/04/14 11:55	1	Solid
3E-f	14-09-0479-128	09/04/14 12:06	1	Solid
3E-e	14-09-0479-129	09/04/14 12:11	1	Solid
3E-d	14-09-0479-130	09/04/14 12:15	1	Solid
3D-f	14-09-0479-131	09/04/14 12:21	1	Solid
3D-e	14-09-0479-132	09/04/14 13:59	1	Solid
3D-d	14-09-0479-133	09/04/14 14:05	1	Solid
3C-f	14-09-0479-134	09/04/14 14:10	1	Solid
3C-e	14-09-0479-135	09/04/14 14:16	1	Solid
3C-d	14-09-0479-136	09/04/14 14:20	1	Solid
3B-f	14-09-0479-137	09/04/14 14:24	1	Solid
3B-e	14-09-0479-138	09/04/14 14:30	1	Solid
3B-d	14-09-0479-139	09/04/14 14:36	1	Solid
3B-g	14-09-0479-140	09/04/14 14:40	1	Solid
3B-h	14-09-0479-141	09/04/14 14:44	1	Solid
3B-i	14-09-0479-142	09/04/14 14:49	1	Solid
140904 DUP-2	14-09-0479-143	09/04/14 12:00	1	Solid
3C-g	14-09-0479-144	09/04/14 14:53	1	Solid
3C-h	14-09-0479-145	09/04/14 14:57	1	Solid
3C-i	14-09-0479-146	09/04/14 15:02	1	Solid
3D-g	14-09-0479-147	09/04/14 15:06	1	Solid
3D-h	14-09-0479-148	09/04/14 15:14	1	Solid
3D-i	14-09-0479-149	09/04/14 15:18	1	Solid
2B-g	14-09-0479-150	09/04/14 09:08	1	Solid
2B-h	14-09-0479-151	09/04/14 09:02	1	Solid
2B-i	14-09-0479-152	09/04/14 08:59	1	Solid
2C-g	14-09-0479-153	09/04/14 08:55	1	Solid
2C-h	14-09-0479-154	09/04/14 08:51	1	Solid
2C-i	14-09-0479-155	09/04/14 08:46	1	Solid
2D-g	14-09-0479-156	09/04/14 08:41	1	Solid
2D-h	14-09-0479-157	09/04/14 08:29	1	Solid
2D-i	14-09-0479-158	09/04/14 08:19	1	Solid
3B-a	14-09-0479-159	09/04/14 09:15	1	Solid
3B-b	14-09-0479-160	09/04/14 09:20	1	Solid
3B-c	14-09-0479-161	09/04/14 09:29	1	Solid

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
1B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1G-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1G-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1G-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID6	E0909MOIB6
1G-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S04	140910L04
1G-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1G-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
1F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
140902 Dup-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
140902 Dup-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
140902 Dup-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
140902 Dup-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID7	E0909MOIB7
1B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S05	140910L05
1B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
1D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1F-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1F-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1G-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1G-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1G-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1G-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
1G-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
1G-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
2G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
2G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
2G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
2G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
2G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
2G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
2F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID1	E0910MOIB1
2F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S06	140910L06
2F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
2C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID2	E0910MOIB2
2C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S07	140910L07
2D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2G-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2G-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2G-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2G-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2G-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2G-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
2G-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2G-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2G-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2G-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2G-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2G-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2F-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2F-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID3	E0910MOIB3
2E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S09	140910L09
2E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
2E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
140903 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
140903 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
140903 DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
140903 DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
140903 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
140903 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
140903 DUP-4	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
140903 DUP-4	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
3F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
140904 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
140904 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID4	E0910MOIB4
3G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S10	140910L10
3G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3G-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3G-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3G-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3G-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3G-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3G-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
3B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID5	E0910MOIB5
3B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S11	140910L11
3B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
140904 DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
140904 DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
2D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
2D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0910MOID6	E0910MOIB6
3B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S12	140910L12
3B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0909MOID4	E0909MOIB4
3B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140910S01	140910L01

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-a	**14-09-0479-1-A**	**09/02/14 12:50**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.60	0.100	0.100	0.100	0.100	1.00	

1B-b	**14-09-0479-2-A**	**09/02/14 13:05**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.30	0.100	0.100	0.100	0.100	1.00	

1B-c	**14-09-0479-3-A**	**09/02/14 13:09**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.30	0.100	0.100	0.100	0.100	1.00	

1C-a	**14-09-0479-4-A**	**09/02/14 13:14**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.80	0.100	0.100	0.100	0.100	1.00	

1C-b	**14-09-0479-5-A**	**09/02/14 13:17**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.60	0.100	0.100	0.100	0.100	1.00	

1C-c	**14-09-0479-6-A**	**09/02/14 13:16**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.10	0.100	0.100	0.100	0.100	1.00	

1D-a	**14-09-0479-7-A**	**09/02/14 13:20**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.10	0.100	0.100	0.100	0.100	1.00	

1D-b	**14-09-0479-8-A**	**09/02/14 13:29**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.30	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-c	**14-09-0479-9-A**	**09/02/14 13:32**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-a	**14-09-0479-10-A**	**09/02/14 13:35**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-b	**14-09-0479-11-A**	**09/02/14 13:38**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-c	**14-09-0479-12-A**	**09/02/14 13:42**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-a	**14-09-0479-13-A**	**09/02/14 14:18**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-b	**14-09-0479-14-A**	**09/02/14 14:21**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-c	**14-09-0479-15-A**	**09/02/14 14:28**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-a	**14-09-0479-16-A**	**09/02/14 14:21**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	3.60	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-b	**14-09-0479-17-A**	**09/02/14 14:28**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-c	**14-09-0479-18-A**	**09/02/14 14:32**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-f	**14-09-0479-19-A**	**09/02/14 14:35**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-e	**14-09-0479-20-A**	**09/02/14 14:39**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-d	**14-09-0479-21-A**	**09/02/14 14:43**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-f	**14-09-0479-22-A**	**09/02/14 14:47**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-e	**14-09-0479-23-A**	**09/02/14 14:58**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-d	**14-09-0479-24-A**	**09/02/14 15:01**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-f	**14-09-0479-25-A**	**09/02/14 15:04**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-e	**14-09-0479-26-A**	**09/02/14 15:09**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-d	**14-09-0479-27-A**	**09/02/14 15:12**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-f	**14-09-0479-28-A**	**09/02/14 15:34**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-e	**14-09-0479-29-A**	**09/02/14 15:38**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-d	**14-09-0479-30-A**	**09/02/14 15:41**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-f	**14-09-0479-31-A**	**09/02/14 15:47**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-e	**14-09-0479-32-A**	**09/02/14 15:51**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-d	**14-09-0479-33-A**	**09/02/14 15:56**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-f	**14-09-0479-34-A**	**09/02/14 15:58**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-e	**14-09-0479-35-A**	**09/02/14 16:02**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-d	**14-09-0479-36-A**	**09/02/14 16:06**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140902 Dup-1	**14-09-0479-37-A**	**09/02/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140902 Dup-2	**14-09-0479-38-A**	**09/02/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-g	**14-09-0479-39-A**	**09/03/14 08:52**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	25.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-h	**14-09-0479-40-A**	**09/03/14 09:02**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.50	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-i	**14-09-0479-41-A**	**09/03/14 09:04**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	27.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-g	**14-09-0479-42-A**	**09/03/14 09:07**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-h	**14-09-0479-43-A**	**09/03/14 09:13**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-i	**14-09-0479-44-A**	**09/03/14 09:17**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-g	**14-09-0479-45-A**	**09/03/14 09:24**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-h	**14-09-0479-46-A**	**09/03/14 09:30**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	25.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-i	**14-09-0479-47-A**	**09/03/14 09:37**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-g	**14-09-0479-48-A**	**09/03/14 09:45**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-h	**14-09-0479-49-A**	**09/03/14 09:49**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-i	**14-09-0479-50-A**	**09/03/14 09:52**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-g	**14-09-0479-51-A**	**09/03/14 09:57**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-h	**14-09-0479-52-A**	**09/03/14 10:02**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-i	**14-09-0479-53-A**	**09/03/14 10:05**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-g	**14-09-0479-54-A**	**09/03/14 10:08**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-h	**14-09-0479-55-A**	**09/03/14 10:12**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-i	**14-09-0479-56-A**	**09/03/14 10:16**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-c	**14-09-0479-57-A**	**09/03/14 10:37**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-b	**14-09-0479-58-A**	**09/03/14 10:40**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-a	**14-09-0479-59-A**	**09/03/14 10:42**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-c	**14-09-0479-60-A**	**09/03/14 10:45**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-b	**14-09-0479-61-A**	**09/03/14 10:47**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-a	**14-09-0479-62-A**	**09/03/14 10:52**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-c	**14-09-0479-63-A**	**09/03/14 10:58**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-b	**14-09-0479-64-A**	**09/03/14 11:01**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-a	**14-09-0479-65-A**	**09/03/14 11:04**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-c	**14-09-0479-66-A**	**09/03/14 11:08**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-b	**14-09-0479-67-A**	**09/03/14 11:14**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-a	**14-09-0479-68-A**	**09/03/14 11:16**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-c	**14-09-0479-69-A**	**09/03/14 13:18**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-b	**14-09-0479-70-A**	**09/03/14 13:25**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-a	**14-09-0479-71-A**	**09/03/14 13:29**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-c	**14-09-0479-72-A**	**09/03/14 13:33**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.80	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-b	**14-09-0479-73-A**	**09/03/14 13:38**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-a	**14-09-0479-74-A**	**09/03/14 13:47**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-d	**14-09-0479-75-A**	**09/03/14 13:50**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-e	**14-09-0479-76-A**	**09/03/14 13:53**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-f	**14-09-0479-77-A**	**09/03/14 13:57**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-d	**14-09-0479-78-A**	**09/03/14 14:09**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-e	**14-09-0479-79-A**	**09/03/14 14:14**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-f	**14-09-0479-80-A**	**09/03/14 14:18**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-d	**14-09-0479-81-A**	**09/03/14 14:22**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-e	**14-09-0479-82-A**	**09/03/14 14:41**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-f	**14-09-0479-83-A**	**09/03/14 14:46**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-d	**14-09-0479-84-A**	**09/03/14 14:50**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-e	**14-09-0479-85-A**	**09/03/14 14:53**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-f	**14-09-0479-86-A**	**09/03/14 14:58**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-d	**14-09-0479-87-A**	**09/03/14 15:04**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-e	**14-09-0479-88-A**	**09/03/14 15:13**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-f	**14-09-0479-89-A**	**09/03/14 15:17**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-d	**14-09-0479-90-A**	**09/03/14 15:21**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-e	**14-09-0479-91-A**	**09/03/14 15:41**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-f	**14-09-0479-92-A**	**09/03/14 15:44**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-i	**14-09-0479-93-A**	**09/03/14 15:49**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-h	**14-09-0479-94-A**	**09/03/14 15:54**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-g	**14-09-0479-95-A**	**09/03/14 15:57**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-i	**14-09-0479-96-A**	**09/03/14 16:03**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-h	**14-09-0479-97-A**	**09/03/14 16:07**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-g	**14-09-0479-98-A**	**09/03/14 16:12**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-i	**14-09-0479-99-A**	**09/03/14 16:19**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-h	**14-09-0479-100-A**	**09/03/14 16:27**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-g	**14-09-0479-101-A**	**09/03/14 16:30**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-1	**14-09-0479-102-A**	**09/03/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-2	**14-09-0479-103-A**	**09/03/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-3	**14-09-0479-104-A**	**09/03/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-4	**14-09-0479-105-A**	**09/03/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-a	**14-09-0479-106-A**	**09/04/14 09:34**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-b	**14-09-0479-107-A**	**09/04/14 09:42**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-c	**14-09-0479-108-A**	**09/04/14 09:47**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-a	**14-09-0479-109-A**	**09/04/14 09:56**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-b	**14-09-0479-110-A**	**09/04/14 10:05**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-c	**14-09-0479-111-A**	**09/04/14 10:10**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-a	**14-09-0479-112-A**	**09/04/14 10:14**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-b	**14-09-0479-113-A**	**09/04/14 10:19**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-c	**14-09-0479-114-A**	**09/04/14 10:25**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-a	**14-09-0479-115-A**	**09/04/14 10:57**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-b	**14-09-0479-116-A**	**09/04/14 11:03**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-c	**14-09-0479-117-A**	**09/04/14 11:06**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140904 DUP-1	**14-09-0479-118-A**	**09/04/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-a	**14-09-0479-119-A**	**09/04/14 11:12**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-b	**14-09-0479-120-A**	**09/04/14 11:16**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-c	**14-09-0479-121-A**	**09/04/14 11:21**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-f	**14-09-0479-122-A**	**09/04/14 11:25**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-e	**14-09-0479-123-A**	**09/04/14 11:30**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-d	**14-09-0479-124-A**	**09/04/14 11:39**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-f	**14-09-0479-125-A**	**09/04/14 11:45**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-e	**14-09-0479-126-A**	**09/04/14 11:48**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-d	**14-09-0479-127-A**	**09/04/14 11:55**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-f	**14-09-0479-128-A**	**09/04/14 12:06**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-e	**14-09-0479-129-A**	**09/04/14 12:11**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-d	**14-09-0479-130-A**	**09/04/14 12:15**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-f	**14-09-0479-131-A**	**09/04/14 12:21**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-e	**14-09-0479-132-A**	**09/04/14 13:59**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-d	**14-09-0479-133-A**	**09/04/14 14:05**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-f	**14-09-0479-134-A**	**09/04/14 14:10**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-e	**14-09-0479-135-A**	**09/04/14 14:16**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-d	**14-09-0479-136-A**	**09/04/14 14:20**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-f	**14-09-0479-137-A**	**09/04/14 14:24**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-e	**14-09-0479-138-A**	**09/04/14 14:30**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-d	**14-09-0479-139-A**	**09/04/14 14:36**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-g	**14-09-0479-140-A**	**09/04/14 14:40**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-h	**14-09-0479-141-A**	**09/04/14 14:44**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-i	**14-09-0479-142-A**	**09/04/14 14:49**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140904 DUP-2	**14-09-0479-143-A**	**09/04/14 12:00**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-g	**14-09-0479-144-A**	**09/04/14 14:53**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-h	**14-09-0479-145-A**	**09/04/14 14:57**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-i	**14-09-0479-146-A**	**09/04/14 15:02**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-g	**14-09-0479-147-A**	**09/04/14 15:06**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-h	**14-09-0479-148-A**	**09/04/14 15:14**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-i	**14-09-0479-149-A**	**09/04/14 15:18**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-g	**14-09-0479-150-A**	**09/04/14 09:08**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-h	**14-09-0479-151-A**	**09/04/14 09:02**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-i	**14-09-0479-152-A**	**09/04/14 08:59**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.80	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-g	**14-09-0479-153-A**	**09/04/14 08:55**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-h	**14-09-0479-154-A**	**09/04/14 08:51**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-i	**14-09-0479-155-A**	**09/04/14 08:46**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-g	**14-09-0479-156-A**	**09/04/14 08:41**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-h	**14-09-0479-157-A**	**09/04/14 08:29**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-i	**14-09-0479-158-A**	**09/04/14 08:19**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-a	**14-09-0479-159-A**	**09/04/14 09:15**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-b	**14-09-0479-160-A**	**09/04/14 09:20**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-c	**14-09-0479-161-A**	**09/04/14 09:29**	**Solid**	**N/A**	**09/09/14**	**09/09/14 17:15**	**E0909MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4761**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/09/14 17:15**	**E0909MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4770**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/09/14 18:30**	**E0909MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4771**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/09/14 19:15**	**E0909MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4772**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:40**	**E0910MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4773**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/10/14 10:50**	**E0910MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4774**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:00**	**E0910MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4775**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:10**	**E0910MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: 13046.01 / Grand Park			Page 22 of 22

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4776**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:30**	**E0910MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4777**	**N/A**	**Solid**	**N/A**	**09/09/14**	**09/10/14 11:38**	**E0910MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-a	**14-09-0479-1-A**	**09/02/14 12:50**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:18**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.93	1.06	0.412	1.00	0.389	1.00	
Cadmium	0.717	1.06	0.127	1.00	0.120	1.00	J
Lead	14.1	1.06	0.145	1.00	0.137	1.00	
Selenium	ND	1.06	0.280	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-b	**14-09-0479-2-A**	**09/02/14 13:05**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:21**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.35	1.06	0.411	1.00	0.389	1.00	
Cadmium	0.644	1.06	0.127	1.00	0.120	1.00	J
Lead	14.5	1.06	0.145	1.00	0.137	1.00	
Selenium	ND	1.06	0.279	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-c	**14-09-0479-3-A**	**09/02/14 13:09**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:23**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.59	1.06	0.411	1.00	0.389	1.00	
Cadmium	0.723	1.06	0.127	1.00	0.120	1.00	J
Lead	15.0	1.06	0.145	1.00	0.137	1.00	
Selenium	ND	1.06	0.279	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 13046.01 / Grand Park			Page 2 of 56

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-a	**14-09-0479-4-A**	**09/02/14 13:14**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:26**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.50	1.06	0.413	1.00	0.389	1.00	
Cadmium	0.558	1.06	0.127	1.00	0.120	1.00	J
Lead	17.0	1.06	0.146	1.00	0.137	1.00	
Selenium	ND	1.06	0.280	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-b	**14-09-0479-5-A**	**09/02/14 13:17**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:29**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.61	1.05	0.408	1.00	0.389	1.00	
Cadmium	0.557	1.05	0.126	1.00	0.120	1.00	J
Lead	15.2	1.05	0.144	1.00	0.137	1.00	
Selenium	ND	1.05	0.277	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-c	**14-09-0479-6-A**	**09/02/14 13:16**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/18/14 11:08**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.83	1.05	0.410	1.00	0.389	1.00	
Cadmium	0.575	1.05	0.126	1.00	0.120	1.00	J
Lead	16.4	1.05	0.144	1.00	0.137	1.00	
Selenium	ND	1.05	0.278	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-a	**14-09-0479-7-A**	**09/02/14 13:20**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/18/14 11:11**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.57	1.06	0.415	1.00	0.389	1.00	
Cadmium	0.733	1.06	0.128	1.00	0.120	1.00	J
Lead	17.9	1.06	0.146	1.00	0.137	1.00	
Selenium	ND	1.06	0.281	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-b	**14-09-0479-8-A**	**09/02/14 13:29**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/18/14 11:14**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.06	1.04	0.407	1.00	0.389	1.00	
Cadmium	0.740	1.04	0.125	1.00	0.120	1.00	J
Lead	15.8	1.04	0.143	1.00	0.137	1.00	
Selenium	ND	1.04	0.276	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-c	**14-09-0479-9-A**	**09/02/14 13:32**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/18/14 11:16**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.22	1.05	0.409	1.00	0.389	1.00	
Cadmium	0.680	1.05	0.126	1.00	0.120	1.00	J
Lead	16.4	1.05	0.144	1.00	0.137	1.00	
Selenium	ND	1.05	0.278	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-a	**14-09-0479-10-A**	**09/02/14 13:35**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 02:52**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.74	1.05	0.409	1.00	0.389	1.00	
Cadmium	0.568	1.05	0.126	1.00	0.120	1.00	J
Lead	19.4	1.05	0.144	1.00	0.137	1.00	
Selenium	1.34	1.05	0.277	1.00	0.264	1.00	

1E-b	**14-09-0479-11-A**	**09/02/14 13:38**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 02:54**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.85	1.05	0.410	1.00	0.389	1.00	
Cadmium	0.610	1.05	0.126	1.00	0.120	1.00	J
Lead	16.6	1.05	0.144	1.00	0.137	1.00	
Selenium	0.479	1.05	0.278	1.00	0.264	1.00	J

1E-c	**14-09-0479-12-A**	**09/02/14 13:42**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 02:56**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.90	1.07	0.416	1.00	0.389	1.00	
Cadmium	0.683	1.07	0.128	1.00	0.120	1.00	J
Lead	15.0	1.07	0.146	1.00	0.137	1.00	
Selenium	ND	1.07	0.282	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-a	**14-09-0479-13-A**	**09/02/14 14:18**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 02:58**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.18	1.05	0.408	1.00	0.389	1.00	
Cadmium	0.669	1.05	0.126	1.00	0.120	1.00	J
Lead	18.8	1.05	0.144	1.00	0.137	1.00	
Selenium	0.602	1.05	0.277	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-b	**14-09-0479-14-A**	**09/02/14 14:21**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:00**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.19	1.06	0.411	1.00	0.389	1.00	
Cadmium	0.526	1.06	0.127	1.00	0.120	1.00	J
Lead	15.2	1.06	0.145	1.00	0.137	1.00	
Selenium	0.420	1.06	0.279	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-c	**14-09-0479-15-A**	**09/02/14 14:28**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:02**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.10	1.04	0.407	1.00	0.389	1.00	
Cadmium	0.640	1.04	0.125	1.00	0.120	1.00	J
Lead	16.5	1.04	0.143	1.00	0.137	1.00	
Selenium	0.296	1.04	0.276	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-a	**14-09-0479-16-A**	**09/02/14 14:21**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:05**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.89	1.04	0.404	1.00	0.389	1.00	
Cadmium	0.600	1.04	0.124	1.00	0.120	1.00	J
Lead	18.6	1.04	0.142	1.00	0.137	1.00	
Selenium	0.683	1.04	0.274	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-b	**14-09-0479-17-A**	**09/02/14 14:28**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:07**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.51	1.05	0.409	1.00	0.389	1.00	
Cadmium	0.701	1.05	0.126	1.00	0.120	1.00	J
Lead	16.4	1.05	0.144	1.00	0.137	1.00	
Selenium	0.455	1.05	0.277	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-c	**14-09-0479-18-A**	**09/02/14 14:32**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:09**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.06	0.413	1.00	0.389	1.00	
Cadmium	0.608	1.06	0.127	1.00	0.120	1.00	J
Lead	20.4	1.06	0.145	1.00	0.137	1.00	
Selenium	0.501	1.06	0.280	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-f	**14-09-0479-19-A**	**09/02/14 14:35**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:11**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.7	1.04	0.407	1.00	0.389	1.00	
Cadmium	0.608	1.04	0.125	1.00	0.120	1.00	J
Lead	18.4	1.04	0.143	1.00	0.137	1.00	
Selenium	0.360	1.04	0.276	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-e	**14-09-0479-20-A**	**09/02/14 14:39**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:20**	**140910L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.687	1.09	0.130	1.00	0.120	1.00	J
Lead	26.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.352	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-d	**14-09-0479-21-A**	**09/02/14 14:43**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:22**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.67	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.699	1.08	0.129	1.00	0.120	1.00	J
Lead	28.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.308	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-f	**14-09-0479-22-A**	**09/02/14 14:47**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:24**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.23	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.660	1.07	0.128	1.00	0.120	1.00	J
Lead	27.8	1.07	0.147	1.00	0.137	1.00	
Selenium	0.426	1.07	0.283	1.00	0.264	1.00	J

1F-e	**14-09-0479-23-A**	**09/02/14 14:58**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:26**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.59	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.718	1.08	0.129	1.00	0.120	1.00	J
Lead	27.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.451	1.08	0.284	1.00	0.264	1.00	J

1F-d	**14-09-0479-24-A**	**09/02/14 15:01**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:28**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.62	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.758	1.08	0.129	1.00	0.120	1.00	J
Lead	19.1	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.284	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-f	**14-09-0479-25-A**	**09/02/14 15:04**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:30**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.69	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.687	1.08	0.129	1.00	0.120	1.00	J
Lead	26.7	1.08	0.148	1.00	0.137	1.00	
Selenium	0.335	1.08	0.284	1.00	0.264	1.00	J

1E-e	**14-09-0479-26-A**	**09/02/14 15:09**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:33**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.673	1.07	0.128	1.00	0.120	1.00	J
Lead	28.2	1.07	0.146	1.00	0.137	1.00	
Selenium	ND	1.07	0.282	1.00	0.264	1.00	

1E-d	**14-09-0479-27-A**	**09/02/14 15:12**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:35**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.66	1.06	0.414	1.00	0.389	1.00	
Cadmium	0.685	1.06	0.127	1.00	0.120	1.00	J
Lead	27.2	1.06	0.146	1.00	0.137	1.00	
Selenium	0.421	1.06	0.281	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-f	**14-09-0479-28-A**	**09/02/14 15:34**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:37**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.69	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.707	1.08	0.130	1.00	0.120	1.00	J
Lead	25.2	1.08	0.149	1.00	0.137	1.00	
Selenium	ND	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-e	**14-09-0479-29-A**	**09/02/14 15:38**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:39**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.69	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.646	1.10	0.132	1.00	0.120	1.00	J
Lead	26.0	1.10	0.150	1.00	0.137	1.00	
Selenium	0.537	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-d	**14-09-0479-30-A**	**09/02/14 15:41**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:03**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.63	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.640	1.09	0.131	1.00	0.120	1.00	J
Lead	27.4	1.09	0.150	1.00	0.137	1.00	
Selenium	2.06	1.09	0.288	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-f	**14-09-0479-31-A**	**09/02/14 15:47**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:05**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.94	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.596	1.09	0.130	1.00	0.120	1.00	J
Lead	24.6	1.09	0.149	1.00	0.137	1.00	
Selenium	1.94	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-e	**14-09-0479-32-A**	**09/02/14 15:51**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:07**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.07	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.601	1.11	0.133	1.00	0.120	1.00	J
Lead	25.0	1.11	0.152	1.00	0.137	1.00	
Selenium	2.47	1.11	0.292	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-d	**14-09-0479-33-A**	**09/02/14 15:56**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:09**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.60	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.644	1.10	0.132	1.00	0.120	1.00	J
Lead	26.8	1.10	0.151	1.00	0.137	1.00	
Selenium	2.37	1.10	0.291	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-f	**14-09-0479-34-A**	**09/02/14 15:58**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:12**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.19	1.05	0.410	1.00	0.389	1.00	
Cadmium	0.600	1.05	0.126	1.00	0.120	1.00	J
Lead	15.9	1.05	0.144	1.00	0.137	1.00	
Selenium	1.91	1.05	0.278	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-e	**14-09-0479-35-A**	**09/02/14 16:02**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:14**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.0	1.05	0.410	1.00	0.389	1.00	
Cadmium	0.737	1.05	0.126	1.00	0.120	1.00	J
Lead	24.8	1.05	0.144	1.00	0.137	1.00	
Selenium	1.80	1.05	0.278	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-d	**14-09-0479-36-A**	**09/02/14 16:06**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:16**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.01	1.05	0.408	1.00	0.389	1.00	
Cadmium	0.631	1.05	0.126	1.00	0.120	1.00	J
Lead	14.6	1.05	0.144	1.00	0.137	1.00	
Selenium	1.47	1.05	0.276	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140902 Dup-1	**14-09-0479-37-A**	**09/02/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:18**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.35	1.06	0.411	1.00	0.389	1.00	
Cadmium	0.663	1.06	0.127	1.00	0.120	1.00	J
Lead	14.9	1.06	0.145	1.00	0.137	1.00	
Selenium	1.40	1.06	0.279	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140902 Dup-2	**14-09-0479-38-A**	**09/02/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:20**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.643	1.09	0.131	1.00	0.120	1.00	J
Lead	27.8	1.09	0.149	1.00	0.137	1.00	
Selenium	1.48	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-g	**14-09-0479-39-A**	**09/03/14 08:52**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:22**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.49	1.35	0.525	1.00	0.389	1.00	
Cadmium	0.576	1.35	0.162	1.00	0.120	1.00	J
Lead	15.0	1.35	0.185	1.00	0.137	1.00	
Selenium	1.41	1.35	0.356	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-h	**14-09-0479-40-A**	**09/03/14 09:02**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:31**	**140910L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.31	1.07	0.416	1.00	0.389	1.00	
Cadmium	0.566	1.07	0.128	1.00	0.120	1.00	J
Lead	17.7	1.07	0.147	1.00	0.137	1.00	
Selenium	1.43	1.07	0.282	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-i	**14-09-0479-41-A**	**09/03/14 09:04**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:33**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.87	1.38	0.535	1.00	0.389	1.00	
Cadmium	0.806	1.38	0.165	1.00	0.120	1.00	J
Lead	29.3	1.38	0.189	1.00	0.137	1.00	
Selenium	1.29	1.38	0.363	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-g	**14-09-0479-42-A**	**09/03/14 09:07**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:35**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.73	1.11	0.434	1.00	0.389	1.00	
Cadmium	0.677	1.11	0.134	1.00	0.120	1.00	J
Lead	26.5	1.11	0.153	1.00	0.137	1.00	
Selenium	1.76	1.11	0.294	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 13046.01 / Grand Park			Page 15 of 56

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-h	**14-09-0479-43-A**	**09/03/14 09:13**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:37**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.24	1.12	0.438	1.00	0.389	1.00	
Cadmium	0.647	1.12	0.135	1.00	0.120	1.00	J
Lead	26.3	1.12	0.154	1.00	0.137	1.00	
Selenium	1.34	1.12	0.297	1.00	0.264	1.00	

1C-i	**14-09-0479-44-A**	**09/03/14 09:17**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:40**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.752	1.09	0.130	1.00	0.120	1.00	J
Lead	27.5	1.09	0.149	1.00	0.137	1.00	
Selenium	1.31	1.09	0.287	1.00	0.264	1.00	

1D-g	**14-09-0479-45-A**	**09/03/14 09:24**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:42**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.37	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.600	1.08	0.130	1.00	0.120	1.00	J
Lead	25.6	1.08	0.148	1.00	0.137	1.00	
Selenium	1.60	1.08	0.286	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-h	**14-09-0479-46-A**	**09/03/14 09:30**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:44**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.47	1.35	0.525	1.00	0.389	1.00	
Cadmium	0.660	1.35	0.162	1.00	0.120	1.00	J
Lead	27.1	1.35	0.185	1.00	0.137	1.00	
Selenium	1.08	1.35	0.356	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-i	**14-09-0479-47-A**	**09/03/14 09:37**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:46**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.10	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.654	1.10	0.132	1.00	0.120	1.00	J
Lead	26.6	1.10	0.151	1.00	0.137	1.00	
Selenium	1.24	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-g	**14-09-0479-48-A**	**09/03/14 09:45**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:48**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.74	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.766	1.09	0.131	1.00	0.120	1.00	J
Lead	28.8	1.09	0.150	1.00	0.137	1.00	
Selenium	1.05	1.09	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-h	**14-09-0479-49-A**	**09/03/14 09:49**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:50**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.54	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.726	1.10	0.132	1.00	0.120	1.00	J
Lead	28.2	1.10	0.151	1.00	0.137	1.00	
Selenium	1.42	1.10	0.291	1.00	0.264	1.00	

1E-i	**14-09-0479-50-A**	**09/03/14 09:52**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:14**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.19	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.652	1.08	0.130	1.00	0.120	1.00	J
Lead	27.0	1.08	0.149	1.00	0.137	1.00	
Selenium	1.98	1.08	0.286	1.00	0.264	1.00	

1F-g	**14-09-0479-51-A**	**09/03/14 09:57**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:16**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.10	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.769	1.09	0.131	1.00	0.120	1.00	J
Lead	29.5	1.09	0.150	1.00	0.137	1.00	
Selenium	1.93	1.09	0.288	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-h	**14-09-0479-52-A**	**09/03/14 10:02**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:19**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.801	1.09	0.131	1.00	0.120	1.00	J
Lead	28.9	1.09	0.150	1.00	0.137	1.00	
Selenium	1.81	1.09	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-i	**14-09-0479-53-A**	**09/03/14 10:05**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:21**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.40	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.700	1.09	0.130	1.00	0.120	1.00	J
Lead	27.7	1.09	0.149	1.00	0.137	1.00	
Selenium	2.33	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-g	**14-09-0479-54-A**	**09/03/14 10:08**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:23**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.711	1.07	0.128	1.00	0.120	1.00	J
Lead	28.0	1.07	0.147	1.00	0.137	1.00	
Selenium	1.48	1.07	0.283	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-h	**14-09-0479-55-A**	**09/03/14 10:12**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:25**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.82	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.712	1.10	0.132	1.00	0.120	1.00	J
Lead	28.5	1.10	0.151	1.00	0.137	1.00	
Selenium	1.37	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-i	**14-09-0479-56-A**	**09/03/14 10:16**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:27**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.701	1.09	0.131	1.00	0.120	1.00	J
Lead	26.5	1.09	0.149	1.00	0.137	1.00	
Selenium	1.24	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-c	**14-09-0479-57-A**	**09/03/14 10:37**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:29**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.9	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.762	1.09	0.131	1.00	0.120	1.00	J
Lead	26.7	1.09	0.150	1.00	0.137	1.00	
Selenium	1.01	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-b	**14-09-0479-58-A**	**09/03/14 10:40**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:32**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.94	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.745	1.08	0.129	1.00	0.120	1.00	J
Lead	28.9	1.08	0.148	1.00	0.137	1.00	
Selenium	1.36	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-a	**14-09-0479-59-A**	**09/03/14 10:42**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 05:34**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.77	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.659	1.08	0.129	1.00	0.120	1.00	J
Lead	25.7	1.08	0.148	1.00	0.137	1.00	
Selenium	1.22	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-c	**14-09-0479-60-A**	**09/03/14 10:45**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/18/14 11:19**	**140910L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.45	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.741	1.09	0.131	1.00	0.120	1.00	J
Lead	26.0	1.09	0.150	1.00	0.137	1.00	
Selenium	ND	1.09	0.289	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-b	**14-09-0479-61-A**	**09/03/14 10:47**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:15**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.59	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.766	1.08	0.130	1.00	0.120	1.00	J
Lead	17.1	1.08	0.149	1.00	0.137	1.00	
Selenium	ND	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-a	**14-09-0479-62-A**	**09/03/14 10:52**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/18/14 11:22**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.80	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.713	1.08	0.129	1.00	0.120	1.00	J
Lead	25.2	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-c	**14-09-0479-63-A**	**09/03/14 10:58**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/18/14 11:24**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.57	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.721	1.10	0.132	1.00	0.120	1.00	J
Lead	23.1	1.10	0.151	1.00	0.137	1.00	
Selenium	ND	1.10	0.291	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-b	**14-09-0479-64-A**	**09/03/14 11:01**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 19:47**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.92	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.684	1.10	0.132	1.00	0.120	1.00	J
Lead	27.4	1.10	0.151	1.00	0.137	1.00	
Selenium	ND	1.10	0.292	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-a	**14-09-0479-65-A**	**09/03/14 11:04**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 19:50**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.90	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.666	1.09	0.131	1.00	0.120	1.00	J
Lead	24.9	1.09	0.150	1.00	0.137	1.00	
Selenium	ND	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-c	**14-09-0479-66-A**	**09/03/14 11:08**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 19:52**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.82	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.648	1.09	0.131	1.00	0.120	1.00	J
Lead	26.9	1.09	0.150	1.00	0.137	1.00	
Selenium	0.388	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-b	**14-09-0479-67-A**	**09/03/14 11:14**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 19:55**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.55	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.647	1.10	0.132	1.00	0.120	1.00	J
Lead	24.5	1.10	0.151	1.00	0.137	1.00	
Selenium	0.560	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-a	**14-09-0479-68-A**	**09/03/14 11:16**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 19:58**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.97	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.675	1.09	0.131	1.00	0.120	1.00	J
Lead	25.4	1.09	0.150	1.00	0.137	1.00	
Selenium	ND	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-c	**14-09-0479-69-A**	**09/03/14 13:18**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:00**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.08	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.723	1.09	0.131	1.00	0.120	1.00	J
Lead	27.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.378	1.09	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-b	**14-09-0479-70-A**	**09/03/14 13:25**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:03**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.60	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.663	1.12	0.134	1.00	0.120	1.00	J
Lead	25.9	1.12	0.153	1.00	0.137	1.00	
Selenium	0.417	1.12	0.295	1.00	0.264	1.00	J

2C-a	**14-09-0479-71-A**	**09/03/14 13:29**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:06**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.02	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.663	1.10	0.132	1.00	0.120	1.00	J
Lead	26.2	1.10	0.151	1.00	0.137	1.00	
Selenium	0.631	1.10	0.292	1.00	0.264	1.00	J

2B-c	**14-09-0479-72-A**	**09/03/14 13:33**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:17**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.48	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.765	1.11	0.133	1.00	0.120	1.00	J
Lead	27.2	1.11	0.152	1.00	0.137	1.00	
Selenium	ND	1.11	0.293	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-b	**14-09-0479-73-A**	**09/03/14 13:38**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:20**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.59	1.06	0.415	1.00	0.389	1.00	
Cadmium	0.670	1.06	0.128	1.00	0.120	1.00	J
Lead	26.4	1.06	0.146	1.00	0.137	1.00	
Selenium	0.346	1.06	0.281	1.00	0.264	1.00	J

2B-a	**14-09-0479-74-A**	**09/03/14 13:47**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:22**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.65	1.05	0.409	1.00	0.389	1.00	
Cadmium	0.570	1.05	0.126	1.00	0.120	1.00	J
Lead	15.0	1.05	0.144	1.00	0.137	1.00	
Selenium	ND	1.05	0.278	1.00	0.264	1.00	

2B-d	**14-09-0479-75-A**	**09/03/14 13:50**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:25**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.95	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.595	1.07	0.129	1.00	0.120	1.00	J
Lead	15.3	1.07	0.147	1.00	0.137	1.00	
Selenium	ND	1.07	0.284	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-e	**14-09-0479-76-A**	**09/03/14 13:53**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:28**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.73	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.666	1.08	0.130	1.00	0.120	1.00	J
Lead	26.5	1.08	0.148	1.00	0.137	1.00	
Selenium	0.498	1.08	0.285	1.00	0.264	1.00	J

2B-f	**14-09-0479-77-A**	**09/03/14 13:57**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:03**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.0	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.627	1.10	0.131	1.00	0.120	1.00	J
Lead	24.0	1.10	0.150	1.00	0.137	1.00	
Selenium	0.679	1.10	0.289	1.00	0.264	1.00	J

2C-d	**14-09-0479-78-A**	**09/03/14 14:09**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:06**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.9	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.640	1.09	0.131	1.00	0.120	1.00	J
Lead	25.2	1.09	0.150	1.00	0.137	1.00	
Selenium	0.545	1.09	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-e	**14-09-0479-79-A**	**09/03/14 14:14**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:08**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.8	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.676	1.09	0.131	1.00	0.120	1.00	J
Lead	24.9	1.09	0.150	1.00	0.137	1.00	
Selenium	0.356	1.09	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-f	**14-09-0479-80-A**	**09/03/14 14:18**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:11**	**140910L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	18.0	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.757	1.09	0.131	1.00	0.120	1.00	J
Lead	26.6	1.09	0.149	1.00	0.137	1.00	
Selenium	0.333	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-d	**14-09-0479-81-A**	**09/03/14 14:22**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:14**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.6	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.717	1.09	0.131	1.00	0.120	1.00	J
Lead	27.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.345	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-e	**14-09-0479-82-A**	**09/03/14 14:41**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:16**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.3	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.705	1.09	0.131	1.00	0.120	1.00	J
Lead	25.8	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-f	**14-09-0479-83-A**	**09/03/14 14:46**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:19**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.7	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.705	1.09	0.131	1.00	0.120	1.00	J
Lead	26.9	1.09	0.149	1.00	0.137	1.00	
Selenium	0.407	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-d	**14-09-0479-84-A**	**09/03/14 14:50**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:22**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.6	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.696	1.10	0.132	1.00	0.120	1.00	J
Lead	26.6	1.10	0.151	1.00	0.137	1.00	
Selenium	0.337	1.10	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-e	**14-09-0479-85-A**	**09/03/14 14:53**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:24**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.4	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.678	1.09	0.131	1.00	0.120	1.00	J
Lead	26.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.374	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-f	**14-09-0479-86-A**	**09/03/14 14:58**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:27**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.7	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.682	1.09	0.130	1.00	0.120	1.00	J
Lead	26.1	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-d	**14-09-0479-87-A**	**09/03/14 15:04**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:38**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.6	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.663	1.08	0.129	1.00	0.120	1.00	J
Lead	26.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.814	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-e	**14-09-0479-88-A**	**09/03/14 15:13**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:41**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.9	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.711	1.10	0.132	1.00	0.120	1.00	J
Lead	26.9	1.10	0.151	1.00	0.137	1.00	
Selenium	0.383	1.10	0.291	1.00	0.264	1.00	J

2F-f	**14-09-0479-89-A**	**09/03/14 15:17**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:43**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.3	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.736	1.08	0.129	1.00	0.120	1.00	J
Lead	28.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.463	1.08	0.285	1.00	0.264	1.00	J

2G-d	**14-09-0479-90-A**	**09/03/14 15:21**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:37**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.54	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.641	1.08	0.129	1.00	0.120	1.00	J
Lead	26.7	1.08	0.148	1.00	0.137	1.00	
Selenium	1.80	1.08	0.285	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-e	**14-09-0479-91-A**	**09/03/14 15:41**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:39**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.752	1.07	0.129	1.00	0.120	1.00	J
Lead	27.8	1.07	0.147	1.00	0.137	1.00	
Selenium	0.694	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-f	**14-09-0479-92-A**	**09/03/14 15:44**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:41**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.7	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.587	1.08	0.129	1.00	0.120	1.00	J
Lead	26.4	1.08	0.148	1.00	0.137	1.00	
Selenium	2.04	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-i	**14-09-0479-93-A**	**09/03/14 15:49**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:43**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	18.2	1.06	0.413	1.00	0.389	1.00	
Cadmium	0.627	1.06	0.127	1.00	0.120	1.00	J
Lead	24.9	1.06	0.145	1.00	0.137	1.00	
Selenium	1.40	1.06	0.280	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-h	**14-09-0479-94-A**	**09/03/14 15:54**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:45**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.723	1.08	0.129	1.00	0.120	1.00	J
Lead	27.2	1.08	0.148	1.00	0.137	1.00	
Selenium	1.60	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-g	**14-09-0479-95-A**	**09/03/14 15:57**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:48**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.746	1.08	0.130	1.00	0.120	1.00	J
Lead	28.8	1.08	0.149	1.00	0.137	1.00	
Selenium	2.45	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-i	**14-09-0479-96-A**	**09/03/14 16:03**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:50**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.20	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.622	1.07	0.128	1.00	0.120	1.00	J
Lead	26.2	1.07	0.146	1.00	0.137	1.00	
Selenium	1.61	1.07	0.282	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 13046.01 / Grand Park			Page 33 of 56

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-h	**14-09-0479-97-A**	**09/03/14 16:07**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:52**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.94	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.723	1.08	0.130	1.00	0.120	1.00	J
Lead	29.3	1.08	0.148	1.00	0.137	1.00	
Selenium	1.83	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-g	**14-09-0479-98-A**	**09/03/14 16:12**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:54**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.84	1.06	0.414	1.00	0.389	1.00	
Cadmium	0.639	1.06	0.128	1.00	0.120	1.00	J
Lead	25.3	1.06	0.146	1.00	0.137	1.00	
Selenium	1.35	1.06	0.281	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-i	**14-09-0479-99-A**	**09/03/14 16:19**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 07:56**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.52	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.660	1.07	0.128	1.00	0.120	1.00	J
Lead	28.1	1.07	0.147	1.00	0.137	1.00	
Selenium	1.94	1.07	0.283	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-h	**14-09-0479-100-A**	**09/03/14 16:27**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:05**	**140910L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.50	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.690	1.11	0.133	1.00	0.120	1.00	J
Lead	28.0	1.11	0.152	1.00	0.137	1.00	
Selenium	1.93	1.11	0.292	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-g	**14-09-0479-101-A**	**09/03/14 16:30**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:07**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.689	1.12	0.134	1.00	0.120	1.00	J
Lead	28.6	1.12	0.153	1.00	0.137	1.00	
Selenium	2.32	1.12	0.295	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-1	**14-09-0479-102-A**	**09/03/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:09**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.45	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.647	1.12	0.134	1.00	0.120	1.00	J
Lead	26.1	1.12	0.154	1.00	0.137	1.00	
Selenium	1.71	1.12	0.296	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 13046.01 / Grand Park			Page 35 of 56

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-2	**14-09-0479-103-A**	**09/03/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:11**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.16	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.670	1.08	0.129	1.00	0.120	1.00	J
Lead	26.1	1.08	0.148	1.00	0.137	1.00	
Selenium	2.16	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-3	**14-09-0479-104-A**	**09/03/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:13**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.661	1.09	0.130	1.00	0.120	1.00	J
Lead	27.0	1.09	0.149	1.00	0.137	1.00	
Selenium	2.77	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140903 DUP-4	**14-09-0479-105-A**	**09/03/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:16**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.49	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.753	1.11	0.133	1.00	0.120	1.00	J
Lead	28.8	1.11	0.153	1.00	0.137	1.00	
Selenium	2.50	1.11	0.294	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-a	**14-09-0479-106-A**	**09/04/14 09:34**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:18**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.90	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.672	1.10	0.132	1.00	0.120	1.00	J
Lead	25.9	1.10	0.150	1.00	0.137	1.00	
Selenium	2.60	1.10	0.290	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-b	**14-09-0479-107-A**	**09/04/14 09:42**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:20**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.66	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.659	1.09	0.130	1.00	0.120	1.00	J
Lead	27.4	1.09	0.149	1.00	0.137	1.00	
Selenium	2.59	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-c	**14-09-0479-108-A**	**09/04/14 09:47**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:22**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.08	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.614	1.10	0.131	1.00	0.120	1.00	J
Lead	26.1	1.10	0.150	1.00	0.137	1.00	
Selenium	3.37	1.10	0.289	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-a	**14-09-0479-109-A**	**09/04/14 09:56**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:24**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.654	1.11	0.133	1.00	0.120	1.00	J
Lead	28.1	1.11	0.152	1.00	0.137	1.00	
Selenium	3.82	1.11	0.292	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-b	**14-09-0479-110-A**	**09/04/14 10:05**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:46**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.9	1.13	0.439	1.00	0.389	1.00	
Cadmium	0.657	1.13	0.135	1.00	0.120	1.00	J
Lead	27.2	1.13	0.155	1.00	0.137	1.00	
Selenium	0.948	1.13	0.298	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-c	**14-09-0479-111-A**	**09/04/14 10:10**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:49**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.683	1.09	0.131	1.00	0.120	1.00	J
Lead	25.2	1.09	0.150	1.00	0.137	1.00	
Selenium	0.759	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-a	**14-09-0479-112-A**	**09/04/14 10:14**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:51**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.3	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.629	1.09	0.131	1.00	0.120	1.00	J
Lead	26.0	1.09	0.150	1.00	0.137	1.00	
Selenium	0.652	1.09	0.288	1.00	0.264	1.00	J

3E-b	**14-09-0479-113-A**	**09/04/14 10:19**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:54**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.3	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.724	1.09	0.130	1.00	0.120	1.00	J
Lead	27.3	1.09	0.149	1.00	0.137	1.00	
Selenium	1.67	1.09	0.287	1.00	0.264	1.00	

3E-c	**14-09-0479-114-A**	**09/04/14 10:25**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:20**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.16	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.634	1.09	0.131	1.00	0.120	1.00	J
Lead	25.5	1.09	0.150	1.00	0.137	1.00	
Selenium	0.464	1.09	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-a	**14-09-0479-115-A**	**09/04/14 10:57**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:23**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.47	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.663	1.10	0.132	1.00	0.120	1.00	J
Lead	25.4	1.10	0.151	1.00	0.137	1.00	
Selenium	0.464	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-b	**14-09-0479-116-A**	**09/04/14 11:03**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:26**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.81	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.698	1.08	0.130	1.00	0.120	1.00	J
Lead	26.5	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-c	**14-09-0479-117-A**	**09/04/14 11:06**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:28**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.85	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.629	1.10	0.132	1.00	0.120	1.00	J
Lead	25.4	1.10	0.151	1.00	0.137	1.00	
Selenium	0.396	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140904 DUP-1	**14-09-0479-118-A**	**09/04/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:31**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.69	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.781	1.09	0.130	1.00	0.120	1.00	J
Lead	27.2	1.09	0.149	1.00	0.137	1.00	
Selenium	0.358	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-a	**14-09-0479-119-A**	**09/04/14 11:12**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:34**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.27	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.660	1.09	0.131	1.00	0.120	1.00	J
Lead	25.4	1.09	0.150	1.00	0.137	1.00	
Selenium	ND	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-b	**14-09-0479-120-A**	**09/04/14 11:16**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:36**	**140910L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.63	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.705	1.09	0.130	1.00	0.120	1.00	J
Lead	26.0	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-c	**14-09-0479-121-A**	**09/04/14 11:21**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:39**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.94	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.643	1.09	0.130	1.00	0.120	1.00	J
Lead	24.9	1.09	0.149	1.00	0.137	1.00	
Selenium	0.388	1.09	0.287	1.00	0.264	1.00	J

3G-f	**14-09-0479-122-A**	**09/04/14 11:25**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:42**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.31	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.615	1.09	0.131	1.00	0.120	1.00	J
Lead	25.5	1.09	0.149	1.00	0.137	1.00	
Selenium	0.366	1.09	0.288	1.00	0.264	1.00	J

3G-e	**14-09-0479-123-A**	**09/04/14 11:30**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:44**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.57	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.664	1.10	0.132	1.00	0.120	1.00	J
Lead	27.1	1.10	0.151	1.00	0.137	1.00	
Selenium	0.514	1.10	0.291	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-d	**14-09-0479-124-A**	**09/04/14 11:39**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 19:49**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.20	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.663	1.09	0.130	1.00	0.120	1.00	J
Lead	26.5	1.09	0.149	1.00	0.137	1.00	
Selenium	0.685	1.09	0.287	1.00	0.264	1.00	J

3F-f	**14-09-0479-125-A**	**09/04/14 11:45**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 19:52**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.15	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.665	1.09	0.131	1.00	0.120	1.00	J
Lead	28.3	1.09	0.150	1.00	0.137	1.00	
Selenium	0.333	1.09	0.289	1.00	0.264	1.00	J

3F-e	**14-09-0479-126-A**	**09/04/14 11:48**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 19:54**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.56	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.684	1.11	0.133	1.00	0.120	1.00	J
Lead	26.8	1.11	0.153	1.00	0.137	1.00	
Selenium	0.339	1.11	0.294	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-d	**14-09-0479-127-A**	**09/04/14 11:55**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 19:57**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.93	1.11	0.434	1.00	0.389	1.00	
Cadmium	0.695	1.11	0.134	1.00	0.120	1.00	J
Lead	25.2	1.11	0.153	1.00	0.137	1.00	
Selenium	0.561	1.11	0.294	1.00	0.264	1.00	J

3E-f	**14-09-0479-128-A**	**09/04/14 12:06**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 20:00**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.712	1.11	0.133	1.00	0.120	1.00	J
Lead	27.6	1.11	0.153	1.00	0.137	1.00	
Selenium	0.901	1.11	0.294	1.00	0.264	1.00	J

3E-e	**14-09-0479-129-A**	**09/04/14 12:11**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 20:02**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.662	1.09	0.130	1.00	0.120	1.00	J
Lead	26.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.653	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-d	**14-09-0479-130-A**	**09/04/14 12:15**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:30**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.48	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.682	1.10	0.132	1.00	0.120	1.00	J
Lead	27.9	1.10	0.151	1.00	0.137	1.00	
Selenium	0.337	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-f	**14-09-0479-131-A**	**09/04/14 12:21**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:33**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.58	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.604	1.12	0.134	1.00	0.120	1.00	J
Lead	24.7	1.12	0.154	1.00	0.137	1.00	
Selenium	0.552	1.12	0.296	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-e	**14-09-0479-132-A**	**09/04/14 13:59**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:44**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.7	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.739	1.10	0.132	1.00	0.120	1.00	J
Lead	30.2	1.10	0.151	1.00	0.137	1.00	
Selenium	0.485	1.10	0.291	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-d	**14-09-0479-133-A**	**09/04/14 14:05**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:47**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.83	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.545	1.08	0.129	1.00	0.120	1.00	J
Lead	25.1	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-f	**14-09-0479-134-A**	**09/04/14 14:10**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:50**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.45	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.578	1.10	0.131	1.00	0.120	1.00	J
Lead	26.6	1.10	0.150	1.00	0.137	1.00	
Selenium	0.330	1.10	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-e	**14-09-0479-135-A**	**09/04/14 14:16**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:52**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.12	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.623	1.09	0.131	1.00	0.120	1.00	J
Lead	28.3	1.09	0.150	1.00	0.137	1.00	
Selenium	0.333	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-d	**14-09-0479-136-A**	**09/04/14 14:20**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:55**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.45	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.584	1.10	0.132	1.00	0.120	1.00	J
Lead	27.7	1.10	0.150	1.00	0.137	1.00	
Selenium	ND	1.10	0.290	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-f	**14-09-0479-137-A**	**09/04/14 14:24**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 20:58**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.88	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.595	1.08	0.129	1.00	0.120	1.00	J
Lead	26.5	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-e	**14-09-0479-138-A**	**09/04/14 14:30**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 21:00**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.16	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.615	1.09	0.130	1.00	0.120	1.00	J
Lead	29.4	1.09	0.149	1.00	0.137	1.00	
Selenium	0.377	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-d	**14-09-0479-139-A**	**09/04/14 14:36**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 21:03**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.69	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.504	1.07	0.128	1.00	0.120	1.00	J
Lead	14.7	1.07	0.147	1.00	0.137	1.00	
Selenium	ND	1.07	0.283	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-g	**14-09-0479-140-A**	**09/04/14 14:40**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:07**	**140910L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.77	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.463	1.07	0.129	1.00	0.120	1.00	J
Lead	15.6	1.07	0.147	1.00	0.137	1.00	
Selenium	0.345	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-h	**14-09-0479-141-A**	**09/04/14 14:44**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:10**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.728	1.07	0.129	1.00	0.120	1.00	J
Lead	28.5	1.07	0.147	1.00	0.137	1.00	
Selenium	0.390	1.07	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-i	**14-09-0479-142-A**	**09/04/14 14:49**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:13**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.565	1.09	0.131	1.00	0.120	1.00	J
Lead	24.2	1.09	0.150	1.00	0.137	1.00	
Selenium	0.662	1.09	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140904 DUP-2	**14-09-0479-143-A**	**09/04/14 12:00**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:15**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.6	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.685	1.10	0.131	1.00	0.120	1.00	J
Lead	27.6	1.10	0.150	1.00	0.137	1.00	
Selenium	0.333	1.10	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-g	**14-09-0479-144-A**	**09/04/14 14:53**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:18**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.584	1.08	0.130	1.00	0.120	1.00	J
Lead	24.7	1.08	0.149	1.00	0.137	1.00	
Selenium	0.729	1.08	0.286	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-h	**14-09-0479-145-A**	**09/04/14 14:57**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:21**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.43	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.538	1.08	0.129	1.00	0.120	1.00	J
Lead	23.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.596	1.08	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-i	**14-09-0479-146-A**	**09/04/14 15:02**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:23**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.555	1.10	0.131	1.00	0.120	1.00	J
Lead	24.9	1.10	0.150	1.00	0.137	1.00	
Selenium	0.513	1.10	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-g	**14-09-0479-147-A**	**09/04/14 15:06**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:26**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.1	2.17	0.844	1.00	0.389	2.00	
Cadmium	0.963	2.17	0.260	1.00	0.120	2.00	J
Lead	36.3	2.17	0.297	1.00	0.137	2.00	
Selenium	0.664	2.17	0.573	1.00	0.264	2.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-h	**14-09-0479-148-A**	**09/04/14 15:14**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:29**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.0	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.656	1.10	0.132	1.00	0.120	1.00	J
Lead	26.9	1.10	0.151	1.00	0.137	1.00	
Selenium	0.652	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-i	**14-09-0479-149-A**	**09/04/14 15:18**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:31**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.592	1.09	0.130	1.00	0.120	1.00	J
Lead	25.6	1.09	0.149	1.00	0.137	1.00	
Selenium	0.426	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-g	**14-09-0479-150-A**	**09/04/14 09:08**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:42**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.39	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.507	1.07	0.129	1.00	0.120	1.00	J
Lead	14.2	1.07	0.147	1.00	0.137	1.00	
Selenium	ND	1.07	0.283	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-h	**14-09-0479-151-A**	**09/04/14 09:02**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:45**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.3	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.664	1.09	0.130	1.00	0.120	1.00	J
Lead	27.7	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2B-i	**14-09-0479-152-A**	**09/04/14 08:59**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:48**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.691	1.11	0.133	1.00	0.120	1.00	J
Lead	26.1	1.11	0.152	1.00	0.137	1.00	
Selenium	0.442	1.11	0.293	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-g	**14-09-0479-153-A**	**09/04/14 08:55**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:50**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.3	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.654	1.10	0.132	1.00	0.120	1.00	J
Lead	27.9	1.10	0.151	1.00	0.137	1.00	
Selenium	0.319	1.10	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-h	**14-09-0479-154-A**	**09/04/14 08:51**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:53**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.4	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.449	1.09	0.130	1.00	0.120	1.00	J
Lead	15.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.439	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-i	**14-09-0479-155-A**	**09/04/14 08:46**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:56**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.5	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.659	1.09	0.131	1.00	0.120	1.00	J
Lead	28.2	1.09	0.149	1.00	0.137	1.00	
Selenium	0.807	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-g	**14-09-0479-156-A**	**09/04/14 08:41**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:58**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.13	0.440	1.00	0.389	1.00	
Cadmium	0.731	1.13	0.135	1.00	0.120	1.00	J
Lead	28.8	1.13	0.155	1.00	0.137	1.00	
Selenium	ND	1.13	0.298	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-h	**14-09-0479-157-A**	**09/04/14 08:29**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 22:01**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.5	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.651	1.09	0.130	1.00	0.120	1.00	J
Lead	27.1	1.09	0.149	1.00	0.137	1.00	
Selenium	0.548	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2D-i	**14-09-0479-158-A**	**09/04/14 08:19**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 22:04**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.0	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.681	1.11	0.133	1.00	0.120	1.00	J
Lead	28.4	1.11	0.152	1.00	0.137	1.00	
Selenium	0.501	1.11	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-a	**14-09-0479-159-A**	**09/04/14 09:15**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 22:06**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	17.2	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.514	1.08	0.129	1.00	0.120	1.00	J
Lead	15.3	1.08	0.148	1.00	0.137	1.00	
Selenium	0.402	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-b	**14-09-0479-160-A**	**09/04/14 09:20**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 12:37**	**140910L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.18	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.604	1.09	0.130	1.00	0.120	1.00	J
Lead	22.9	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-c	**14-09-0479-161-A**	**09/04/14 09:29**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 12:39**	**140910L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.15	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.658	1.09	0.131	1.00	0.120	1.00	J
Lead	26.5	1.09	0.150	1.00	0.137	1.00	
Selenium	ND	1.09	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-609**	**N/A**	**Solid**	**ICP/MS 03**	**09/10/14**	**09/12/14 16:58**	**140910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-601**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:40**	**140910L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-602**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:42**	**140910L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-603**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:44**	**140910L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-604**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:46**	**140910L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-605**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:51**	**140910L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-606**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:53**	**140910L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-607**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:55**	**140910L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-608**	**N/A**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 20:57**	**140910L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0471-1	**Sample**	**Solid**	**ICP/MS 03**	**09/10/14**	**09/12/14 17:20**	**140910S01**
14-09-0471-1	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/10/14**	**09/12/14 17:07**	**140910S01**
14-09-0471-1	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/10/14**	**09/12/14 17:11**	**140910S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.655	25.00	33.54	104	33.71	104	80-120	1	0-20	
Cadmium	0.3461	25.00	28.13	111	28.26	112	80-120	0	0-20	
Lead	9.522	25.00	36.02	106	36.02	106	80-120	0	0-20	
Selenium	0.3207	25.00	26.85	106	26.46	105	80-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
1B-a	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:18**	**140910S04**
1B-a	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 12:42**	**140910S04**
1B-a	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 12:45**	**140910S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.489	25.00	31.70	97	31.30	95	72-132	1	0-13	
Cadmium	ND	25.00	26.80	107	27.06	108	85-121	1	0-12	
Lead	13.33	25.00	41.48	113	41.88	114	62-134	1	0-23	
Selenium	ND	25.00	23.30	93	23.42	94	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
1G-d	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 03:22**	**140910S05**
1G-d	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 12:50**	**140910S05**
1G-d	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 12:53**	**140910S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.962	25.00	32.25	93	32.05	92	72-132	1	0-13	
Cadmium	ND	25.00	27.59	110	27.18	109	85-121	1	0-12	
Lead	26.30	25.00	55.45	117	56.26	120	62-134	1	0-23	
Selenium	ND	25.00	24.59	98	24.54	98	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
1B-i	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 04:33**	**140910S06**
1B-i	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 13:30**	**140910S06**
1B-i	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 13:32**	**140910S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.173	25.00	31.07	96	31.35	97	72-132	1	0-13	
Cadmium	ND	25.00	29.43	118	28.58	114	85-121	3	0-12	
Lead	21.31	25.00	46.46	101	45.56	97	62-134	2	0-23	
Selenium	ND	25.00	25.58	102	25.26	101	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 5 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
2F-b	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 17:15**	**140910S07**
2F-b	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 13:38**	**140910S07**
2F-b	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 13:40**	**140910S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.152	25.00	31.25	104	31.36	105	72-132	0	0-13	
Cadmium	ND	25.00	29.26	117	29.11	116	85-121	1	0-12	
Lead	15.75	25.00	42.22	106	42.85	108	62-134	1	0-23	
Selenium	ND	25.00	25.47	102	25.00	100	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 6 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
2D-d	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 03:14**	**140910S09**
2D-d	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 13:46**	**140910S09**
2D-d	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 13:49**	**140910S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	14.26	25.00	32.76	74	31.91	71	72-132	3	0-13	3
Cadmium	ND	25.00	29.34	117	29.02	116	85-121	1	0-12	
Lead	24.83	25.00	52.48	111	52.12	109	62-134	1	0-23	
Selenium	ND	25.00	24.74	99	24.11	96	54-132	3	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
2E-g	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 08:07**	**140910S10**
2E-g	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 15:21**	**140910S10**
2E-g	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 15:24**	**140910S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.105	25.00	33.56	98	33.30	97	72-132	1	0-13	
Cadmium	ND	25.00	26.90	108	26.82	107	85-121	0	0-12	
Lead	25.65	25.00	50.23	98	49.70	96	62-134	1	0-23	
Selenium	2.082	25.00	24.38	89	24.80	91	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
3G-c	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 16:39**	**140910S11**
3G-c	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 15:29**	**140910S11**
3G-c	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 15:32**	**140910S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.393	25.00	41.18	139	42.06	143	72-132	2	0-13	3
Cadmium	ND	25.00	32.53	130	32.42	130	85-121	0	0-12	3
Lead	22.89	25.00	58.46	142	57.47	138	62-134	2	0-23	3
Selenium	ND	25.00	30.43	122	29.80	119	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
3B-h	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 21:10**	**140910S12**
3B-h	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 15:37**	**140910S12**
3B-h	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/17/14 15:40**	**140910S12**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.492	25.00	32.94	94	32.64	93	72-132	1	0-13	
Cadmium	ND	25.00	27.37	109	27.58	110	85-121	1	0-12	
Lead	26.52	25.00	51.36	99	50.59	96	62-134	2	0-23	
Selenium	ND	25.00	24.59	98	24.79	99	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-09-0471-1	**Sample**	**Solid**	**ICP/MS 03**	**09/10/14 00:00**	**09/12/14 17:20**	**140910S01**
14-09-0471-1	**PDS**	**Solid**	**ICP/MS 03**	**09/10/14 00:00**	**09/12/14 17:14**	**140910S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.655	25.00	32.35	99	75-125	
Cadmium	0.3461	25.00	26.82	106	75-125	
Lead	9.522	25.00	34.70	101	75-125	
Selenium	0.3207	25.00	27.62	109	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
1B-a	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 17:18**	**140910S04**
1B-a	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 12:48**	**140910S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.489	25.00	31.11	94	75-125	
Cadmium	ND	25.00	26.17	105	75-125	
Lead	13.33	25.00	39.65	105	75-125	
Selenium	ND	25.00	24.43	98	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
1G-d	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/16/14 03:22**	**140910S05**
1G-d	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 12:56**	**140910S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.962	25.00	32.37	94	75-125	
Cadmium	ND	25.00	26.26	105	75-125	
Lead	26.30	25.00	52.90	106	75-125	
Selenium	ND	25.00	24.89	100	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

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812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
1B-i	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/16/14 04:33**	**140910S06**
1B-i	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 13:35**	**140910S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.173	25.00	31.34	97	75-125	
Cadmium	ND	25.00	26.97	108	75-125	
Lead	21.31	25.00	45.45	97	75-125	
Selenium	ND	25.00	26.00	104	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
2F-b	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 17:15**	**140910S07**
2F-b	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 13:43**	**140910S07**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.152	25.00	29.85	99	75-125	
Cadmium	ND	25.00	26.33	105	75-125	
Lead	15.75	25.00	39.69	96	75-125	
Selenium	ND	25.00	24.92	100	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
2D-d	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 03:14**	**140910S09**
2D-d	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 13:51**	**140910S09**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	14.26	25.00	31.52	69	75-125	5
Cadmium	ND	25.00	26.29	105	75-125	
Lead	24.83	25.00	49.79	100	75-125	
Selenium	ND	25.00	24.70	99	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
2E-g	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/16/14 08:07**	**140910S10**
2E-g	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 15:27**	**140910S10**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.105	25.00	35.20	104	75-125	
Cadmium	ND	25.00	26.12	104	75-125	
Lead	25.65	25.00	49.27	94	75-125	
Selenium	2.082	25.00	26.33	97	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
3G-c	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/16/14 16:39**	**140910S11**
3G-c	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 15:35**	**140910S11**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.393	25.00	34.80	114	75-125	
Cadmium	ND	25.00	25.20	101	75-125	
Lead	22.89	25.00	47.38	98	75-125	
Selenium	ND	25.00	25.56	102	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
3B-h	**Sample**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/16/14 21:10**	**140910S12**
3B-h	**PDS**	**Solid**	**ICP/MS 04**	**09/10/14 00:00**	**09/17/14 15:43**	**140910S12**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.492	25.00	33.94	98	75-125	
Cadmium	ND	25.00	25.87	103	75-125	
Lead	26.52	25.00	49.82	93	75-125	
Selenium	ND	25.00	26.11	104	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-09-0464-1	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/09/14 17:15**	**E0909MOID4**
14-09-0464-1	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/09/14 17:15**	**E0909MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	39.50	40.00	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
1B-a	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/09/14 18:30**	**E0909MOID6**
1B-a	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/09/14 18:30**	**E0909MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	5.600	5.800	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
1G-d	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/09/14 19:15**	**E0909MOID7**
1G-d	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/09/14 19:15**	**E0909MOID7**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.300	7.900	8	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
1B-i	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 10:40**	**E0910MOID1**
1B-i	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 10:40**	**E0910MOID1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	27.30	27.60	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
2F-b	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 10:50**	**E0910MOID2**
2F-b	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 10:50**	**E0910MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.800	7.800	0	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
2D-d	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:00**	**E0910MOID3**
2D-d	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:00**	**E0910MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	8.400	8.000	5	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
2E-g	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:10**	**E0910MOID4**
2E-g	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:10**	**E0910MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	10.40	10.30	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
3G-c	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:30**	**E0910MOID5**
3G-c	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:30**	**E0910MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.900	8.100	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
3B-h	**Sample**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:38**	**E0910MOID6**
3B-h	**Sample Duplicate**	**Solid**	**N/A**	**09/09/14 00:00**	**09/10/14 11:38**	**E0910MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	6.900	7.000	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: 13046.01 / Grand Park

Date Received: 09/08/14
Work Order: 14-09-0479
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-621-609	**LCS**	**Solid**	**ICP/MS 03**	**09/10/14**	**09/12/14 17:01**	**140910L01**
099-15-621-609	**LCSD**	**Solid**	**ICP/MS 03**	**09/10/14**	**09/12/14 17:04**	**140910L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	25.00	25.88	104	24.81	99	80-120	4	0-20	
Cadmium	25.00	26.47	106	25.46	102	80-120	4	0-20	
Lead	25.00	25.24	101	25.05	100	80-120	1	0-20	
Selenium	25.00	26.50	106	24.89	100	80-120	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 2 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-601	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 23:46**	**140910L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.34	105	80-120	
Cadmium	25.00	25.70	103	80-120	
Lead	25.00	24.82	99	80-120	
Selenium	25.00	25.81	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-602	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 23:48**	**140910L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.01	104	80-120	
Cadmium	25.00	25.37	101	80-120	
Lead	25.00	24.55	98	80-120	
Selenium	25.00	26.01	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-603	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 23:50**	**140910L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.34	105	80-120	
Cadmium	25.00	25.82	103	80-120	
Lead	25.00	24.76	99	80-120	
Selenium	25.00	26.37	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 5 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-604	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 23:52**	**140910L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.97	108	80-120	
Cadmium	25.00	26.17	105	80-120	
Lead	25.00	24.57	98	80-120	
Selenium	25.00	27.42	110	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 6 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-605	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 23:56**	**140910L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.86	111	80-120	
Cadmium	25.00	25.91	104	80-120	
Lead	25.00	24.92	100	80-120	
Selenium	25.00	27.85	111	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-606	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/15/14 23:59**	**140910L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.98	108	80-120	
Cadmium	25.00	25.91	104	80-120	
Lead	25.00	24.64	99	80-120	
Selenium	25.00	27.52	110	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 8 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-607	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 00:01**	**140910L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.50	110	80-120	
Cadmium	25.00	26.27	105	80-120	
Lead	25.00	24.65	99	80-120	
Selenium	25.00	28.36	113	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/08/14
812 West 11th Street		Work Order:	14-09-0479
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 13046.01 / Grand Park			Page 9 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-608	**LCS**	**Solid**	**ICP/MS 04**	**09/10/14**	**09/16/14 00:03**	**140910L12**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.97	112	80-120	
Cadmium	25.00	25.64	103	80-120	
Lead	25.00	24.81	99	80-120	
Selenium	25.00	29.13	117	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0479 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	722	N/A	1
EPA 6020	EPA 3050B	598	ICP/MS 04	1

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Glossary of Terms and Qualifiers

Work Order: 14-09-0479 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
Other locations: Concord, San Luis Obispo, Houston, and Corpus Christi
For courier service / sample drop off information,
contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-09-0479

Date 9/4/14
Page 2 of

LABORATORY CLIENT: Cook-Joyce, Inc.
ADDRESS: 812 West 11th St.
CITY: Austin STATE: TX ZIP: 78701
TEL: 512-474-9097 E-MAIL: richard.varnell@cook-joyce.com

CLIENT PROJECT NAME / NUMBER: 13046.01 / GrandPark
P.O. NO.:
PROJECT CONTACT: R. Varnell
SAMPLER(S): (PRINT) R. K. Ashley

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS:
Target Metals = Arsenic, cadmium, lead, & selenium

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C8-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Target Metals			
1	1B-a	9/2/14	1250	S	1		ice																X			
2	1B-b		1305																							
3	1B-c		1309																							
4	1C-a		1314																							
5	1C-b		1317																							
6	1C-c		1316																							
7	1D-a		1320																							
8	1D-b		1329																							
9	1D-c		1332																							
10	1E-a		1335																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/8/14	Time: 0945

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies, respectively.

01/01/14 Revision

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CJI Supplemental Chain of Custody Form

Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preservative	Analyses
11	1E-b	9/2/2014	1338	Soil	1	4° C	Target Metals
12	1E-c	9/2/2014	1342	Soil	1	4° C	Target Metals
13	1F-a	9/2/2014	1418	Soil	1	4° C	Target Metals
14	1F-b	9/2/2014	1421	Soil	1	4° C	Target Metals
15	1F-c	9/2/2014	1428	Soil	1	4° C	Target Metals
16	1G-a	9/2/2014	1421	Soil	1	4° C	Target Metals
17	1G-b	9/2/2014	1428	Soil	1	4° C	Target Metals
18	1G-c	9/2/2014	1432	Soil	1	4° C	Target Metals
19	1G-f	9/2/2014	1435	Soil	1	4° C	Target Metals
20	1G-e	9/2/2014	1439	Soil	1	4° C	Target Metals
21	1G-d	9/2/2014	1443	Soil	1	4° C	Target Metals
22	1F-f	9/2/2014	1447	Soil	1	4° C	Target Metals
23	1F-e	9/2/2014	1458	Soil	1	4° C	Target Metals
24	1F-d	9/2/2014	1501	Soil	1	4° C	Target Metals
25	1E-f	9/2/2014	1504	Soil	1	4° C	Target Metals
26	1E-e	9/2/2014	1509	Soil	1	4° C	Target Metals
27	1E-d	9/2/2014	1512	Soil	1	4° C	Target Metals
28	1D-f	9/2/2014	1534	Soil	1	4° C	Target Metals
29	1D-e	9/2/2014	1538	Soil	1	4° C	Target Metals
30	1D-d	9/2/2014	1541	Soil	1	4° C	Target Metals
31	1C-f	9/2/2014	1547	Soil	1	4° C	Target Metals
32	1C-e	9/2/2014	1551	Soil	1	4° C	Target Metals
33	1C-d	9/2/2014	1556	Soil	1	4° C	Target Metals
34	1B-f	9/2/2014	1558	Soil	1	4° C	Target Metals
35	1B-e	9/2/2014	1602	Soil	1	4° C	Target Metals
36	1B-d	9/2/2014	1606	Soil	1	4° C	Target Metals
37	140902 Dup-1	9/2/2014	1200	Soil	1	4° C	Target Metals
38	140902 Dup-2	9/2/2014	1200	Soil	1	4° C	Target Metals
39	1B-g	9/3/2014	852	Soil	1	4° C	Target Metals
40	1B-h	9/3/2014	902	Soil	1	4° C	Target Metals
41	1B-i	9/3/2014	904	Soil	1	4° C	Target Metals
42	1C-g	9/3/2014	907	Soil	1	4° C	Target Metals
43	1C-h	9/3/2014	913	Soil	1	4° C	Target Metals
44	1C-i	9/3/2014	917	Soil	1	4° C	Target Metals
45	1D-g	9/3/2014	924	Soil	1	4° C	Target Metals
46	1D-h	9/3/2014	930	Soil	1	4° C	Target Metals
47	1D-i	9/3/2014	937	Soil	1	4° C	Target Metals
48	1E-g	9/3/2014	945	Soil	1	4° C	Target Metals
49	1E-h	9/3/2014	949	Soil	1	4° C	Target Metals
50	1E-i	9/3/2014	952	Soil	1	4° C	Target Metals
51	1F-g	9/3/2014	957	Soil	1	4° C	Target Metals
52	1F-h	9/3/2014	1002	Soil	1	4° C	Target Metals
53	1F-i	9/3/2014	1005	Soil	1	4° C	Target Metals
54	1G-g	9/3/2014	1008	Soil	1	4° C	Target Metals

Richard Vadell

Signature

9/4/2014

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CJI Supplemental Chain of Custody Form

Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preservative	Analyses
55	1G-h	9/3/2014	1012	Soil	1	4° C	Target Metals
56	1G-i	9/3/2014	1016	Soil	1	4° C	Target Metals
57	2G-c	9/3/2014	1037	Soil	1	4° C	Target Metals
58	2G-b	9/3/2014	1040	Soil	1	4° C	Target Metals
59	2G-a	9/3/2014	1042	Soil	1	4° C	Target Metals
60	2F-c	9/3/2014	1045	Soil	1	4° C	Target Metals
61	2F-b	9/3/2014	1047	Soil	1	4° C	Target Metals
62	2F-a	9/3/2014	1052	Soil	1	4° C	Target Metals
63	2E-c	9/3/2014	1058	Soil	1	4° C	Target Metals
64	2E-b	9/3/2014	1101	Soil	1	4° C	Target Metals
65	2E-a	9/3/2014	1104	Soil	1	4° C	Target Metals
66	2D-c	9/3/2014	1108	Soil	1	4° C	Target Metals
67	2D-b	9/3/2014	1114	Soil	1	4° C	Target Metals
68	2D-a	9/3/2014	1116	Soil	1	4° C	Target Metals
69	2C-c	9/3/2014	1318	Soil	1	4° C	Target Metals
70	2C-b	9/3/2014	1325	Soil	1	4° C	Target Metals
71	2C-a	9/3/2014	1329	Soil	1	4° C	Target Metals
72	2B-c	9/3/2014	1333	Soil	1	4° C	Target Metals
73	2B-b	9/3/2014	1338	Soil	1	4° C	Target Metals
74	2B-a	9/3/2014	1347	Soil	1	4° C	Target Metals
75	2B-d	9/3/2014	1350	Soil	1	4° C	Target Metals
76	2B-e	9/3/2014	1353	Soil	1	4° C	Target Metals
77	2B-f	9/3/2014	1357	Soil	1	4° C	Target Metals
78	2C-d	9/3/2014	1409	Soil	1	4° C	Target Metals
79	2C-e	9/3/2014	1414	Soil	1	4° C	Target Metals
80	2C-f	9/3/2014	1418	Soil	1	4° C	Target Metals
81	2D-d	9/3/2014	1422	Soil	1	4° C	Target Metals
82	2D-e	9/3/2014	1441	Soil	1	4° C	Target Metals
83	2D-f	9/3/2014	1446	Soil	1	4° C	Target Metals
84	2E-d	9/3/2014	1450	Soil	1	4° C	Target Metals
85	2E-e	9/3/2014	1453	Soil	1	4° C	Target Metals
86	2E-f	9/3/2014	1458	Soil	1	4° C	Target Metals
87	2F-d	9/3/2014	1504	Soil	1	4° C	Target Metals
88	2F-e	9/3/2014	1513	Soil	1	4° C	Target Metals
89	2F-f	9/3/2014	1517	Soil	1	4° C	Target Metals
90	2G-d	9/3/2014	1521	Soil	1	4° C	Target Metals
91	2G-e	9/3/2014	1541	Soil	1	4° C	Target Metals
92	2G-f	9/3/2014	1544	Soil	1	4° C	Target Metals
93	2G-i	9/3/2014	1549	Soil	1	4° C	Target Metals
94	2G-h	9/3/2014	1554	Soil	1	4° C	Target Metals
95	2G-g	9/3/2014	1557	Soil	1	4° C	Target Metals
96	2F-i	9/3/2014	1603	Soil	1	4° C	Target Metals
97	2F-h	9/3/2014	1607	Soil	1	4° C	Target Metals
98	2F-g	9/3/2014	1612	Soil	1	4° C	Target Metals

Richard Vaill

Signature

CJI Supplemental Chain of Custody Form

Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preservative	Analyses
99	2E-i	9/3/2014	1619	Soil	1	4° C	Target Metals
100	2E-h	9/3/2014	1627	Soil	1	4° C	Target Metals
101	2E-g	9/3/2014	1630	Soil	1	4° C	Target Metals
102	140903 DUP-1	9/3/2014	1200	Soil	1	4° C	Target Metals
103	140903 DUP-2	9/3/2014	1200	Soil	1	4° C	Target Metals
104	140903 DUP-3	9/3/2014	1200	Soil	1	4° C	Target Metals
105	140903 DUP-4	9/3/2014	1200	Soil	1	4° C	Target Metals
106	3C-a	9/4/2014	934	Soil	1	4° C	Target Metals
107	3C-b	9/4/2014	942	Soil	1	4° C	Target Metals
108	3C-c	9/4/2014	947	Soil	1	4° C	Target Metals
109	3D-a	9/4/2014	956	Soil	1	4° C	Target Metals
110	3D-b	9/4/2014	1005	Soil	1	4° C	Target Metals
111	3D-c	9/4/2014	1010	Soil	1	4° C	Target Metals
112	3E-a	9/4/2014	1014	Soil	1	4° C	Target Metals
113	3E-b	9/4/2014	1019	Soil	1	4° C	Target Metals
114	3E-c	9/4/2014	1025	Soil	1	4° C	Target Metals
115	3F-a	9/4/2014	1057	Soil	1	4° C	Target Metals
116	3F-b	9/4/2014	1103	Soil	1	4° C	Target Metals
117	3F-c	9/4/2014	1106	Soil	1	4° C	Target Metals
118	140904 DUP-1	9/4/2014	1200	Soil	1	4° C	Target Metals
119	3G-a	9/4/2014	1112	Soil	1	4° C	Target Metals
120	3G-b	9/4/2014	1116	Soil	1	4° C	Target Metals
121	3G-c	9/4/2014	1121	Soil	1	4° C	Target Metals
122	3G-f	9/4/2014	1125	Soil	1	4° C	Target Metals
123	3G-e	9/4/2014	1130	Soil	1	4° C	Target Metals
124	3G-d	9/4/2014	1139	Soil	1	4° C	Target Metals
125	3F-f	9/4/2014	1145	Soil	1	4° C	Target Metals
126	3F-e	9/4/2014	1148	Soil	1	4° C	Target Metals
127	3F-d	9/4/2014	1155	Soil	1	4° C	Target Metals
128	3E-f	9/4/2014	1206	Soil	1	4° C	Target Metals
129	3E-e	9/4/2014	1211	Soil	1	4° C	Target Metals
130	3E-d	9/4/2014	1215	Soil	1	4° C	Target Metals
131	3D-f	9/4/2014	1221	Soil	1	4° C	Target Metals
132	3D-e	9/4/2014	1359	Soil	1	4° C	Target Metals
133	3D-d	9/4/2014	1405	Soil	1	4° C	Target Metals
134	3C-f	9/4/2014	1410	Soil	1	4° C	Target Metals
135	3C-e	9/4/2014	1416	Soil	1	4° C	Target Metals
136	3C-d	9/4/2014	1420	Soil	1	4° C	Target Metals
137	3B-f	9/4/2014	1424	Soil	1	4° C	Target Metals
138	3B-e	9/4/2014	1430	Soil	1	4° C	Target Metals
139	3B-d	9/4/2014	1436	Soil	1	4° C	Target Metals
140	3B-g	9/4/2014	1440	Soil	1	4° C	Target Metals
141	3B-h	9/4/2014	1444	Soil	1	4° C	Target Metals
142	3B-i	9/4/2014	1449	Soil	1	4° C	Target Metals

0479
4/5

Richard Vadell
Signature

9/4/2014

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CJI Supplemental Chain of Custody Form

OH79
5/5

Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preservative	Analyses
143	140904 DUP-2	9/4/2014	1200	Soil	1	4° C	Target Metals
144	3C-g	9/4/2014	1453	Soil	1	4° C	Target Metals
145	3C-h	9/4/2014	1457	Soil	1	4° C	Target Metals
146	3C-i	9/4/2014	1502	Soil	1	4° C	Target Metals
147	3D-g	9/4/2014	1506	Soil	1	4° C	Target Metals
148	3D-h	9/4/2014	1514	Soil	1	4° C	Target Metals
149	3D-i	9/4/2014	1518	Soil	1	4° C	Target Metals

Richard Vaell

Signature

9/4/2014

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ORIGIN ID:ADSA

SHIP DATE: 04SEP14
ACTWGT: 48.4 LB
CAD: /OFFC1501
DIMS: 24x13x13 IN

BILL RECIPIENT

UNITED STATES US

TO

EUROFINS CALSCIENCE INC
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:
INV:
PO: DEPT:

0479

FedEx Express

1 of 4

TRK# 0200 8047 9160 4448

MASTER

FRI - 05 SEP 10:30A
PRIORITY OVERNIGHT
DSR

MON - 08 SEP 10:30A
PRIORITY OVERNIGHT
DSR

92841
CA-US
SNA

FedEx
TRK# 0200 8047 9160 4448

SA APVA

RT 357 1 C
8502
09.08

FZ

ORIGIN ID:ADSA

SHIP DATE: 04SEP14
ACTWGT: 50.7 LB
CAD: /OFFC1501
DIMS: 24x13x13 IN

BILL RECIPIENT

UNITED STATES US

TO

EUROFINS CALSCIENCE INC
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

4 of 4

MPS# 0681 7801 4005 8502

Mstr# 8047 9160 4448

0200

FRI - 05 SEP 10:30
PRIORITY OVERNIGHT
DSR

MON - 08 SEP 10:30A
PRIORITY OVERNIGHT
DSR

92841
CA-US
SNA

FedEx
MPS# 0681 7801 4005 8502

SA APVA

ORIGIN ID:ADSA

SHIP DATE: 04SEP14
ACTWGT: 48.4 LB
CAD: /OFFC1501
DIMS: 24x13x13 IN

BILL RECIPIENT

UNITED STATES US

TO

EUROFINS CALSCIENCE INC
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

2 of 4

MPS# 0681 7801 4005 8487

Mstr# 8047 9160 4448

0200

FRI - 05 SEP 10:30
PRIORITY OVERNIGH
DS

MON - 08 SEP 10:30A
PRIORITY OVERNIGHT
DSR

928
CA-US
SNA

FedEx
MPS# 0681 7801 4005 8487

SA APVA

ORIGIN ID:ADSA

SHIP DATE: 04SEP14
ACTWGT: 48.7 LB
CAD: /OFFC1501
DIMS: 24x13x13 IN

BILL RECIPIENT

UNITED STATES US

TO

EUROFINS CALSCIENCE INC
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

3 of 4

MPS# 0681 7801 4005 8498

Mstr# 8047 9160 4448

0200

FRI - 05 SEP 10:30A
PRIORITY OVERNIGHT
DSR

MON - 08 SEP 10:30A
PRIORITY OVERNIGHT
DSR

92841

FedEx
MPS# 0681 7801 4005 8498

SA ADVA

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WORK ORDER #: 14-09-0479

SAMPLE RECEIPT FORM

Cooler 1 of 4

CLIENT: Cook-Joyce

DATE: 09/08/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 21.4 °C - 0.3 °C (CF) = 21.1 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 15

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 309

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☑ Not relinquished. ☑ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 300

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 15

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 300

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WORK ORDER #: 14-09-0479

SAMPLE RECEIPT FORM

Cooler 2 of 4

CLIENT: Cook-Joyce

DATE: 09/08/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 19.8 °C - 0.3 °C (CF) = 19.5 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 15

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 30

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☑ Not relinquished. ☑ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☐

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 30

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 15

Preservative: **h:** HCl **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 30

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WORK ORDER #: 14-09-0479

SAMPLE RECEIPT FORM

Cooler 3 of 4

CLIENT: Cook-Joyce

DATE: 09/08/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 22.5 °C - 0.3 °C (CF) = 22.2 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: IS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: JD

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☑ Not relinquished. ☑ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: JD

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: IS

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: JD

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WORK ORDER #: 14-09-0[4][7][9]

SAMPLE RECEIPT FORM

Cooler 4 of 4

CLIENT: Cook-Joyce DATE: 09/08/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 22.1 °C - 0.3 °C (CF) = 21.8 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: IS

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☑ Not relinquished. ☑ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** IS

Preservative: h: HCL n: HNO_3 **na$_2$**:$Na_2S_2O_3$ **na:** NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure **znna:** $ZnAc_2$+NaOH f: Filtered **Scanned by:** 300

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WORK ORDER #: 14-09-C479

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

HP 9/18

- ☑ ~~Sample(s) NOT RECEIVED but listed on COC~~
- ☑ Sample(s) received but NOT LISTED on COC
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ Sample ID
  - ☐ Date and/or Time Collected
  - ☐ Project Information
  - ☐ # of Container(s)
  - ☐ Analysis
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ Water present in sample container
  - ☐ Broken
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (Not transferred - duplicate bag submitted)
  - ☐ Leaking (transferred into Calscience Tedlar® Bag*)
  - ☐ Leaking (transferred into Client's Tedlar® Bag*)
- ☐ **Other:** _____

Comments:

Extra sample received:

(150)	2B-g	09/04/14	0908
(151)	h		0902
(152)	i		0859
(153)	2C-g		0855
(154)	h		0851
(155)	i		0846
(156)	2D-g		0841
(157)	h		0829
(158)	i		0819
(159)	3B-g		0915
(160)	b		0920
(161)	c		0929

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 300 09/08/14

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Calscience TRRP Data Package
Signature Page

Work Order #: **14-09-0479**

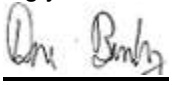
Project Name/Number: **13046.01 / Grand Park**

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  b) Dilution factors,
  c) Preparation methods,
  d) Cleanup methods, and
  e) If required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate control limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  d) The laboratory's LCS QC limits.
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits.
- ☒ R8 Laboratory Analytical Duplicates (if applicable) Recovery and Precision, including:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
- ☒ R9 Method Quantitation Limit (MQL) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

Release Statement: "I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the Laboratory Review Checklist and/or Case Narrative provided with the analytical report. I affirm, to the best of my knowledge, that all problems/anomalies observed by this laboratory that might affect the quality of the data have been identified in the Laboratory Review Checklist and/or Case Narrative, and that no information or data has been knowingly withheld that would affect the quality of the data."

Don Burley		**09/18/14**
Name	Signature	Date

Project Manager
Title

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Laboratory Review Checklist
ortable Data / Supporting Data / Exception Reports

eurofins | Calscience

Laboratory Name: Eurofins Calscience, Inc.	LRC Date: 09/18/14
Project Name: 13046.01 / Grand Park	Laboratory Work Order Number: 14-09-0479
Reviewer Name: Don Burley	Prep Batch Number(s): 140910L01, 140910L04, 140910L05, 140910L06, 140910L07, 140910L09, 140910L10, 140910L11, 140910L12; E0909MOIB4, E0909MOIB6, E0909MOIB7, E0910MOIB1, E0910MOIB2, E0910MOIB3, E0910MOIB4, E0910MOIB5, E0910MOIB6

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	**OI**	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report or case narrative?	X				1
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding time?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were %moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					

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		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were associated MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC, ER, or case narrative?	X				
		2) Were all necessary corrective actions performed for the reported data?			X		
		3) If requested, is the justification for elevated SDLs documented?			X		

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ER#[5]	Description
1	12 samples received not listed on the COCs. Please reference the sample anomaly form and email included in the report.
2	EPA 6020 MS/MSD batch 140910S09: Arsenic MSD was out of control due to suspected matrix interference. The associated LCS recovery was in control.
2	EPA 6020 MS/MSD batch 140910S11: Arsenic, Cadmium and Lead MS/MSD were out of control due to suspected matrix interference. The associated LCS recoveries were in control.

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV and CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analytes within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12)**					
		1) Were the raw data (e.g. chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?	X				

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S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITION**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**PROFICIENCY TEST REPORTS**					
		1) Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCS?			X		
S12	**OI**	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

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ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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TEXAS REGISTERED ENGINEERING FIRM F-883

DATA USABILITY SUMMARY

GRAND PARK SITE – LAB REPORT 14-09-1089

JANUARY 2015

Prepared for:

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas

Prepared by:

Cook-Joyce, Inc.
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ATTACHMENT	
A	CALSCIENCE NELAC/TLAP ACCREDITATION
B	DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

1.0 INTRODUCTION

Cook-Joyce, Inc. (CJI) reviewed one analytical data package for samples of environmental media collected at the Grand Park Site in Frisco, Texas. Work at the site was done on behalf of the City of Frisco, which owns the property being evaluated for potential impacts. CJI collected the subject samples in September 2014. All analyses were performed in accordance with the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) and meet Texas Risk Reduction Program (TRRP) requirements. This Data Usability Summary (DUS) was prepared to document the usability of the data in supporting site closure under TRRP.

The Texas Commission on Environmental Quality (TCEQ) document, *Review and Reporting of COC Concentration Data (RG-366/TRRP-13)*, describes the procedures for reviewing and reporting data to ensure they are of sufficient and documented quality, as required by 30 §TAC 350.54. These procedures embody the default objectives for levels of quality control, documentation, and data review that apply to all data generated on or after 1 February 2003 for TRRP compliance, unless alternative project objectives are established prior to sample collection. CJI reviewed the data described herein for conformance with TRRP-13 criteria and any project-specific quality objectives. Any derivations from these criteria are discussed in this DUS.

The following laboratory submittals and field data were examined:

- The laboratory reportable data as identified by TRRP-13;
- The laboratory review checklists (LRCs), associated exception reports and supporting data;
- The laboratory electronic data deliverable (EDD); and
- The field notes from the sampling events.

Samples were analyzed by Calscience, and results were provided to CJI on 29 September 2014 in analytical package 14-09-1089. At the time of data analysis, Calscience was NELAC accredited under the TCEQ's Texas Laboratory Accreditation Program (TLAP) for subject matrices, methods, and analytical parameters, except as may be qualified in this DUS. A copy of Calscience's TLAP certification that is coincident with the sample analyses addressed in this DUS is provided as Attachment A to this Data Usability Summary (DUS).

2.0 INTENDED USE OF DATA

The Grand Park site (the Site) is comprised of currently cultivated farmland, unused pasture, and surface water bodies (Stewart Creek and its tributaries). Grand Park is enrolled in the Voluntary Cleanup Program (VCP) as site number 2592 to evaluate and remediate impacts to the Site from a neighboring and upstream property known as the former Exide Battery Recycling Facility. Impacts that may have resulted from the historical uses of the Site are also being evaluated.

As documented in Section 1 of this DUS and in Table 1, CJI collected 225 discrete soil samples and 13 field duplicates of those samples across portions of the Grand Park Site in September 2014. The following analyses were requested for chemicals of concern (COCs):

- ASTM D-2216 (M) – Moisture content of a solid.
- EPA 6020 – Inductively coupled plasma-mass spectrometry of a solid.

Specific metals analyzed under EPA 6020 included arsenic, cadmium, lead, and selenium. All of these analytes and methods are recognized fields of accreditation for solid and chemical materials under TCEQ's NELAC certification of Calscience.

2.1 DATA REVIEWED

Table 1 summarizes the sample analyses that were reviewed for this DUS and provides the field identification number of each sample, cross referenced to the laboratory identification number, sample collection date, sample type, analysis performed, and quality control batch numbers. The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and, when provided, case narratives, all of which were included in this review. The LRCs, associated ERs, and analytical reports received from the laboratory are provided in Attachment B to this DUS.

Field data were reviewed to verify that appropriate procedures were used during collection of samples. All reportable data to be provided by the analytical laboratory, as identified in TRRP-13, were reviewed for completeness and conformance with quantitative QC criteria, where applicable, including preservation/holding times, instrument calibrations, blank recovery, internal standard and surrogate recoveries, laboratory control sample (LCS) results and reproducibilities, matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities, and field duplicate precision.

2.2 PROJECT OBJECTIVES

The overall project objective is to achieve closure of the Grand Park Site through the TCEQ. This DUS evaluates the quality of analytical data provided in the laboratory package identified in Section 1.0 and Table 1. These data represent a discrete portion of the Site and will be used to identify and delineate any environmental impacts in this portion of the Site.

Data review was conducted to identify any potential impacts on sample analytical results as a result of field and/or analytical laboratory activities and ensure that the data are suitable for its use in accordance with TRRP. Quantitative review criteria for each QC parameter were based on laboratory procedure and analytical method requirements and/or TRRP-13 guidance, and these criteria are documented in the summary tables included herein and in the QC summary report section of the analytical data report(s) in Appendix B. No project-specific review criteria were necessary or developed for this project.

3.0 DATA REVIEW RESULTS

3.1 GENERAL DATA PACKAGE REVIEW

Laboratory reports were evaluated for consistency of sample identification labels and laboratory analysis as listed on the COC. In addition, they were reviewed against the TRRP-13 requirements. The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDDs contain all sample results in an acceptable format. The hardcopy laboratory reports and the EDDs include a result, method detection limit (MDL), adjusted method quantitation limit (MQL), which is also referred to as the sample quantitation limit (SQL)[1], and the sample-specific detection limit (SDL)[2] for each analysis. The SDL is that value below which the COC cannot be reliably detected.

In accordance with TRRP requirements, a laboratory defines "non-detect" results as less than the value of the SDL.[3] "Estimated" results are typically "J" qualified by the laboratory; results are estimated rather than quantified when a compound is determined to be present at a concentration less than the SQL, but greater than the SDL.

3.1.1 Appropriate Reporting

Results for metals are reported in milligrams per kilogram (mg/Kg) and have been dry weight corrected. Non-detects are reported using the SDL as specified in TRRP, and detects between the SDL and the SQL are reported as estimated concentrations with a laboratory J-flag.

None of the samples required dilution due to the high concentration of an analyte or matrix interferences. There were no elevated reporting limits for "non-detects".

---

[1] The SQL represents the MQL adjusted for moisture and sample size. The MQL is defined in §350.4(54) as "The lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory."

[2] The SDL is defined as the MDL adjusted to reflect sample-specific factors such as sample characteristics, sample preparation, and analytical adjustments. The MDL is "the minimum concentration of a COC the laboratory would measure and report with 99% confidence that the analyte concentration is greater than zero and is determined for each COC in a reagent matrix."

[3] Certain laboratories may assign a "U" qualifier to non-detect results. For clarity, CJI does not include laboratory assigned "U" qualifiers in our data tables. Instead, "U" qualified data are represented as "<" the SDL.

3.1.2 Chain-of-Custody Procedures

Proper sample custody procedures confirm that the integrity of the samples was maintained. Each cooler containing samples addressed in this report was shipped to Calscience following these procedures. No chain-of-custody issues were reported. The samples were labeled correctly and the appropriate analytical tests were performed by the laboratory.

3.1.3 Holding Times and Preservation

Samples were collected and placed into laboratory supplied containers. After collection in laboratory supplied containers, all samples were immediately placed in an ice-filled cooler and maintained on ice until their receipt by the analytical laboratory. The laboratory measured the temperature blank in each cooler upon its receipt; none of the data were qualified based on receiving temperature. CJI also compared the date of sample collection to the date of sample analysis to identify any samples that did not meet sample holding requirements. Based on our review, all samples reviewed for this DUS were analyzed within their appropriate holding times. Preservation and hold time requirements are provided in Table 2.

3.1.4 Blanks

Field and trip blanks were not collected or analyzed during sampling activities associated with this DUS. Samples were collected using single-use, disposable hand trowels, therefore, equipment blanks were not warranted.

3.1.5 Quality Control Sample Spikes

TRRP-13 requires that the laboratory's quality control samples, such as laboratory control samples (LCSs), laboratory control sample duplicates (LCSDs), matrix spikes (MSs), and matrix spike duplicates (MSDs), be spiked with all of the analytes reported by the laboratory. An exception to this rule is when an analyte is comprised of multiple compounds. Polychlorinated biphenyls (PCBs) are an example for this type of analyte.

Based on CJI's review, the quality control samples for total metals were spiked with all of the analytes reported by the laboratory.

3.2 ANALYTICAL RESULTS

Laboratory analyses are divided into QC batches, in which samples are prepared for analysis (e.g. extractions). Each QC batch includes appropriate QC samples required for analysis – such as matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples (LCS). This information was provided by the laboratory in the analytical packages. Each sample ID and analysis performed is listed with its associated QC batch in Table 1 of this DUS.

Each qualified analyte and sample qualification rationale is listed in Table 3 of this DUS. Further details on data qualifications are discussed in the following subsections.

3.2.1 Calibrations

According to the LRCs, initial and continuing calibration data met method requirements in all cases. No data were qualified due to initial or continuing calibration issues.

3.2.2 Lab Blanks

Laboratory QC results and provided LRCs were reviewed to identify any COC concentrations exceeding the MDL in required method blanks. There were no samples in which detection of blank constituents resulted in sample qualification.

3.2.3 Surrogate Recoveries

When applicable, surrogate recovery data are used to evaluate potential bias in the analytical results for each sample that could have been introduced by the preparatory procedures and/or the analysis. Surrogates are typically used in organic analyses and were not used for the metal analyses evaluated in this DUS. Table 4 lists any data qualifications based on surrogate recoveries.

3.2.4 Laboratory Control Samples/Laboratory Control Sample Duplicates

Laboratory Control Samples (LCSs) are generated to evaluate the accuracy of the analytical method and the laboratory's performance. Laboratory Control Sample Duplicates (LCSDs) may also be analyzed to evaluate the laboratory's precision.

If LCS recoveries are above specifications, then results generally are estimated high (JH). If recoveries are below specifications, then results generally are qualified as estimated low (JL). If

recoveries are below 30% for metals or 10% for organics, then results are estimated low or rejected (R).

All of the analytes reported by the laboratory were spiked in the LCSs. According to the LRCs and based on the data provided in the reports and EDDs, the recoveries of all of the spiked compounds were within the recovery control limits developed by the laboratory. In addition to the comparison to the laboratory specified control limits, CJI also compared the data to TRRP-13 review standards (a standardized control limit of 70-130% for metals). No data was qualified due to LCS percent recoveries when compared to TRRP-13 control limits. Table 5 lists any data qualifications based on LCS recoveries.

An LCSD sample was not analyzed by Calscience for this report, therefore, there was no data qualification based on LCS/LCSD relative percent differences.

3.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix Spike/Matrix Spike Duplicates (MS/MSDs) were used to evaluate the impact of the sample matrix on analytical recoveries. MS/MSD recoveries were used to assist in sample qualification in connection with other data quality indicators. In general, sample results were not qualified on MS/MSD recovery data alone. LCS recoveries were also checked, and these were used to support MS/MSD data qualification. In cases where no other precision data could be evaluated (i.e. the absence of field duplicate samples), the data was qualified based on MS/MSD reproducibilities alone.

MS/MSD recoveries were compared to both laboratory control limits and TRRP-13 review criteria for metals (70% - 130%, but not less than 30%). MS/MSD relative percent differences were also compared to both laboratory control limits and TRRP-13 review criteria (acceptable within 30% for metals).

MS/MSD Spike Accuracy

MS/MSD recoveries were typically reported within acceptance criteria in the data packages reviewed for this DUS. Table 6A lists any data qualifications based on MS/MSD recoveries. MS/MSD recoveries were acceptable for all metal analyses.

MS/MSD Spike Precision

MS/MSD reproducibilities were reported within acceptance criteria in the data packages reviewed for this DUS. MS/MSD relative percent differences (RPDs) were compared to both laboratory control limits and TRRP-13 review criteria. There were no sample qualifications based on MS/MSD reproducibilities. Table 6B lists any data qualifications based on MS/MSD RPDs.

3.2.6 Post Digestion Spikes

Post digestion spikes (PDSs) were performed for metals analyses in each data package. All PDS recoveries were within laboratory (75%-125%) and TRRP-13 (70%-130%) control limits.

3.2.7 Detectability Check Sample

A detectability check sample (DCS) is a reagent matrix spiked by the laboratory with analytes near, or within two or three times, the calculated MDL and carried through the sample preparation procedures for the analysis. DCSs are used to test the lab's ability to detect analytes concentrations near the MQL. DCSs were not performed for the subject data. Calscience's MDLs are adjusted and supported by the analysis of annual MDL/RL verifications per NELAC requirements. Some of the MDLs (including those for the EPA 6020 Metals) are also supported by quarterly LOD/LOQ verifications per Department of Defense requirements.

3.2.8 Laboratory Duplicates

Duplicate analysis for moisture content was performed on 12 samples analyzed for this project. The RPD for the result of the duplicate analysis when compared with the original met the laboratory's control limits of 0-10%. No data are qualified based on laboratory duplicate data.

3.2.9 Adequacy of MQLs and SDLs

MQLs and, where applicable, SDLs were compared to the constituent specific, critical protective concentration limits (PCLs) for a residential site with an affected property that is between 0.5 and 30 acres in size (or the background values, if greater than the critical PCLs) to evaluate whether the laboratory was able to achieve sufficiently low limits. The critical PCLs/background values comprise the assessment targets and represent the Levels of Required Performance (LORPs).

These comparisons were primarily made because sample specific interferences or elevated COC concentrations may affect the laboratory's ability to detect or quantify a COC below the LORP. In addition, concentrations of certain chemical parameters in environmental media cannot be quantified using currently-available analytical technologies.

All MQLs in the data packages addressed herein were below their respective LORPs for the requested analytes.

3.2.10 Field Precision

Field duplicate precision was reviewed in sample sets where they were obtained. Field duplicate samples were collected at the locations listed below. Analytical results of the original sample and the duplicate sample are compared in Table 7.

- 3G-g / 140908 DUP-1
- 4B-b / 140908 DUP-2
- 4E-f / 140909 DUP-1
- 4G-i / 140909 DUP-2
- 5B-c / 140909 DUP-3
- 5F-e / 140909 DUP-4
- 5D-g / 140909 DUP-5
- 6D-c / 140910 DUP-1
- 6E-f / 140910 DUP-2
- 6C-h / 140910 DUP-3
- 7B-a / 140911 DUP-1
- 7G-e / 140911 DUP-2
- 7C-g / 140911 DUP-3

Reproducibility is calculated by dividing the difference of the two duplicate analytical results (R1 – R2) by the average of the two results, then multiplying by 100 to obtain a percentage, as shown in

the equation below. The acceptable range of reproducibility for metal analyses is 0 to 50% and for organic analyses is 0 to 40%.

$$\text{Reproducibility} = \frac{[R1 - R2]}{\left[(R1 + R2)/2\right]} \times 100$$

A comparison of the reproducibilities for the sample/duplicate sets described above is provided in Table 7. Based on the comparisons provided in Table 7, all of the reproducibilities for sample / field duplicate pairs are acceptable.

3.3 FIELD PROCEDURES/RECORDS

Samples were collected according to CJI's standard operating procedures (SOPs). Field notes documenting sample collection activities were also reviewed. No data qualification was required based on field procedures or field records.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In general, the data quality was good. Critical samples collected for comparison to risk based PCLs to identify any exceedances or trends were usable and no data gaps were identified. Any specific data quality issues are identified in the text of this document.

To address the issues identified during data review recommendations for future monitoring at this site include:

- MS/MSDs should continue to be analyzed on samples from this Site so that matrix effects can be evaluated.
- In general, analytical results from all reviewed samples are usable for their intended purpose, and sampling should continue as conducted.

Kevin Lonseth		1/28/2014
Data Reviewer	Signature	Date

TABLES

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
9/8/2014	140908 DUP-1	14-09-1089	226	Soil	FD	X	140920L07	X	E0918MOIB6
9/8/2014	140908 DUP-2	14-09-1089	227	Soil	FD	X	140920L07	X	E0918MOIB6
9/9/2014	140909 DUP-1	14-09-1089	228	Soil	FD	X	140920L07	X	E0918MOIB6
9/9/2014	140909 DUP-2	14-09-1089	229	Soil	FD	X	140920L07	X	E0918MOIB6
9/9/2014	140909 DUP-3	14-09-1089	230	Soil	FD	X	140920L07	X	E0918MOIB6
9/9/2014	140909 DUP-4	14-09-1089	231	Soil	FD	X	140920L07	X	E0918MOIB6
9/9/2014	140909 DUP-5	14-09-1089	232	Soil	FD	X	140920L07	X	E0918MOIB6
9/10/2014	140910 DUP-1	14-09-1089	233	Soil	FD	X	140920L07	X	E0918MOIB6
9/10/2014	140910 DUP-2	14-09-1089	234	Soil	FD	X	140920L07	X	E0918MOIB6
9/10/2014	140910 DUP-3	14-09-1089	235	Soil	FD	X	140920L07	X	E0918MOIB6
9/11/2014	140911 DUP-1	14-09-1089	236	Soil	FD	X	140920L07	X	E0918MOIB6
9/11/2014	140911 DUP-2	14-09-1089	237	Soil	FD	X	140920L07	X	E0918MOIB6
9/11/2014	140911 DUP-3	14-09-1089	238	Soil	FD	X	140920L07	X	E0918MOIB6
9/11/2014	7D-e	14-09-1089	200	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/8/2014	3E-g	14-09-1089	1	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3E-h	14-09-1089	2	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3E-i	14-09-1089	3	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3F-g	14-09-1089	4	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3F-h	14-09-1089	5	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3F-i	14-09-1089	6	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3G-g	14-09-1089	7	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3G-h	14-09-1089	8	Soil	Inv.	X	140919L05	X	E0917MOIB5
9/8/2014	3G-i	14-09-1089	9	Soil	Inv.	X	140919L05	X	E0917MOIB6
9/8/2014	4B-a	14-09-1089	27	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4B-b	14-09-1089	26	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4B-c	14-09-1089	25	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4B-d	14-09-1089	28	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4B-e	14-09-1089	29	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4B-f	14-09-1089	30	Soil	Inv.	X	140919L06	X	E0917MOIB8
9/9/2014	4B-g	14-09-1089	63	Soil	Inv.	X	140919L08	X	E0917MOIB8
9/9/2014	4B-h	14-09-1089	62	Soil	Inv.	X	140919L08	X	E0917MOIB8
9/9/2014	4B-i	14-09-1089	61	Soil	Inv.	X	140919L08	X	E0917MOIB8
9/8/2014	4C-a	14-09-1089	24	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4C-b	14-09-1089	23	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4C-c	14-09-1089	22	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4C-d	14-09-1089	31	Soil	Inv.	X	140919L06	X	E0917MOIB6
9/8/2014	4C-e	14-09-1089	32	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/8/2014	4C-f	14-09-1089	33	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/9/2014	4C-g	14-09-1089	60	Soil	Inv.	X	140919L07	X	E0917MOIB7
9/9/2014	4C-h	14-09-1089	59	Soil	Inv.	X	140919L07	X	E0917MOIB6
9/9/2014	4C-i	14-09-1089	58	Soil	Inv.	X	140919L07	X	E0917MOIB6
9/8/2014	4D-a	14-09-1089	21	Soil	Inv.	X	140919L06	X	E0917MOIB5
9/8/2014	4D-b	14-09-1089	20	Soil	Inv.	X	140919L05	X	E0917MOIB6
9/8/2014	4D-c	14-09-1089	19	Soil	Inv.	X	140919L05	X	E0917MOIB6
9/8/2014	4D-d	14-09-1089	34	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/8/2014	4D-e	14-09-1089	35	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/8/2014	4D-f	14-09-1089	36	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/9/2014	4D-g	14-09-1089	57	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/9/2014	4D-h	14-09-1089	56	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/9/2014	4D-i	14-09-1089	55	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/8/2014	4E-a	14-09-1089	18	Soil	Inv.	X	140919L05	X	E0917MOIB6
9/8/2014	4E-b	14-09-1089	17	Soil	Inv.	X	140919L05	X	E0917MOIB6
9/8/2014	4E-c	14-09-1089	16	Soil	Inv.	X	140919L05	X	E0917MOIB6
9/8/2014	4E-d	14-09-1089	37	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/8/2014	4E-e	14-09-1089	38	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/9/2014	4E-f	14-09-1089	39	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/9/2014	4E-g	14-09-1089	54	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/9/2014	4E-h	14-09-1089	53	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/9/2014	4E-i	14-09-1089	52	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/8/2014	4F-a	14-09-1089	15	Soil	Inv.	X	140919L05	X	E0917MOIB6
9/8/2014	4F-b	14-09-1089	14	Soil	Inv.	X	140919L05	X	E0917MOIB7

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
9/8/2014	4F-c	14-09-1089	13	Soil	Inv.	X	140919L05	X	E0917MOIB7
9/9/2014	4F-d	14-09-1089	40	Soil	Inv.	X	140919L06	X	E0917MOIB7
9/9/2014	4F-e	14-09-1089	41	Soil	Inv.	X	140919L07	X	E0917MOIB7
9/9/2014	4F-f	14-09-1089	42	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/9/2014	4F-g	14-09-1089	51	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/9/2014	4F-h	14-09-1089	50	Soil	Inv.	X	140919L07	X	E0917MOIB5
9/9/2014	4F-i	14-09-1089	49	Soil	Inv.	X	140919L07	X	E0917MOIB7
9/8/2014	4G-a	14-09-1089	12	Soil	Inv.	X	140919L05	X	E0917MOIB7
9/8/2014	4G-b	14-09-1089	11	Soil	Inv.	X	140919L05	X	E0917MOIB7
9/8/2014	4G-c	14-09-1089	10	Soil	Inv.	X	140919L05	X	E0917MOIB7
9/9/2014	4G-d	14-09-1089	43	Soil	Inv.	X	140919L07	X	E0917MOIB7
9/9/2014	4G-e	14-09-1089	44	Soil	Inv.	X	140919L07	X	E0917MOIB7
9/9/2014	4G-f	14-09-1089	45	Soil	Inv.	X	140919L07	X	E0917MOIB8
9/9/2014	4G-g	14-09-1089	48	Soil	Inv.	X	140919L07	X	E0917MOIB8
9/9/2014	4G-h	14-09-1089	47	Soil	Inv.	X	140919L07	X	E0917MOIB8
9/9/2014	4G-i	14-09-1089	46	Soil	Inv.	X	140919L07	X	E0917MOIB9
9/9/2014	5B-a	14-09-1089	64	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5B-b	14-09-1089	65	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5B-c	14-09-1089	66	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5B-d	14-09-1089	99	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5B-e	14-09-1089	98	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5B-f	14-09-1089	97	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5B-g	14-09-1089	100	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5B-h	14-09-1089	101	Soil	Inv.	X	140919L10	X	E0917MOIB8
9/9/2014	5B-i	14-09-1089	102	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5C-a	14-09-1089	67	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5C-b	14-09-1089	68	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5C-c	14-09-1089	69	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5C-d	14-09-1089	96	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5C-e	14-09-1089	95	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5C-f	14-09-1089	94	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5C-g	14-09-1089	103	Soil	Inv.	X	140919L10	X	E0917MOIB8
9/9/2014	5C-h	14-09-1089	104	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5C-i	14-09-1089	105	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5D-a	14-09-1089	70	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5D-b	14-09-1089	71	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5D-c	14-09-1089	72	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5D-d	14-09-1089	93	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5D-e	14-09-1089	92	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5D-f	14-09-1089	91	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5D-g	14-09-1089	106	Soil	Inv.	X	140919L10	X	E0917MOIB8
9/9/2014	5D-h	14-09-1089	107	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5D-i	14-09-1089	108	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5E-a	14-09-1089	73	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5E-b	14-09-1089	74	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5E-c	14-09-1089	75	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5E-d	14-09-1089	90	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5E-e	14-09-1089	89	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5E-f	14-09-1089	88	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5E-g	14-09-1089	109	Soil	Inv.	X	140919L10	X	E0917MOIB8
9/9/2014	5E-h	14-09-1089	110	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5E-i	14-09-1089	111	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5F-a	14-09-1089	76	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5F-b	14-09-1089	77	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5F-c	14-09-1089	78	Soil	Inv.	X	140919L08	X	E0917MOIB10
9/9/2014	5F-d	14-09-1089	87	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5F-e	14-09-1089	86	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5F-f	14-09-1089	85	Soil	Inv.	X	140919L09	X	E0917MOIB8
9/9/2014	5F-g	14-09-1089	112	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5F-h	14-09-1089	113	Soil	Inv.	X	140919L10	X	E0917MOIB9
9/9/2014	5F-i	14-09-1089	114	Soil	Inv.	X	140919L10	X	E0917MOIB9

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SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
9/9/2014	5G-a	14-09-1089	79	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5G-b	14-09-1089	80	Soil	Inv.	X	140919L08	X	E0917MOIB9
9/9/2014	5G-c	14-09-1089	81	Soil	Inv.	X	140919L09	X	E0917MOIB10
9/9/2014	5G-d	14-09-1089	84	Soil	Inv.	X	140919L09	X	E0918MOIB1
9/9/2014	5G-e	14-09-1089	83	Soil	Inv.	X	140919L09	X	E0918MOIB1
9/9/2014	5G-f	14-09-1089	82	Soil	Inv.	X	140919L09	X	E0918MOIB1
9/10/2014	5G-g	14-09-1089	115	Soil	Inv.	X	140919L10	X	E0918MOIB1
9/10/2014	5G-h	14-09-1089	116	Soil	Inv.	X	140919L10	X	E0918MOIB1
9/10/2014	5G-i	14-09-1089	117	Soil	Inv.	X	140919L10	X	E0918MOIB1
9/10/2014	6B-a	14-09-1089	135	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6B-b	14-09-1089	134	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6B-c	14-09-1089	133	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6B-d	14-09-1089	136	Soil	Inv.	X	140920L02	X	E0918MOIB1
9/10/2014	6B-e	14-09-1089	137	Soil	Inv.	X	140920L02	X	E0918MOIB1
9/10/2014	6B-f	14-09-1089	138	Soil	Inv.	X	140920L02	X	E0918MOIB1
9/10/2014	6B-g	14-09-1089	171	Soil	Inv.	X	140920L04	X	E0918MOIB1
9/10/2014	6B-h	14-09-1089	170	Soil	Inv.	X	140920L04	X	E0918MOIB1
9/10/2014	6B-i	14-09-1089	169	Soil	Inv.	X	140920L04	X	E0918MOID2
9/10/2014	6C-a	14-09-1089	132	Soil	Inv.	X	140920L02	X	E0918MOID2
9/10/2014	6C-b	14-09-1089	131	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6C-c	14-09-1089	130	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6C-d	14-09-1089	139	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6C-e	14-09-1089	140	Soil	Inv.	X	140920L02	X	E0918MOIB1
9/10/2014	6C-f	14-09-1089	141	Soil	Inv.	X	140920L03	X	E0918MOIB1
9/10/2014	6C-g	14-09-1089	168	Soil	Inv.	X	140920L04	X	E0918MOID2
9/10/2014	6C-h	14-09-1089	167	Soil	Inv.	X	140920L04	X	E0918MOID2
9/10/2014	6C-i	14-09-1089	166	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/10/2014	6D-a	14-09-1089	129	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6D-b	14-09-1089	128	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6D-c	14-09-1089	127	Soil	Inv.	X	140920L02	X	E0918MOIB1
9/10/2014	6D-d	14-09-1089	142	Soil	Inv.	X	140920L03	X	E0918MOIB1
9/10/2014	6D-e	14-09-1089	143	Soil	Inv.	X	140920L03	X	E0918MOIB1
9/10/2014	6D-f	14-09-1089	144	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6D-g	14-09-1089	165	Soil	Inv.	X	140920L04	X	E0918MOID2
9/10/2014	6D-h	14-09-1089	164	Soil	Inv.	X	140920L04	X	E0918MOID2
9/10/2014	6D-i	14-09-1089	163	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/10/2014	6E-a	14-09-1089	126	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6E-b	14-09-1089	125	Soil	Inv.	X	140920L02	X	E0918MOIB3
9/10/2014	6E-c	14-09-1089	124	Soil	Inv.	X	140920L02	X	E0918MOID2
9/10/2014	6E-d	14-09-1089	145	Soil	Inv.	X	140920L03	X	E0918MOIB1
9/10/2014	6E-e	14-09-1089	146	Soil	Inv.	X	140920L03	X	E0918MOIB1
9/10/2014	6E-f	14-09-1089	147	Soil	Inv.	X	140920L03	X	E0918MOIB1
9/10/2014	6E-g	14-09-1089	162	Soil	Inv.	X	140920L04	X	E0918MOIB1
9/10/2014	6E-h	14-09-1089	161	Soil	Inv.	X	140920L04	X	E0918MOID2
9/10/2014	6E-i	14-09-1089	160	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6F-a	14-09-1089	123	Soil	Inv.	X	140920L02	X	E0918MOID2
9/10/2014	6F-b	14-09-1089	122	Soil	Inv.	X	140920L02	X	E0918MOID2
9/10/2014	6F-c	14-09-1089	121	Soil	Inv.	X	140920L02	X	E0917MOIB10
9/10/2014	6F-d	14-09-1089	148	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6F-e	14-09-1089	149	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6F-f	14-09-1089	150	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6F-g	14-09-1089	159	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6F-h	14-09-1089	158	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6F-i	14-09-1089	157	Soil	Inv.	X	140920L03	X	E0918MOID2
9/10/2014	6G-a	14-09-1089	120	Soil	Inv.	X	140919L10	X	E0918MOIB3
9/10/2014	6G-b	14-09-1089	119	Soil	Inv.	X	140919L10	X	E0918MOIB3
9/10/2014	6G-c	14-09-1089	118	Soil	Inv.	X	140919L10	X	E0918MOIB3
9/10/2014	6G-d	14-09-1089	151	Soil	Inv.	X	140920L03	X	E0918MOIB5
9/10/2014	6G-e	14-09-1089	152	Soil	Inv.	X	140920L03	X	E0918MOIB5
9/10/2014	6G-f	14-09-1089	153	Soil	Inv.	X	140920L03	X	E0918MOIB5
9/10/2014	6G-g	14-09-1089	156	Soil	Inv.	X	140920L03	X	E0918MOIB5

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SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
9/10/2014	6G-h	14-09-1089	155	Soil	Inv.	X	140920L03	X	E0918MOIB5
9/10/2014	6G-i	14-09-1089	154	Soil	Inv.	X	140920L03	X	E0918MOIB5
9/11/2014	7B-a	14-09-1089	172	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/11/2014	7B-b	14-09-1089	173	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/11/2014	7B-c	14-09-1089	174	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/11/2014	7B-d	14-09-1089	207	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7B-e	14-09-1089	206	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7B-f	14-09-1089	205	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7B-g	14-09-1089	208	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7B-h	14-09-1089	209	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7B-i	14-09-1089	210	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7C-a	14-09-1089	175	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/11/2014	7C-b	14-09-1089	176	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/11/2014	7C-c	14-09-1089	177	Soil	Inv.	X	140920L04	X	E0918MOIB3
9/11/2014	7C-d	14-09-1089	204	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7C-e	14-09-1089	203	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7C-f	14-09-1089	202	Soil	Inv.	X	140920L06	X	E0918MOIB4
9/11/2014	7C-g	14-09-1089	211	Soil	Inv.	X	140920L06	X	E0918MOIB4
9/11/2014	7C-h	14-09-1089	212	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7C-i	14-09-1089	213	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7D-a	14-09-1089	178	Soil	Inv.	X	140920L04	X	E0918MOIB5
9/11/2014	7D-b	14-09-1089	179	Soil	Inv.	X	140920L04	X	E0918MOIB4
9/11/2014	7D-c	14-09-1089	180	Soil	Inv.	X	140920L04	X	E0918MOIB4
9/11/2014	7D-d	14-09-1089	201	Soil	Inv.	X	140920L06	X	E0918MOIB4
9/11/2014	7D-f	14-09-1089	199	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7D-g	14-09-1089	214	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7D-h	14-09-1089	215	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7D-i	14-09-1089	216	Soil	Inv.	X	140920L06	X	E0918MOIB5
9/11/2014	7E-a	14-09-1089	181	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7E-b	14-09-1089	182	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7E-c	14-09-1089	183	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7E-d	14-09-1089	198	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7E-e	14-09-1089	197	Soil	Inv.	X	140920L05	X	E0918MOIB5
9/11/2014	7E-f	14-09-1089	196	Soil	Inv.	X	140920L05	X	E0918MOIB6
9/11/2014	7E-g	14-09-1089	217	Soil	Inv.	X	140920L06	X	E0918MOIB6
9/11/2014	7E-h	14-09-1089	218	Soil	Inv.	X	140920L06	X	E0918MOIB6
9/11/2014	7E-i	14-09-1089	219	Soil	Inv.	X	140920L06	X	E0918MOIB4
9/11/2014	7F-a	14-09-1089	184	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7F-b	14-09-1089	185	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7F-c	14-09-1089	186	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7F-d	14-09-1089	195	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7F-e	14-09-1089	194	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7F-f	14-09-1089	193	Soil	Inv.	X	140920L05	X	E0918MOIB6
9/11/2014	7F-g	14-09-1089	220	Soil	Inv.	X	140920L06	X	E0918MOIB6
9/11/2014	7F-h	14-09-1089	221	Soil	Inv.	X	140920L07	X	E0918MOIB6
9/11/2014	7F-i	14-09-1089	222	Soil	Inv.	X	140920L07	X	E0917MOIB6
9/11/2014	7G-a	14-09-1089	187	Soil	Inv.	X	140920L05	X	E0917MOIB7
9/11/2014	7G-b	14-09-1089	188	Soil	Inv.	X	140920L05	X	E0917MOIB8
9/11/2014	7G-c	14-09-1089	189	Soil	Inv.	X	140920L05	X	E0917MOIB9
9/11/2014	7G-d	14-09-1089	192	Soil	Inv.	X	140920L05	X	E0918MOIB1
9/11/2014	7G-e	14-09-1089	191	Soil	Inv.	X	140920L05	X	E0918MOIB3
9/11/2014	7G-f	14-09-1089	190	Soil	Inv.	X	140920L05	X	E0918MOIB4
9/11/2014	7G-g	14-09-1089	223	Soil	Inv.	X	140920L07	X	E0918MOIB5
9/11/2014	7G-h	14-09-1089	224	Soil	Inv.	X	140920L07	X	E0918MOIB6
9/11/2014	7G-i	14-09-1089	225	Soil	Inv.	X	140920L07	X	E0918MOID2
	Laboratory Control Sample	14-09-1089	618	Soil	LCS	X	140919L05		
	Laboratory Control Sample	14-09-1089	619	Soil	LCS	X	140919L06		
	Laboratory Control Sample	14-09-1089	620	Soil	LCS	X	140919L07		
	Laboratory Control Sample	14-09-1089	621	Soil	LCS	X	140919L08		
	Laboratory Control Sample	14-09-1089	622	Soil	LCS	X	140919L09		
	Laboratory Control Sample	14-09-1089	623	Soil	LCS	X	140919L10		

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
	Laboratory Control Sample	14-09-1089	624	Soil	LCS	X	140920L02		
	Laboratory Control Sample	14-09-1089	625	Soil	LCS	X	140920L03		
	Laboratory Control Sample	14-09-1089	626	Soil	LCS	X	140920L04		
	Laboratory Control Sample	14-09-1089	627	Soil	LCS	X	140920L05		
	Laboratory Control Sample	14-09-1089	628	Soil	LCS	X	140920L06		
	Laboratory Control Sample	14-09-1089	629	Soil	LCS	X	140920L07		
	Method Blank	14-09-1089	618	Soil	MB	X	140919L05		
	Method Blank	14-09-1089	619	Soil	MB	X	140919L06		
	Method Blank	14-09-1089	620	Soil	MB	X	140919L07		
	Method Blank	14-09-1089	621	Soil	MB	X	140919L08		
	Method Blank	14-09-1089	622	Soil	MB	X	140919L09		
	Method Blank	14-09-1089	623	Soil	MB	X	140919L10		
	Method Blank	14-09-1089	624	Soil	MB	X	140920L02		
	Method Blank	14-09-1089	625	Soil	MB	X	140920L03		
	Method Blank	14-09-1089	626	Soil	MB	X	140920L04		
	Method Blank	14-09-1089	627	Soil	MB	X	140920L05		
	Method Blank	14-09-1089	628	Soil	MB	X	140920L06		
	Method Blank	14-09-1089	629	Soil	MB	X	140920L07		
9/8/2014	3E-g	14-09-1089	1	Soil	MS	X	140919L05	X	E0917MOIB5
9/9/2014	4B-i	14-09-1089	61	Soil	MS	X	140919L08	X	E0917MOIB6
9/8/2014	4D-a	14-09-1089	21	Soil	MS	X	140919L06	X	E0917MOIB5
9/9/2014	4F-e	14-09-1089	41	Soil	MS	X	140919L07	X	E0917MOIB7
9/9/2014	5B-h	14-09-1089	101	Soil	MS	X	140919L10	X	E0917MOIB8
9/9/2014	5G-c	14-09-1089	81	Soil	MS	X	140919L09	X	E0917MOIB10
9/10/2014	6C-f	14-09-1089	141	Soil	MS	X	140920L03	X	E0918MOIB1
9/10/2014	6E-h	14-09-1089	161	Soil	MS	X	140920L04	X	E0918MOID2
9/10/2014	6F-c	14-09-1089	121	Soil	MS	X	140920L02	X	E0917MOIB10
9/11/2014	7D-d	14-09-1089	201	Soil	MS	X	140920L06	X	E0918MOIB4
9/11/2014	7E-a	14-09-1089	181	Soil	MS	X	140920L05	X	E0918MOIB4
9/11/2014	7F-h	14-09-1089	221	Soil	MS	X	140920L07	X	E0917MOIB10
9/8/2014	3E-g	14-09-1089	1	Soil	MSD	X	140919L05	X	E0917MOIB5
9/9/2014	4B-i	14-09-1089	61	Soil	MSD	X	140919L08	X	E0917MOIB6
9/8/2014	4D-a	14-09-1089	21	Soil	MSD	X	140919L06	X	E0917MOIB6
9/9/2014	4F-e	14-09-1089	41	Soil	MSD	X	140919L07	X	E0917MOIB7
9/9/2014	5B-h	14-09-1089	101	Soil	MSD	X	140919L10	X	E0917MOIB9
9/9/2014	5G-c	14-09-1089	81	Soil	MSD	X	140919L09	X	E0917MOIB10
9/10/2014	6C-f	14-09-1089	141	Soil	MSD	X	140920L03	X	E0918MOID2
9/10/2014	6E-h	14-09-1089	161	Soil	MSD	X	140920L04	X	E0918MOID2
9/10/2014	6F-c	14-09-1089	121	Soil	MSD	X	140920L02	X	E0917MOIB10
9/11/2014	7D-d	14-09-1089	201	Soil	MSD	X	140920L06	X	E0918MOIB4
9/11/2014	7E-a	14-09-1089	181	Soil	MSD	X	140920L05	X	E0918MOIB4
9/11/2014	7F-h	14-09-1089	221	Soil	MSD	X	140920L07	X	E0917MOIB5
Total Number of Analyses Reviewed						286		262	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
LCS = Laboratory Control Sample
MB = Method Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

TABLE 2
SAMPLE PRESERVATION AND HOLDING TIMES - LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Parameters	Analytical Method	Preservation	Required Reporting Limit	Holding Time
Moisture Content	ASTM D-2216	Cool 4 ± 2°C	NA	10 days for solids
Total metals (arsenic, cadmium, lead, and selenium)	EPA 6020	Cool 4 ± 2°C[1] Water: Acidify w/ HNO_3 to pH < 2	TRRP Reporting	180 days

Notes: 1) Although not required by method, the workplan for this project specified that samples submitted for metal analyses would be preserved with ice.

TABLE 3
SUMMARY OF ALL QUALIFIED DATA - LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Method	Analyte	QC Batch	Assigned Qualifier	Reason for Qualification
		Work Order	#							
NA	NA	NA		Soil	No Data Qualification					

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
QC Batch numbers for laboratory control samples (LCSs) contain an "L", those for matrix spike/matrix spike duplicates (MS/MSDs) contain an "S". Otherwise the numbers are identical.

TABLE 4
SAMPLE RESULTS QUALIFIED BASED ON SURROGATE RECOVERIES - LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample	Surrogate Recovery			Qualifier	
	Work Order	#	Type	Surrogate	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on Surrogate Recoveries			NA	NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low

TABLE 5
SAMPLE RESULTS QUALIFIED BASED ON LCS RECOVERIES - LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Sample ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery			Qualifier	
	Work Order	#			Analyte	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on LCS Recoveries					NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Colored fill represents QC Batches that appear in several data packages.

TABLE 6A
SAMPLE RESULTS WITH MS/MSD RECOVERIES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery				Review Limits	Qualifier	
	Work Order	#			Analyte	MS %R	MSD %R	Ave %R		Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD Recoveries						NA	NA	NA

Notes: %R = Percent Recovery
Ave %R = Average of matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
R = Data are Rejected
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Light shaded average recoveries are low.
Dark shaded average recoveries are extremely low.

TABLE 6B
MS/MSD RELATIVE PERCENT DIFFERENCES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		QC Batch	Analyte	MS	MSD	RPD	Review	Qualifier	
	Work Order	#			%R	%R		Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD RPD's.						NA	NA

Notes: %R = Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
UJL = Estimated Non-Detect, Biased Low

TABLE 7
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES - LAB REPORT 14091089
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	3G-g	140908 DUP-1	Absolute Difference	RPD	4B-b	140908 DUP-2	Absolute Difference	RPD
		14-09-1089-7	14-09-1089-226			14-09-1089-26	14-09-1089-227		
		9/8/2014	9/8/2014			9/8/2014	9/8/2014		
Arsenic	1	6.47	8.28	1.81	24.54	6.06	9.22	3.16	41.36
Cadmium	1	0.734	0.689	0.05	6.32	0.527	0.622	0.10	16.54
Lead	1	27.5	26.0	1.50	5.61	23.5	24.9	1.40	5.79
Selenium	1	1.20	0.491	0.71	83.86	0.773	*0.264*	0.51	98.17

CONSTITUENTS	MQL	4E-f	140909 DUP-1	Absolute Difference	RPD	4G-i	140909 DUP-2	Absolute Difference	RPD	5B-c	140909 DUP-3	Absolute Difference	RPD	5F-e	140909 DUP-4	Absolute Difference	RPD	5D-g	140909 DUP-5	Absolute Difference	RPD
		14-09-1089-39	14-09-1089-228			14-09-1089-46	14-09-1089-229			14-09-1089-66	14-09-1089-230			14-09-1089-86	14-09-1089-231			14-09-1089-106	14-09-1089-232		
		9/9/2014	9/9/2014			9/9/2014	9/9/2014			9/9/2014	9/9/2014			9/9/2014	9/9/2014			9/9/2014	9/9/2014		
Arsenic	1	6.65	8.95	2.30	29.49	9.84	10.9	1.06	10.22	12.3	11.4	0.90	7.59	10.6	9.56	1.04	10.32	8.02	10.6	2.58	27.7
Cadmium	1	0.648	0.680	0.03	4.82	0.599	0.602	0.00	0.50	0.494	0.544	0.05	9.63	0.667	0.635	0.03	4.92	0.495	0.586	0.091	16.8
Lead	1	27.1	24.9	2.20	8.46	24.7	23.7	1.00	4.13	28.7	26.5	2.20	7.97	28.6	26.2	2.40	8.76	24.5	24.3	0.2	0.8
Selenium	1	0.786	*0.264*	0.52	99.43	0.678	*0.264*	0.41	87.90	0.297	*0.264*	0.03	11.76	0.803	*0.264*	0.54	101.03	0.805	*0.264*	0.541	101.2

CONSTITUENTS	MQL	6D-c	140910 DUP-1	Absolute Difference	RPD	6E-f	140910 DUP-2	Absolute Difference	RPD	6C-h	140910 DUP-3	Absolute Difference	RPD
		14-09-1089-127	14-09-1089-233			14-09-1089-147	14-09-1089-234			14-09-1089-167	14-09-1089-235		
		9/10/2014	9/10/2014			9/10/2014	9/10/2014			9/10/2014	9/10/2014		
Arsenic	1	9.24	9.96	0.72	7.50	8.40	9.60	1.20	13.33	10.8	10.2	0.60	5.71
Cadmium	1	0.563	0.620	0.06	9.64	0.584	0.626	0.04	6.94	0.540	0.600	0.06	10.53
Lead	1	27.6	29.0	1.40	4.95	28.8	30.6	1.80	6.06	26.9	28.1	1.20	4.36
Selenium	1	1.45	1.20	0.25	18.87	0.923	0.421	0.50	74.70	1.360	*0.264*	1.10	134.98

CONSTITUENTS	MQL	7B-a	140911 DUP-1	Absolute Difference	RPD	7G-e	140911 DUP-2	Absolute Difference	RPD	7C-g	140911 DUP-3	Absolute Difference	RPD
		14-09-1089-172	14-09-1089-236			14-09-1089-191	14-09-1089-237			14-09-1089-211	14-09-1089-238		
		9/11/2014	9/11/2014			9/11/2014	9/11/2014			9/11/2014	9/11/2014		
Arsenic	1	11.6	10.8	0.80	7.14	12.1	12.4	0.30	2.45	10.8	9.21	1.59	15.89
Cadmium	1	0.535	0.430	0.11	21.76	0.735	0.658	0.08	11.06	0.623	0.646	0.02	3.62
Lead	1	14.4	13.6	0.80	5.71	34.2	36.5	2.30	6.51	27.9	26.8	1.10	4.02
Selenium	1	1.09	*0.264*	0.83	122.01	1.29	0.264	1.03	132.05	1.04	*0.264*	0.78	119.02

Notes: RPD = Relative Percent Difference.
MQL = Method Quantitation Limit.
Concentrations for metals reported in mg/Kg.
NC = Not Calculated.
NA = Not Analyzed.
Shaded RPDs are outside of the acceptable range.
Italicized values represent analyte method detection limits used for field duplicate precision calculations.
Shaded RPDs require data to be qualified when:
1) RPD ≥ 50% AND analyte concentrations > 5x MQL.
2a) Analyte concentration < 5x MQL AND absolute difference is≥ 3x the MQL for INORGANICS.
2b) Analyte concentration < 5x MQL AND absolute difference is≥ 2x the MQL for ORGANICS.

ATTACHMENT A

CALSCIENCE NELAC/TLAP ACCREDITATION

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704499-14-4
Effective Date: 8/1/2014
Expiration Date: 7/31/2015

Executive Director Texas Commission on Environmental Quality

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

CERTIFIED MAIL

Mr. Larry Lem
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Lem:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

We are also continuing secondary accreditation based on your application and primary NELAP accreditation from the states of Oregon and New York according to the attached Fields of Accreditation. Your laboratory's secondary accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary Accreditation Bodies.

I am enclosing an accreditation certificate and listing of the fields of accreditation. Please review the enclosures for accuracy and completeness.

In the meantime, please contact me by telephone at (512) 239–3754 or electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Air & Emissions***

Method EPA TO-14A

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	NY	5160	10248609
1,1,2,2-Tetrachloroethane	NY	5110	10248609
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248609
1,1,2-Trichloroethane	NY	5165	10248609
1,1-Dichloroethane	NY	4630	10248609
1,1-Dichloroethylene	NY	4640	10248609
1,2,4-Trichlorobenzene	NY	5155	10248609
1,2,4-Trimethylbenzene	NY	5210	10248609
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248609
1,2-Dichlorobenzene	NY	4610	10248609
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248609
1,2-Dichloropropane	NY	4655	10248609
1,3,5-Trimethylbenzene	NY	5215	10248609
1,3-Dichlorobenzene	NY	4615	10248609
1,4-Dichlorobenzene	NY	4620	10248609
Benzene	NY	4375	10248609
Benzyl chloride	NY	5635	10248609
Carbon tetrachloride	NY	4455	10248609
Chlorobenzene	NY	4475	10248609
Chloroethane (Ethyl chloride)	NY	4485	10248609
Chloroform	NY	4505	10248609
cis-1,2-Dichloroethylene	NY	4645	10248609
cis-1,3-Dichloropropene	NY	4680	10248609
Dichlorodifluoromethane (Freon-12)	NY	4625	10248609
Ethylbenzene	NY	4765	10248609
Hexachlorobutadiene	NY	4835	10248609
Methyl bromide (Bromomethane)	NY	4950	10248609
Methyl chloride (Chloromethane)	NY	4960	10248609

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Eurofins Calscience, Inc.

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Issue Date: 8/1/2014

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Matrix: *Air & Emissions*

Methylene chloride (Dichloromethane)	NY	4975	10248609
Styrene	NY	5100	10248609
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248609
Toluene	NY	5140	10248609
trans-1,2-Dichloroethylene	NY	4700	10248609
trans-1,3-Dichloropropylene	NY	4685	10248609
Trichloroethene (Trichloroethylene)	NY	5170	10248609
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248609
Vinyl chloride	NY	5235	10248609
Xylene (total)	NY	5260	10248609

Method EPA TO-15

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	NY	5160	10248803
1,1,2,2-Tetrachloroethane	NY	5110	10248803
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248803
1,1,2-Trichloroethane	NY	5165	10248803
1,1-Dichloroethane	NY	4630	10248803
1,1-Dichloroethylene	NY	4640	10248803
1,2,4-Trichlorobenzene	NY	5155	10248803
1,2,4-Trimethylbenzene	NY	5210	10248803
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248803
1,2-Dichlorobenzene	NY	4610	10248803
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248803
1,2-Dichloropropane	NY	4655	10248803
1,3,5-Trimethylbenzene	NY	5215	10248803
1,3-Butadiene	NY	9318	10248803
1,3-Dichlorobenzene	NY	4615	10248803
1,4-Dichlorobenzene	NY	4620	10248803
1,4-Dioxane (1,4-Diethyleneoxide)	NY	4735	10248803
2-Butanone (Methyl ethyl ketone, MEK)	NY	4410	10248803

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Matrix: *Air & Emissions*

Benzene	NY	4375	10248803
Benzyl chloride	NY	5635	10248803
Bromodichloromethane	NY	4395	10248803
Bromoform	NY	4400	10248803
Carbon tetrachloride	NY	4455	10248803
Chlorobenzene	NY	4475	10248803
Chloroethane (Ethyl chloride)	NY	4485	10248803
Chloroform	NY	4505	10248803
cis-1,2-Dichloroethylene	NY	4645	10248803
cis-1,3-Dichloropropene	NY	4680	10248803
Dichlorodifluoromethane (Freon-12)	NY	4625	10248803
Ethylbenzene	NY	4765	10248803
Hexachlorobutadiene	NY	4835	10248803
Methyl bromide (Bromomethane)	NY	4950	10248803
Methyl chloride (Chloromethane)	NY	4960	10248803
Methyl isobutyl ketone (Hexone) (MIBK)	NY	4985	10248803
Methyl tert-butyl ether (MTBE)	NY	5000	10248803
Methylene chloride (Dichloromethane)	NY	4975	10248803
n-Hexane	NY	4855	10248803
Styrene	NY	5100	10248803
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248803
Toluene	NY	5140	10248803
trans-1,2-Dichloroethylene	NY	4700	10248803
trans-1,3-Dichloropropylene	NY	4685	10248803
Trichloroethene (Trichloroethylene)	NY	5170	10248803
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248803
Vinyl acetate	NY	5225	10248803
Vinyl chloride	NY	5235	10248803
Xylene (total)	NY	5260	10248803

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Matrix: ***Non-Potable Water***

Method ASTM D516

Analyte	AB	Analyte ID	Method ID
Sulfate	OR	2000	30002201

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	OR	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	OR	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	OR	1000	10013806
Antimony	OR	1005	10013806
Arsenic	OR	1010	10013806
Barium	OR	1015	10013806
Beryllium	OR	1020	10013806
Boron	OR	1025	10013806
Cadmium	OR	1030	10013806
Calcium	OR	1035	10013806
Chromium	OR	1040	10013806
Cobalt	OR	1050	10013806
Copper	OR	1055	10013806
Iron	OR	1070	10013806
Lead	OR	1075	10013806
Magnesium	OR	1085	10013806
Manganese	OR	1090	10013806
Molybdenum	OR	1100	10013806

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Matrix: ***Non-Potable Water***

Nickel	OR	1105	10013806
Potassium	OR	1125	10013806
Selenium	OR	1140	10013806
Silica as SiO2	OR	1990	10013806
Silver	OR	1150	10013806
Sodium	OR	1155	10013806
Thallium	OR	1165	10013806
Tin	OR	1175	10013806
Vanadium	OR	1185	10013806
Zinc	OR	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	OR	1000	10014605
Antimony	OR	1005	10014605
Arsenic	OR	1010	10014605
Barium	OR	1015	10014605
Beryllium	OR	1020	10014605
Boron	OR	1025	10014605
Cadmium	OR	1030	10014605
Chromium	OR	1040	10014605
Cobalt	OR	1050	10014605
Copper	OR	1055	10014605
Iron	OR	1070	10014605
Lead	OR	1075	10014605
Manganese	OR	1090	10014605
Molybdenum	OR	1100	10014605
Nickel	OR	1105	10014605
Selenium	OR	1140	10014605
Silver	OR	1150	10014605
Thallium	OR	1165	10014605

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Matrix: ***Non-Potable Water***

Tin	OR	1175	10014605
Titanium	OR	1180	10014605
Vanadium	OR	1185	10014605
Zinc	OR	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	10053006
Fluoride	OR	1730	10053006
Nitrate as N	OR	1810	10053006
Nitrate-nitrite	OR	1820	10053006
Nitrite as N	OR	1840	10053006
Orthophosphate as P	OR	1870	10053006
Sulfate	OR	2000	10053006

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	OR	1540	10053608

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	OR	1515	10063408

Method EPA 351.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Kjeldahl nitrogen - total (TKN)	OR	1795	10065200

Method EPA 365.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10069804
Phosphorus	OR	1910	10069804

Method EPA 365.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10070801
Phosphorus	OR	1910	10070801

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Matrix: ***Non-Potable Water***

Method EPA 410.4

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	OR	1565	10077200

Method EPA 420.1

Analyte	AB	Analyte ID	Method ID
Total phenolics	OR	1905	10079400

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204

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Matrix: ***Non-Potable Water***

Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204
Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606

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Matrix: ***Non-Potable Water***

Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606
Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000

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Matrix: ***Non-Potable Water***

Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000
Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802

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Matrix: *Non-Potable Water*

1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802
1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802

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Matrix: *Non-Potable Water*

4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802
Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromochloropropane	OR	4580	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802

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Matrix: *Non-Potable Water*

Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802
Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	OR	4770	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802

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Eurofins Calscience, Inc.

7440 Lincoln Way
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Matrix: ***Non-Potable Water***

Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802
T-amylmethylether (TAME)	OR	4370	10184802
tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805

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Matrix: *Non-Potable Water*

1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805
2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805

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Matrix: *Non-Potable Water*

4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805
4-Dimethyl aminoazobenzene	OR	6105	10185805
4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805

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Matrix: *Non-Potable Water*

bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805
Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805

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Matrix: ***Non-Potable Water***

Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805
n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method SM 2130 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Turbidity	OR	2055	20042200

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Alkalinity as CaCO3	OR	1505	20045005
Method SM 2340 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20046008
Method SM 2340 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20047001
Method SM 2510 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	OR	1610	20048004
Method SM 2540 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	OR	1950	20004608
Method SM 2540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	OR	1955	20049803
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	OR	1960	20004802
Method SM 2540 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	OR	1965	20005009
Method SM 4500-Cl^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	20084804
Method SM 4500-F^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	20101808
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	20104603

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-NH3 C	Ammonia as N	OR	1515	20023603
SM 4500-NH3 F	Ammonia as N	OR	1515	20023001
SM 4500-NH3 G	Ammonia as N	OR	1515	20023205
SM 4500-NO_2^- B	Nitrite as N	OR	1840	20024004
SM 4500-NO3 E	Nitrate as N	OR	1810	20114209
	Nitrate-nitrite	OR	1820	20114209
	Nitrite as N	OR	1840	20114209
SM 4500-O G	Oxygen, dissolved	OR	1880	20025405
SM 4500-P E	Orthophosphate as P	OR	1870	20025803
SM 4500-$S2^-$ D	Sulfide	OR	2005	20125400
SM 4500-$SO3^-$ B	Sulfite	OR	2015	20026806
SM 5210 B	Biochemical oxygen demand (BOD)	OR	1530	20027401

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Matrix: ***Non-Potable Water***

Carbonaceous BOD, CBOD	OR	1555	20027401
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	OR	1565	20027809
Method SM 5310 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20137206
Method SM 5310 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20139202
Method SM 5520 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	20028802
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	20028802
Method SM 5540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	OR	2025	20144405
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	OR	849	10118806

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204
Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204

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Matrix: ***Solid & Chemical Materials***

Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606
Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606

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Matrix: *Solid & Chemical Materials*

Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000
Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000

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Matrix: ***Solid & Chemical Materials***

Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802
1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802

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Matrix: *Solid & Chemical Materials*

1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802
4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

Issue Date: 8/1/2014

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802
Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802

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Matrix: *Solid & Chemical Materials*

Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methanol	OR	4930	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802
Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802

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Matrix: ***Solid & Chemical Materials***

tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805
1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805

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Matrix: ***Solid & Chemical Materials***

2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805
4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805

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Matrix: *Solid & Chemical Materials*

4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805

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Matrix: ***Solid & Chemical Materials***

Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachlorocyclopentadiene	OR	6285	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805
Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805

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Matrix: ***Solid & Chemical Materials***

n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	OR	1615	10198400
pH	OR	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	10199209

Texas Commission on Environmental Quality

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Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT B

DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

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Supplemental Report 1

The original report has been revised/corrected.

WORK ORDER NUMBER: 14-09-1089

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cook-Joyce Inc.

Client Project Name: Grand Park / 14046.01

Attention: Richard Varnell
812 West 11th Street
Austin, TX 78701-2053

Approved for release on 09/29/2014 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-1089

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Work Order Narrative

Work Order: 14-09-1089 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/13/14. They were assigned to Work Order 14-09-1089.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

* The report has been revised to report "J" values for the metals data.

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1089
		Project Name:	Grand Park / 14046.01
		PO Number:	
		Date/Time Received:	09/13/14 12:47
		Number of Containers:	238
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
3E-g	14-09-1089-1	09/08/14 13:47	1	Solid
3E-h	14-09-1089-2	09/08/14 13:52	1	Solid
3E-i	14-09-1089-3	09/08/14 13:56	1	Solid
3F-g	14-09-1089-4	09/08/14 13:59	1	Solid
3F-h	14-09-1089-5	09/08/14 14:02	1	Solid
3F-i	14-09-1089-6	09/08/14 14:05	1	Solid
3G-g	14-09-1089-7	09/08/14 14:11	1	Solid
3G-h	14-09-1089-8	09/08/14 14:17	1	Solid
3G-i	14-09-1089-9	09/08/14 14:20	1	Solid
4G-c	14-09-1089-10	09/08/14 14:25	1	Solid
4G-b	14-09-1089-11	09/08/14 14:30	1	Solid
4G-a	14-09-1089-12	09/08/14 14:34	1	Solid
4F-c	14-09-1089-13	09/08/14 14:38	1	Solid
4F-b	14-09-1089-14	09/08/14 14:42	1	Solid
4F-a	14-09-1089-15	09/08/14 14:46	1	Solid
4E-c	14-09-1089-16	09/08/14 14:49	1	Solid
4E-b	14-09-1089-17	09/08/14 14:56	1	Solid
4E-a	14-09-1089-18	09/08/14 14:59	1	Solid
4D-c	14-09-1089-19	09/08/14 15:02	1	Solid
4D-b	14-09-1089-20	09/08/14 15:06	1	Solid
4D-a	14-09-1089-21	09/08/14 15:09	1	Solid
4C-c	14-09-1089-22	09/08/14 15:13	1	Solid
4C-b	14-09-1089-23	09/08/14 15:17	1	Solid
4C-a	14-09-1089-24	09/08/14 15:23	1	Solid
4B-c	14-09-1089-25	09/08/14 15:27	1	Solid
4B-b	14-09-1089-26	09/08/14 15:32	1	Solid
4B-a	14-09-1089-27	09/08/14 15:38	1	Solid
4B-d	14-09-1089-28	09/08/14 15:59	1	Solid
4B-e	14-09-1089-29	09/08/14 16:03	1	Solid
4B-f	14-09-1089-30	09/08/14 16:07	1	Solid
4C-d	14-09-1089-31	09/08/14 16:11	1	Solid
4C-e	14-09-1089-32	09/08/14 16:16	1	Solid
4C-f	14-09-1089-33	09/08/14 16:18	1	Solid
4D-d	14-09-1089-34	09/08/14 16:21	1	Solid
4D-e	14-09-1089-35	09/08/14 16:26	1	Solid
4D-f	14-09-1089-36	09/08/14 16:30	1	Solid
4E-d	14-09-1089-37	09/08/14 16:35	1	Solid
4E-e	14-09-1089-38	09/08/14 16:40	1	Solid
4E-f	14-09-1089-39	09/09/14 09:11	1	Solid
4F-d	14-09-1089-40	09/09/14 09:23	1	Solid
4F-e	14-09-1089-41	09/09/14 09:30	1	Solid
4F-f	14-09-1089-42	09/09/14 09:36	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1089
		Project Name:	Grand Park / 14046.01
		PO Number:	
		Date/Time Received:	09/13/14 12:47
		Number of Containers:	238
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
4G-d	14-09-1089-43	09/09/14 09:41	1	Solid
4G-e	14-09-1089-44	09/09/14 09:46	1	Solid
4G-f	14-09-1089-45	09/09/14 09:51	1	Solid
4G-i	14-09-1089-46	09/09/14 09:55	1	Solid
4G-h	14-09-1089-47	09/09/14 10:01	1	Solid
4G-g	14-09-1089-48	09/09/14 10:05	1	Solid
4F-i	14-09-1089-49	09/09/14 10:08	1	Solid
4F-h	14-09-1089-50	09/09/14 10:11	1	Solid
4F-g	14-09-1089-51	09/09/14 10:15	1	Solid
4E-i	14-09-1089-52	09/09/14 10:18	1	Solid
4E-h	14-09-1089-53	09/09/14 10:22	1	Solid
4E-g	14-09-1089-54	09/09/14 10:25	1	Solid
4D-i	14-09-1089-55	09/09/14 10:30	1	Solid
4D-h	14-09-1089-56	09/09/14 10:33	1	Solid
4D-g	14-09-1089-57	09/09/14 10:37	1	Solid
4C-i	14-09-1089-58	09/09/14 10:41	1	Solid
4C-h	14-09-1089-59	09/09/14 10:45	1	Solid
4C-g	14-09-1089-60	09/09/14 10:48	1	Solid
4B-i	14-09-1089-61	09/09/14 10:52	1	Solid
4B-h	14-09-1089-62	09/09/14 10:55	1	Solid
4B-g	14-09-1089-63	09/09/14 10:59	1	Solid
5B-a	14-09-1089-64	09/09/14 11:04	1	Solid
5B-b	14-09-1089-65	09/09/14 11:08	1	Solid
5B-c	14-09-1089-66	09/09/14 11:14	1	Solid
5C-a	14-09-1089-67	09/09/14 11:19	1	Solid
5C-b	14-09-1089-68	09/09/14 11:24	1	Solid
5C-c	14-09-1089-69	09/09/14 11:27	1	Solid
5D-a	14-09-1089-70	09/09/14 11:31	1	Solid
5D-b	14-09-1089-71	09/09/14 11:35	1	Solid
5D-c	14-09-1089-72	09/09/14 11:39	1	Solid
5E-a	14-09-1089-73	09/09/14 11:43	1	Solid
5E-b	14-09-1089-74	09/09/14 11:46	1	Solid
5E-c	14-09-1089-75	09/09/14 11:50	1	Solid
5F-a	14-09-1089-76	09/09/14 11:54	1	Solid
5F-b	14-09-1089-77	09/09/14 11:58	1	Solid
5F-c	14-09-1089-78	09/09/14 12:00	1	Solid
5G-a	14-09-1089-79	09/09/14 12:04	1	Solid
5G-b	14-09-1089-80	09/09/14 12:07	1	Solid
5G-c	14-09-1089-81	09/09/14 12:11	1	Solid
5G-f	14-09-1089-82	09/09/14 13:33	1	Solid
5G-e	14-09-1089-83	09/09/14 13:36	1	Solid
5G-d	14-09-1089-84	09/09/14 13:40	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1089
		Project Name:	Grand Park / 14046.01
		PO Number:	
		Date/Time Received:	09/13/14 12:47
		Number of Containers:	238
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
5F-f	14-09-1089-85	09/09/14 13:43	1	Solid
5F-e	14-09-1089-86	09/09/14 13:47	1	Solid
5F-d	14-09-1089-87	09/09/14 13:54	1	Solid
5E-f	14-09-1089-88	09/09/14 13:58	1	Solid
5E-e	14-09-1089-89	09/09/14 14:01	1	Solid
5E-d	14-09-1089-90	09/09/14 14:06	1	Solid
5D-f	14-09-1089-91	09/09/14 14:10	1	Solid
5D-e	14-09-1089-92	09/09/14 14:14	1	Solid
5D-d	14-09-1089-93	09/09/14 14:17	1	Solid
5C-f	14-09-1089-94	09/09/14 14:22	1	Solid
5C-e	14-09-1089-95	09/09/14 14:25	1	Solid
5C-d	14-09-1089-96	09/09/14 14:30	1	Solid
5B-f	14-09-1089-97	09/09/14 14:33	1	Solid
5B-e	14-09-1089-98	09/09/14 14:37	1	Solid
5B-d	14-09-1089-99	09/09/14 14:41	1	Solid
5B-g	14-09-1089-100	09/09/14 14:54	1	Solid
5B-h	14-09-1089-101	09/09/14 14:59	1	Solid
5B-i	14-09-1089-102	09/09/14 15:03	1	Solid
5C-g	14-09-1089-103	09/09/14 15:06	1	Solid
5C-h	14-09-1089-104	09/09/14 15:11	1	Solid
5C-i	14-09-1089-105	09/09/14 15:15	1	Solid
5D-g	14-09-1089-106	09/09/14 15:20	1	Solid
5D-h	14-09-1089-107	09/09/14 15:25	1	Solid
5D-i	14-09-1089-108	09/09/14 15:29	1	Solid
5E-g	14-09-1089-109	09/09/14 15:33	1	Solid
5E-h	14-09-1089-110	09/09/14 15:38	1	Solid
5E-i	14-09-1089-111	09/09/14 15:41	1	Solid
5F-g	14-09-1089-112	09/09/14 15:45	1	Solid
5F-h	14-09-1089-113	09/09/14 15:49	1	Solid
5F-i	14-09-1089-114	09/09/14 15:55	1	Solid
5G-g	14-09-1089-115	09/10/14 09:49	1	Solid
5G-h	14-09-1089-116	09/10/14 09:53	1	Solid
5G-i	14-09-1089-117	09/10/14 09:56	1	Solid
6G-c	14-09-1089-118	09/10/14 10:00	1	Solid
6G-b	14-09-1089-119	09/10/14 10:04	1	Solid
6G-a	14-09-1089-120	09/10/14 10:07	1	Solid
6F-c	14-09-1089-121	09/10/14 10:10	1	Solid
6F-b	14-09-1089-122	09/10/14 10:13	1	Solid
6F-a	14-09-1089-123	09/10/14 10:16	1	Solid
6E-c	14-09-1089-124	09/10/14 10:21	1	Solid
6E-b	14-09-1089-125	09/10/14 10:25	1	Solid
6E-a	14-09-1089-126	09/10/14 10:28	1	Solid

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 14-09-1089
Project Name: Grand Park / 14046.01
PO Number:
Date/Time Received: 09/13/14 12:47
Number of Containers: 238

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
6D-c	14-09-1089-127	09/10/14 10:30	1	Solid
6D-b	14-09-1089-128	09/10/14 10:35	1	Solid
6D-a	14-09-1089-129	09/10/14 10:38	1	Solid
6C-c	14-09-1089-130	09/10/14 10:41	1	Solid
6C-b	14-09-1089-131	09/10/14 10:44	1	Solid
6C-a	14-09-1089-132	09/10/14 10:48	1	Solid
6B-c	14-09-1089-133	09/10/14 10:52	1	Solid
6B-b	14-09-1089-134	09/10/14 10:55	1	Solid
6B-a	14-09-1089-135	09/10/14 10:58	1	Solid
6B-d	14-09-1089-136	09/10/14 11:09	1	Solid
6B-e	14-09-1089-137	09/10/14 11:14	1	Solid
6B-f	14-09-1089-138	09/10/14 11:18	1	Solid
6C-d	14-09-1089-139	09/10/14 11:21	1	Solid
6C-e	14-09-1089-140	09/10/14 11:23	1	Solid
6C-f	14-09-1089-141	09/10/14 11:26	1	Solid
6D-d	14-09-1089-142	09/10/14 11:29	1	Solid
6D-e	14-09-1089-143	09/10/14 11:32	1	Solid
6D-f	14-09-1089-144	09/10/14 11:35	1	Solid
6E-d	14-09-1089-145	09/10/14 15:47	1	Solid
6E-e	14-09-1089-146	09/10/14 15:50	1	Solid
6E-f	14-09-1089-147	09/10/14 15:53	1	Solid
6F-d	14-09-1089-148	09/10/14 16:00	1	Solid
6F-e	14-09-1089-149	09/10/14 16:12	1	Solid
6F-f	14-09-1089-150	09/10/14 16:17	1	Solid
6G-d	14-09-1089-151	09/10/14 16:20	1	Solid
6G-e	14-09-1089-152	09/10/14 16:28	1	Solid
6G-f	14-09-1089-153	09/10/14 16:32	1	Solid
6G-i	14-09-1089-154	09/10/14 16:44	1	Solid
6G-h	14-09-1089-155	09/10/14 16:48	1	Solid
6G-g	14-09-1089-156	09/10/14 16:59	1	Solid
6F-i	14-09-1089-157	09/10/14 17:03	1	Solid
6F-h	14-09-1089-158	09/10/14 17:07	1	Solid
6F-g	14-09-1089-159	09/10/14 17:17	1	Solid
6E-i	14-09-1089-160	09/10/14 17:21	1	Solid
6E-h	14-09-1089-161	09/10/14 17:25	1	Solid
6E-g	14-09-1089-162	09/10/14 17:29	1	Solid
6D-i	14-09-1089-163	09/10/14 17:33	1	Solid
6D-h	14-09-1089-164	09/10/14 17:36	1	Solid
6D-g	14-09-1089-165	09/10/14 17:40	1	Solid
6C-i	14-09-1089-166	09/10/14 17:43	1	Solid
6C-h	14-09-1089-167	09/10/14 17:47	1	Solid
6C-g	14-09-1089-168	09/10/14 17:53	1	Solid

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 14-09-1089
Project Name: Grand Park / 14046.01
PO Number:
Date/Time Received: 09/13/14 12:47
Number of Containers: 238

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
6B-i	14-09-1089-169	09/10/14 17:57	1	Solid
6B-h	14-09-1089-170	09/10/14 18:00	1	Solid
6B-g	14-09-1089-171	09/10/14 18:04	1	Solid
7B-a	14-09-1089-172	09/11/14 10:06	1	Solid
7B-b	14-09-1089-173	09/11/14 10:14	1	Solid
7B-c	14-09-1089-174	09/11/14 10:18	1	Solid
7C-a	14-09-1089-175	09/11/14 10:21	1	Solid
7C-b	14-09-1089-176	09/11/14 10:24	1	Solid
7C-c	14-09-1089-177	09/11/14 10:27	1	Solid
7D-a	14-09-1089-178	09/11/14 10:30	1	Solid
7D-b	14-09-1089-179	09/11/14 10:33	1	Solid
7D-c	14-09-1089-180	09/11/14 10:37	1	Solid
7E-a	14-09-1089-181	09/11/14 10:40	1	Solid
7E-b	14-09-1089-182	09/11/14 10:47	1	Solid
7E-c	14-09-1089-183	09/11/14 10:50	1	Solid
7F-a	14-09-1089-184	09/11/14 10:54	1	Solid
7F-b	14-09-1089-185	09/11/14 11:02	1	Solid
7F-c	14-09-1089-186	09/11/14 11:08	1	Solid
7G-a	14-09-1089-187	09/11/14 11:12	1	Solid
7G-b	14-09-1089-188	09/11/14 11:15	1	Solid
7G-c	14-09-1089-189	09/11/14 11:19	1	Solid
7G-f	14-09-1089-190	09/11/14 11:25	1	Solid
7G-e	14-09-1089-191	09/11/14 11:29	1	Solid
7G-d	14-09-1089-192	09/11/14 11:37	1	Solid
7F-f	14-09-1089-193	09/11/14 11:44	1	Solid
7F-e	14-09-1089-194	09/11/14 11:48	1	Solid
7F-d	14-09-1089-195	09/11/14 11:57	1	Solid
7E-f	14-09-1089-196	09/11/14 12:00	1	Solid
7E-e	14-09-1089-197	09/11/14 12:03	1	Solid
7E-d	14-09-1089-198	09/11/14 12:06	1	Solid
7D-f	14-09-1089-199	09/11/14 12:11	1	Solid
7D-e	14-09-1089-200	09/11/14 12:15	1	Solid
7D-d	14-09-1089-201	09/11/14 12:18	1	Solid
7C-f	14-09-1089-202	09/11/14 12:21	1	Solid
7C-e	14-09-1089-203	09/11/14 12:25	1	Solid
7C-d	14-09-1089-204	09/11/14 12:28	1	Solid
7B-f	14-09-1089-205	09/11/14 12:31	1	Solid
7B-e	14-09-1089-206	09/11/14 12:34	1	Solid
7B-d	14-09-1089-207	09/11/14 12:37	1	Solid
7B-g	14-09-1089-208	09/11/14 13:38	1	Solid
7B-h	14-09-1089-209	09/11/14 13:41	1	Solid
7B-i	14-09-1089-210	09/11/14 13:44	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1089
		Project Name:	Grand Park / 14046.01
		PO Number:	
		Date/Time Received:	09/13/14 12:47
		Number of Containers:	238
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
7C-g	14-09-1089-211	09/11/14 13:48	1	Solid
7C-h	14-09-1089-212	09/11/14 13:52	1	Solid
7C-i	14-09-1089-213	09/11/14 13:56	1	Solid
7D-g	14-09-1089-214	09/11/14 14:00	1	Solid
7D-h	14-09-1089-215	09/11/14 14:03	1	Solid
7D-i	14-09-1089-216	09/11/14 14:06	1	Solid
7E-g	14-09-1089-217	09/11/14 14:09	1	Solid
7E-h	14-09-1089-218	09/11/14 14:13	1	Solid
7E-i	14-09-1089-219	09/11/14 14:16	1	Solid
7F-g	14-09-1089-220	09/11/14 14:19	1	Solid
7F-h	14-09-1089-221	09/11/14 14:27	1	Solid
7F-i	14-09-1089-222	09/11/14 14:34	1	Solid
7G-g	14-09-1089-223	09/11/14 14:39	1	Solid
7G-h	14-09-1089-224	09/11/14 14:44	1	Solid
7G-i	14-09-1089-225	09/11/14 14:47	1	Solid
140908 DUP-1	14-09-1089-226	09/08/14 12:00	1	Solid
140908 DUP-2	14-09-1089-227	09/08/14 12:00	1	Solid
140909 DUP-1	14-09-1089-228	09/09/14 12:00	1	Solid
140909 DUP-2	14-09-1089-229	09/09/14 12:00	1	Solid
140909 DUP-3	14-09-1089-230	09/09/14 12:00	1	Solid
140909 DUP-4	14-09-1089-231	09/09/14 12:00	1	Solid
140909 DUP-5	14-09-1089-232	09/09/14 12:00	1	Solid
140910 DUP-1	14-09-1089-233	09/10/14 12:00	1	Solid
140910 DUP-2	14-09-1089-234	09/10/14 12:00	1	Solid
140910 DUP-3	14-09-1089-235	09/10/14 12:00	1	Solid
140911 DUP-1	14-09-1089-236	09/11/14 00:00	1	Solid
140911 DUP-2	14-09-1089-237	09/11/14 00:00	1	Solid
140911 DUP-3	14-09-1089-238	09/11/14 00:00	1	Solid

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
3E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3F-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3F-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3G-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3G-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3G-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3G-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
3G-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
3G-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID5	E0917MOIB5
4D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S05	140919L05
4D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
4C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID6	E0917MOIB6
4F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S06	140919L06
4F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4G-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4G-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4G-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4G-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4G-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4G-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4G-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4G-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
4G-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4G-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4G-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4G-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4F-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4F-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID7	E0917MOIB7
4C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S07	140919L07
4B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
4B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
4B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
4B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
4B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
4B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
5D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID8	E0917MOIB8
5G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S08	140919L08
5G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5G-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5G-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5G-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5G-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5G-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5G-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
5D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID9	E0917MOIB9
5B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S09	140919L09
5B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5F-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5F-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5G-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5G-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
5G-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5G-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
5G-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
5G-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
6G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
6G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
6G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
6G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
6G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0917MOID1	E0917MOIB1
6G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140919S10	140919L10
6F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
6C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID1	E0918MOIB1
6C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S02	140920L02
6C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6G-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6G-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6G-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6G-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6G-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6G-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6G-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6G-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6G-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6G-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6G-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6G-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6F-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6F-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID2	E0918MOID2
6E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S03	140920L03
6E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
6E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
6B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
6B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID3	E0918MOIB3
7D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S04	140920L04
7E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
7F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7G-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7G-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7G-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7G-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7G-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7G-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID4	E0918MOIB4
7D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S05	140920L05
7D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
7B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID5	E0918MOIB5
7F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S06	140920L06
7F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
7F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
7F-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
7F-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
7G-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
7G-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
7G-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
7G-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
7G-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
7G-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140908 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140908 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140908 DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140908 DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140909 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140909 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140909 DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140909 DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140909 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140909 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
140909 DUP-4	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140909 DUP-4	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140909 DUP-5	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140909 DUP-5	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140910 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140910 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140910 DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140910 DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140910 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140910 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140911 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140911 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140911 DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140911 DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07
140911 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0918MOID6	E0918MOIB6
140911 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	140920S07	140920L07

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-g	**14-09-1089-1-A**	**09/08/14 13:47**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-h	**14-09-1089-2-A**	**09/08/14 13:52**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-i	**14-09-1089-3-A**	**09/08/14 13:56**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-g	**14-09-1089-4-A**	**09/08/14 13:59**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-h	**14-09-1089-5-A**	**09/08/14 14:02**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-i	**14-09-1089-6-A**	**09/08/14 14:05**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-g	**14-09-1089-7-A**	**09/08/14 14:11**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-h	**14-09-1089-8-A**	**09/08/14 14:17**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-i	**14-09-1089-9-A**	**09/08/14 14:20**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-c	**14-09-1089-10-A**	**09/08/14 14:25**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-b	**14-09-1089-11-A**	**09/08/14 14:30**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-a	**14-09-1089-12-A**	**09/08/14 14:34**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-c	**14-09-1089-13-A**	**09/08/14 14:38**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-b	**14-09-1089-14-A**	**09/08/14 14:42**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-a	**14-09-1089-15-A**	**09/08/14 14:46**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-c	**14-09-1089-16-A**	**09/08/14 14:49**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-b	**14-09-1089-17-A**	**09/08/14 14:56**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-a	**14-09-1089-18-A**	**09/08/14 14:59**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-c	**14-09-1089-19-A**	**09/08/14 15:02**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-b	**14-09-1089-20-A**	**09/08/14 15:06**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-a	**14-09-1089-21-A**	**09/08/14 15:09**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-c	**14-09-1089-22-A**	**09/08/14 15:13**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-b	**14-09-1089-23-A**	**09/08/14 15:17**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-a	**14-09-1089-24-A**	**09/08/14 15:23**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-c	**14-09-1089-25-A**	**09/08/14 15:27**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-b	**14-09-1089-26-A**	**09/08/14 15:32**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-a	**14-09-1089-27-A**	**09/08/14 15:38**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-d	**14-09-1089-28-A**	**09/08/14 15:59**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-e	**14-09-1089-29-A**	**09/08/14 16:03**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-f	**14-09-1089-30-A**	**09/08/14 16:07**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-d	**14-09-1089-31-A**	**09/08/14 16:11**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-e	**14-09-1089-32-A**	**09/08/14 16:16**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-f	**14-09-1089-33-A**	**09/08/14 16:18**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

4D-d	**14-09-1089-34-A**	**09/08/14 16:21**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

4D-e	**14-09-1089-35-A**	**09/08/14 16:26**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

4D-f	**14-09-1089-36-A**	**09/08/14 16:30**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

4E-d	**14-09-1089-37-A**	**09/08/14 16:35**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

4E-e	**14-09-1089-38-A**	**09/08/14 16:40**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

4E-f	**14-09-1089-39-A**	**09/09/14 09:11**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

4F-d	**14-09-1089-40-A**	**09/09/14 09:23**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-e	**14-09-1089-41-A**	**09/09/14 09:30**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-f	**14-09-1089-42-A**	**09/09/14 09:36**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-d	**14-09-1089-43-A**	**09/09/14 09:41**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-e	**14-09-1089-44-A**	**09/09/14 09:46**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-f	**14-09-1089-45-A**	**09/09/14 09:51**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-i	**14-09-1089-46-A**	**09/09/14 09:55**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-h	**14-09-1089-47-A**	**09/09/14 10:01**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-g	**14-09-1089-48-A**	**09/09/14 10:05**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.2	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-i	**14-09-1089-49-A**	**09/09/14 10:08**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-h	**14-09-1089-50-A**	**09/09/14 10:11**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-g	**14-09-1089-51-A**	**09/09/14 10:15**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-i	**14-09-1089-52-A**	**09/09/14 10:18**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-h	**14-09-1089-53-A**	**09/09/14 10:22**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-g	**14-09-1089-54-A**	**09/09/14 10:25**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-i	**14-09-1089-55-A**	**09/09/14 10:30**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-h	**14-09-1089-56-A**	**09/09/14 10:33**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-g	**14-09-1089-57-A**	**09/09/14 10:37**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-i	**14-09-1089-58-A**	**09/09/14 10:41**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-h	**14-09-1089-59-A**	**09/09/14 10:45**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-g	**14-09-1089-60-A**	**09/09/14 10:48**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-i	**14-09-1089-61-A**	**09/09/14 10:52**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-h	**14-09-1089-62-A**	**09/09/14 10:55**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-g	**14-09-1089-63-A**	**09/09/14 10:59**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-a	**14-09-1089-64-A**	**09/09/14 11:04**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-b	**14-09-1089-65-A**	**09/09/14 11:08**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-c	**14-09-1089-66-A**	**09/09/14 11:14**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-a	**14-09-1089-67-A**	**09/09/14 11:19**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-b	**14-09-1089-68-A**	**09/09/14 11:24**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-c	**14-09-1089-69-A**	**09/09/14 11:27**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-a	**14-09-1089-70-A**	**09/09/14 11:31**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-b	**14-09-1089-71-A**	**09/09/14 11:35**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-c	**14-09-1089-72-A**	**09/09/14 11:39**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-a	**14-09-1089-73-A**	**09/09/14 11:43**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-b	**14-09-1089-74-A**	**09/09/14 11:46**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-c	**14-09-1089-75-A**	**09/09/14 11:50**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-a	**14-09-1089-76-A**	**09/09/14 11:54**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-b	**14-09-1089-77-A**	**09/09/14 11:58**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-c	**14-09-1089-78-A**	**09/09/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-a	**14-09-1089-79-A**	**09/09/14 12:04**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-b	**14-09-1089-80-A**	**09/09/14 12:07**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-c	**14-09-1089-81-A**	**09/09/14 12:11**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-f	**14-09-1089-82-A**	**09/09/14 13:33**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-e	**14-09-1089-83-A**	**09/09/14 13:36**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-d	**14-09-1089-84-A**	**09/09/14 13:40**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-f	**14-09-1089-85-A**	**09/09/14 13:43**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-e	**14-09-1089-86-A**	**09/09/14 13:47**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-d	**14-09-1089-87-A**	**09/09/14 13:54**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-f	**14-09-1089-88-A**	**09/09/14 13:58**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-e	**14-09-1089-89-A**	**09/09/14 14:01**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-d	**14-09-1089-90-A**	**09/09/14 14:06**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-f	**14-09-1089-91-A**	**09/09/14 14:10**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-e	**14-09-1089-92-A**	**09/09/14 14:14**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-d	**14-09-1089-93-A**	**09/09/14 14:17**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-f	**14-09-1089-94-A**	**09/09/14 14:22**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-e	**14-09-1089-95-A**	**09/09/14 14:25**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-d	**14-09-1089-96-A**	**09/09/14 14:30**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-f	**14-09-1089-97-A**	**09/09/14 14:33**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-e	**14-09-1089-98-A**	**09/09/14 14:37**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-d	**14-09-1089-99-A**	**09/09/14 14:41**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-g	**14-09-1089-100-A**	**09/09/14 14:54**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-h	**14-09-1089-101-A**	**09/09/14 14:59**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-i	**14-09-1089-102-A**	**09/09/14 15:03**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-g	**14-09-1089-103-A**	**09/09/14 15:06**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-h	**14-09-1089-104-A**	**09/09/14 15:11**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-i	**14-09-1089-105-A**	**09/09/14 15:15**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-g	**14-09-1089-106-A**	**09/09/14 15:20**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-h	**14-09-1089-107-A**	**09/09/14 15:25**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-i	**14-09-1089-108-A**	**09/09/14 15:29**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-g	**14-09-1089-109-A**	**09/09/14 15:33**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-h	**14-09-1089-110-A**	**09/09/14 15:38**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-i	**14-09-1089-111-A**	**09/09/14 15:41**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-g	**14-09-1089-112-A**	**09/09/14 15:45**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-h	**14-09-1089-113-A**	**09/09/14 15:49**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-i	**14-09-1089-114-A**	**09/09/14 15:55**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-g	**14-09-1089-115-A**	**09/10/14 09:49**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-h	**14-09-1089-116-A**	**09/10/14 09:53**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-i	**14-09-1089-117-A**	**09/10/14 09:56**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-c	**14-09-1089-118-A**	**09/10/14 10:00**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-b	**14-09-1089-119-A**	**09/10/14 10:04**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-a	**14-09-1089-120-A**	**09/10/14 10:07**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-c	**14-09-1089-121-A**	**09/10/14 10:10**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

6F-b	**14-09-1089-122-A**	**09/10/14 10:13**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

6F-a	**14-09-1089-123-A**	**09/10/14 10:16**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

6E-c	**14-09-1089-124-A**	**09/10/14 10:21**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

6E-b	**14-09-1089-125-A**	**09/10/14 10:25**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

6E-a	**14-09-1089-126-A**	**09/10/14 10:28**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

6D-c	**14-09-1089-127-A**	**09/10/14 10:30**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

6D-b	**14-09-1089-128-A**	**09/10/14 10:35**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.40	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-a	**14-09-1089-129-A**	**09/10/14 10:38**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-c	**14-09-1089-130-A**	**09/10/14 10:41**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-b	**14-09-1089-131-A**	**09/10/14 10:44**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-a	**14-09-1089-132-A**	**09/10/14 10:48**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-c	**14-09-1089-133-A**	**09/10/14 10:52**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-b	**14-09-1089-134-A**	**09/10/14 10:55**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-a	**14-09-1089-135-A**	**09/10/14 10:58**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-d	**14-09-1089-136-A**	**09/10/14 11:09**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-e	**14-09-1089-137-A**	**09/10/14 11:14**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-f	**14-09-1089-138-A**	**09/10/14 11:18**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-d	**14-09-1089-139-A**	**09/10/14 11:21**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-e	**14-09-1089-140-A**	**09/10/14 11:23**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-f	**14-09-1089-141-A**	**09/10/14 11:26**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-d	**14-09-1089-142-A**	**09/10/14 11:29**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-e	**14-09-1089-143-A**	**09/10/14 11:32**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-f	**14-09-1089-144-A**	**09/10/14 11:35**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-d	**14-09-1089-145-A**	**09/10/14 15:47**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-e	**14-09-1089-146-A**	**09/10/14 15:50**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-f	**14-09-1089-147-A**	**09/10/14 15:53**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-d	**14-09-1089-148-A**	**09/10/14 16:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-e	**14-09-1089-149-A**	**09/10/14 16:12**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-f	**14-09-1089-150-A**	**09/10/14 16:17**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-d	**14-09-1089-151-A**	**09/10/14 16:20**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-e	**14-09-1089-152-A**	**09/10/14 16:28**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-f	**14-09-1089-153-A**	**09/10/14 16:32**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-i	**14-09-1089-154-A**	**09/10/14 16:44**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-h	**14-09-1089-155-A**	**09/10/14 16:48**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-g	**14-09-1089-156-A**	**09/10/14 16:59**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-i	**14-09-1089-157-A**	**09/10/14 17:03**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-h	**14-09-1089-158-A**	**09/10/14 17:07**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-g	**14-09-1089-159-A**	**09/10/14 17:17**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-i	**14-09-1089-160-A**	**09/10/14 17:21**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-h	**14-09-1089-161-A**	**09/10/14 17:25**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-g	**14-09-1089-162-A**	**09/10/14 17:29**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-i	**14-09-1089-163-A**	**09/10/14 17:33**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-h	**14-09-1089-164-A**	**09/10/14 17:36**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-g	**14-09-1089-165-A**	**09/10/14 17:40**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-i	**14-09-1089-166-A**	**09/10/14 17:43**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-h	**14-09-1089-167-A**	**09/10/14 17:47**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-g	**14-09-1089-168-A**	**09/10/14 17:53**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-i	**14-09-1089-169-A**	**09/10/14 17:57**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-h	**14-09-1089-170-A**	**09/10/14 18:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-g	**14-09-1089-171-A**	**09/10/14 18:04**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-a	**14-09-1089-172-A**	**09/11/14 10:06**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-b	**14-09-1089-173-A**	**09/11/14 10:14**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-c	**14-09-1089-174-A**	**09/11/14 10:18**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-a	**14-09-1089-175-A**	**09/11/14 10:21**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-b	**14-09-1089-176-A**	**09/11/14 10:24**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-c	**14-09-1089-177-A**	**09/11/14 10:27**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-a	**14-09-1089-178-A**	**09/11/14 10:30**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-b	**14-09-1089-179-A**	**09/11/14 10:33**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-c	**14-09-1089-180-A**	**09/11/14 10:37**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-a	**14-09-1089-181-A**	**09/11/14 10:40**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-b	**14-09-1089-182-A**	**09/11/14 10:47**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-c	**14-09-1089-183-A**	**09/11/14 10:50**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-a	**14-09-1089-184-A**	**09/11/14 10:54**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-b	**14-09-1089-185-A**	**09/11/14 11:02**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-c	**14-09-1089-186-A**	**09/11/14 11:08**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-a	**14-09-1089-187-A**	**09/11/14 11:12**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-b	**14-09-1089-188-A**	**09/11/14 11:15**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-c	**14-09-1089-189-A**	**09/11/14 11:19**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-f	**14-09-1089-190-A**	**09/11/14 11:25**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-e	**14-09-1089-191-A**	**09/11/14 11:29**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-d	**14-09-1089-192-A**	**09/11/14 11:37**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.4	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-f	**14-09-1089-193-A**	**09/11/14 11:44**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-e	**14-09-1089-194-A**	**09/11/14 11:48**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-d	**14-09-1089-195-A**	**09/11/14 11:57**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-f	**14-09-1089-196-A**	**09/11/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-e	**14-09-1089-197-A**	**09/11/14 12:03**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-d	**14-09-1089-198-A**	**09/11/14 12:06**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-f	**14-09-1089-199-A**	**09/11/14 12:11**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-e	**14-09-1089-200-A**	**09/11/14 12:15**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-d	**14-09-1089-201-A**	**09/11/14 12:18**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-f	**14-09-1089-202-A**	**09/11/14 12:21**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-e	**14-09-1089-203-A**	**09/11/14 12:25**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-d	**14-09-1089-204-A**	**09/11/14 12:28**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-f	**14-09-1089-205-A**	**09/11/14 12:31**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-e	**14-09-1089-206-A**	**09/11/14 12:34**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-d	**14-09-1089-207-A**	**09/11/14 12:37**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-g	**14-09-1089-208-A**	**09/11/14 13:38**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.80	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-h	**14-09-1089-209-A**	**09/11/14 13:41**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-i	**14-09-1089-210-A**	**09/11/14 13:44**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-g	**14-09-1089-211-A**	**09/11/14 13:48**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-h	**14-09-1089-212-A**	**09/11/14 13:52**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-i	**14-09-1089-213-A**	**09/11/14 13:56**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-g	**14-09-1089-214-A**	**09/11/14 14:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-h	**14-09-1089-215-A**	**09/11/14 14:03**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-i	**14-09-1089-216-A**	**09/11/14 14:06**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-g	**14-09-1089-217-A**	**09/11/14 14:09**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-h	**14-09-1089-218-A**	**09/11/14 14:13**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-i	**14-09-1089-219-A**	**09/11/14 14:16**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-g	**14-09-1089-220-A**	**09/11/14 14:19**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-h	**14-09-1089-221-A**	**09/11/14 14:27**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-i	**14-09-1089-222-A**	**09/11/14 14:34**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-g	**14-09-1089-223-A**	**09/11/14 14:39**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-h	**14-09-1089-224-A**	**09/11/14 14:44**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-i	**14-09-1089-225-A**	**09/11/14 14:47**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140908 DUP-1	**14-09-1089-226-A**	**09/08/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140908 DUP-2	**14-09-1089-227-A**	**09/08/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-1	**14-09-1089-228-A**	**09/09/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-2	**14-09-1089-229-A**	**09/09/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-3	**14-09-1089-230-A**	**09/09/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-4	**14-09-1089-231-A**	**09/09/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-5	**14-09-1089-232-A**	**09/09/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140910 DUP-1	**14-09-1089-233-A**	**09/10/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

140910 DUP-2	**14-09-1089-234-A**	**09/10/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.50	0.100	0.100	0.100	0.100	1.00	

140910 DUP-3	**14-09-1089-235-A**	**09/10/14 12:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

140911 DUP-1	**14-09-1089-236-A**	**09/11/14 00:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

140911 DUP-2	**14-09-1089-237-A**	**09/11/14 00:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

140911 DUP-3	**14-09-1089-238-A**	**09/11/14 00:00**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Method Blank	**099-05-014-4821**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/17/14 21:45**	**E0917MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Method Blank	**099-05-014-4816**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/17/14 18:20**	**E0917MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4817**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:10**	**E0917MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4818**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/17/14 19:50**	**E0917MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4819**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:20**	**E0917MOIB8**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4820**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/17/14 20:55**	**E0917MOIB9**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4822**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:30**	**E0918MOIB1**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4824**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:40**	**E0918MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4825**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:45**	**E0918MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4826**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/18/14 11:50**	**E0918MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4827**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/18/14 12:00**	**E0918MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4823**	**N/A**	**Solid**	**N/A**	**09/17/14**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-g	**14-09-1089-1-A**	**09/08/14 13:47**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:57**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.51	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.621	1.07	0.129	1.00	0.120	1.00	J
Lead	21.9	1.07	0.147	1.00	0.137	1.00	
Selenium	0.859	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-h	**14-09-1089-2-A**	**09/08/14 13:52**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:32**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.84	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.629	1.08	0.130	1.00	0.120	1.00	J
Lead	24.3	1.08	0.148	1.00	0.137	1.00	
Selenium	0.831	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3E-i	**14-09-1089-3-A**	**09/08/14 13:56**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:34**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.43	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.677	1.10	0.132	1.00	0.120	1.00	J
Lead	26.2	1.10	0.150	1.00	0.137	1.00	
Selenium	0.924	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-g	**14-09-1089-4-A**	**09/08/14 13:59**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:36**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.36	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.643	1.10	0.132	1.00	0.120	1.00	J
Lead	26.5	1.10	0.151	1.00	0.137	1.00	
Selenium	1.10	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-h	**14-09-1089-5-A**	**09/08/14 14:02**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:38**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	4.94	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.575	1.10	0.132	1.00	0.120	1.00	J
Lead	24.7	1.10	0.151	1.00	0.137	1.00	
Selenium	0.996	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3F-i	**14-09-1089-6-A**	**09/08/14 14:05**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:41**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.44	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.589	1.08	0.130	1.00	0.120	1.00	J
Lead	24.9	1.08	0.148	1.00	0.137	1.00	
Selenium	0.706	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-g	**14-09-1089-7-A**	**09/08/14 14:11**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:43**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.47	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.734	1.08	0.130	1.00	0.120	1.00	J
Lead	27.5	1.08	0.148	1.00	0.137	1.00	
Selenium	1.20	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-h	**14-09-1089-8-A**	**09/08/14 14:17**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:45**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.15	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.714	1.10	0.132	1.00	0.120	1.00	J
Lead	26.8	1.10	0.150	1.00	0.137	1.00	
Selenium	0.639	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-i	**14-09-1089-9-A**	**09/08/14 14:20**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:47**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.11	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.608	1.07	0.129	1.00	0.120	1.00	J
Lead	21.3	1.07	0.147	1.00	0.137	1.00	
Selenium	0.751	1.07	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-c	**14-09-1089-10-A**	**09/08/14 14:25**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:49**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.24	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.608	1.07	0.129	1.00	0.120	1.00	J
Lead	22.5	1.07	0.147	1.00	0.137	1.00	
Selenium	0.575	1.07	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-b	**14-09-1089-11-A**	**09/08/14 14:30**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:51**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.78	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.609	1.08	0.129	1.00	0.120	1.00	J
Lead	24.1	1.08	0.148	1.00	0.137	1.00	
Selenium	0.871	1.08	0.285	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-a	**14-09-1089-12-A**	**09/08/14 14:34**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:00**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.92	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.660	1.08	0.129	1.00	0.120	1.00	J
Lead	28.3	1.08	0.148	1.00	0.137	1.00	
Selenium	0.740	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-c	**14-09-1089-13-A**	**09/08/14 14:38**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:02**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.23	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.690	1.08	0.130	1.00	0.120	1.00	J
Lead	26.0	1.08	0.148	1.00	0.137	1.00	
Selenium	0.704	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-b	**14-09-1089-14-A**	**09/08/14 14:42**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:04**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.55	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.603	1.09	0.131	1.00	0.120	1.00	J
Lead	25.4	1.09	0.150	1.00	0.137	1.00	
Selenium	1.08	1.09	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-a	**14-09-1089-15-A**	**09/08/14 14:46**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:06**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.19	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.587	1.09	0.130	1.00	0.120	1.00	J
Lead	25.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.805	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-c	**14-09-1089-16-A**	**09/08/14 14:49**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:09**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.13	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.618	1.10	0.132	1.00	0.120	1.00	J
Lead	25.4	1.10	0.151	1.00	0.137	1.00	
Selenium	0.792	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-b	**14-09-1089-17-A**	**09/08/14 14:56**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:11**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.81	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.601	1.08	0.130	1.00	0.120	1.00	J
Lead	24.7	1.08	0.148	1.00	0.137	1.00	
Selenium	0.876	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-a	**14-09-1089-18-A**	**09/08/14 14:59**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:13**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.42	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.629	1.11	0.133	1.00	0.120	1.00	J
Lead	25.6	1.11	0.152	1.00	0.137	1.00	
Selenium	0.655	1.11	0.293	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-c	**14-09-1089-19-A**	**09/08/14 15:02**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:15**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.04	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.631	1.09	0.131	1.00	0.120	1.00	J
Lead	26.9	1.09	0.150	1.00	0.137	1.00	
Selenium	0.709	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-b	**14-09-1089-20-A**	**09/08/14 15:06**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:17**	**140919L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.84	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.603	1.10	0.132	1.00	0.120	1.00	J
Lead	24.6	1.10	0.151	1.00	0.137	1.00	
Selenium	0.733	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-a	**14-09-1089-21-A**	**09/08/14 15:09**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:59**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.91	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.592	1.10	0.131	1.00	0.120	1.00	J
Lead	24.4	1.10	0.150	1.00	0.137	1.00	
Selenium	1.07	1.10	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-c	**14-09-1089-22-A**	**09/08/14 15:13**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:19**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.76	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.574	1.09	0.130	1.00	0.120	1.00	J
Lead	24.5	1.09	0.149	1.00	0.137	1.00	
Selenium	0.697	1.09	0.287	1.00	0.264	1.00	J

4C-b	**14-09-1089-23-A**	**09/08/14 15:17**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:43**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.24	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.556	1.08	0.129	1.00	0.120	1.00	J
Lead	24.1	1.08	0.148	1.00	0.137	1.00	
Selenium	0.683	1.08	0.284	1.00	0.264	1.00	J

4C-a	**14-09-1089-24-A**	**09/08/14 15:23**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:45**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.05	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.729	1.09	0.131	1.00	0.120	1.00	J
Lead	25.5	1.09	0.150	1.00	0.137	1.00	
Selenium	0.706	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-c	**14-09-1089-25-A**	**09/08/14 15:27**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:48**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.34	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.666	1.09	0.131	1.00	0.120	1.00	J
Lead	28.2	1.09	0.150	1.00	0.137	1.00	
Selenium	0.942	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-b	**14-09-1089-26-A**	**09/08/14 15:32**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:50**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.06	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.527	1.10	0.132	1.00	0.120	1.00	J
Lead	23.5	1.10	0.151	1.00	0.137	1.00	
Selenium	0.773	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-a	**14-09-1089-27-A**	**09/08/14 15:38**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:52**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.63	1.06	0.411	1.00	0.389	1.00	
Cadmium	0.448	1.06	0.127	1.00	0.120	1.00	J
Lead	12.8	1.06	0.145	1.00	0.137	1.00	
Selenium	0.606	1.06	0.279	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-d	**14-09-1089-28-A**	**09/08/14 15:59**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:54**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.23	1.05	0.411	1.00	0.389	1.00	
Cadmium	0.436	1.05	0.126	1.00	0.120	1.00	J
Lead	14.7	1.05	0.145	1.00	0.137	1.00	
Selenium	0.392	1.05	0.278	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-e	**14-09-1089-29-A**	**09/08/14 16:03**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:56**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.24	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.566	1.08	0.129	1.00	0.120	1.00	J
Lead	27.2	1.08	0.148	1.00	0.137	1.00	
Selenium	0.751	1.08	0.285	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-f	**14-09-1089-30-A**	**09/08/14 16:07**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 03:58**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.04	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.665	1.08	0.129	1.00	0.120	1.00	J
Lead	26.7	1.08	0.148	1.00	0.137	1.00	
Selenium	0.680	1.08	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-d	**14-09-1089-31-A**	**09/08/14 16:11**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:00**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.80	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.741	1.11	0.133	1.00	0.120	1.00	J
Lead	27.5	1.11	0.152	1.00	0.137	1.00	
Selenium	0.811	1.11	0.293	1.00	0.264	1.00	J

4C-e	**14-09-1089-32-A**	**09/08/14 16:16**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:03**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.77	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.541	1.10	0.132	1.00	0.120	1.00	J
Lead	25.8	1.10	0.151	1.00	0.137	1.00	
Selenium	0.816	1.10	0.291	1.00	0.264	1.00	J

4C-f	**14-09-1089-33-A**	**09/08/14 16:18**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:11**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.65	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.636	1.08	0.130	1.00	0.120	1.00	J
Lead	24.3	1.08	0.149	1.00	0.137	1.00	
Selenium	0.655	1.08	0.286	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-d	**14-09-1089-34-A**	**09/08/14 16:21**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:14**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.37	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.582	1.10	0.132	1.00	0.120	1.00	J
Lead	24.6	1.10	0.151	1.00	0.137	1.00	
Selenium	0.856	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-e	**14-09-1089-35-A**	**09/08/14 16:26**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:16**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.70	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.612	1.09	0.131	1.00	0.120	1.00	J
Lead	25.8	1.09	0.149	1.00	0.137	1.00	
Selenium	0.839	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-f	**14-09-1089-36-A**	**09/08/14 16:30**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:18**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.43	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.705	1.10	0.132	1.00	0.120	1.00	J
Lead	26.8	1.10	0.151	1.00	0.137	1.00	
Selenium	1.07	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-d	**14-09-1089-37-A**	**09/08/14 16:35**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:20**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.86	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.587	1.10	0.132	1.00	0.120	1.00	J
Lead	25.8	1.10	0.151	1.00	0.137	1.00	
Selenium	0.704	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-e	**14-09-1089-38-A**	**09/08/14 16:40**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:22**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.07	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.619	1.09	0.131	1.00	0.120	1.00	J
Lead	27.0	1.09	0.149	1.00	0.137	1.00	
Selenium	0.894	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-f	**14-09-1089-39-A**	**09/09/14 09:11**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:24**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.65	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.648	1.09	0.131	1.00	0.120	1.00	J
Lead	27.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.786	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-d	**14-09-1089-40-A**	**09/09/14 09:23**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:26**	**140919L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.15	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.665	1.09	0.131	1.00	0.120	1.00	J
Lead	25.6	1.09	0.149	1.00	0.137	1.00	
Selenium	1.18	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-e	**14-09-1089-41-A**	**09/09/14 09:30**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:02**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.98	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.608	1.08	0.129	1.00	0.120	1.00	J
Lead	27.0	1.08	0.148	1.00	0.137	1.00	
Selenium	0.711	1.08	0.285	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-f	**14-09-1089-42-A**	**09/09/14 09:36**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:29**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.98	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.642	1.09	0.131	1.00	0.120	1.00	J
Lead	27.8	1.09	0.150	1.00	0.137	1.00	
Selenium	0.998	1.09	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-d	**14-09-1089-43-A**	**09/09/14 09:41**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:31**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.53	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.629	1.09	0.130	1.00	0.120	1.00	J
Lead	26.8	1.09	0.149	1.00	0.137	1.00	
Selenium	0.901	1.09	0.287	1.00	0.264	1.00	J

4G-e	**14-09-1089-44-A**	**09/09/14 09:46**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:55**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.31	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.629	1.08	0.129	1.00	0.120	1.00	J
Lead	27.7	1.08	0.148	1.00	0.137	1.00	
Selenium	0.750	1.08	0.285	1.00	0.264	1.00	J

4G-f	**14-09-1089-45-A**	**09/09/14 09:51**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:57**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.07	0.416	1.00	0.389	1.00	
Cadmium	0.643	1.07	0.128	1.00	0.120	1.00	J
Lead	24.7	1.07	0.146	1.00	0.137	1.00	
Selenium	0.642	1.07	0.282	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-i	**14-09-1089-46-A**	**09/09/14 09:55**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 04:59**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.84	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.599	1.07	0.128	1.00	0.120	1.00	J
Lead	24.7	1.07	0.147	1.00	0.137	1.00	
Selenium	0.678	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-h	**14-09-1089-47-A**	**09/09/14 10:01**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:01**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.4	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.650	1.09	0.130	1.00	0.120	1.00	J
Lead	28.6	1.09	0.149	1.00	0.137	1.00	
Selenium	0.940	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4G-g	**14-09-1089-48-A**	**09/09/14 10:05**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:03**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.79	0.742	0.289	1.00	0.389	0.667	
Cadmium	0.436	0.742	0.0890	1.00	0.120	0.667	J
Lead	18.5	0.742	0.102	1.00	0.137	0.667	
Selenium	0.386	0.742	0.196	1.00	0.264	0.667	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-i	**14-09-1089-49-A**	**09/09/14 10:08**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:05**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.75	0.719	0.280	1.00	0.389	0.667	
Cadmium	0.402	0.719	0.0862	1.00	0.120	0.667	J
Lead	16.0	0.719	0.0986	1.00	0.137	0.667	
Selenium	0.756	0.719	0.190	1.00	0.264	0.667	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-h	**14-09-1089-50-A**	**09/09/14 10:11**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:07**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.18	0.722	0.281	1.00	0.389	0.667	
Cadmium	0.430	0.722	0.0866	1.00	0.120	0.667	J
Lead	15.0	0.722	0.0990	1.00	0.137	0.667	
Selenium	0.771	0.722	0.191	1.00	0.264	0.667	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-g	**14-09-1089-51-A**	**09/09/14 10:15**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:10**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.55	0.728	0.283	1.00	0.389	0.667	
Cadmium	0.428	0.728	0.0873	1.00	0.120	0.667	J
Lead	18.2	0.728	0.0998	1.00	0.137	0.667	
Selenium	0.614	0.728	0.192	1.00	0.264	0.667	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4E-i	**14-09-1089-52-A**	**09/09/14 10:18**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:12**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.08	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.607	1.10	0.132	1.00	0.120	1.00	J
Lead	24.4	1.10	0.151	1.00	0.137	1.00	
Selenium	0.798	1.10	0.291	1.00	0.264	1.00	J

4E-h	**14-09-1089-53-A**	**09/09/14 10:22**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:14**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.24	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.668	1.10	0.132	1.00	0.120	1.00	J
Lead	28.5	1.10	0.151	1.00	0.137	1.00	
Selenium	0.926	1.10	0.290	1.00	0.264	1.00	J

4E-g	**14-09-1089-54-A**	**09/09/14 10:25**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:23**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.96	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.453	1.09	0.131	1.00	0.120	1.00	J
Lead	21.8	1.09	0.150	1.00	0.137	1.00	
Selenium	0.666	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4D-i	**14-09-1089-55-A**	**09/09/14 10:30**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:25**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.36	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.544	1.09	0.130	1.00	0.120	1.00	J
Lead	24.8	1.09	0.149	1.00	0.137	1.00	
Selenium	0.618	1.09	0.287	1.00	0.264	1.00	J

4D-h	**14-09-1089-56-A**	**09/09/14 10:33**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:27**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.94	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.623	1.09	0.130	1.00	0.120	1.00	J
Lead	26.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.658	1.09	0.287	1.00	0.264	1.00	J

4D-g	**14-09-1089-57-A**	**09/09/14 10:37**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:29**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.08	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.666	1.09	0.130	1.00	0.120	1.00	J
Lead	25.8	1.09	0.149	1.00	0.137	1.00	
Selenium	0.462	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-i	**14-09-1089-58-A**	**09/09/14 10:41**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:31**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.46	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.608	1.09	0.130	1.00	0.120	1.00	J
Lead	26.0	1.09	0.149	1.00	0.137	1.00	
Selenium	0.696	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-h	**14-09-1089-59-A**	**09/09/14 10:45**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:33**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.40	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.659	1.09	0.131	1.00	0.120	1.00	J
Lead	27.2	1.09	0.150	1.00	0.137	1.00	
Selenium	0.842	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4C-g	**14-09-1089-60-A**	**09/09/14 10:48**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:36**	**140919L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.59	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.655	1.09	0.131	1.00	0.120	1.00	J
Lead	26.6	1.09	0.150	1.00	0.137	1.00	
Selenium	0.695	1.09	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-i	**14-09-1089-61-A**	**09/09/14 10:52**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:04**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.77	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.509	1.09	0.130	1.00	0.120	1.00	J
Lead	24.0	1.09	0.149	1.00	0.137	1.00	
Selenium	0.710	1.09	0.287	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-h	**14-09-1089-62-A**	**09/09/14 10:55**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 05:38**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.94	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.671	1.10	0.132	1.00	0.120	1.00	J
Lead	28.1	1.10	0.150	1.00	0.137	1.00	
Selenium	0.610	1.10	0.290	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4B-g	**14-09-1089-63-A**	**09/09/14 10:59**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:40**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.64	1.05	0.410	1.00	0.389	1.00	
Cadmium	0.453	1.05	0.126	1.00	0.120	1.00	J
Lead	16.4	1.05	0.144	1.00	0.137	1.00	
Selenium	ND	1.05	0.278	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-a	**14-09-1089-64-A**	**09/09/14 11:04**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:42**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.05	1.06	0.415	1.00	0.389	1.00	
Cadmium	0.517	1.06	0.128	1.00	0.120	1.00	J
Lead	15.8	1.06	0.146	1.00	0.137	1.00	
Selenium	ND	1.06	0.281	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-b	**14-09-1089-65-A**	**09/09/14 11:08**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:45**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.7	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.532	1.09	0.131	1.00	0.120	1.00	J
Lead	27.6	1.09	0.150	1.00	0.137	1.00	
Selenium	0.312	1.09	0.288	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-c	**14-09-1089-66-A**	**09/09/14 11:14**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:48**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.3	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.494	1.09	0.131	1.00	0.120	1.00	J
Lead	28.7	1.09	0.150	1.00	0.137	1.00	
Selenium	0.297	1.09	0.289	1.00	0.264	1.00	B,J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-a	**14-09-1089-67-A**	**09/09/14 11:19**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:50**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.2	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.603	1.10	0.132	1.00	0.120	1.00	J
Lead	30.5	1.10	0.151	1.00	0.137	1.00	
Selenium	ND	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-b	**14-09-1089-68-A**	**09/09/14 11:24**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:53**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.52	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.493	1.09	0.131	1.00	0.120	1.00	J
Lead	26.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.293	1.09	0.288	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-c	**14-09-1089-69-A**	**09/09/14 11:27**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:56**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.574	1.09	0.131	1.00	0.120	1.00	J
Lead	28.0	1.09	0.150	1.00	0.137	1.00	
Selenium	0.310	1.09	0.289	1.00	0.264	1.00	B,J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 24 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-a	**14-09-1089-70-A**	**09/09/14 11:31**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 13:58**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.7	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.648	1.09	0.131	1.00	0.120	1.00	J
Lead	29.4	1.09	0.150	1.00	0.137	1.00	
Selenium	ND	1.09	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-b	**14-09-1089-71-A**	**09/09/14 11:35**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:01**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.604	1.09	0.131	1.00	0.120	1.00	J
Lead	29.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.411	1.09	0.288	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-c	**14-09-1089-72-A**	**09/09/14 11:39**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:12**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.69	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.521	1.09	0.131	1.00	0.120	1.00	J
Lead	26.5	1.09	0.150	1.00	0.137	1.00	
Selenium	0.419	1.09	0.288	1.00	0.264	1.00	B,J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-a	**14-09-1089-73-A**	**09/09/14 11:43**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:15**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.589	1.09	0.130	1.00	0.120	1.00	J
Lead	28.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.546	1.09	0.287	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-b	**14-09-1089-74-A**	**09/09/14 11:46**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:17**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.19	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.490	1.09	0.131	1.00	0.120	1.00	J
Lead	22.4	1.09	0.150	1.00	0.137	1.00	
Selenium	0.558	1.09	0.289	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-c	**14-09-1089-75-A**	**09/09/14 11:50**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:20**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.13	0.439	1.00	0.389	1.00	
Cadmium	0.669	1.13	0.135	1.00	0.120	1.00	J
Lead	28.8	1.13	0.155	1.00	0.137	1.00	
Selenium	0.655	1.13	0.298	1.00	0.264	1.00	B,J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-a	**14-09-1089-76-A**	**09/09/14 11:54**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:23**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.76	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.614	1.10	0.131	1.00	0.120	1.00	J
Lead	28.9	1.10	0.150	1.00	0.137	1.00	
Selenium	0.683	1.10	0.289	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-b	**14-09-1089-77-A**	**09/09/14 11:58**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:25**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.618	1.09	0.131	1.00	0.120	1.00	J
Lead	26.2	1.09	0.150	1.00	0.137	1.00	
Selenium	1.08	1.09	0.288	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-c	**14-09-1089-78-A**	**09/09/14 12:00**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:28**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.638	1.09	0.130	1.00	0.120	1.00	J
Lead	28.0	1.09	0.149	1.00	0.137	1.00	
Selenium	0.566	1.09	0.287	1.00	0.264	1.00	B,J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-a	**14-09-1089-79-A**	**09/09/14 12:04**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:31**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.4	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.648	1.08	0.129	1.00	0.120	1.00	J
Lead	28.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.609	1.08	0.284	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-b	**14-09-1089-80-A**	**09/09/14 12:07**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:34**	**140919L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.8	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.673	1.09	0.130	1.00	0.120	1.00	J
Lead	30.0	1.09	0.149	1.00	0.137	1.00	
Selenium	0.544	1.09	0.287	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-c	**14-09-1089-81-A**	**09/09/14 12:11**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:06**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.46	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.618	1.09	0.130	1.00	0.120	1.00	J
Lead	24.6	1.09	0.149	1.00	0.137	1.00	
Selenium	0.941	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-f	**14-09-1089-82-A**	**09/09/14 13:33**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 14:36**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.3	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.711	1.08	0.130	1.00	0.120	1.00	J
Lead	29.1	1.08	0.149	1.00	0.137	1.00	
Selenium	0.364	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-e	**14-09-1089-83-A**	**09/09/14 13:36**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:06**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.4	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.745	1.07	0.128	1.00	0.120	1.00	J
Lead	30.1	1.07	0.146	1.00	0.137	1.00	
Selenium	0.331	1.07	0.282	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-d	**14-09-1089-84-A**	**09/09/14 13:40**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:09**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.91	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.595	1.07	0.129	1.00	0.120	1.00	J
Lead	26.9	1.07	0.147	1.00	0.137	1.00	
Selenium	0.622	1.07	0.283	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-f	**14-09-1089-85-A**	**09/09/14 13:43**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:11**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.629	1.10	0.131	1.00	0.120	1.00	J
Lead	27.2	1.10	0.150	1.00	0.137	1.00	
Selenium	0.342	1.10	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-e	**14-09-1089-86-A**	**09/09/14 13:47**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:14**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.667	1.11	0.133	1.00	0.120	1.00	J
Lead	28.6	1.11	0.152	1.00	0.137	1.00	
Selenium	0.803	1.11	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-d	**14-09-1089-87-A**	**09/09/14 13:54**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:17**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.1	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.671	1.07	0.129	1.00	0.120	1.00	J
Lead	30.2	1.07	0.147	1.00	0.137	1.00	
Selenium	0.471	1.07	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-f	**14-09-1089-88-A**	**09/09/14 13:58**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:19**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.586	1.08	0.129	1.00	0.120	1.00	J
Lead	28.1	1.08	0.148	1.00	0.137	1.00	
Selenium	0.635	1.08	0.284	1.00	0.264	1.00	J

5E-e	**14-09-1089-89-A**	**09/09/14 14:01**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:22**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.585	1.09	0.131	1.00	0.120	1.00	J
Lead	38.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.628	1.09	0.288	1.00	0.264	1.00	J

5E-d	**14-09-1089-90-A**	**09/09/14 14:06**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:25**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.13	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.572	1.08	0.129	1.00	0.120	1.00	J
Lead	25.5	1.08	0.148	1.00	0.137	1.00	
Selenium	0.653	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-f	**14-09-1089-91-A**	**09/09/14 14:10**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:27**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.45	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.572	1.10	0.132	1.00	0.120	1.00	J
Lead	26.5	1.10	0.151	1.00	0.137	1.00	
Selenium	0.714	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-e	**14-09-1089-92-A**	**09/09/14 14:14**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:30**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.0	1.06	0.415	1.00	0.389	1.00	
Cadmium	0.586	1.06	0.128	1.00	0.120	1.00	J
Lead	25.6	1.06	0.146	1.00	0.137	1.00	
Selenium	ND	1.06	0.281	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-d	**14-09-1089-93-A**	**09/09/14 14:17**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:41**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.573	1.07	0.129	1.00	0.120	1.00	J
Lead	28.4	1.07	0.147	1.00	0.137	1.00	
Selenium	0.342	1.07	0.283	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-f	**14-09-1089-94-A**	**09/09/14 14:22**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:44**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.1	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.561	1.08	0.130	1.00	0.120	1.00	J
Lead	30.3	1.08	0.148	1.00	0.137	1.00	
Selenium	0.373	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-e	**14-09-1089-95-A**	**09/09/14 14:25**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 15:46**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.584	1.07	0.128	1.00	0.120	1.00	J
Lead	28.0	1.07	0.146	1.00	0.137	1.00	
Selenium	ND	1.07	0.281	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-d	**14-09-1089-96-A**	**09/09/14 14:30**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:32**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.65	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.610	1.08	0.129	1.00	0.120	1.00	J
Lead	25.8	1.08	0.147	1.00	0.137	1.00	
Selenium	0.467	1.08	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-f	**14-09-1089-97-A**	**09/09/14 14:33**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:34**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.76	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.532	1.08	0.130	1.00	0.120	1.00	J
Lead	26.1	1.08	0.149	1.00	0.137	1.00	
Selenium	0.793	1.08	0.286	1.00	0.264	1.00	J

5B-e	**14-09-1089-98-A**	**09/09/14 14:37**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:37**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.83	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.503	1.09	0.130	1.00	0.120	1.00	J
Lead	25.5	1.09	0.149	1.00	0.137	1.00	
Selenium	0.564	1.09	0.287	1.00	0.264	1.00	J

5B-d	**14-09-1089-99-A**	**09/09/14 14:41**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:39**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.71	1.06	0.412	1.00	0.389	1.00	
Cadmium	0.535	1.06	0.127	1.00	0.120	1.00	J
Lead	13.4	1.06	0.145	1.00	0.137	1.00	
Selenium	0.833	1.06	0.280	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-g	**14-09-1089-100-A**	**09/09/14 14:54**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:41**	**140919L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.29	1.05	0.408	1.00	0.389	1.00	
Cadmium	0.549	1.05	0.126	1.00	0.120	1.00	J
Lead	14.6	1.05	0.144	1.00	0.137	1.00	
Selenium	0.652	1.05	0.277	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-h	**14-09-1089-101-A**	**09/09/14 14:59**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:08**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.72	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.588	1.08	0.129	1.00	0.120	1.00	J
Lead	21.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.734	1.08	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-i	**14-09-1089-102-A**	**09/09/14 15:03**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:43**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.44	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.655	1.07	0.129	1.00	0.120	1.00	J
Lead	25.6	1.07	0.147	1.00	0.137	1.00	
Selenium	1.24	1.07	0.283	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-g	**14-09-1089-103-A**	**09/09/14 15:06**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:45**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.38	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.496	1.09	0.131	1.00	0.120	1.00	J
Lead	26.2	1.09	0.150	1.00	0.137	1.00	
Selenium	0.566	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-h	**14-09-1089-104-A**	**09/09/14 15:11**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:47**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.75	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.524	1.08	0.129	1.00	0.120	1.00	J
Lead	26.2	1.08	0.148	1.00	0.137	1.00	
Selenium	0.671	1.08	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5C-i	**14-09-1089-105-A**	**09/09/14 15:15**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:49**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.05	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.543	1.07	0.129	1.00	0.120	1.00	J
Lead	24.4	1.07	0.147	1.00	0.137	1.00	
Selenium	0.666	1.07	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5D-g	**14-09-1089-106-A**	**09/09/14 15:20**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 16:58**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.02	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.495	1.08	0.130	1.00	0.120	1.00	J
Lead	24.5	1.08	0.149	1.00	0.137	1.00	
Selenium	0.805	1.08	0.286	1.00	0.264	1.00	J

5D-h	**14-09-1089-107-A**	**09/09/14 15:25**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:00**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.13	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.554	1.07	0.129	1.00	0.120	1.00	J
Lead	27.0	1.07	0.147	1.00	0.137	1.00	
Selenium	1.42	1.07	0.283	1.00	0.264	1.00	

5D-i	**14-09-1089-108-A**	**09/09/14 15:29**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:02**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.54	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.501	1.07	0.129	1.00	0.120	1.00	J
Lead	24.4	1.07	0.147	1.00	0.137	1.00	
Selenium	0.971	1.07	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-g	**14-09-1089-109-A**	**09/09/14 15:33**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:05**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.58	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.535	1.07	0.129	1.00	0.120	1.00	J
Lead	24.6	1.07	0.147	1.00	0.137	1.00	
Selenium	1.34	1.07	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-h	**14-09-1089-110-A**	**09/09/14 15:38**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:07**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.88	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.577	1.09	0.131	1.00	0.120	1.00	J
Lead	25.5	1.09	0.150	1.00	0.137	1.00	
Selenium	0.824	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-i	**14-09-1089-111-A**	**09/09/14 15:41**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:09**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.90	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.605	1.08	0.130	1.00	0.120	1.00	J
Lead	26.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.914	1.08	0.286	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-g	**14-09-1089-112-A**	**09/09/14 15:45**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:11**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.97	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.668	1.10	0.132	1.00	0.120	1.00	J
Lead	30.4	1.10	0.151	1.00	0.137	1.00	
Selenium	1.17	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-h	**14-09-1089-113-A**	**09/09/14 15:49**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:13**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.92	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.592	1.07	0.129	1.00	0.120	1.00	J
Lead	25.6	1.07	0.147	1.00	0.137	1.00	
Selenium	0.618	1.07	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5F-i	**14-09-1089-114-A**	**09/09/14 15:55**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:15**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.77	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.595	1.09	0.130	1.00	0.120	1.00	J
Lead	25.8	1.09	0.149	1.00	0.137	1.00	
Selenium	0.860	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-g	**14-09-1089-115-A**	**09/10/14 09:49**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:18**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.36	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.614	1.09	0.131	1.00	0.120	1.00	J
Lead	27.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.722	1.09	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-h	**14-09-1089-116-A**	**09/10/14 09:53**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:41**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.70	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.621	1.08	0.130	1.00	0.120	1.00	J
Lead	27.3	1.08	0.149	1.00	0.137	1.00	
Selenium	1.35	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-i	**14-09-1089-117-A**	**09/10/14 09:56**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:43**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.615	1.08	0.129	1.00	0.120	1.00	J
Lead	20.0	1.08	0.148	1.00	0.137	1.00	
Selenium	0.942	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-c	**14-09-1089-118-A**	**09/10/14 10:00**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:46**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	17.2	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.661	1.09	0.131	1.00	0.120	1.00	J
Lead	26.4	1.09	0.149	1.00	0.137	1.00	
Selenium	1.03	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-b	**14-09-1089-119-A**	**09/10/14 10:04**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:48**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.653	1.07	0.129	1.00	0.120	1.00	J
Lead	26.6	1.07	0.147	1.00	0.137	1.00	
Selenium	0.835	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-a	**14-09-1089-120-A**	**09/10/14 10:07**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/21/14 17:50**	**140919L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.31	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.624	1.08	0.129	1.00	0.120	1.00	J
Lead	25.3	1.08	0.148	1.00	0.137	1.00	
Selenium	0.887	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-c	**14-09-1089-121-A**	**09/10/14 10:10**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/24/14 17:30**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.98	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.622	1.08	0.129	1.00	0.120	1.00	J
Lead	24.1	1.08	0.148	1.00	0.137	1.00	
Selenium	0.774	1.08	0.285	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-b	**14-09-1089-122-A**	**09/10/14 10:13**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 17:52**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.70	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.557	1.08	0.130	1.00	0.120	1.00	J
Lead	26.0	1.08	0.149	1.00	0.137	1.00	
Selenium	0.871	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-a	**14-09-1089-123-A**	**09/10/14 10:16**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 17:54**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.61	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.597	1.07	0.129	1.00	0.120	1.00	J
Lead	27.4	1.07	0.147	1.00	0.137	1.00	
Selenium	1.60	1.07	0.283	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-c	**14-09-1089-124-A**	**09/10/14 10:21**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 17:56**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.54	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.545	1.08	0.129	1.00	0.120	1.00	J
Lead	26.9	1.08	0.147	1.00	0.137	1.00	
Selenium	1.72	1.08	0.284	1.00	0.264	1.00	

6E-b	**14-09-1089-125-A**	**09/10/14 10:25**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 17:59**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.582	1.08	0.130	1.00	0.120	1.00	J
Lead	26.5	1.08	0.149	1.00	0.137	1.00	
Selenium	1.59	1.08	0.286	1.00	0.264	1.00	

6E-a	**14-09-1089-126-A**	**09/10/14 10:28**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:01**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.509	1.09	0.130	1.00	0.120	1.00	J
Lead	23.6	1.09	0.149	1.00	0.137	1.00	
Selenium	1.20	1.09	0.287	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 43 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-c	**14-09-1089-127-A**	**09/10/14 10:30**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:09**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.24	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.563	1.09	0.130	1.00	0.120	1.00	J
Lead	27.6	1.09	0.149	1.00	0.137	1.00	
Selenium	1.45	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-b	**14-09-1089-128-A**	**09/10/14 10:35**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:11**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.07	0.416	1.00	0.389	1.00	
Cadmium	0.537	1.07	0.128	1.00	0.120	1.00	J
Lead	26.3	1.07	0.146	1.00	0.137	1.00	
Selenium	1.25	1.07	0.282	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-a	**14-09-1089-129-A**	**09/10/14 10:38**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:14**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.534	1.09	0.131	1.00	0.120	1.00	J
Lead	23.5	1.09	0.149	1.00	0.137	1.00	
Selenium	1.69	1.09	0.288	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-c	**14-09-1089-130-A**	**09/10/14 10:41**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:16**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.7	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.642	1.09	0.130	1.00	0.120	1.00	J
Lead	28.1	1.09	0.149	1.00	0.137	1.00	
Selenium	1.68	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-b	**14-09-1089-131-A**	**09/10/14 10:44**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:18**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.6	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.564	1.08	0.129	1.00	0.120	1.00	J
Lead	26.5	1.08	0.148	1.00	0.137	1.00	
Selenium	1.37	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-a	**14-09-1089-132-A**	**09/10/14 10:48**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:20**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.564	1.08	0.129	1.00	0.120	1.00	J
Lead	25.9	1.08	0.148	1.00	0.137	1.00	
Selenium	1.21	1.08	0.284	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-c	**14-09-1089-133-A**	**09/10/14 10:52**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:22**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.7	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.541	1.10	0.132	1.00	0.120	1.00	J
Lead	25.4	1.10	0.150	1.00	0.137	1.00	
Selenium	0.956	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-b	**14-09-1089-134-A**	**09/10/14 10:55**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:24**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.603	1.07	0.129	1.00	0.120	1.00	J
Lead	26.6	1.07	0.147	1.00	0.137	1.00	
Selenium	0.870	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-a	**14-09-1089-135-A**	**09/10/14 10:58**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:27**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.44	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.509	1.08	0.130	1.00	0.120	1.00	J
Lead	16.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.666	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-d	**14-09-1089-136-A**	**09/10/14 11:09**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:29**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.02	1.05	0.410	1.00	0.389	1.00	
Cadmium	0.464	1.05	0.126	1.00	0.120	1.00	J
Lead	21.1	1.05	0.144	1.00	0.137	1.00	
Selenium	0.935	1.05	0.278	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-e	**14-09-1089-137-A**	**09/10/14 11:14**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:53**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.48	1.15	0.446	1.00	0.389	1.00	
Cadmium	0.525	1.15	0.137	1.00	0.120	1.00	J
Lead	26.3	1.15	0.157	1.00	0.137	1.00	
Selenium	1.21	1.15	0.302	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-f	**14-09-1089-138-A**	**09/10/14 11:18**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:55**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.11	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.558	1.08	0.129	1.00	0.120	1.00	J
Lead	27.1	1.08	0.148	1.00	0.137	1.00	
Selenium	1.06	1.08	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-d	**14-09-1089-139-A**	**09/10/14 11:21**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:57**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.43	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.603	1.08	0.130	1.00	0.120	1.00	J
Lead	28.0	1.08	0.149	1.00	0.137	1.00	
Selenium	0.740	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-e	**14-09-1089-140-A**	**09/10/14 11:23**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 18:59**	**140920L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.86	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.655	1.09	0.130	1.00	0.120	1.00	J
Lead	28.7	1.09	0.149	1.00	0.137	1.00	
Selenium	1.10	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-f	**14-09-1089-141-A**	**09/10/14 11:26**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:33**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.40	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.661	1.09	0.131	1.00	0.120	1.00	J
Lead	28.1	1.09	0.150	1.00	0.137	1.00	
Selenium	0.748	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-d	**14-09-1089-142-A**	**09/10/14 11:29**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:01**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.68	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.558	1.08	0.130	1.00	0.120	1.00	J
Lead	27.6	1.08	0.149	1.00	0.137	1.00	
Selenium	1.27	1.08	0.286	1.00	0.264	1.00	

6D-e	**14-09-1089-143-A**	**09/10/14 11:32**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:03**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.680	1.09	0.130	1.00	0.120	1.00	J
Lead	31.4	1.09	0.149	1.00	0.137	1.00	
Selenium	1.03	1.09	0.287	1.00	0.264	1.00	J

6D-f	**14-09-1089-144-A**	**09/10/14 11:35**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:05**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.661	1.10	0.132	1.00	0.120	1.00	J
Lead	28.8	1.10	0.151	1.00	0.137	1.00	
Selenium	1.09	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 49 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-d	**14-09-1089-145-A**	**09/10/14 15:47**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:08**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.97	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.606	1.08	0.129	1.00	0.120	1.00	J
Lead	28.4	1.08	0.148	1.00	0.137	1.00	
Selenium	1.25	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-e	**14-09-1089-146-A**	**09/10/14 15:50**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:10**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.652	1.07	0.129	1.00	0.120	1.00	J
Lead	30.1	1.07	0.147	1.00	0.137	1.00	
Selenium	1.35	1.07	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-f	**14-09-1089-147-A**	**09/10/14 15:53**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:12**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.40	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.584	1.08	0.129	1.00	0.120	1.00	J
Lead	28.8	1.08	0.148	1.00	0.137	1.00	
Selenium	0.923	1.08	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-d	**14-09-1089-148-A**	**09/10/14 16:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:21**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.70	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.621	1.08	0.130	1.00	0.120	1.00	J
Lead	28.8	1.08	0.148	1.00	0.137	1.00	
Selenium	1.01	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-e	**14-09-1089-149-A**	**09/10/14 16:12**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:23**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.89	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.613	1.10	0.132	1.00	0.120	1.00	J
Lead	34.1	1.10	0.151	1.00	0.137	1.00	
Selenium	1.23	1.10	0.290	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-f	**14-09-1089-150-A**	**09/10/14 16:17**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:25**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.96	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.679	1.08	0.129	1.00	0.120	1.00	J
Lead	37.4	1.08	0.148	1.00	0.137	1.00	
Selenium	1.53	1.08	0.285	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-d	**14-09-1089-151-A**	**09/10/14 16:20**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:27**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.16	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.717	1.09	0.131	1.00	0.120	1.00	J
Lead	39.6	1.09	0.150	1.00	0.137	1.00	
Selenium	1.29	1.09	0.289	1.00	0.264	1.00	

6G-e	**14-09-1089-152-A**	**09/10/14 16:28**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:29**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.728	1.08	0.129	1.00	0.120	1.00	J
Lead	34.3	1.08	0.148	1.00	0.137	1.00	
Selenium	1.48	1.08	0.284	1.00	0.264	1.00	

6G-f	**14-09-1089-153-A**	**09/10/14 16:32**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:31**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.50	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.631	1.09	0.131	1.00	0.120	1.00	J
Lead	30.7	1.09	0.150	1.00	0.137	1.00	
Selenium	1.16	1.09	0.289	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-i	**14-09-1089-154-A**	**09/10/14 16:44**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:33**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.59	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.623	1.11	0.133	1.00	0.120	1.00	J
Lead	30.8	1.11	0.152	1.00	0.137	1.00	
Selenium	1.20	1.11	0.293	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-h	**14-09-1089-155-A**	**09/10/14 16:48**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:36**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.552	1.08	0.130	1.00	0.120	1.00	J
Lead	33.3	1.08	0.148	1.00	0.137	1.00	
Selenium	1.11	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-g	**14-09-1089-156-A**	**09/10/14 16:59**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:38**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.645	1.08	0.130	1.00	0.120	1.00	J
Lead	34.0	1.08	0.149	1.00	0.137	1.00	
Selenium	1.02	1.08	0.286	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-i	**14-09-1089-157-A**	**09/10/14 17:03**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 19:40**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.595	1.08	0.129	1.00	0.120	1.00	J
Lead	33.8	1.08	0.147	1.00	0.137	1.00	
Selenium	0.954	1.08	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-h	**14-09-1089-158-A**	**09/10/14 17:07**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:04**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.692	1.10	0.132	1.00	0.120	1.00	J
Lead	30.2	1.10	0.151	1.00	0.137	1.00	
Selenium	1.49	1.10	0.290	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-g	**14-09-1089-159-A**	**09/10/14 17:17**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:06**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.3	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.705	1.10	0.132	1.00	0.120	1.00	J
Lead	30.6	1.10	0.151	1.00	0.137	1.00	
Selenium	1.30	1.10	0.291	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-i	**14-09-1089-160-A**	**09/10/14 17:21**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:08**	**140920L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.8	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.653	1.08	0.129	1.00	0.120	1.00	J
Lead	31.0	1.08	0.148	1.00	0.137	1.00	
Selenium	1.53	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-h	**14-09-1089-161-A**	**09/10/14 17:25**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:35**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.81	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.704	1.09	0.131	1.00	0.120	1.00	J
Lead	32.1	1.09	0.149	1.00	0.137	1.00	
Selenium	0.807	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-g	**14-09-1089-162-A**	**09/10/14 17:29**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:10**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.1	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.730	1.10	0.132	1.00	0.120	1.00	J
Lead	30.4	1.10	0.151	1.00	0.137	1.00	
Selenium	1.29	1.10	0.290	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-i	**14-09-1089-163-A**	**09/10/14 17:33**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:12**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.700	1.08	0.130	1.00	0.120	1.00	J
Lead	29.6	1.08	0.148	1.00	0.137	1.00	
Selenium	1.27	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-h	**14-09-1089-164-A**	**09/10/14 17:36**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:15**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.733	1.08	0.129	1.00	0.120	1.00	J
Lead	25.7	1.08	0.148	1.00	0.137	1.00	
Selenium	1.34	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-g	**14-09-1089-165-A**	**09/10/14 17:40**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:17**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.7	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.637	1.08	0.130	1.00	0.120	1.00	J
Lead	27.2	1.08	0.149	1.00	0.137	1.00	
Selenium	1.07	1.08	0.286	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-i	**14-09-1089-166-A**	**09/10/14 17:43**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:19**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.635	1.09	0.130	1.00	0.120	1.00	J
Lead	29.4	1.09	0.149	1.00	0.137	1.00	
Selenium	1.12	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-h	**14-09-1089-167-A**	**09/10/14 17:47**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:21**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.540	1.08	0.129	1.00	0.120	1.00	J
Lead	26.9	1.08	0.148	1.00	0.137	1.00	
Selenium	1.36	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-g	**14-09-1089-168-A**	**09/10/14 17:53**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:23**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.526	1.08	0.129	1.00	0.120	1.00	J
Lead	27.2	1.08	0.148	1.00	0.137	1.00	
Selenium	1.22	1.08	0.284	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-i	**14-09-1089-169-A**	**09/10/14 17:57**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:32**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.17	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.490	1.08	0.130	1.00	0.120	1.00	J
Lead	26.4	1.08	0.148	1.00	0.137	1.00	
Selenium	1.15	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-h	**14-09-1089-170-A**	**09/10/14 18:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:34**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.65	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.514	1.07	0.129	1.00	0.120	1.00	J
Lead	26.2	1.07	0.147	1.00	0.137	1.00	
Selenium	1.99	1.07	0.283	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-g	**14-09-1089-171-A**	**09/10/14 18:04**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:36**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.7	1.06	0.412	1.00	0.389	1.00	
Cadmium	0.576	1.06	0.127	1.00	0.120	1.00	J
Lead	15.8	1.06	0.145	1.00	0.137	1.00	
Selenium	0.653	1.06	0.280	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 58 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-a	**14-09-1089-172-A**	**09/11/14 10:06**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:38**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.6	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.535	1.08	0.129	1.00	0.120	1.00	J
Lead	14.4	1.08	0.147	1.00	0.137	1.00	
Selenium	1.09	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-b	**14-09-1089-173-A**	**09/11/14 10:14**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:40**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.41	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.467	1.08	0.129	1.00	0.120	1.00	J
Lead	23.2	1.08	0.148	1.00	0.137	1.00	
Selenium	1.09	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-c	**14-09-1089-174-A**	**09/11/14 10:18**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:43**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.06	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.511	1.08	0.129	1.00	0.120	1.00	J
Lead	22.5	1.08	0.148	1.00	0.137	1.00	
Selenium	1.26	1.08	0.284	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-a	**14-09-1089-175-A**	**09/11/14 10:21**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:45**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.569	1.10	0.131	1.00	0.120	1.00	J
Lead	26.9	1.10	0.150	1.00	0.137	1.00	
Selenium	1.58	1.10	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-b	**14-09-1089-176-A**	**09/11/14 10:24**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:47**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.0	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.589	1.09	0.131	1.00	0.120	1.00	J
Lead	27.5	1.09	0.150	1.00	0.137	1.00	
Selenium	1.25	1.09	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-c	**14-09-1089-177-A**	**09/11/14 10:27**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:49**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.617	1.10	0.132	1.00	0.120	1.00	J
Lead	28.2	1.10	0.151	1.00	0.137	1.00	
Selenium	1.16	1.10	0.291	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-a	**14-09-1089-178-A**	**09/11/14 10:30**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 20:51**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.587	1.10	0.132	1.00	0.120	1.00	J
Lead	26.4	1.10	0.151	1.00	0.137	1.00	
Selenium	1.20	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-b	**14-09-1089-179-A**	**09/11/14 10:33**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:15**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.648	1.10	0.131	1.00	0.120	1.00	J
Lead	28.9	1.10	0.150	1.00	0.137	1.00	
Selenium	1.66	1.10	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-c	**14-09-1089-180-A**	**09/11/14 10:37**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:17**	**140920L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.74	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.571	1.08	0.130	1.00	0.120	1.00	J
Lead	23.7	1.08	0.149	1.00	0.137	1.00	
Selenium	1.12	1.08	0.286	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-a	**14-09-1089-181-A**	**09/11/14 10:40**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:37**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.10	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.659	1.07	0.129	1.00	0.120	1.00	J
Lead	29.4	1.07	0.147	1.00	0.137	1.00	
Selenium	0.812	1.07	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-b	**14-09-1089-182-A**	**09/11/14 10:47**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:19**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.621	1.08	0.129	1.00	0.120	1.00	J
Lead	27.7	1.08	0.148	1.00	0.137	1.00	
Selenium	1.27	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-c	**14-09-1089-183-A**	**09/11/14 10:50**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:22**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	94.5	11.0	4.28	1.00	0.389	10.0	
Cadmium	6.98	11.0	1.32	1.00	0.120	10.0	J
Lead	257	11.0	1.51	1.00	0.137	10.0	
Selenium	10.9	11.0	2.90	1.00	0.264	10.0	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-a	**14-09-1089-184-A**	**09/11/14 10:54**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:24**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.2	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.656	1.10	0.131	1.00	0.120	1.00	J
Lead	29.5	1.10	0.150	1.00	0.137	1.00	
Selenium	1.29	1.10	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-b	**14-09-1089-185-A**	**09/11/14 11:02**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:26**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.694	1.10	0.132	1.00	0.120	1.00	J
Lead	26.7	1.10	0.151	1.00	0.137	1.00	
Selenium	1.48	1.10	0.292	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-c	**14-09-1089-186-A**	**09/11/14 11:08**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:28**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.2	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.671	1.11	0.133	1.00	0.120	1.00	J
Lead	31.3	1.11	0.152	1.00	0.137	1.00	
Selenium	1.17	1.11	0.293	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 63 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-a	**14-09-1089-187-A**	**09/11/14 11:12**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:30**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.665	1.09	0.131	1.00	0.120	1.00	J
Lead	27.3	1.09	0.150	1.00	0.137	1.00	
Selenium	1.08	1.09	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-b	**14-09-1089-188-A**	**09/11/14 11:15**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:32**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.635	1.09	0.130	1.00	0.120	1.00	J
Lead	29.8	1.09	0.149	1.00	0.137	1.00	
Selenium	1.12	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-c	**14-09-1089-189-A**	**09/11/14 11:19**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:34**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.588	1.09	0.130	1.00	0.120	1.00	J
Lead	29.8	1.09	0.149	1.00	0.137	1.00	
Selenium	1.29	1.09	0.287	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 64 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-f	**14-09-1089-190-A**	**09/11/14 11:25**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:43**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.599	1.10	0.132	1.00	0.120	1.00	J
Lead	31.0	1.10	0.151	1.00	0.137	1.00	
Selenium	1.27	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-e	**14-09-1089-191-A**	**09/11/14 11:29**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:45**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.1	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.735	1.10	0.132	1.00	0.120	1.00	J
Lead	34.2	1.10	0.151	1.00	0.137	1.00	
Selenium	1.29	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-d	**14-09-1089-192-A**	**09/11/14 11:37**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:47**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.14	0.444	1.00	0.389	1.00	
Cadmium	0.670	1.14	0.137	1.00	0.120	1.00	J
Lead	30.2	1.14	0.157	1.00	0.137	1.00	
Selenium	1.19	1.14	0.301	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-f	**14-09-1089-193-A**	**09/11/14 11:44**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:50**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.8	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.675	1.10	0.132	1.00	0.120	1.00	J
Lead	29.5	1.10	0.151	1.00	0.137	1.00	
Selenium	1.52	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-e	**14-09-1089-194-A**	**09/11/14 11:48**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:52**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.4	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.674	1.11	0.134	1.00	0.120	1.00	J
Lead	31.4	1.11	0.153	1.00	0.137	1.00	
Selenium	1.40	1.11	0.294	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-d	**14-09-1089-195-A**	**09/11/14 11:57**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:54**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.1	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.623	1.10	0.132	1.00	0.120	1.00	J
Lead	26.9	1.10	0.151	1.00	0.137	1.00	
Selenium	1.25	1.10	0.290	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-f	**14-09-1089-196-A**	**09/11/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:56**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.684	1.11	0.133	1.00	0.120	1.00	J
Lead	28.7	1.11	0.152	1.00	0.137	1.00	
Selenium	1.14	1.11	0.293	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-e	**14-09-1089-197-A**	**09/11/14 12:03**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 21:58**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.9	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.746	1.10	0.132	1.00	0.120	1.00	J
Lead	27.1	1.10	0.151	1.00	0.137	1.00	
Selenium	1.12	1.10	0.290	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-d	**14-09-1089-198-A**	**09/11/14 12:06**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:00**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.7	1.13	0.439	1.00	0.389	1.00	
Cadmium	0.721	1.13	0.135	1.00	0.120	1.00	J
Lead	28.1	1.13	0.155	1.00	0.137	1.00	
Selenium	1.18	1.13	0.298	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-f	**14-09-1089-199-A**	**09/11/14 12:11**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:03**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.79	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.642	1.09	0.131	1.00	0.120	1.00	J
Lead	24.6	1.09	0.150	1.00	0.137	1.00	
Selenium	0.862	1.09	0.288	1.00	0.264	1.00	J

7D-e	**14-09-1089-200-A**	**09/11/14 12:15**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:26**	**140920L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.655	1.10	0.132	1.00	0.120	1.00	J
Lead	27.0	1.10	0.151	1.00	0.137	1.00	
Selenium	1.34	1.10	0.290	1.00	0.264	1.00	

7D-d	**14-09-1089-201-A**	**09/11/14 12:18**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:39**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.11	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.681	1.09	0.130	1.00	0.120	1.00	J
Lead	29.4	1.09	0.149	1.00	0.137	1.00	
Selenium	0.647	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-f	**14-09-1089-202-A**	**09/11/14 12:21**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:29**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.676	1.09	0.131	1.00	0.120	1.00	J
Lead	28.0	1.09	0.150	1.00	0.137	1.00	
Selenium	1.15	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-e	**14-09-1089-203-A**	**09/11/14 12:25**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:31**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.2	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.648	1.10	0.132	1.00	0.120	1.00	J
Lead	28.1	1.10	0.150	1.00	0.137	1.00	
Selenium	1.26	1.10	0.290	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-d	**14-09-1089-204-A**	**09/11/14 12:28**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:33**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.1	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.590	1.09	0.131	1.00	0.120	1.00	J
Lead	28.1	1.09	0.149	1.00	0.137	1.00	
Selenium	1.07	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 69 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-f	**14-09-1089-205-A**	**09/11/14 12:31**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:35**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.67	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.609	1.09	0.131	1.00	0.120	1.00	J
Lead	26.2	1.09	0.149	1.00	0.137	1.00	
Selenium	1.39	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-e	**14-09-1089-206-A**	**09/11/14 12:34**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:37**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.22	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.545	1.08	0.129	1.00	0.120	1.00	J
Lead	26.1	1.08	0.148	1.00	0.137	1.00	
Selenium	1.25	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-d	**14-09-1089-207-A**	**09/11/14 12:37**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:39**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	27.1	1.05	0.408	1.00	0.389	1.00	
Cadmium	0.555	1.05	0.126	1.00	0.120	1.00	J
Lead	14.6	1.05	0.144	1.00	0.137	1.00	
Selenium	0.813	1.05	0.277	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-g	**14-09-1089-208-A**	**09/11/14 13:38**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:41**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.06	0.413	1.00	0.389	1.00	
Cadmium	0.535	1.06	0.127	1.00	0.120	1.00	J
Lead	14.6	1.06	0.146	1.00	0.137	1.00	
Selenium	1.09	1.06	0.280	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-h	**14-09-1089-209-A**	**09/11/14 13:41**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:44**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.566	1.08	0.129	1.00	0.120	1.00	J
Lead	25.8	1.08	0.147	1.00	0.137	1.00	
Selenium	1.66	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-i	**14-09-1089-210-A**	**09/11/14 13:44**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:46**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.599	1.09	0.130	1.00	0.120	1.00	J
Lead	26.6	1.09	0.149	1.00	0.137	1.00	
Selenium	1.61	1.09	0.287	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-g	**14-09-1089-211-A**	**09/11/14 13:48**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:54**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.623	1.09	0.131	1.00	0.120	1.00	J
Lead	27.9	1.09	0.149	1.00	0.137	1.00	
Selenium	1.04	1.09	0.288	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-h	**14-09-1089-212-A**	**09/11/14 13:52**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:57**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.8	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.687	1.09	0.131	1.00	0.120	1.00	J
Lead	29.2	1.09	0.150	1.00	0.137	1.00	
Selenium	1.32	1.09	0.289	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-i	**14-09-1089-213-A**	**09/11/14 13:56**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 22:59**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.610	1.11	0.133	1.00	0.120	1.00	J
Lead	25.5	1.11	0.153	1.00	0.137	1.00	
Selenium	1.19	1.11	0.294	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-g	**14-09-1089-214-A**	**09/11/14 14:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:01**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.669	1.09	0.130	1.00	0.120	1.00	J
Lead	27.0	1.09	0.149	1.00	0.137	1.00	
Selenium	1.42	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-h	**14-09-1089-215-A**	**09/11/14 14:03**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:03**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.640	1.08	0.130	1.00	0.120	1.00	J
Lead	24.4	1.08	0.148	1.00	0.137	1.00	
Selenium	1.49	1.08	0.286	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-i	**14-09-1089-216-A**	**09/11/14 14:06**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:05**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.679	1.10	0.132	1.00	0.120	1.00	J
Lead	28.3	1.10	0.150	1.00	0.137	1.00	
Selenium	1.44	1.10	0.290	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-g	**14-09-1089-217-A**	**09/11/14 14:09**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:07**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.6	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.686	1.11	0.134	1.00	0.120	1.00	J
Lead	28.4	1.11	0.153	1.00	0.137	1.00	
Selenium	1.29	1.11	0.294	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-h	**14-09-1089-218-A**	**09/11/14 14:13**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:10**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.582	1.10	0.131	1.00	0.120	1.00	J
Lead	25.7	1.10	0.150	1.00	0.137	1.00	
Selenium	1.01	1.10	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-i	**14-09-1089-219-A**	**09/11/14 14:16**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:12**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.597	1.10	0.132	1.00	0.120	1.00	J
Lead	25.4	1.10	0.151	1.00	0.137	1.00	
Selenium	0.998	1.10	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-g	**14-09-1089-220-A**	**09/11/14 14:19**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:14**	**140920L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.6	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.651	1.10	0.132	1.00	0.120	1.00	J
Lead	28.6	1.10	0.151	1.00	0.137	1.00	
Selenium	1.24	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-h	**14-09-1089-221-A**	**09/11/14 14:27**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:42**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.32	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.738	1.13	0.135	1.00	0.120	1.00	J
Lead	30.7	1.13	0.154	1.00	0.137	1.00	
Selenium	0.602	1.13	0.297	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-i	**14-09-1089-222-A**	**09/11/14 14:34**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:38**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.98	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.668	1.09	0.130	1.00	0.120	1.00	J
Lead	29.4	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-g	**14-09-1089-223-A**	**09/11/14 14:39**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:40**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.82	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.710	1.10	0.132	1.00	0.120	1.00	J
Lead	30.3	1.10	0.151	1.00	0.137	1.00	
Selenium	0.364	1.10	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-h	**14-09-1089-224-A**	**09/11/14 14:44**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:42**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.2	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.829	1.08	0.129	1.00	0.120	1.00	J
Lead	33.6	1.08	0.147	1.00	0.137	1.00	
Selenium	ND	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-i	**14-09-1089-225-A**	**09/11/14 14:47**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:44**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.68	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.710	1.11	0.133	1.00	0.120	1.00	J
Lead	32.8	1.11	0.152	1.00	0.137	1.00	
Selenium	ND	1.11	0.293	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140908 DUP-1	**14-09-1089-226-A**	**09/08/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:46**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.28	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.689	1.08	0.130	1.00	0.120	1.00	J
Lead	26.0	1.08	0.148	1.00	0.137	1.00	
Selenium	0.491	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140908 DUP-2	**14-09-1089-227-A**	**09/08/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:48**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.22	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.622	1.08	0.130	1.00	0.120	1.00	J
Lead	24.9	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-1	**14-09-1089-228-A**	**09/09/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:51**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.95	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.680	1.13	0.135	1.00	0.120	1.00	J
Lead	24.9	1.13	0.154	1.00	0.137	1.00	
Selenium	ND	1.13	0.297	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-2	**14-09-1089-229-A**	**09/09/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:53**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.602	1.07	0.129	1.00	0.120	1.00	J
Lead	23.7	1.07	0.147	1.00	0.137	1.00	
Selenium	ND	1.07	0.283	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-3	**14-09-1089-230-A**	**09/09/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:55**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.544	1.09	0.130	1.00	0.120	1.00	J
Lead	26.5	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-4	**14-09-1089-231-A**	**09/09/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/21/14 23:57**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.56	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.635	1.10	0.132	1.00	0.120	1.00	J
Lead	26.2	1.10	0.151	1.00	0.137	1.00	
Selenium	ND	1.10	0.292	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140909 DUP-5	**14-09-1089-232-A**	**09/09/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 00:06**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.586	1.09	0.130	1.00	0.120	1.00	J
Lead	24.3	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140910 DUP-1	**14-09-1089-233-A**	**09/10/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 00:08**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.96	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.620	1.09	0.131	1.00	0.120	1.00	J
Lead	29.0	1.09	0.150	1.00	0.137	1.00	
Selenium	1.20	1.09	0.288	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140910 DUP-2	**14-09-1089-234-A**	**09/10/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 00:10**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.60	1.07	0.416	1.00	0.389	1.00	
Cadmium	0.626	1.07	0.128	1.00	0.120	1.00	J
Lead	30.6	1.07	0.147	1.00	0.137	1.00	
Selenium	0.421	1.07	0.282	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140910 DUP-3	**14-09-1089-235-A**	**09/10/14 12:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 00:12**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.600	1.08	0.129	1.00	0.120	1.00	J
Lead	28.1	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140911 DUP-1	**14-09-1089-236-A**	**09/11/14 00:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 00:14**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.430	1.08	0.129	1.00	0.120	1.00	J
Lead	13.6	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.284	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140911 DUP-2	**14-09-1089-237-A**	**09/11/14 00:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 00:17**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.4	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.658	1.10	0.132	1.00	0.120	1.00	J
Lead	36.5	1.10	0.151	1.00	0.137	1.00	
Selenium	ND	1.10	0.290	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140911 DUP-3	**14-09-1089-238-A**	**09/11/14 00:00**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 00:19**	**140920L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.21	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.646	1.09	0.130	1.00	0.120	1.00	J
Lead	26.8	1.09	0.149	1.00	0.137	1.00	
Selenium	ND	1.09	0.287	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-618**	**N/A**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 17:44**	**140919L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-619**	**N/A**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 17:47**	**140919L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-620**	**N/A**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:35**	**140919L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-621**	**N/A**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:38**	**140919L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	0.819	1.00	0.264	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-622**	**N/A**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:41**	**140919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-623**	**N/A**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:43**	**140919L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-624**	**N/A**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 10:49**	**140920L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-625**	**N/A**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 10:51**	**140920L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-626**	**N/A**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 10:54**	**140920L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-627**	**N/A**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 10:56**	**140920L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-628**	**N/A**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 10:58**	**140920L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 14046.01			Page 83 of 83

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-629**	**N/A**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:00**	**140920L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 1 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
3E-g	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:57**	**140919S05**
3E-g	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 00:37**	**140919S05**
3E-g	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 00:39**	**140919S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.143	25.00	28.10	92	28.99	95	72-132	3	0-13	
Cadmium	ND	25.00	26.93	108	28.02	112	85-121	4	0-12	
Lead	20.40	25.00	47.27	107	49.13	115	62-134	4	0-23	
Selenium	ND	25.00	24.13	97	23.75	95	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
4D-a	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:59**	**140919S06**
4D-a	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 00:44**	**140919S06**
4D-a	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 00:46**	**140919S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.390	25.00	27.51	88	28.78	94	72-132	5	0-13	
Cadmium	ND	25.00	27.13	109	27.40	110	85-121	1	0-12	
Lead	22.25	25.00	48.83	106	50.50	113	62-134	3	0-23	
Selenium	ND	25.00	24.35	97	23.70	95	54-132	3	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 3 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
4F-e	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:02**	**140919S07**
4F-e	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 00:50**	**140919S07**
4F-e	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 00:52**	**140919S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.474	25.00	30.50	96	30.42	96	72-132	0	0-13	
Cadmium	ND	25.00	26.79	107	27.26	109	85-121	2	0-12	
Lead	25.00	25.00	51.26	105	51.47	106	62-134	0	0-23	
Selenium	ND	25.00	24.46	98	24.05	96	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 4 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
4B-i	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:04**	**140919S08**
4B-i	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 00:57**	**140919S08**
4B-i	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:21**	**140919S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.142	25.00	32.09	100	29.51	89	72-132	8	0-13	
Cadmium	ND	25.00	26.78	107	26.78	107	85-121	0	0-12	
Lead	22.08	25.00	49.46	110	50.04	112	62-134	1	0-23	
Selenium	ND	25.00	22.75	91	22.62	90	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
5G-c	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:06**	**140919S09**
5G-c	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:25**	**140919S09**
5G-c	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:27**	**140919S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.717	25.00	33.68	100	32.75	96	72-132	3	0-13	
Cadmium	ND	25.00	27.52	110	26.05	104	85-121	5	0-12	
Lead	22.66	25.00	49.67	108	48.09	102	62-134	3	0-23	
Selenium	ND	25.00	23.59	94	23.51	94	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
5B-h	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 02:08**	**140919S10**
5B-h	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:31**	**140919S10**
5B-h	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/24/14 01:33**	**140919S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.234	25.00	30.23	96	28.10	87	72-132	7	0-13	
Cadmium	ND	25.00	28.36	113	27.65	111	85-121	3	0-12	
Lead	19.82	25.00	49.91	120	45.80	104	62-134	9	0-23	
Selenium	ND	25.00	23.40	94	22.62	90	54-132	3	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 7 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
6F-c	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/24/14 17:30**	**140920S02**
6F-c	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/24/14 17:21**	**140920S02**
6F-c	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/24/14 17:23**	**140920S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.402	25.00	30.43	92	30.21	91	72-132	1	0-13	
Cadmium	ND	25.00	27.20	109	28.14	113	85-121	3	0-12	
Lead	22.34	25.00	47.29	100	49.58	109	62-134	5	0-23	
Selenium	ND	25.00	24.25	97	24.49	98	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 8 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
6C-f	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:33**	**140920S03**
6C-f	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:22**	**140920S03**
6C-f	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:24**	**140920S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.779	25.00	32.86	104	32.71	104	72-132	0	0-13	
Cadmium	ND	25.00	29.18	117	29.41	118	85-121	1	0-12	
Lead	25.74	25.00	55.30	118	54.89	117	62-134	1	0-23	
Selenium	ND	25.00	26.87	107	26.45	106	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
6E-h	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:35**	**140920S04**
6E-h	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:28**	**140920S04**
6E-h	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:30**	**140920S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.090	25.00	30.25	89	30.30	89	72-132	0	0-13	
Cadmium	ND	25.00	28.54	114	28.76	115	85-121	1	0-12	
Lead	29.49	25.00	53.93	98	53.46	96	62-134	1	0-23	
Selenium	ND	25.00	25.24	101	25.15	101	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
7E-a	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:37**	**140920S05**
7E-a	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:35**	**140920S05**
7E-a	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:58**	**140920S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.542	25.00	33.09	102	33.93	106	72-132	3	0-13	
Cadmium	ND	25.00	29.74	119	28.82	115	85-121	3	0-12	
Lead	27.38	25.00	57.35	120	55.46	112	62-134	3	0-23	
Selenium	ND	25.00	26.57	106	25.62	102	54-132	4	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
7D-d	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:39**	**140920S06**
7D-d	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:03**	**140920S06**
7D-d	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:05**	**140920S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.463	25.00	29.66	89	29.11	87	72-132	2	0-13	
Cadmium	ND	25.00	25.40	102	25.40	102	85-121	0	0-12	
Lead	27.05	25.00	46.70	79	47.24	81	62-134	1	0-23	
Selenium	ND	25.00	24.17	97	23.04	92	54-132	5	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 12 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
7F-h	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:42**	**140920S07**
7F-h	**Matrix Spike**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:09**	**140920S07**
7F-h	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 12:11**	**140920S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.391	25.00	34.08	107	33.44	104	72-132	2	0-13	
Cadmium	ND	25.00	29.21	117	28.91	116	85-121	1	0-12	
Lead	27.28	25.00	55.41	113	54.64	109	62-134	1	0-23	
Selenium	ND	25.00	26.06	104	25.99	104	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
3E-g	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 01:57**	**140919S05**
3E-g	**PDS**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 00:42**	**140919S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.143	25.00	24.35	77	75-125	
Cadmium	ND	25.00	19.75	79	75-125	
Lead	20.40	25.00	40.33	80	75-125	
Selenium	ND	25.00	19.69	79	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
4D-a	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 01:59**	**140919S06**
4D-a	**PDS**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 00:48**	**140919S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.390	25.00	28.86	94	75-125	
Cadmium	ND	25.00	23.75	95	75-125	
Lead	22.25	25.00	45.92	95	75-125	
Selenium	ND	25.00	24.25	97	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
4F-e	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 02:02**	**140919S07**
4F-e	**PDS**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 00:54**	**140919S07**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.474	25.00	27.06	82	75-125	
Cadmium	ND	25.00	21.25	85	75-125	
Lead	25.00	25.00	45.72	83	75-125	
Selenium	ND	25.00	20.65	83	75-125	

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812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
4B-i	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 02:04**	**140919S08**
4B-i	**PDS**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 01:23**	**140919S08**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.142	25.00	27.94	83	75-125	
Cadmium	ND	25.00	22.54	90	75-125	
Lead	22.08	25.00	44.42	89	75-125	
Selenium	ND	25.00	21.77	87	75-125	

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
5G-c	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 02:06**	**140919S09**
5G-c	**PDS**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 01:29**	**140919S09**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.717	25.00	30.19	86	75-125	
Cadmium	ND	25.00	22.58	90	75-125	
Lead	22.66	25.00	44.12	86	75-125	
Selenium	ND	25.00	22.05	88	75-125	

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Project: Grand Park / 14046.01

Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
5B-h	**Sample**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 02:08**	**140919S10**
5B-h	**PDS**	**Solid**	**ICP/MS 04**	**09/19/14 00:00**	**09/24/14 01:36**	**140919S10**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.234	25.00	28.29	88	75-125	
Cadmium	ND	25.00	23.36	93	75-125	
Lead	19.82	25.00	42.33	90	75-125	
Selenium	ND	25.00	22.24	89	75-125	

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
6F-c	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/24/14 17:30**	**140920S02**
6F-c	**PDS**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/24/14 17:25**	**140920S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.402	25.00	32.63	101	75-125	
Cadmium	ND	25.00	26.04	104	75-125	
Lead	22.34	25.00	47.33	100	75-125	
Selenium	ND	25.00	25.86	103	75-125	

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Quality Control - PDS

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
6C-f	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:33**	**140920S03**
6C-f	**PDS**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 11:26**	**140920S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.779	25.00	33.99	109	75-125	
Cadmium	ND	25.00	28.22	113	75-125	
Lead	25.74	25.00	52.81	108	75-125	
Selenium	ND	25.00	29.22	117	75-125	

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Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
6E-h	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:35**	**140920S04**
6E-h	**PDS**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 11:32**	**140920S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.090	25.00	32.18	96	75-125	
Cadmium	ND	25.00	26.94	108	75-125	
Lead	29.49	25.00	54.14	99	75-125	
Selenium	ND	25.00	26.31	105	75-125	

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Project: Grand Park / 14046.01

Date Received: 09/13/14
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Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
7E-a	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:37**	**140920S05**
7E-a	**PDS**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:01**	**140920S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.542	25.00	32.59	100	75-125	
Cadmium	ND	25.00	26.80	107	75-125	
Lead	27.38	25.00	52.12	99	75-125	
Selenium	ND	25.00	26.55	106	75-125	

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
7D-d	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:39**	**140920S06**
7D-d	**PDS**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:07**	**140920S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.463	25.00	32.95	102	75-125	
Cadmium	ND	25.00	27.05	108	75-125	
Lead	27.05	25.00	52.31	101	75-125	
Selenium	ND	25.00	25.76	103	75-125	

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Date Received: 09/13/14
Work Order: 14-09-1089
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
7F-h	**Sample**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:42**	**140920S07**
7F-h	**PDS**	**Solid**	**ICP/MS 04**	**09/20/14 00:00**	**09/22/14 12:14**	**140920S07**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.391	25.00	33.77	106	75-125	
Cadmium	ND	25.00	27.87	111	75-125	
Lead	27.28	25.00	52.33	100	75-125	
Selenium	ND	25.00	27.28	109	75-125	

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Quality Control - Sample Duplicate

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812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
5B-h	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 21:45**	**E0917MOID1**
5B-h	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 21:45**	**E0917MOID1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.200	7.000	3	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Austin, TX 78701-2053		Preparation:	N/A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
3E-g	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 18:20**	**E0917MOID5**
3E-g	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 18:20**	**E0917MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	6.700	6.500	3	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Austin, TX 78701-2053		Preparation:	N/A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
4D-a	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 19:10**	**E0917MOID6**
4D-a	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 19:10**	**E0917MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	8.800	8.800	0	0-10	

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Quality Control - Sample Duplicate

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
4F-e	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 19:50**	**E0917MOID7**
4F-e	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 19:50**	**E0917MOID7**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.300	7.300	0	0-10	

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Quality Control - Sample Duplicate

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Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
4B-i	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 20:20**	**E0917MOID8**
4B-i	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 20:20**	**E0917MOID8**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	8.100	8.000	1	0-10	

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Austin, TX 78701-2053		Preparation:	N/A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
5G-c	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 20:55**	**E0917MOID9**
5G-c	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/17/14 20:55**	**E0917MOID9**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.900	8.200	4	0-10	

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Quality Control - Sample Duplicate

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
6F-c	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:30**	**E0918MOID1**
6F-c	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:30**	**E0918MOID1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.300	7.200	1	0-10	

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Quality Control - Sample Duplicate

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		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
6C-f	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:35**	**E0918MOID2**
6C-f	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:35**	**E0918MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	8.400	8.100	4	0-10	

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Quality Control - Sample Duplicate

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Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
6E-h	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:40**	**E0918MOID3**
6E-h	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:40**	**E0918MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	8.200	8.000	2	0-10	

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		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
7E-a	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:45**	**E0918MOID4**
7E-a	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 10:45**	**E0918MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	6.900	7.100	3	0-10	

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Quality Control - Sample Duplicate

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		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
7D-d	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 11:50**	**E0918MOID5**
7D-d	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 11:50**	**E0918MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	8.000	8.000	0	0-10	

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Quality Control - Sample Duplicate

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Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
7F-h	**Sample**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 12:00**	**E0918MOID6**
7F-h	**Sample Duplicate**	**Solid**	**N/A**	**09/17/14 00:00**	**09/18/14 12:00**	**E0918MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	11.20	11.30	1	0-10	

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 1 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-618	**LCS**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/25/14 13:59**	**140919L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.58	106	80-120	
Cadmium	25.00	25.45	102	80-120	
Lead	25.00	25.79	103	80-120	
Selenium	25.00	25.27	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 2 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-619	**LCS**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:49**	**140919L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	28.24	113	80-120	
Cadmium	25.00	27.21	109	80-120	
Lead	25.00	25.84	103	80-120	
Selenium	25.00	27.30	109	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 3 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-620	**LCS**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:51**	**140919L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	28.04	112	80-120	
Cadmium	25.00	26.33	105	80-120	
Lead	25.00	25.71	103	80-120	
Selenium	25.00	28.45	114	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 4 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-621	**LCS**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:54**	**140919L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.86	111	80-120	
Cadmium	25.00	26.93	108	80-120	
Lead	25.00	26.13	105	80-120	
Selenium	25.00	29.10	116	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 5 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-622	**LCS**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 18:57**	**140919L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	28.83	115	80-120	
Cadmium	25.00	26.76	107	80-120	
Lead	25.00	26.57	106	80-120	
Selenium	25.00	29.10	116	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 6 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-623	**LCS**	**Solid**	**ICP/MS 04**	**09/19/14**	**09/20/14 19:08**	**140919L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.65	111	80-120	
Cadmium	25.00	26.65	107	80-120	
Lead	25.00	26.29	105	80-120	
Selenium	25.00	28.01	112	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 7 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-624	**LCS**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:02**	**140920L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.47	106	80-120	
Cadmium	25.00	26.34	105	80-120	
Lead	25.00	25.59	102	80-120	
Selenium	25.00	27.84	111	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 8 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-625	**LCS**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:04**	**140920L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.63	107	80-120	
Cadmium	25.00	26.43	106	80-120	
Lead	25.00	25.38	102	80-120	
Selenium	25.00	27.49	110	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 9 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-626	**LCS**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:07**	**140920L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.13	105	80-120	
Cadmium	25.00	26.18	105	80-120	
Lead	25.00	25.24	101	80-120	
Selenium	25.00	27.62	110	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 10 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-627	**LCS**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:15**	**140920L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.54	106	80-120	
Cadmium	25.00	26.03	104	80-120	
Lead	25.00	25.44	102	80-120	
Selenium	25.00	27.24	109	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 11 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-628	**LCS**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:17**	**140920L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.63	107	80-120	
Cadmium	25.00	26.27	105	80-120	
Lead	25.00	25.12	100	80-120	
Selenium	25.00	27.19	109	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/13/14
812 West 11th Street		Work Order:	14-09-1089
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 14046.01			Page 12 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-629	**LCS**	**Solid**	**ICP/MS 04**	**09/20/14**	**09/22/14 11:20**	**140920L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.48	106	80-120	
Cadmium	25.00	25.96	104	80-120	
Lead	25.00	25.41	102	80-120	
Selenium	25.00	27.87	111	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-1089 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	689	N/A	1
ASTM D-2216 (M)	N/A	722	N/A	1
ASTM D-2216 (M)	N/A	857	N/A	1
EPA 6020	EPA 3050B	598	ICP/MS 04	1

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Glossary of Terms and Qualifiers

Work Order: 14-09-1089 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CJI Supplemental Chain of Custody Form

14-09-1089 (9/8)

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	VOCs	SVOCs	Pesti-cides	Herbi-cides
1		3E-g	9/8/14	13:47	Soil	1	4° C	X					
2		3E-h		13:52	Soil	1	4° C	X					
3		3E-i		13:56	Soil	1	4° C	X					
4		3F-g		13:59	Soil	1	4° C	X					
5		3F-h		14:02	Soil	1	4° C	X					
6		3F-i		14:05	Soil	1	4° C	X					
7		3G-g		14:11	Soil	1	4° C	X					
8		3G-h		14:17	Soil	1	4° C	X					
9		3G-i		14:20	Soil	1	4° C	X					
10		4G-c		14:25	Soil	1	4° C	X					
11		4G-b		14:30	Soil	1	4° C	X					
12		4G-a		14:34	Soil	1	4° C	X					
13		4F-c		14:38	Soil	1	4° C	X					
14		4F-b		14:42	Soil	1	4° C	X					
15		4F-a		14:46	Soil	1	4° C	X					
16		4E-c		14:49	Soil	1	4° C	X					
17		4E-b		14:56	Soil	1	4° C	X					
18		4E-a		14:59	Soil	1	4° C	X					
19		4D-c		15:02	Soil	1	4° C	X					
20		4D-b		15:06	Soil	1	4° C	X					
21		4D-a		15:09	Soil	1	4° C	X					
22		4C-c		15:13	Soil	1	4° C	X					
23		4C-b		15:17	Soil	1	4° C	X					
24		4C-a		15:23	Soil	1	4° C	X					
25		4B-c		15:27	Soil	1	4° C	X					
26		4B-b		15:32	Soil	1	4° C	X					
27		4B-a		15:38	Soil	1	4° C	X					
28		4B-d		15:59	Soil	1	4° C	X					
29		4B-e		16:03	Soil	1	4° C	X					
30		4B-f		16:07	Soil	1	4° C	X					
31		4C-d		16:11	Soil	1	4° C	X					
32		4C-e		16:16	Soil	1	4° C	X					
33		4C-f		16:18	Soil	1	4° C	X					
34		4D-d		16:21	Soil	1	4° C	X					
35		4D-e		16:26	Soil	1	4° C	X					
36		4D-f	↓	16:30	Soil	1	4° C	X					
37		4E-d		16:35	Soil	1	4° C	X					
38		4E-e	9/8/14	16:40	Soil	1	4° C	X					
39		4E-f	9/9/14	9:11	Soil	1	4° C	X					
40		4F-d		9:23	Soil	1	4° C	X					
41		4F-e		9:30	Soil	1	4° C	X					
42		4F-f		9:36	Soil	1	4° C	X					
43		4G-d		9:41	Soil	1	4° C	X					
44		4G-e	↓	9:46	Soil	1	4° C	X					

9/5/2014

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CJI Supplemental Chain of Custody Form **14-09-1089** (2/8)

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	VOCs	SVOCs	Pesti-cides	Herbi-cides
45		4G-f	9/9/14	9:51	Soil	1	4° C	X					
46		4G-i		9:55	Soil	1	4° C	X					
47		4G-h		10:01	Soil	1	4° C	X					
48		4G-g		10:05	Soil	1	4° C	X					
49		4F-i		10:08	Soil	1	4° C	X					
50		4F-h		10:11	Soil	1	4° C	X					
51		4F-g		10:15	Soil	1	4° C	X					
52		4E-i		10:18	Soil	1	4° C	X					
53		4E-h		10:22	Soil	1	4° C	X					
54		4E-g		10:25	Soil	1	4° C	X					
55		4D-i		10:30	Soil	1	4° C	X					
56		4D-h		10:33	Soil	1	4° C	X					
57		4D-g		10:37	Soil	1	4° C	X					
58		4C-i		10:41	Soil	1	4° C	X					
59		4C-h		10:45	Soil	1	4° C	X					
60		4C-g		10:48	Soil	1	4° C	X					
61		4B-i		10:52	Soil	1	4° C	X					
62		4B-h		10:55	Soil	1	4° C	X					
63		4B-g		10:59	Soil	1	4° C	X					
64		5B-a		11:04	Soil	1	4° C	X					
65		5B-b		11:08	Soil	1	4° C	X					
66		5B-c		11:14	Soil	1	4° C	X					
67		5C-a		11:19	Soil	1	4° C	X					
68		5C-b		11:24	Soil	1	4° C	X					
69		5C-c		11:27	Soil	1	4° C	X					
70		5D-a		11:31	Soil	1	4° C	X					
71		5D-b		11:35	Soil	1	4° C	X					
72		5D-c		11:39	Soil	1	4° C	X					
73		5E-a		11:43	Soil	1	4° C	X					
74		5E-b		11:46	Soil	1	4° C	X					
75		5E-c		11:50	Soil	1	4° C	X					
76		5F-a		11:54	Soil	1	4° C	X					
77		5F-b		11:58	Soil	1	4° C	X					
78		5F-c		12:00	Soil	1	4° C	X					
79		5G-a		12:04	Soil	1	4° C	X					
80		5G-b		12:07	Soil	1	4° C	X					
81		5G-c		12:11	Soil	1	4° C	X					
82		5G-f		13:33	Soil	1	4° C	X					
83		5G-e		13:36	Soil	1	4° C	X					
84		5G-d		13:40	Soil	1	4° C	X					
85		5F-f		13:43	Soil	1	4° C	X					
86		5F-e		13:47	Soil	1	4° C	X					
87		5F-d		13:54	Soil	1	4° C	X					
88		5E-f		13:58	Soil	1	4° C	X					

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CJI Supplemental Chain of Custody Form **14-09-1089** (36)

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	VOCs	SVOCs	Pesti-cides	Herbi-cides
89		5E-e	9/9/14	14:01	Soil	1	4° C	X					
90		5E-d		14:06	Soil	1	4° C	X					
91		5D-f		14:10	Soil	1	4° C	X					
92		5D-e		14:14	Soil	1	4° C	X					
93		5D-d		14:17	Soil	1	4° C	X					
94		5C-f		14:22	Soil	1	4° C	X					
95		5C-e		14:25	Soil	1	4° C	X					
96		5C-d		14:30	Soil	1	4° C	X					
97		5B-f		14:33	Soil	1	4° C	X					
98		5B-e		14:37	Soil	1	4° C	X					
99		5B-d		14:41	Soil	1	4° C	X					
100		5B-g		14:54	Soil	1	4° C	X					
101		5B-h		14:59	Soil	1	4° C	X					
102		5B-i		15:03	Soil	1	4° C	X					
103		5C-g		15:06	Soil	1	4° C	X					
104		5C-h		15:11	Soil	1	4° C	X					
105		5C-i		15:15	Soil	1	4° C	X					
106		5D-g		15:20	Soil	1	4° C	X					
107		5D-h		15:25	Soil	1	4° C	X					
108		5D-i		15:29	Soil	1	4° C	X					
109		5E-g		15:33	Soil	1	4° C	X					
110		5E-h		15:38	Soil	1	4° C	X					
111		5E-i		15:41	Soil	1	4° C	X					
112		5F-g	↓	15:45	Soil	1	4° C	X					
113		5F-h		15:49	Soil	1	4° C	X					
114		5F-i	9/9/14	15:55	Soil	1	4° C	X					
115		5G-g	9/10/14	9:49	Soil	1	4° C	X					
116		5G-h		9:53	Soil	1	4° C	X					
117		5G-i		9:56	Soil	1	4° C	X					
118		6G-c		10:00	Soil	1	4° C	X					
119		6G-b		10:04	Soil	1	4° C	X					
120		6G-a		10:07	Soil	1	4° C	X					
121		6F-c		10:10	Soil	1	4° C	X					
122		6F-b		10:13	Soil	1	4° C	X					
123		6F-a		10:16	Soil	1	4° C	X					
124		6E-c		10:21	Soil	1	4° C	X					
125		6E-b		10:25	Soil	1	4° C	X					
126		6E-a		10:28	Soil	1	4° C	X					
127		6D-c		10:30	Soil	1	4° C	X					
128		6D-b		10:35	Soil	1	4° C	X					
129		6D-a		16:38	Soil	1	4° C	X					
130		6C-c		10:41	Soil	1	4° C	X					
131		6C-b	↓	10:44	Soil	1	4° C	X					
132		6C-a		10:48	Soil	1	4° C	X					

Signature

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CJI Supplemental Chain of Custody Form **14-09-1089** (4/5)

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	VOCs	SVOCs	Pesti-cides	Herbi-cides
133		6B-c	9/10/14	10:52	Soil	1	4° C	X					
134		6B-b		10:55	Soil	1	4° C	X					
135		6B-a		10:58	Soil	1	4° C	X					
136		6B-d		11:09	Soil	1	4° C	X					
137		6B-e		11:14	Soil	1	4° C	X					
138		6B-f		11:18	Soil	1	4° C	X					
139		6C-d		11:21	Soil	1	4° C	X					
140		6C-e		11:23	Soil	1	4° C	X					
141		6C-f		11:26	Soil	1	4° C	X					
142		6D-d		11:29	Soil	1	4° C	X					
143		6D-e		11:32	Soil	1	4° C	X					
144		6D-f		11:35	Soil	1	4° C	X					
145		6E-d		15:47	Soil	1	4° C	X					
146		6E-e		15:50	Soil	1	4° C	X					
147		6E-f		15:53	Soil	1	4° C	X					
148		6F-d		16:00	Soil	1	4° C	X					
149		6F-e		16:12	Soil	1	4° C	X					
150		6F-f		16:17	Soil	1	4° C	X					
151		6G-d		16:20	Soil	1	4° C	X					
152		6G-e		16:28	Soil	1	4° C	X					
153		6G-f		16:32	Soil	1	4° C	X					
154		6G-i		16:44	Soil	1	4° C	X					
155		6G-h		16:48	Soil	1	4° C	X					
156		6G-g		16:59	Soil	1	4° C	X					
157		6F-i		17:03	Soil	1	4° C	X					
158		6F-h		17:07	Soil	1	4° C	X					
159		6F-g		17:17	Soil	1	4° C	X					
160		6E-i		17:21	Soil	1	4° C	X					
161		6E-h		17:25	Soil	1	4° C	X					
162		6E-g		17:29	Soil	1	4° C	X					
163		6D-i		17:33	Soil	1	4° C	X					
164		6D-h		17:36	Soil	1	4° C	X					
165		6D-g		17:40	Soil	1	4° C	X					
166		6C-i		17:43	Soil	1	4° C	X					
167		6C-h		17:47	Soil	1	4° C	X					
168		6C-g		17:53	Soil	1	4° C	X					
169		6B-i		17:57	Soil	1	4° C	X					
170		6B-h	✓	18:00	Soil	1	4° C	X					
171		6B-g		18:04	Soil	1	4° C	X					

Signature

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CJI Supplemental Chain of Custody Form 14-09-1089

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Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
							Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
172	7B-a	9/11/14	10:06	Soil	1	4° C	X					
173	7B-b		10:14	Soil	1	4° C	X					
174	7B-c		10:18	Soil	1	4° C	X					
175	7C-a		10:21	Soil	1	4° C	X					
176	7C-b		10:24	Soil	1	4° C	X					
177	7C-c		10:27	Soil	1	4° C	X					
178	7D-a		10:30	Soil	1	4° C	X					
179	7D-b		10:33	Soil	1	4° C	X					
180	7D-c		10:37	Soil	1	4° C	X					
181	7E-a		10:40	Soil	1	4° C	X					
182	7E-b		10:47	Soil	1	4° C	X					
183	7E-c		10:50	Soil	1	4° C	X					
184	7F-a		10:54	Soil	1	4° C	X					
185	7F-b		11:02	Soil	1	4° C	X					
186	7F-c		11:08	Soil	1	4° C	X					
187	7G-a		11:12	Soil	1	4° C	X					
188	7G-b		11:15	Soil	1	4° C	X					
189	7G-c		11:19	Soil	1	4° C	X					
190	7G-f		11:25	Soil	1	4° C	X					
191	7G-e		11:29	Soil	1	4° C	X					
192	7G-d		11:37	Soil	1	4° C	X					
193	7F-f		11:44	Soil	1	4° C	X					
194	7F-e		11:48	Soil	1	4° C	X					
195	7F-d		11:57	Soil	1	4° C	X					
196	7E-f		12:00	Soil	1	4° C	X					
197	7E-e		12:03	Soil	1	4° C	X					
198	7E-d		12:06	Soil	1	4° C	X					
199	7D-f		12:11	Soil	1	4° C	X					
200	7D-e		12:15	Soil	1	4° C	X					
201	7D-d		12:18	Soil	1	4° C	X					
202	7C-f		12:21	Soil	1	4° C	X					
203	7C-e		12:25	Soil	1	4° C	X					
204	7C-d		12:28	Soil	1	4° C	X					
205	7B-f		12:31	Soil	1	4° C	X					
206	7B-e		12:34	Soil	1	4° C	X					
207	7B-d		12:37	Soil	1	4° C	X					
208	7B-g		13:38	Soil	1	4° C	X					
209	7B-h		13:41	Soil	1	4° C	X					
210	7B-i		13:44	Soil	1	4° C	X					
211	7C-g		13:48	Soil	1	4° C	X					
212	7C-h		13:52	Soil	1	4° C	X					
213	7C-i		13:56	Soil	1	4° C	X					

Signature

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CJI Supplemental Chain of Custody Form

14-09-1089

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Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
							Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
214	7D-g	9/11/14	14:00	Soil	1	4° C	X					
215	7D-h		14:03	Soil	1	4° C	X					
216	7D-i		14:06	Soil	1	4° C	X					
217	7E-g		14:09	Soil	1	4° C	X					
218	7E-h		14:13	Soil	1	4° C	X					
219	7E-i		14:16	Soil	1	4° C	X					
220	7F-g		14:19	Soil	1	4° C	X					
221	7F-h		14:29	Soil	1	4° C	X					
222	7F-i		14:34	Soil	1	4° C	X					
223	S2		14:39	Soil	1	4° C	X					
224	S3		14:44	Soil	1	4° C	X					
225	S4		14:47	Soil	1	4° C	X					
226	8G-c			Soil	1	4° C	X					
227	8G-b			Soil	1	4° C	X					
228	8G-a			Soil	1	4° C	X					
229	8F-c			Soil	1	4° C	X					
230	8F-b			Soil	1	4° C	X	X	X		X	X
231	8F-a			Soil	1	4° C	X					
232	8E-c			Soil	1	4° C	X					
233	8E-b			Soil	1	4° C	X					
234	8E-a			Soil	1	4° C	X					
235	8D-c			Soil	1	4° C	X					
236	8D-b			Soil	1	4° C	X					
237	8D-a			Soil	1	4° C	X					
238	8C-c			Soil	1	4° C	X					
239	8C-b			Soil	1	4° C	X					
240	8C-a			Soil	1	4° C	X					
241	8B-c			Soil	1	4° C	X					
242	8B-b			Soil	1	4° C	X					
	8B-a			Soil	1	4° C	X					
	8A-a			Soil	1	4° C	X					
	8B-d			Soil	1	4° C	X					
	8B-e			Soil	1	4° C	X					
	8B-f			Soil	1	4° C	X					
	8C-d			Soil	1	4° C	X					
	8C-e			Soil	1	4° C	X					
	8C-f			Soil	1	4° C	X					
	8D-d			Soil	1	4° C	X					
	8D-e			Soil	1	4° C	X					
	8D-f			Soil	1	4° C	X					
	8E-d			Soil	1	4° C	X					
	8E-e			Soil	1	4° C	X					

Signature

Total Samples: 238 (13 Dups)

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CHAIN-OF-CUSTODY RECORD

DATE: 9/12/14
PAGE: 1 OF 2

WO NO. / LAB USE ONLY: **14-09-1089** (7/8)

LABORATORY CLIENT: COOK-JOYCE, INC.	CLIENT PROJECT NAME / NO.: GRAND PARK
ADDRESS: 812 West 11th Street	P.O. NO.: 140461.01
CITY: Austin, TX 78701 STATE: ZIP:	PROJECT CONTACT: RICHARD VARNELL
TEL: 512-474-9097 E-MAIL: richard.varnell@cook-joyce.com	LAB CONTACT OR QUOTE NO.:
	GLOBAL ID: LOG CODE: SAMPLER(S): (PRINT) KEVIN ASHLEY

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
TARGET METALS = ARSENIC, CADMIUM, LEAD & SELENIUM

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TARGET METALS			
226	140908 DUP-1	9/8/14	12:00	S	1		4°C																X			
227	140908 DUP-2	9/8/14	12:00		1																					
228	140909 DUP-1	9/9/14	12:00		1																					
229	140909 DUP-2	9/9/14	12:00		1																					
230	140909 DUP-3	9/9/14	12:00		1																					
231	140909 DUP-4	9/9/14	12:00		1																					
232	140909 DUP-5	9/9/14	12:00		1																					
233	140910 DUP-1	9/10/14	12:00		1																					
234	140910 DUP-2	9/10/14	12:00		1																					
235	140910 DUP-3	9/10/14	12:00		1																					

Relinquished by: (Signature) Kevin Ashley	Received by: (Signature/Affiliation)	Date: 9/12/14	Time: 11:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) ECI	Date: 9/13/14	Time: 1247
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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CHAIN-OF-CUSTODY RECORD

WO NO.: / LAB USE ONLY: **14-09-1089** (9/8)

DATE: 9/12/14
PAGE: 2 OF 2

LABORATORY CLIENT: COOK-JOYCE, INC.	CLIENT PROJECT NAME / NO.: GRAND PARK
ADDRESS: 812 West 11th Street	P.O. NO.: 14046.01
CITY: Austin, TX 78701 STATE: ZIP:	PROJECT CONTACT: RICHARD VARNELL
TEL: 512-474-9097 E-MAIL: richard.varnell@cook-joyce.com	LAB CONTACT OR QUOTE NO.:
GLOBAL ID:	LOG CODE:
	SAMPLER(S): (PRINT) KEVIN ASHLEY

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
TARGET METALS = ARSENIC, CADMIUM, LEAD & SELENIUM

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TARGET METALS			
236	140911 DUP-1	9/11/14		S	1		4°C																X			
237	140911 DUP-2	9/11/14		↓	1		↓																↓			
238	140911 DUP-3	9/11/14		↓	1		↓																↓			

Relinquished by: (Signature) Kevin Ashley	Received by: (Signature/Affiliation)	Date: 9/12/14	Time: 11:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) ECL	Date: 9/13/14	Time: 1247
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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TRK# 0215 8062 6417 8202
MASTER
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

FedEx 3 of 8
MPS# 0681 7801 4150 0882
Mstr# 8062 6417 8202
0215
XO APVA
SATURDAY 12:00
PRIORITY OVERNIGH
DSR
92841
CA-US SNA

5 of 8
MPS# 0681 7801 4150 0908
Mstr# 8062 6417 8202
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

6 of 8
MPS# 0681 7801 4150 0919
Mstr# 8062 6417 8202
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

4 of 8
MPS# 0681 7801 4150 0893
Mstr# 8062 6417 8202
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

7 of 8
MPS# 0681 7801 4150 0920
Mstr# 8062 6417 8202
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

FedEx Express

2 of 8
MPS# 0681 7801 4150 08..
Mstr# 8062 6417 8202
XO APVA
12:00P
OVERNIGHT
DSR
92841
CA-US SNA

8 of 8
MPS# 0681 7801 4150 0930
Mstr# 8062 6417 8202
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
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WORK ORDER #: 14-09-1089

SAMPLE RECEIPT FORM

Cooler 1 of 8

CLIENT: Cook-Joyce

DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 5.6 °C - 0.3 °C (CF) = 5.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB

☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 300

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WORK ORDER #: 14-09-[1][0][8][9]

SAMPLE RECEIPT FORM

Cooler 2 of 8

CLIENT: Cook-Joyce DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 5.0 °C - 0.3 °C (CF) = 4.7 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☒ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☒4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** _____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: KM

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 300

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WORK ORDER #: 14-09-1 0 8 9

SAMPLE RECEIPT FORM

Cooler 3 of 8

CLIENT: Cook-Joyce

DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 5.4 °C - 0.3 °C (CF) = 5.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® ☐ TerraCores® ☐ _____

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 1PBna ☐ 500PB ☐ 250PB ☐ 250PBn ☐ 125PB ☐ 125PBznna ☐ 100PJ ☐ 100PJna_2 ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar® ☐ Canister **Other:** ☐ _____ **Trip Blank Lot#:** _____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: KM

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 300

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WORK ORDER #: 14-09-1 0 8 9

SAMPLE RECEIPT FORM

Cooler 4 of 8

CLIENT: Cook-Joyce DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 4.9 °C - 0.3 °C (CF) = 4.6 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☒ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☒4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** KK

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 300

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SAMPLE RECEIPT FORM

Cooler 5 of 8

CLIENT: Cook-Joyce DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 5.3 °C - 0.3 °C (CF) = 5.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 300

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SAMPLE RECEIPT FORM

Cooler 6 of 8

CLIENT: Cook-Joyce DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 5.3 °C - 0.3 °C (CF) = 5.0 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☒ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☒4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** _____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 300

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SAMPLE RECEIPT FORM

Cooler 7 of 8

CLIENT: Cook-Joyce DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 5.5 °C - 0.3 °C (CF) = 5.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** _____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [illegible]

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 300

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SAMPLE RECEIPT FORM

Cooler 8 of 8

CLIENT: Cook-Joyce DATE: 09/13/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 4.8 °C - 0.3 °C (CF) = 4.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 681

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 681

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 300

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Calscience TRRP Data Package
Signature Page

Work Order #: **14-09-1089_s1**

Project Name/Number: **Grand Park / 14046.01**

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  b) Dilution factors,
  c) Preparation methods,
  d) Cleanup methods, and
  e) If required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate control limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  d) The laboratory's LCS QC limits.
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits.
- ☒ R8 Laboratory Analytical Duplicates (if applicable) Recovery and Precision, including:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
- ☒ R9 Method Quantitation Limit (MQL) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

Release Statement: "I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the Laboratory Review Checklist and/or Case Narrative provided with the analytical report. I affirm, to the best of my knowledge, that all problems/anomalies observed by this laboratory that might affect the quality of the data have been identified in the Laboratory Review Checklist and/or Case Narrative, and that no information or data has been knowingly withheld that would affect the quality of the data."

Don Burley		**09/29/14**
Name	Signature	Date

Project Manager
Title

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Laboratory Review Checklist
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Laboratory Name: Eurofins Calscience, Inc.	LRC Date: 09/29/14
Project Name: Grand Park / 14046.01	Laboratory Work Order Number: 14-09-1089_s1
Reviewer Name: Don Burley	Prep Batch Number(s): 140919L05, 140919L06, 140919L07, 140919L08, 140919L09, 140919L10, 140920L02, 140920L03, 140920L04, 140920L05, 140920L06, 140920L07; E0917MOIB5, E0917MOIB6, E0917MOIB7, E0917MOIB8, E0917MOIB9, E0917MOIB10, E0918MOIB1, E0918MOIB2, E0918MOIB3, E0918MOIB4, E0918MOIB5, E0918MOIB6

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	**OI**	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report or case narrative?	X				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding time?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were %moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					

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Laboratory Review Checklist
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		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were associated MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC, ER, or case narrative?	X				
		2) Were all necessary corrective actions performed for the reported data?			X		
		3) If requested, is the justification for elevated SDLs documented?			X		

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Laboratory Review Checklist
ortable Data / Supporting Data / Exception Reports

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ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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Laboratory Review Checklist
ortable Data / Supporting Data / Exception Reports

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#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV and CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analytes within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12)**					
		1) Were the raw data (e.g. chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?	X				

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Laboratory Review Checklist
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S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITION**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**PROFICIENCY TEST REPORTS**					
		1) Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCS?			X		
S12	**OI**	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

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Laboratory Review Checklist
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ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

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DATA USABILITY SUMMARY

GRAND PARK SITE – LAB REPORT 14-09-1641

JANUARY 2015

Prepared for:

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas

Prepared by:

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ATTACHMENT	
A	CALSCIENCE NELAC/TLAP ACCREDITATION
B	DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

1.0 INTRODUCTION

Cook-Joyce, Inc. (CJI) reviewed one analytical data package for samples of environmental media collected at the Grand Park Site in Frisco, Texas. Work at the site was done on behalf of the City of Frisco, which owns the property being evaluated for potential impacts. CJI collected the subject samples in September 2014. All analyses were performed in accordance with the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) and meet Texas Risk Reduction Program (TRRP) requirements. This Data Usability Summary (DUS) was prepared to document the usability of the data in supporting site closure under TRRP.

The Texas Commission on Environmental Quality (TCEQ) document, *Review and Reporting of COC Concentration Data (RG-366/TRRP-13)*, describes the procedures for reviewing and reporting data to ensure they are of sufficient and documented quality, as required by 30 §TAC 350.54. These procedures embody the default objectives for levels of quality control, documentation, and data review that apply to all data generated on or after 1 February 2003 for TRRP compliance, unless alternative project objectives are established prior to sample collection. CJI reviewed the data described herein for conformance with TRRP-13 criteria and any project-specific quality objectives. Any derivations from these criteria are discussed in this DUS.

The following laboratory submittals and field data were examined:

- The laboratory reportable data as identified by TRRP-13;
- The laboratory review checklists (LRCs), associated exception reports and supporting data;
- The laboratory electronic data deliverable (EDD); and
- The field notes from the sampling events.

Samples were analyzed by Calscience, and results were provided to CJI on 30 September 2014 in analytical package 14-09-1641. At the time of data analysis, Calscience was NELAC accredited under the TCEQ's Texas Laboratory Accreditation Program (TLAP) for subject matrices, methods, and analytical parameters, except as may be qualified in this DUS. A copy of Calscience's TLAP certification that is coincident with the sample analyses addressed in this DUS is provided as Attachment A to this Data Usability Summary (DUS).

2.0 INTENDED USE OF DATA

The Grand Park site (the Site) is comprised of recently cultivated farmland, unused pasture, and surface water bodies (Stewart Creek and its tributaries). Grand Park is enrolled in the Voluntary Cleanup Program (VCP) as site number 2592 to evaluate and remediate impacts to the Site from a neighboring and upstream property known as the former Exide Battery Recycling Facility. Impacts that may have resulted from the historical uses of the Site are also being evaluated.

As documented in Section 1 of this DUS and in Table 1, CJI collected 256 discrete soil samples and 16 field duplicates of those samples across portions of the Grand Park Site in September 2014. The following analyses were requested for chemicals of concern (COCs):

- ASTM D-2216 (M) – Moisture content of a solid.
- EPA 6020 – Inductively coupled plasma-mass spectrometry of a solid.
- EPA 8081A – Organochlorine pesticides by gas chromatography.
- EPA 8151A – Chlorinated herbicides by gas chromatography.
- EPA 8260B – Volatile organic compounds by gas chromatography -mass spectrometry (benzene, toluene, ethylbenzene, and xylenes [BTEX] only).
- TX 1005 – Total petroleum hydrocarbons.

Specific metals analyzed under EPA 6020 included arsenic, cadmium, lead, and selenium. Select samples were also analyzed for pesticides, herbicides, BTEX, and/or TPH. All of these analytes and methods are recognized fields of accreditation for solid and chemical materials under TCEQ's NELAC certification of Calscience.

2.1 DATA REVIEWED

Table 1 summarizes the sample analyses that were reviewed for this DUS and provides the field identification number of each sample, cross referenced to the laboratory identification number, sample collection date, sample type, analysis performed, and quality control batch numbers. The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and, when provided, case narratives, all of which were included in this review. The LRCs, associated ERs, and analytical reports received from the laboratory are provided in Attachment B to this DUS.

Field data were reviewed to verify that appropriate procedures were used during collection of samples. All reportable data to be provided by the analytical laboratory, as identified in TRRP-13, were reviewed for completeness and conformance with quantitative QC criteria, where applicable, including preservation/holding times, instrument calibrations, blank recovery, internal standard and surrogate recoveries, laboratory control sample (LCS) results and reproducibilities, matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities, and field duplicate precision.

2.2 PROJECT OBJECTIVES

The overall project objective is to achieve closure of the Grand Park Site through the TCEQ. This DUS evaluates the quality of analytical data provided in the laboratory package identified in Section 1.0 and Table 1. These data represent a discrete portion of the Site and will be used to identify and delineate any environmental impacts in this portion of the Site.

Data review was conducted to identify any potential impacts on sample analytical results as a result of field and/or analytical laboratory activities and ensure that the data are suitable for its use in accordance with TRRP. Quantitative review criteria for each QC parameter were based on laboratory procedure and analytical method requirements and/or TRRP-13 guidance, and these criteria are documented in the summary tables included herein and in the QC summary report section of the analytical data report(s) in Appendix B. No project-specific review criteria were necessary or developed for this project.

3.0 DATA REVIEW RESULTS

3.1 GENERAL DATA PACKAGE REVIEW

Laboratory reports were evaluated for consistency of sample identification labels and laboratory analysis as listed on the COC. In addition, they were reviewed against the TRRP-13 requirements. The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDDs contain all sample results in an acceptable format. The hardcopy laboratory reports and the EDDs include a result, method detection limit (MDL), adjusted method quantitation limit (MQL), which is also referred to as the sample quantitation limit (SQL)[1], and the sample-specific detection limit (SDL)[2] for each analysis. The SDL is that value below which the COC cannot be reliably detected.

In accordance with TRRP requirements, a laboratory defines "non-detect" results as less than the value of the SDL.[3] "Estimated" results are typically "J" qualified by the laboratory; results are estimated rather than quantified when a compound is determined to be present at a concentration less than the SQL, but greater than the SDL.

3.1.1 Appropriate Reporting

Soil results are reported on a dry weight basis. Metals and TPH results are reported in milligrams per kilogram (mg/Kg). Herbicides, pesticides, and BTEX are reported in micrograms per kilograms (µg/Kg). Non-detects are reported using the SDL as specified in TRRP, and detects between the SDL and the SQL are reported as estimated concentrations with a laboratory J-flag.

None of the samples required dilution due to the high concentration of an analyte or matrix interferences. There were no elevated reporting limits for "non-detects".

---

[1] The SQL represents the MQL adjusted for moisture and sample size. The MQL is defined in §350.4(54) as "The lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory."

[2] The SDL is defined as the MDL adjusted to reflect sample-specific factors such as sample characteristics, sample preparation, and analytical adjustments. The MDL is "the minimum concentration of a COC the laboratory would measure and report with 99% confidence that the analyte concentration is greater than zero and is determined for each COC in a reagent matrix."

[3] Certain laboratories may assign a "U" qualifier to non-detect results. For clarity, CJI does not include laboratory assigned "U" qualifiers in our data tables. Instead, "U" qualified data are represented as "<" the SDL.

3.1.2 Chain-of-Custody Procedures

Proper sample custody procedures confirm that the integrity of the samples was maintained. Each cooler containing samples addressed in this report was shipped to Calscience following these procedures. All samples were labeled correctly, and the appropriate analytical tests were performed by the laboratory.

3.1.3 Holding Times and Preservation

Samples were collected and placed into laboratory supplied containers. After collection in laboratory supplied containers, all samples were immediately placed in an ice-filled cooler and maintained on ice until their receipt by the analytical laboratory. The laboratory measured the temperature blank in each cooler upon its receipt; none of the data were qualified based on receiving temperature. CJI also compared the date of sample collection to the date of sample analysis to identify any samples that did not meet sample holding requirements. Based on our review, all samples reviewed for this DUS were analyzed within their appropriate holding times. Preservation and hold time requirements are provided in Table 2.

3.1.4 Blanks

Field and trip blanks were not collected or analyzed during sampling activities associated with this DUS. Samples were collected using single-use, disposable hand trowels, therefore, equipment blanks were not warranted.

3.1.5 Quality Control Sample Spikes

TRRP-13 requires that the laboratory's quality control samples, such as laboratory control samples (LCSs), laboratory control sample duplicates (LCSDs), matrix spikes (MSs), and matrix spike duplicates (MSDs), be spiked with all of the analytes reported by the laboratory. An exception to this rule is when an analyte is comprised of multiple compounds. Polychlorinated biphenyls (PCBs) are an example for this type of analyte.

Based on CJI's review, the quality control samples for total metals, herbicides, TPH, and BTEX analyses were spiked with all of the analytes reported by the laboratory. However, the LCSs for pesticide analyses were not. Nineteen (19) analytes were reported for method 8081A; only 17 of

those analytes appear as spikes in the LCSs. The 2 analytes that were not spiked are chlordane and toxaphene.

Chlordane and toxaphene are “multi-peak” compounds similar to PCBs. Both are comprised of hundreds of constituents. When analyzing for these types of compounds, TRRP-13 states that, “the LCS must be spiked with standards that represent the range and characteristics of the COCs for the project.” CJI has concluded that the other pesticide spikes meet this criterion.

3.2 ANALYTICAL RESULTS

Laboratory analyses are divided into QC batches, in which samples are prepared for analysis (e.g. extractions). Each QC batch includes appropriate QC samples required for analysis – such as matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples (LCS). This information was provided by the laboratory in the analytical packages. Each sample ID and analysis performed is listed with its associated QC batch in Table 1 of this DUS.

Each qualified analyte and sample qualification rationale is listed in Table 3 of this DUS. Further details on data qualifications are discussed in the following subsections.

3.2.1 Calibrations

According to the LRCs, initial and continuing calibration data met method requirements in all cases. No data were qualified due to initial or continuing calibration issues.

3.2.2 Lab Blanks

Laboratory QC results and provided LRCs were reviewed to identify any COC concentrations exceeding the MDL in required method blanks. There were no samples in which detection of blank constituents resulted in sample qualification.

3.2.3 Surrogate Recoveries

When applicable, surrogate recovery data are used to evaluate potential bias in the analytical results for each sample that could have been introduced by the preparatory procedures and/or the analysis. Surrogates are typically used in organic analyses and were not used for the metal analyses evaluated in this DUS. Each sample, standard, and method blank was spiked with the

appropriate surrogates. According to the LRCs and based on the data provided in the reports and EDDs, all surrogate recoveries were within surrogate recovery control limits (between 60 and 140% per TRRP-13). Table 4 lists any data qualifications based on surrogate recoveries.

3.2.4 Laboratory Control Samples/Laboratory Control Sample Duplicates

Laboratory Control Samples (LCSs) are generated to evaluate the accuracy of the analytical method and the laboratory's performance. Laboratory Control Sample Duplicates (LCSDs) may also be analyzed to evaluate the laboratory's precision.

If LCS recoveries are above specifications, then results generally are estimated high (JH). If recoveries are below specifications, then results generally are qualified as estimated low (JL). If recoveries are below 30% for metals or 10% for organics, then results are estimated low or rejected (R).

All of the analytes reported by the laboratory were spiked in the LCSs (with the exception of the two pesticides chlordane and toxaphene). According to the LRCs and based on the data provided in the reports and EDDs, the recoveries of all of the spiked compounds were within the recovery control limits developed by the laboratory. In addition to the comparison to the laboratory specified control limits, CJI also compared the data to TRRP-13 review standards (a standardized control limit of 70-130% for metals and 60-140% for organics). No data was qualified due to LCS percent recoveries when compared to TRRP-13 control limits. Table 5 lists any data qualifications based on LCS recoveries.

An LCSD sample was not analyzed by Calscience for this report, therefore, there was no data qualification based on LCS/LCSD relative percent differences.

3.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix Spike/Matrix Spike Duplicates (MS/MSDs) were used to evaluate the impact of the sample matrix on analytical recoveries. MS/MSD recoveries were used to assist in sample qualification in connection with other data quality indicators. In general, sample results were not qualified on MS/MSD recovery data alone. LCS recoveries were also checked, and these were used to support MS/MSD data qualification. In cases where no other precision data could be evaluated

(i.e. the absence of field duplicate samples), the data was qualified based on MS/MSD reproducibilities alone.

MS/MSD recoveries were compared to both laboratory control limits and TRRP-13 review criteria for metals (70% - 130%, but not less than 30%) and for organics (60% - 140%, but not less than 10%). MS/MSD relative percent differences were also compared to both laboratory control limits and TRRP-13 review criteria (acceptable within 30% for metals and 40% for organics).

MS/MSD Spike Accuracy

MS/MSD recoveries were typically reported within acceptance criteria in the data packages reviewed for this DUS. Table 6A lists any data qualifications based on MS/MSD recoveries. MS/MSD recoveries outside control limits and the reasoning behind data qualification or non-qualification based on these recoveries are discussed below.

- The recovery of dinoseb was below the review control limits in one of the MS/MSD samples reviewed for this DUS. The dinoseb recoveries were only slightly below control limits in the MS/MSD from QC Batch 140922S08 from data package 14-09-1641. The sample used for the MS/MSD was 10F-c. However, dinoseb recoveries were within control limits for the associated LCS sample, therefore, dinoseb is not qualified based on MS/MSD recoveries.
- MS/MSD recoveries were acceptable for all other analyses.

MS/MSD Spike Precision

MS/MSD reproducibilities were reported within acceptance criteria in the data packages reviewed for this DUS. MS/MSD relative percent differences (RPDs) were compared to both laboratory control limits and TRRP-13 review criteria. There were no sample qualifications based on MS/MSD reproducibilities. Table 6B lists any data qualifications based on MS/MSD RPDs.

3.2.6 Post Digestion Spikes

Post digestion spikes (PDSs) were performed for metals analyses in each data package. All PDS recoveries were within laboratory (75%-125%) and TRRP-13 (70%-130%) control limits.

3.2.7 Detectability Check Sample

A detectability check sample (DCS) is a reagent matrix spiked by the laboratory with analytes near, or within two or three times, the calculated MDL and carried through the sample preparation procedures for the analysis. DCSs are used to test the lab's ability to detect analytes concentrations near the MQL. DCSs were not performed for the subject data. Calscience's MDLs are adjusted and supported by the analysis of annual MDL/RL verifications per NELAC requirements. Some of the MDLs (including those for the EPA 6020 Metals) are also supported by quarterly LOD/LOQ verifications per Department of Defense requirements.

3.2.8 Laboratory Duplicates

Duplicate analysis for moisture content was performed on 14 samples analyzed for this project. The RPD for the result of the duplicate analysis when compared with the original met the laboratory's control limits of 0-10%. No data are qualified based on laboratory duplicate data.

3.2.9 Adequacy of MQLs and SDLs

MQLs and, where applicable, SDLs were compared to the constituent specific, critical protective concentration limits (PCLs) for a residential site with an affected property that is between 0.5 and 30 acres in size (or the background values, if greater than the critical PCLs) to evaluate whether the laboratory was able to achieve sufficiently low limits. The critical PCLs/background values comprise the assessment targets and represent the Levels of Required Performance (LORPs).

These comparisons were primarily made because sample specific interferences or elevated COC concentrations may affect the laboratory's ability to detect or quantify a COC below the LORP. In addition, concentrations of certain chemical parameters in environmental media cannot be quantified using currently-available analytical technologies.

All MQLs in the data packages addressed herein were below their respective LORPs for the requested analytes, with the exception of two herbicides (MCPA and MCPP). Neither MCPA nor MCPP was detected in the analyzed samples.

3.2.10 Field Precision

Field duplicate precision was reviewed in sample sets where they were obtained. Field duplicate samples were collected at the locations listed below. Analytical results of the original sample and the duplicate sample are compared in Tables 7A and 7B.

- 8B-c / 140915DUP-1
- 8C-c / 140915DUP-2
- 8D-d / 140915DUP-3
- 8B-g / 140916DUP-1
- 9C-b / 140916DUP-2
- 9E-f / 140916DUP-3
- 9C-g / 140916DUP-4
- 10B-f / 140916DUP-5
- 10A-c / 140917DUP-1
- 11B-a / 140917DUP-2
- 11B-g / 140917DUP-3
- 12E-c / 140917DUP-4
- 10F-c / 140918DUP-1
- 12B-e / 140918DUP-2
- 13A-b / 140918DUP-3
- 13C-e / 140918DUP-4

Reproducibility is calculated by dividing the difference of the two duplicate analytical results (R1 – R2) by the average of the two results, then multiplying by 100 to obtain a percentage, as shown in the equation below. The acceptable range of reproducibility for metal analyses is 0 to 50% and for organic analyses is 0 to 40%.

$$\text{Reproducibility} = \frac{[R1 - R2]}{\left[(R1 + R2)/2\right]} \times 100$$

A comparison of the reproducibilities for the sample/duplicate sets described above is provided in Tables 7A and 7B. Based on the comparisons provided in these tables, all of the reproducibilities for sample / field duplicate pairs are acceptable except as noted below.

The RPDs for arsenic and lead between samples 10F-c and 140918DUP-1 were outside of the acceptable range. Based on this, arsenic and lead has been flagged with a J for sample 10F-c.

3.3 FIELD PROCEDURES/RECORDS

Samples were collected according to CJI's standard operating procedures (SOPs). Field notes documenting sample collection activities were also reviewed. No data qualification was required based on field procedures or field records.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In general, the data quality was good. Critical samples collected for comparison to risk based PCLs to identify any exceedances or trends were usable and no data gaps were identified. Any specific data quality issues are identified in the text of this document.

To address the issues identified during data review recommendations for future monitoring at this site include:

- MS/MSDs should continue to be analyzed on samples from this Site so that matrix effects can be evaluated.
- In general, analytical results from all reviewed samples are usable for their intended purpose, and sampling should continue as conducted.

Kevin Lonseth		1/29/2015
Data Reviewer	Signature	Date

TABLES

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/15/2014	140915DUP-1	14-09-1641	257	Soil	FD	X	140926L07									X	E0924MOIB6
9/15/2014	140915DUP-2	14-09-1641	258	Soil	FD	X	140926L07									X	E0924MOIB6
9/15/2014	140915DUP-3	14-09-1641	259	Soil	FD	X	140926L07									X	E0924MOIB6
9/16/2014	140916DUP-1	14-09-1641	260	Soil	FD	X	140926L07									X	E0924MOIB6
9/16/2014	140916DUP-2	14-09-1641	261	Soil	FD	X	140926L08									X	E0923MOIB7
9/16/2014	140916DUP-3	14-09-1641	262	Soil	FD	X	140926L08									X	E0923MOIB7
9/16/2014	140916DUP-4	14-09-1641	263	Soil	FD	X	140926L08									X	E0923MOIB7
9/16/2014	140916DUP-5	14-09-1641	264	Soil	FD	X	140926L08									X	E0923MOIB7
9/17/2014	140917DUP-1	14-09-1641	265	Soil	FD	X	140926L08									X	E0923MOIB7
9/18/2014	140918DUP-1	14-09-1641	269	Soil	FD	X	140926L08	X	140923B11	X	140924L026	X	140923L01	X	140922L08	X	E0923MOIB7
9/17/2014	140917DUP-2	14-09-1641	266	Soil	FD	X	140926L08									X	E0923MOIB7
9/18/2014	140918DUP-2	14-09-1641	270	Soil	FD	X	140926L08									X	E0923MOIB7
9/17/2014	140917DUP-3	14-09-1641	267	Soil	FD	X	140926L08									X	E0923MOIB7
9/18/2014	140918DUP-3	14-09-1641	271	Soil	FD	X	140926L08									X	E0923MOIB7
9/17/2014	140917DUP-4	14-09-1641	268	Soil	FD	X	140926L08									X	E0923MOIB7
9/18/2014	140918DUP-4	14-09-1641	272	Soil	FD	X	140926L08									X	E0923MOIB7
9/16/2014	10A-a	14-09-1641	109	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10A-b	14-09-1641	110	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/17/2014	10A-c	14-09-1641	140	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/16/2014	10B-a	14-09-1641	108	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10B-b	14-09-1641	107	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10B-c	14-09-1641	106	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10B-d	14-09-1641	111	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10B-e	14-09-1641	112	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10B-f	14-09-1641	113	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/17/2014	10B-g	14-09-1641	139	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10B-h	14-09-1641	138	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10B-i	14-09-1641	137	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/16/2014	10C-a	14-09-1641	105	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10C-b	14-09-1641	104	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10C-c	14-09-1641	103	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10C-d	14-09-1641	114	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10C-e	14-09-1641	115	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10C-f	14-09-1641	116	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/17/2014	10C-g	14-09-1641	136	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10C-h	14-09-1641	135	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10C-i	14-09-1641	134	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/16/2014	10D-a	14-09-1641	102	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10D-b	14-09-1641	101	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10D-c	14-09-1641	100	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	10D-d	14-09-1641	117	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10D-e	14-09-1641	118	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10D-f	14-09-1641	119	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/17/2014	10D-g	14-09-1641	133	Soil	Inv.	X	140926L01									X	E0923MOIB4

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/17/2014	10D-h	14-09-1641	132	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10D-i	14-09-1641	131	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/16/2014	10E-a	14-09-1641	99	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	10E-b	14-09-1641	98	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/18/2014	10E-c	14-09-1641	97	Soil	Inv.	X	140925L05	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0923MOIB2
9/16/2014	10E-d	14-09-1641	120	Soil	Inv.	X	140925L06									X	E0923MOIB3
9/16/2014	10E-e	14-09-1641	121	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/18/2014	10E-f	14-09-1641	122	Soil	Inv.	X	140926L01	X	140923B11	X	140924L026	X	140923L01	X	140922L08	X	E0923MOIB4
9/17/2014	10E-g	14-09-1641	130	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10E-h	14-09-1641	129	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10E-i	14-09-1641	128	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/18/2014	10F-a	14-09-1641	96	Soil	Inv.	X	140925L05	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0923MOIB2
9/18/2014	10F-b	14-09-1641	95	Soil	Inv.	X	140925L05	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0923MOIB2
9/18/2014	10F-c	14-09-1641	94	Soil	Inv.	X	140925L05	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0923MOIB2
9/18/2014	10F-d	14-09-1641	123	Soil	Inv.	X	140926L01	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0923MOIB4
9/18/2014	10F-e	14-09-1641	124	Soil	Inv.	X	140926L01	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0923MOIB4
9/18/2014	10F-f	14-09-1641	125	Soil	Inv.	X	140926L01	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0923MOIB4
9/17/2014	10F-g	14-09-1641	127	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	10F-h	14-09-1641	126	Soil	Inv.	X	140926L01									X	E0923MOIB4
9/17/2014	11A-a	14-09-1641	141	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11A-b	14-09-1641	168	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11A-c	14-09-1641	169	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11B-a	14-09-1641	142	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11B-b	14-09-1641	143	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11B-c	14-09-1641	144	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11B-d	14-09-1641	167	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11B-e	14-09-1641	166	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11B-f	14-09-1641	165	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11B-g	14-09-1641	170	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11B-h	14-09-1641	171	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11B-i	14-09-1641	172	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11C-a	14-09-1641	145	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11C-b	14-09-1641	146	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11C-c	14-09-1641	147	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11C-d	14-09-1641	164	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11C-e	14-09-1641	163	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11C-f	14-09-1641	162	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11C-g	14-09-1641	173	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11C-h	14-09-1641	174	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11C-i	14-09-1641	175	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11D-a	14-09-1641	148	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11D-b	14-09-1641	149	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11D-c	14-09-1641	150	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11D-d	14-09-1641	161	Soil	Inv.	X	140926L03									X	E0923MOIB6

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GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/17/2014	11D-e	14-09-1641	160	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11D-f	14-09-1641	159	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11D-g	14-09-1641	176	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11D-h	14-09-1641	177	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11D-i	14-09-1641	178	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11E-a	14-09-1641	151	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11E-b	14-09-1641	152	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11E-c	14-09-1641	153	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11E-d	14-09-1641	158	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11E-e	14-09-1641	157	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11E-f	14-09-1641	156	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11E-g	14-09-1641	179	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11E-h	14-09-1641	180	Soil	Inv.	X	140926L03									X	E0923MOIB6
9/17/2014	11E-i	14-09-1641	181	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	11F-a	14-09-1641	154	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11F-b	14-09-1641	155	Soil	Inv.	X	140926L02									X	E0923MOIB5
9/17/2014	11F-c	14-09-1641	182	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12A-a	14-09-1641	196	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/18/2014	12A-b	14-09-1641	211	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12A-c	14-09-1641	212	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/17/2014	12B-a	14-09-1641	195	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12B-b	14-09-1641	194	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12B-c	14-09-1641	193	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/18/2014	12B-d	14-09-1641	210	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12B-e	14-09-1641	209	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12B-f	14-09-1641	208	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12B-g	14-09-1641	213	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12B-h	14-09-1641	214	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12B-i	14-09-1641	215	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/17/2014	12C-a	14-09-1641	192	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12C-b	14-09-1641	191	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12C-c	14-09-1641	190	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/18/2014	12C-d	14-09-1641	207	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12C-e	14-09-1641	206	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12C-f	14-09-1641	205	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12C-g	14-09-1641	216	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12C-h	14-09-1641	217	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12C-i	14-09-1641	218	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/17/2014	12D-a	14-09-1641	189	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12D-b	14-09-1641	188	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12D-c	14-09-1641	187	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/18/2014	12D-d	14-09-1641	204	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12D-e	14-09-1641	203	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12D-f	14-09-1641	202	Soil	Inv.	X	140926L05									X	E0924MOIB4

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Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/18/2014	12D-g	14-09-1641	219	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12D-h	14-09-1641	220	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/18/2014	12D-i	14-09-1641	221	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/17/2014	12E-a	14-09-1641	186	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12E-b	14-09-1641	185	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12E-c	14-09-1641	184	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/18/2014	12E-d	14-09-1641	201	Soil	Inv.	X	140926L05									X	E0924MOIB4
9/17/2014	12E-e	14-09-1641	200	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12E-f	14-09-1641	199	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/18/2014	12E-g	14-09-1641	222	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	12E-h	14-09-1641	223	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	12E-i	14-09-1641	224	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/17/2014	12F-a	14-09-1641	183	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12F-b	14-09-1641	198	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/17/2014	12F-c	14-09-1641	197	Soil	Inv.	X	140926L04									X	E0924MOIB3
9/18/2014	12F-d	14-09-1641	225	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	12F-e	14-09-1641	226	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13A-a	14-09-1641	241	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13A-b	14-09-1641	242	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13B-a	14-09-1641	240	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13B-b	14-09-1641	239	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13B-c	14-09-1641	238	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13B-d	14-09-1641	243	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13B-e	14-09-1641	244	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13B-f	14-09-1641	245	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13C-a	14-09-1641	237	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13C-b	14-09-1641	236	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13C-c	14-09-1641	235	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13C-d	14-09-1641	246	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13C-e	14-09-1641	247	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13C-f	14-09-1641	248	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13D-a	14-09-1641	234	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13D-b	14-09-1641	233	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13D-c	14-09-1641	232	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13D-d	14-09-1641	249	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13D-e	14-09-1641	250	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13D-f	14-09-1641	251	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13E-a	14-09-1641	231	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13E-b	14-09-1641	230	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13E-c	14-09-1641	229	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13E-d	14-09-1641	252	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13E-e	14-09-1641	253	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13E-f	14-09-1641	254	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13F-a	14-09-1641	228	Soil	Inv.	X	140926L06									X	E0924MOIB5

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/18/2014	13F-b	14-09-1641	227	Soil	Inv.	X	140926L06									X	E0924MOIB5
9/18/2014	13F-c	14-09-1641	255	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/18/2014	13F-d	14-09-1641	256	Soil	Inv.	X	140926L07									X	E0924MOIB6
9/15/2014	8A-a	14-09-1641	19	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/16/2014	8A-b	14-09-1641	48	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/15/2014	8B-a	14-09-1641	18	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8B-b	14-09-1641	17	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8B-c	14-09-1641	16	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8B-d	14-09-1641	20	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8B-e	14-09-1641	21	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8B-f	14-09-1641	22	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8B-g	14-09-1641	47	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	8B-h	14-09-1641	46	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	8B-i	14-09-1641	45	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/15/2014	8C-a	14-09-1641	15	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8C-b	14-09-1641	14	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8C-c	14-09-1641	13	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8C-d	14-09-1641	23	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8C-e	14-09-1641	24	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8C-f	14-09-1641	25	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8C-g	14-09-1641	44	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	8C-h	14-09-1641	43	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	8C-i	14-09-1641	42	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/15/2014	8D-a	14-09-1641	12	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8D-b	14-09-1641	11	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8D-c	14-09-1641	10	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8D-d	14-09-1641	26	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8D-e	14-09-1641	27	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8D-f	14-09-1641	28	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8D-g	14-09-1641	41	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	8D-h	14-09-1641	40	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8D-i	14-09-1641	39	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8E-a	14-09-1641	9	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8E-b	14-09-1641	8	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8E-c	14-09-1641	7	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8E-d	14-09-1641	29	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8E-e	14-09-1641	30	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8E-f	14-09-1641	31	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8E-g	14-09-1641	38	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8E-h	14-09-1641	37	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8E-i	14-09-1641	36	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8F-a	14-09-1641	6	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/18/2014	8F-b	14-09-1641	5	Soil	Inv.	X	140925L01	X	140923B11	X	140923L021	X	140923L01	X	140922L08	X	E0922MOIB3
9/15/2014	8F-c	14-09-1641	4	Soil	Inv.	X	140925L01									X	E0922MOIB3

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/15/2014	8F-d	14-09-1641	32	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8F-e	14-09-1641	33	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8F-f	14-09-1641	35	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/16/2014	8F-g	14-09-1641	34	Soil	Inv.	X	140925L02									X	E0922MOIB4
9/15/2014	8G-a	14-09-1641	3	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8G-b	14-09-1641	2	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/15/2014	8G-c	14-09-1641	1	Soil	Inv.	X	140925L01									X	E0922MOIB3
9/16/2014	9A-a	14-09-1641	49	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9A-b	14-09-1641	78	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9A-c	14-09-1641	79	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9B-a	14-09-1641	50	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9B-b	14-09-1641	51	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9B-c	14-09-1641	52	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9B-d	14-09-1641	77	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9B-e	14-09-1641	76	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9B-f	14-09-1641	75	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9B-g	14-09-1641	80	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9B-h	14-09-1641	81	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9B-i	14-09-1641	82	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9C-a	14-09-1641	53	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9C-b	14-09-1641	54	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9C-c	14-09-1641	55	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9C-d	14-09-1641	74	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9C-e	14-09-1641	73	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9C-f	14-09-1641	72	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9C-g	14-09-1641	83	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9C-h	14-09-1641	84	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9C-i	14-09-1641	85	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9D-a	14-09-1641	56	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9D-b	14-09-1641	57	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9D-c	14-09-1641	58	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9D-d	14-09-1641	71	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9D-e	14-09-1641	70	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9D-f	14-09-1641	69	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9D-g	14-09-1641	86	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9D-h	14-09-1641	87	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9D-i	14-09-1641	88	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9E-a	14-09-1641	59	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9E-b	14-09-1641	60	Soil	Inv.	X	140925L03									X	E0922MOIB5
9/16/2014	9E-c	14-09-1641	61	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9E-d	14-09-1641	68	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9E-e	14-09-1641	67	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9E-f	14-09-1641	66	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9E-g	14-09-1641	89	Soil	Inv.	X	140925L05									X	E0923MOIB2

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GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/16/2014	9E-h	14-09-1641	90	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9E-i	14-09-1641	91	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9F-a	14-09-1641	62	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9F-b	14-09-1641	63	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9F-c	14-09-1641	65	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9F-d	14-09-1641	64	Soil	Inv.	X	140925L04									X	E0922MOIB6
9/16/2014	9F-e	14-09-1641	92	Soil	Inv.	X	140925L05									X	E0923MOIB2
9/16/2014	9F-f	14-09-1641	93	Soil	Inv.	X	140925L05									X	E0923MOIB2
	Laboratory Control Sample	14-09-1641	634	Soil	LCS	X	140925L01										
	Laboratory Control Sample	14-09-1641	635	Soil	LCS	X	140925L02										
	Laboratory Control Sample	14-09-1641	636	Soil	LCS	X	140925L03										
	Laboratory Control Sample	14-09-1641	637	Soil	LCS	X	140925L04										
	Laboratory Control Sample	14-09-1641	638	Soil	LCS	X	140925L05										
	Laboratory Control Sample	14-09-1641	639	Soil	LCS	X	140925L06										
	Laboratory Control Sample	14-09-1641	640	Soil	LCS	X	140926L01										
	Laboratory Control Sample	14-09-1641	641	Soil	LCS	X	140926L02										
	Laboratory Control Sample	14-09-1641	642	Soil	LCS	X	140926L03										
	Laboratory Control Sample	14-09-1641	643	Soil	LCS	X	140926L04										
	Laboratory Control Sample	14-09-1641	644	Soil	LCS	X	140926L05										
	Laboratory Control Sample	14-09-1641	645	Soil	LCS	X	140926L06										
	Laboratory Control Sample	14-09-1641	646	Soil	LCS	X	140926L07										
	Laboratory Control Sample	14-09-1641	647	Soil	LCS	X	140926L08										
	Laboratory Control Sample	14-09-1641	1807	Soil	LCS							X	140923L01				
	Laboratory Control Sample	14-09-1641	20	Soil	LCS									X	140922L08		
	Laboratory Control Sample	14-09-1641	8900	Soil	LCS					X	140923L021						
	Laboratory Control Sample	14-09-1641	8906	Soil	LCS					X	140924L026						
	Method Blank	14-09-1641	634	Soil	MB	X	140925L01										
	Method Blank	14-09-1641	635	Soil	MB	X	140925L02										
	Method Blank	14-09-1641	636	Soil	MB	X	140925L03										
	Method Blank	14-09-1641	637	Soil	MB	X	140925L04										
	Method Blank	14-09-1641	638	Soil	MB	X	140925L05										
	Method Blank	14-09-1641	639	Soil	MB	X	140925L06										
	Method Blank	14-09-1641	640	Soil	MB	X	140926L01										
	Method Blank	14-09-1641	641	Soil	MB	X	140926L02										
	Method Blank	14-09-1641	642	Soil	MB	X	140926L03										
	Method Blank	14-09-1641	643	Soil	MB	X	140926L04										
	Method Blank	14-09-1641	644	Soil	MB	X	140926L05										
	Method Blank	14-09-1641	645	Soil	MB	X	140926L06										
	Method Blank	14-09-1641	646	Soil	MB	X	140926L07										
	Method Blank	14-09-1641	647	Soil	MB	X	140926L08										
	Method Blank	14-09-1641	4843	Soil	MB											X	E0922MOIB3
	Method Blank	14-09-1641	4844	Soil	MB											X	E0922MOIB4
	Method Blank	14-09-1641	4845	Soil	MB											X	E0922MOIB5
	Method Blank	14-09-1641	4846	Soil	MB											X	E0922MOIB6

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GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
	Method Blank	14-09-1641	4847	Soil	MB											X	E0923MOIB2
	Method Blank	14-09-1641	4849	Soil	MB											X	E0923MOIB3
	Method Blank	14-09-1641	4850	Soil	MB											X	E0923MOIB4
	Method Blank	14-09-1641	4851	Soil	MB											X	E0923MOIB5
	Method Blank	14-09-1641	4852	Soil	MB											X	E0923MOIB6
	Method Blank	14-09-1641	4857	Soil	MB											X	E0923MOIB7
	Method Blank	14-09-1641	4853	Soil	MB											X	E0924MOIB3
	Method Blank	14-09-1641	4854	Soil	MB											X	E0924MOIB4
	Method Blank	14-09-1641	4855	Soil	MB											X	E0924MOIB5
	Method Blank	14-09-1641	4856	Soil	MB											X	E0924MOIB6
	Method Blank	14-09-1641	63	Soil	MB			X	140923B11								
	Method Blank	14-09-1641	1807	Soil	MB							X	140923L01				
	Method Blank	14-09-1641	20	Soil	MB									X	140922L08		
	Method Blank	14-09-1641	8900	Soil	MB					X	140923L021						
	Method Blank	14-09-1641	8906	Soil	MB					X	140924L026						
9/16/2014	10D-b	14-09-1641	101	Soil	MS	X	140925L06										
9/16/2014	10E-e	14-09-1641	121	Soil	MS	X	140926L01										
9/18/2014	10F-c	14-09-1641	94	Soil	MS										140922L08		
9/17/2014	11A-a	14-09-1641	141	Soil	MS	X	140926L02										
9/17/2014	11D-d	14-09-1641	161	Soil	MS	X	140926L03										
9/17/2014	11E-i	14-09-1641	181	Soil	MS	X	140926L04										
9/18/2014	12D-i	14-09-1641	221	Soil	MS	X	140926L06										
9/18/2014	12E-d	14-09-1641	201	Soil	MS	X	140926L05										
9/18/2014	13A-a	14-09-1641	241	Soil	MS	X	140926L07										
9/16/2014	140916DUP-2	14-09-1641	261	Soil	MS	X	140926L08										
9/22/2014	14-09-1713-1	14-09-1641	1	Soil	MS							X	140923L01				
9/22/2014	14-09-1745-11	14-09-1641	11	Soil	MS					X	140923L021						
9/23/2014	14-09-1831-1	14-09-1641	1	Soil	MS					X	140924L026						
9/15/2014	8B-e	14-09-1641	21	Soil	MS	X	140925L02										
9/16/2014	8D-g	14-09-1641	41	Soil	MS	X	140925L03										
9/15/2014	8G-c	14-09-1641	1	Soil	MS	X	140925L01										
9/16/2014	9B-h	14-09-1641	81	Soil	MS	X	140925L05										
9/16/2014	9E-c	14-09-1641	61	Soil	MS	X	140925L04										
9/16/2014	10D-b	14-09-1641	101	Soil	MSD	X	140925L06										
9/16/2014	10E-e	14-09-1641	121	Soil	MSD	X	140926L01										
9/18/2014	10F-c	14-09-1641	94	Soil	MSD										140922L08		
9/17/2014	11A-a	14-09-1641	141	Soil	MSD	X	140926L02										
9/17/2014	11D-d	14-09-1641	161	Soil	MSD	X	140926L03										
9/17/2014	11E-i	14-09-1641	181	Soil	MSD	X	140926L04										
9/18/2014	12D-i	14-09-1641	221	Soil	MSD	X	140926L06										
9/18/2014	12E-d	14-09-1641	201	Soil	MSD	X	140926L05										
9/18/2014	13A-a	14-09-1641	241	Soil	MSD	X	140926L07										
9/16/2014	140916DUP-2	14-09-1641	261	Soil	MSD	X	140926L08										
9/22/2014	14-09-1713-1	14-09-1641	1	Soil	MSD							X	140923L01				

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GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (EPA 8260B)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
9/22/2014	14-09-1745-11	14-09-1641	11	Soil	MSD					X	140923L021						
9/23/2014	14-09-1831-1	14-09-1641	1	Soil	MSD					X	140924L026						
9/15/2014	8B-e	14-09-1641	21	Soil	MSD	X	140925L02										
9/16/2014	8D-g	14-09-1641	41	Soil	MSD	X	140925L03										
9/15/2014	8G-c	14-09-1641	1	Soil	MSD	X	140925L01										
9/16/2014	9B-h	14-09-1641	81	Soil	MSD	X	140925L05										
9/16/2014	9E-c	14-09-1641	61	Soil	MSD	X	140925L04										
9/16/2014	10D-b	14-09-1641	101	Soil	SDP											X	E0923MOIB3
9/16/2014	10E-e	14-09-1641	121	Soil	SDP											X	E0923MOIB4
9/17/2014	11A-a	14-09-1641	141	Soil	SDP											X	E0923MOIB5
9/17/2014	11D-d	14-09-1641	161	Soil	SDP											X	E0923MOIB6
9/17/2014	11E-i	14-09-1641	181	Soil	SDP											X	E0924MOIB3
9/18/2014	12D-i	14-09-1641	221	Soil	SDP											X	E0924MOIB5
9/18/2014	12E-d	14-09-1641	201	Soil	SDP											X	E0924MOIB4
9/18/2014	13A-a	14-09-1641	241	Soil	SDP											X	E0924MOIB6
9/16/2014	140916DUP-2	14-09-1641	261	Soil	SDP											X	E0923MOIB7
9/15/2014	8B-e	14-09-1641	21	Soil	SDP											X	E0922MOIB4
9/16/2014	8D-g	14-09-1641	41	Soil	SDP											X	E0922MOIB5
9/15/2014	8G-c	14-09-1641	1	Soil	SDP											X	E0922MOIB3
9/16/2014	9B-h	14-09-1641	81	Soil	SDP											X	E0923MOIB2
9/16/2014	9E-c	14-09-1641	61	Soil	SDP											X	E0922MOIB6
Total Number of Analyses Reviewed						328		11		18		14		12		300	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
LCS = Laboratory Control Sample
MB = Method Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
SDP = Sample Duplicate (Laboratory)

TABLE 2
SAMPLE PRESERVATION AND HOLDING TIMES - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Parameters	Analytical Method	Preservation	Required Reporting Limit	Holding Time
Moisture Content	ASTM D-2216	Cool 4 ± 2°C	NA	10 days for solids
Total metals (arsenic, cadmium, lead, and selenium)	EPA 6020	Cool 4 ± 2°C[1] Water: Acidify w/ HNO_3 to pH < 2	TRRP Reporting	180 days
Herbicides	EPA 8151A	Cool 4 ± 2°C	TRRP Reporting	7 days for aqueous; 14 days for solids
Pesticides	EPA 8081A	Cool 4 ± 2°C	TRRP Reporting	7 days for aqueous; 14 days for solids
BTEX	EPA 8260B	Cool 4 ± 2°C	TRRP Reporting	14 days for solids
TPH	TX 1005	Cool 4 ± 2°C	TRRP Reporting	14 days for solids

Notes: 1) Although not required by method, the workplan for this project specified that samples submitted for metal analyses would be preserved with ice.

TABLE 3
SUMMARY OF ALL QUALIFIED DATA - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Method	Analyte	QC Batch	Assigned Qualifier	Reason for Qualification
		Work Order	#							
9/18/2014	10F-c	14-09-1641	94	Soil	Inv.	EPA 6020	Arsenic	140925L05	J	Poor Field Duplicate Precision
							Lead	140925L05	J	Poor Field Duplicate Precision

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
QC Batch numbers for laboratory control samples (LCSs) contain an "L", those for matrix spike/matrix spike duplicates (MS/MSDs) contain an "S". Otherwise the numbers are identical.

TABLE 4
SAMPLE RESULTS QUALIFIED BASED ON SURROGATE RECOVERIES - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample	Surrogate Recovery			Qualifier	
	Work Order	#	Type	Surrogate	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on Surrogate Recoveries			NA	NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low

TABLE 5
SAMPLE RESULTS QUALIFIED BASED ON LCS RECOVERIES - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Sample ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery			Qualifier	
	Work Order	#			Analyte	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on LCS Recoveries					NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Colored fill represents QC Batches that appear in several data packages.

TABLE 6A
SAMPLE RESULTS WITH MS/MSD RECOVERIES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery				Review Limits	Qualifier	
	Work Order	#			Analyte	MS %R	MSD %R	Ave %R		Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD Recoveries						NA	NA	NA

Notes: %R = Percent Recovery
Ave %R = Average of matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
R = Data are Rejected
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Light shaded average recoveries are low.
Dark shaded average recoveries are extremely low.

TABLE 6B
MS/MSD RELATIVE PERCENT DIFFERENCES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		QC Batch	Analyte	MS	MSD	RPD	Review	Qualifier	
	Work Order	#			%R	%R		Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD RPD's.						NA	NA

Notes: %R = Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
UJL = Estimated Non-Detect, Biased Low

TABLE 7A
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES (METALS) - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	8B-c	140915DUP-1	Absolute Difference	RPD	8C-c	140915DUP-2	Absolute Difference	RPD	8D-d	140915DUP-3	Absolute Difference	RPD
		14-09-1641-16	14-09-1641-257			14-09-1641-13	14-09-1641-258			14-09-1641-26	14-09-1641-259		
		9/15/1914	9/15/2014			9/15/1914	9/15/2014			9/15/1914	9/15/2014		
Arsenic	1	6.45	7.09	0.64	9.45	7.31	8.56	1.25	15.75	7.00	7.98	0.98	13.08
Cadmium	1	0.528	0.518	0.01	1.91	0.597	0.598	0.001	0.17	0.543	0.581	0.04	6.76
Lead	1	23.8	23.0	0.80	3.42	25.1	25.4	0.30	1.19	24.4	24.6	0.20	0.82
Selenium	1	0.783	0.682	0.10	13.79	0.797	0.639	0.16	22.01	0.690	0.647	0.04	6.43

CONSTITUENTS	MQL	8B-g	140916DUP-1	Absolute Difference	RPD	9C-b	140916DUP-2	Absolute Difference	RPD	9E-f	140916DUP-3	Absolute Difference	RPD
		14-09-1641-47	14-09-1641-260			14-09-1641-54	14-09-1641-261			14-09-1641-66	14-09-1641-262		
		9/16/2014	9/16/2014			9/16/2014	9/16/2014			9/16/2014	9/16/2014		
Arsenic	1	7.16	6.37	0.79	11.68	5.46	5.59	0.13	2.35	8.57	8.83	0.26	2.99
Cadmium	1	0.531	0.581	0.05	8.99	0.522	0.551	0.03	5.41	0.714	0.721	0.01	0.98
Lead	1	26.3	26.0	0.30	1.15	23.5	24.7	1.20	4.98	27.9	27.1	0.80	2.91
Selenium	1	0.848	0.735	0.11	14.28	0.691	0.658	0.03	4.89	0.659	0.737	0.08	11.17

CONSTITUENTS	MQL	9C-g	140916DUP-4	Absolute Difference	RPD	10B-f	140916DUP-5	Absolute Difference	RPD
		14-09-1641-83	14-09-1641-263			14-09-1641-113	14-09-1641-264		
		9/16/2014	9/16/2014			9/16/2014	9/16/2014		
Arsenic	1	6.98	7.16	0.18	2.55	5.23	6.40	1.17	20.12
Cadmium	1	0.565	0.545	0.02	3.60	0.533	0.519	0.01	2.66
Lead	1	29.6	28.0	1.60	5.56	24.5	24.2	0.30	1.23
Selenium	1	0.836	0.831	0.01	0.60	0.698	0.641	0.06	8.51

TABLE 7A
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES (METALS) - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	10A-c	140917DUP-1	Absolute Difference	RPD	11B-a	140917DUP-2	Absolute Difference	RPD	11B-g	140917DUP-3	Absolute Difference	RPD
		14-09-1641-140	14-09-1641-265			14-09-1641-142	14-09-1641-266			14-09-1641-170	14-09-1641-267		
		9/17/2014	9/17/2014			9/17/2014	9/17/2014			9/17/2014	9/17/2014		
Arsenic	1	**8.00**	**9.67**	1.67	18.90	6.18	7.85	1.67	23.81	7.79	10.6	2.81	30.56
Cadmium	1	**0.410**	**0.470**	0.06	13.64	0.523	0.577	0.05	9.82	0.586	0.572	0.01	2.42
Lead	1	**13.6**	**13.1**	0.50	3.75	20.4	21.5	1.10	5.25	22.7	23.7	1.00	4.31
Selenium	1	**0.370**	**0.519**	0.15	33.52	0.415	0.564	0.15	30.44	0.689	0.736	0.05	6.60

CONSTITUENTS	MQL	12E-c	140917DUP-4	Absolute Difference	RPD
		14-09-1641-184	14-09-1641-268		
		9/17/2014	9/17/2014		
Arsenic	1	7.16	7.09	0.07	0.98
Cadmium	1	0.600	0.627	0.03	4.40
Lead	1	35.4	36.4	1.00	2.79
Selenium	1	0.992	0.860	0.13	14.25

CONSTITUENTS	MQL	10F-c	140918DUP-1	Absolute Difference	RPD	12B-e	140918DUP-2	Absolute Difference	RPD	13A-b	140918DUP-3	Absolute Difference	RPD
		14-09-1641-94	14-09-1641-269			14-09-1641-209	14-09-1641-270			14-09-1641-242	14-09-1641-271		
		9/18/2014	9/18/2014			9/18/2014	9/18/2014			9/18/2014	9/18/2014		
Arsenic	1	**4.81**	**11.0**	6.19	78.30	9.45	8.34	1.11	12.48	10.4	9.90	0.50	4.93
Cadmium	1	**0.738**	**0.990**	0.25	29.17	0.559	0.558	0.00	0.18	0.512	0.481	0.03	6.24
Lead	1	**10.3**	**50.0**	39.70	131.67	22.7	21.4	1.30	5.90	13.8	13.6	0.20	1.46
Selenium	1	**0.380**	**1.06**	0.68	94.44	0.746	0.616	0.13	19.09	0.625	0.530	0.10	16.45

TABLE 7A
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES (METALS) - LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	13C-e	140918DUP-4	Absolute Difference	RPD
		14-09-1641-247	14-09-1641-272		
		9/18/2014	9/18/2014		
Arsenic	1	13.4	11.9	1.50	11.86
Cadmium	1	0.589	0.552	0.04	6.49
Lead	1	24.3	23.1	1.20	5.06
Selenium	1	0.799	0.680	0.12	16.09

Notes: RPD = Relative Percent Difference.
MQL = Method Quantitation Limit.
Concentrations for metals reported in mg/Kg.
NC = Not Calculated.
NA = Not Analyzed.
Shaded RPDs are outside of the acceptable range.
Italicized values represent analyte method detection limits used for field duplicate precision calculations.
Shaded RPDs require data to be qualified when:
1) RPD ≥ 50% AND analyte concentrations > 5x MQL.
2a) Analyte concentration < 5x MQL AND absolute difference is ≥ 3x the MQL for INORGANICS.
2b) Analyte concentration < 5x MQL AND absolute difference is ≥ 2x the MQL for ORGANICS.

TABLE 7B
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES (OTHER ANALYTES) -
LAB REPORT 14091641
GRAND PARK, FRISCO, TEXAS

Constituent	MQL	10F-c	140917DUP-1	Absolute Difference	RPD
Sample Collection Date		9/18/2014	9/18/2014		
Laboratory ID Number		14-09-1641-94	14-09-1641-269		
TPH 1005 (mg/kg)					
TPH (C6-C12)	50	<4.9	<4.9	NC	NC
TPH (C12-C28)	50	<4.9	<4.9	NC	NC
TPH (C28-C35)	50	7.0	*4.9*	2.1	35.3
VOCS - BTEX (ug/kg)					
Benzene	5.0	<0.13	<0.13	NC	NC
Ethylbenzene	5.0	<0.15	<0.15	NC	NC
Toluene	5.0	<0.83	<0.83	NC	NC
Xylenes	5.0	<0.52	<0.52	NC	NC
PESTICIDES (ug/kg)					
4,4'-DDD	5.0	<1.6	1.8	NC	NC
4,4'-DDE	5.0	<1.5	<1.5	NC	NC
4,4'-DDT	5.0	<1.7	<1.7	NC	NC
Aldrin	5.0	<1.6	<1.6	NC	NC
Alpha-BHC	5.0	<1.6	<1.6	NC	NC
Beta-BHC	5.0	<1.3	<1.3	NC	NC
Chlordane	50	<16	<16	NC	NC
Delta-BHC	5.0	<1.3	<1.3	NC	NC
Dieldrin	5.0	<1.6	<1.6	NC	NC
Endosulfan I	5.0	<1.3	<1.3	NC	NC
Endosulfan II	5.0	<1.4	<1.4	NC	NC
Endosulfan Sulfate	5.0	<1.7	<1.7	NC	NC
Endrin	5.0	<1.8	<1.8	NC	NC
Endrin Aldehyde	5.0	<1.2	<1.2	NC	NC
Gamma-BHC	5.0	<1.7	<1.7	NC	NC
Heptachlor	5.0	<1.6	<1.6	NC	NC
Heptachlor Epoxide	5.0	<1.8	<1.8	NC	NC
Methoxychlor	5.0	<1.6	<1.6	NC	NC
Toxaphene	100	<32	<32	NC	NC
HERBICIDES (ug/kg)					
2,4,5-T	10	<1.1	<1.1	NC	NC
2,4,5-TP (Silvex)	10	<2.3	<2.3	NC	NC
2,4-D	100	<14	<14	NC	NC
2,4-DB	100	<16	<16	NC	NC
Dalapon	250	<73	<73	NC	NC
Dicamba	10	<1.2	<1.2	NC	NC
Dichlorprop	100	<17	<17	NC	NC
Dinoseb	50	<5.1	<5.1	NC	NC
MCPA	10000	*2100*	3300	1200	44.4
MCPP	10000	*3200*	3900	700	19.7

Notes:
RPD = Relative Percent Difference.
MQL = Method Quantitation Limit.
Concentrations for metals reported in mg/Kg.
NC = Not Calculated.
NA = Not Analyzed.
Bold values are detections, shaded RPD's are outside of the acceptable range.
Italicized values represent analyte method detection limits used for field duplicate precision calculations.
Shaded RPD's require data to be qualified when:
1) RPD ≥ 50% AND analyte concentrations > 5x MQL.
2a) Analyte concentration < 5x MQL AND absolute difference is ≥ 3x the MQL for INORGANICS.
2b) Analyte concentration < 5x MQL AND absolute difference is ≥ 2x the MQL for ORGANICS.

ATTACHMENT A

CALSCIENCE NELAC/TLAP ACCREDITATION

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704499-14-4
Effective Date: 8/1/2014
Expiration Date: 7/31/2015

Executive Director Texas Commission on Environmental Quality

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

CERTIFIED MAIL

Mr. Larry Lem
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Lem:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

We are also continuing secondary accreditation based on your application and primary NELAP accreditation from the states of Oregon and New York according to the attached Fields of Accreditation. Your laboratory's secondary accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary Accreditation Bodies.

I am enclosing an accreditation certificate and listing of the fields of accreditation. Please review the enclosures for accuracy and completeness.

In the meantime, please contact me by telephone at (512) 239–3754 or electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Air & Emissions***

Method EPA TO-14A

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	NY	5160	10248609
1,1,2,2-Tetrachloroethane	NY	5110	10248609
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248609
1,1,2-Trichloroethane	NY	5165	10248609
1,1-Dichloroethane	NY	4630	10248609
1,1-Dichloroethylene	NY	4640	10248609
1,2,4-Trichlorobenzene	NY	5155	10248609
1,2,4-Trimethylbenzene	NY	5210	10248609
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248609
1,2-Dichlorobenzene	NY	4610	10248609
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248609
1,2-Dichloropropane	NY	4655	10248609
1,3,5-Trimethylbenzene	NY	5215	10248609
1,3-Dichlorobenzene	NY	4615	10248609
1,4-Dichlorobenzene	NY	4620	10248609
Benzene	NY	4375	10248609
Benzyl chloride	NY	5635	10248609
Carbon tetrachloride	NY	4455	10248609
Chlorobenzene	NY	4475	10248609
Chloroethane (Ethyl chloride)	NY	4485	10248609
Chloroform	NY	4505	10248609
cis-1,2-Dichloroethylene	NY	4645	10248609
cis-1,3-Dichloropropene	NY	4680	10248609
Dichlorodifluoromethane (Freon-12)	NY	4625	10248609
Ethylbenzene	NY	4765	10248609
Hexachlorobutadiene	NY	4835	10248609
Methyl bromide (Bromomethane)	NY	4950	10248609
Methyl chloride (Chloromethane)	NY	4960	10248609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

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Matrix: *Air & Emissions*

Methylene chloride (Dichloromethane)	NY	4975	10248609
Styrene	NY	5100	10248609
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248609
Toluene	NY	5140	10248609
trans-1,2-Dichloroethylene	NY	4700	10248609
trans-1,3-Dichloropropylene	NY	4685	10248609
Trichloroethene (Trichloroethylene)	NY	5170	10248609
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248609
Vinyl chloride	NY	5235	10248609
Xylene (total)	NY	5260	10248609

Method EPA TO-15

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	NY	5160	10248803
1,1,2,2-Tetrachloroethane	NY	5110	10248803
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248803
1,1,2-Trichloroethane	NY	5165	10248803
1,1-Dichloroethane	NY	4630	10248803
1,1-Dichloroethylene	NY	4640	10248803
1,2,4-Trichlorobenzene	NY	5155	10248803
1,2,4-Trimethylbenzene	NY	5210	10248803
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248803
1,2-Dichlorobenzene	NY	4610	10248803
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248803
1,2-Dichloropropane	NY	4655	10248803
1,3,5-Trimethylbenzene	NY	5215	10248803
1,3-Butadiene	NY	9318	10248803
1,3-Dichlorobenzene	NY	4615	10248803
1,4-Dichlorobenzene	NY	4620	10248803
1,4-Dioxane (1,4-Diethyleneoxide)	NY	4735	10248803
2-Butanone (Methyl ethyl ketone, MEK)	NY	4410	10248803

Texas Commission on Environmental Quality

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Expiration Date: 7/31/2015
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These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Air & Emissions*

Benzene	NY	4375	10248803
Benzyl chloride	NY	5635	10248803
Bromodichloromethane	NY	4395	10248803
Bromoform	NY	4400	10248803
Carbon tetrachloride	NY	4455	10248803
Chlorobenzene	NY	4475	10248803
Chloroethane (Ethyl chloride)	NY	4485	10248803
Chloroform	NY	4505	10248803
cis-1,2-Dichloroethylene	NY	4645	10248803
cis-1,3-Dichloropropene	NY	4680	10248803
Dichlorodifluoromethane (Freon-12)	NY	4625	10248803
Ethylbenzene	NY	4765	10248803
Hexachlorobutadiene	NY	4835	10248803
Methyl bromide (Bromomethane)	NY	4950	10248803
Methyl chloride (Chloromethane)	NY	4960	10248803
Methyl isobutyl ketone (Hexone) (MIBK)	NY	4985	10248803
Methyl tert-butyl ether (MTBE)	NY	5000	10248803
Methylene chloride (Dichloromethane)	NY	4975	10248803
n-Hexane	NY	4855	10248803
Styrene	NY	5100	10248803
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248803
Toluene	NY	5140	10248803
trans-1,2-Dichloroethylene	NY	4700	10248803
trans-1,3-Dichloropropylene	NY	4685	10248803
Trichloroethene (Trichloroethylene)	NY	5170	10248803
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248803
Vinyl acetate	NY	5225	10248803
Vinyl chloride	NY	5235	10248803
Xylene (total)	NY	5260	10248803

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Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: ***Non-Potable Water***

Method ASTM D516

Analyte	AB	Analyte ID	Method ID
Sulfate	OR	2000	30002201

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	OR	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	OR	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	OR	1000	10013806
Antimony	OR	1005	10013806
Arsenic	OR	1010	10013806
Barium	OR	1015	10013806
Beryllium	OR	1020	10013806
Boron	OR	1025	10013806
Cadmium	OR	1030	10013806
Calcium	OR	1035	10013806
Chromium	OR	1040	10013806
Cobalt	OR	1050	10013806
Copper	OR	1055	10013806
Iron	OR	1070	10013806
Lead	OR	1075	10013806
Magnesium	OR	1085	10013806
Manganese	OR	1090	10013806
Molybdenum	OR	1100	10013806

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Matrix: ***Non-Potable Water***

Nickel	OR	1105	10013806
Potassium	OR	1125	10013806
Selenium	OR	1140	10013806
Silica as SiO2	OR	1990	10013806
Silver	OR	1150	10013806
Sodium	OR	1155	10013806
Thallium	OR	1165	10013806
Tin	OR	1175	10013806
Vanadium	OR	1185	10013806
Zinc	OR	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	OR	1000	10014605
Antimony	OR	1005	10014605
Arsenic	OR	1010	10014605
Barium	OR	1015	10014605
Beryllium	OR	1020	10014605
Boron	OR	1025	10014605
Cadmium	OR	1030	10014605
Chromium	OR	1040	10014605
Cobalt	OR	1050	10014605
Copper	OR	1055	10014605
Iron	OR	1070	10014605
Lead	OR	1075	10014605
Manganese	OR	1090	10014605
Molybdenum	OR	1100	10014605
Nickel	OR	1105	10014605
Selenium	OR	1140	10014605
Silver	OR	1150	10014605
Thallium	OR	1165	10014605

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Matrix: ***Non-Potable Water***

Tin	OR	1175	10014605
Titanium	OR	1180	10014605
Vanadium	OR	1185	10014605
Zinc	OR	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	10053006
Fluoride	OR	1730	10053006
Nitrate as N	OR	1810	10053006
Nitrate-nitrite	OR	1820	10053006
Nitrite as N	OR	1840	10053006
Orthophosphate as P	OR	1870	10053006
Sulfate	OR	2000	10053006

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	OR	1540	10053608

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	OR	1515	10063408

Method EPA 351.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Kjeldahl nitrogen - total (TKN)	OR	1795	10065200

Method EPA 365.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10069804
Phosphorus	OR	1910	10069804

Method EPA 365.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10070801
Phosphorus	OR	1910	10070801

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Matrix: ***Non-Potable Water***

Method EPA 410.4

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	OR	1565	10077200

Method EPA 420.1

Analyte	AB	Analyte ID	Method ID
Total phenolics	OR	1905	10079400

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204

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Matrix: ***Non-Potable Water***

Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204
Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606

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Matrix: ***Non-Potable Water***

Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606
Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000

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Matrix: ***Non-Potable Water***

Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000
Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802

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Matrix: *Non-Potable Water*

1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802
1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802

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Matrix: *Non-Potable Water*

4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802
Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromochloropropane	OR	4580	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802

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Matrix: *Non-Potable Water*

Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802
Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	OR	4770	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802

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Matrix: ***Non-Potable Water***

Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802
T-amylmethylether (TAME)	OR	4370	10184802
tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805

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Matrix: *Non-Potable Water*

1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805
2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805

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7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: *Non-Potable Water*

4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805
4-Dimethyl aminoazobenzene	OR	6105	10185805
4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Eurofins Calscience, Inc.

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Matrix: *Non-Potable Water*

bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805
Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805

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Matrix: ***Non-Potable Water***

Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805
n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method SM 2130 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Turbidity	OR	2055	20042200

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Alkalinity as CaCO3	OR	1505	20045005
Method SM 2340 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20046008
Method SM 2340 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20047001
Method SM 2510 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	OR	1610	20048004
Method SM 2540 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	OR	1950	20004608
Method SM 2540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	OR	1955	20049803
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	OR	1960	20004802
Method SM 2540 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	OR	1965	20005009
Method SM 4500-Cl^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	20084804
Method SM 4500-F^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	20101808
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	20104603

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-NH3 C	Ammonia as N	OR	1515	20023603
SM 4500-NH3 F	Ammonia as N	OR	1515	20023001
SM 4500-NH3 G	Ammonia as N	OR	1515	20023205
SM 4500-NO_2^- B	Nitrite as N	OR	1840	20024004
SM 4500-NO3 E	Nitrate as N	OR	1810	20114209
	Nitrate-nitrite	OR	1820	20114209
	Nitrite as N	OR	1840	20114209
SM 4500-O G	Oxygen, dissolved	OR	1880	20025405
SM 4500-P E	Orthophosphate as P	OR	1870	20025803
SM 4500-$S2^-$ D	Sulfide	OR	2005	20125400
SM 4500-$SO3^-$ B	Sulfite	OR	2015	20026806
SM 5210 B	Biochemical oxygen demand (BOD)	OR	1530	20027401

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Matrix: ***Non-Potable Water***

Carbonaceous BOD, CBOD	OR	1555	20027401
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	OR	1565	20027809
Method SM 5310 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20137206
Method SM 5310 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20139202
Method SM 5520 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	20028802
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	20028802
Method SM 5540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	OR	2025	20144405
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	OR	849	10118806

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204
Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204

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Matrix: ***Solid & Chemical Materials***

Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606
Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606

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Matrix: *Solid & Chemical Materials*

Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000
Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000

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Matrix: ***Solid & Chemical Materials***

Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802
1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802

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Matrix: *Solid & Chemical Materials*

1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802
4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802

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Matrix: *Solid & Chemical Materials*

Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802
Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802

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Matrix: *Solid & Chemical Materials*

Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methanol	OR	4930	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802
Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802

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Matrix: ***Solid & Chemical Materials***

tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805
1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805

Texas Commission on Environmental Quality

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Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: ***Solid & Chemical Materials***

2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805
4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805

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Matrix: *Solid & Chemical Materials*

4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805

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Matrix: ***Solid & Chemical Materials***

Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachlorocyclopentadiene	OR	6285	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805
Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805

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Matrix: ***Solid & Chemical Materials***

n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	OR	1615	10198400
pH	OR	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	10199209

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Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT B

DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

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Supplemental Report 1

The original report has been revised/corrected.

WORK ORDER NUMBER: 14-09-1641

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cook-Joyce Inc.

Client Project Name: Grand Park / 13046.01

Attention: Richard Varnell
812 West 11th Street
Austin, TX 78701-2053

Approved for release on 10/22/2014 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-1641

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Work Order Narrative

Work Order: 14-09-1641 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/20/14. They were assigned to Work Order 14-09-1641.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

The original report has been revised to correct the sample IDs for lab numbers 14-09-1641-269, -270, -271 and -272.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1641
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	09/20/14 10:00
		Number of Containers:	278
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
8G-c	14-09-1641-1	09/15/14 15:32	1	Solid
8G-b	14-09-1641-2	09/15/14 15:27	1	Solid
8G-a	14-09-1641-3	09/15/14 15:20	1	Solid
8F-c	14-09-1641-4	09/15/14 15:13	1	Solid
8F-b	14-09-1641-5	09/18/14 08:25	2	Solid
8F-a	14-09-1641-6	09/15/14 15:07	1	Solid
8E-c	14-09-1641-7	09/15/14 15:03	1	Solid
8E-b	14-09-1641-8	09/15/14 15:00	1	Solid
8E-a	14-09-1641-9	09/15/14 14:57	1	Solid
8D-c	14-09-1641-10	09/15/14 14:54	1	Solid
8D-b	14-09-1641-11	09/15/14 14:50	1	Solid
8D-a	14-09-1641-12	09/15/14 14:46	1	Solid
8C-c	14-09-1641-13	09/15/14 14:42	1	Solid
8C-b	14-09-1641-14	09/15/14 14:38	1	Solid
8C-a	14-09-1641-15	09/15/14 14:34	1	Solid
8B-c	14-09-1641-16	09/15/14 14:29	1	Solid
8B-b	14-09-1641-17	09/15/14 14:20	1	Solid
8B-a	14-09-1641-18	09/15/14 14:15	1	Solid
8A-a	14-09-1641-19	09/15/14 16:31	1	Solid
8B-d	14-09-1641-20	09/15/14 16:28	1	Solid
8B-e	14-09-1641-21	09/15/14 16:25	1	Solid
8B-f	14-09-1641-22	09/15/14 16:23	1	Solid
8C-d	14-09-1641-23	09/15/14 16:20	1	Solid
8C-e	14-09-1641-24	09/15/14 16:17	1	Solid
8C-f	14-09-1641-25	09/15/14 16:14	1	Solid
8D-d	14-09-1641-26	09/15/14 16:09	1	Solid
8D-e	14-09-1641-27	09/15/14 16:06	1	Solid
8D-f	14-09-1641-28	09/15/14 16:03	1	Solid
8E-d	14-09-1641-29	09/15/14 16:00	1	Solid
8E-e	14-09-1641-30	09/15/14 15:56	1	Solid
8E-f	14-09-1641-31	09/15/14 15:54	1	Solid
8F-d	14-09-1641-32	09/15/14 15:51	1	Solid
8F-e	14-09-1641-33	09/15/14 15:41	1	Solid
8F-g	14-09-1641-34	09/16/14 09:17	1	Solid
8F-f	14-09-1641-35	09/16/14 09:14	1	Solid
8E-i	14-09-1641-36	09/16/14 09:12	1	Solid
8E-h	14-09-1641-37	09/16/14 09:09	1	Solid
8E-g	14-09-1641-38	09/16/14 09:00	1	Solid
8D-i	14-09-1641-39	09/16/14 08:57	1	Solid
8D-h	14-09-1641-40	09/16/14 08:54	1	Solid
8D-g	14-09-1641-41	09/16/14 08:51	1	Solid
8C-i	14-09-1641-42	09/16/14 08:48	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1641
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	09/20/14 10:00
		Number of Containers:	278
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
8C-h	14-09-1641-43	09/16/14 08:45	1	Solid
8C-g	14-09-1641-44	09/16/14 08:41	1	Solid
8B-i	14-09-1641-45	09/16/14 08:38	1	Solid
8B-h	14-09-1641-46	09/16/14 08:35	1	Solid
8B-g	14-09-1641-47	09/16/14 08:30	1	Solid
8A-b	14-09-1641-48	09/16/14 08:26	1	Solid
9A-a	14-09-1641-49	09/16/14 10:06	1	Solid
9B-a	14-09-1641-50	09/16/14 10:03	1	Solid
9B-b	14-09-1641-51	09/16/14 10:00	1	Solid
9B-c	14-09-1641-52	09/16/14 09:57	1	Solid
9C-a	14-09-1641-53	09/16/14 09:54	1	Solid
9C-b	14-09-1641-54	09/16/14 09:50	1	Solid
9C-c	14-09-1641-55	09/16/14 09:46	1	Solid
9D-a	14-09-1641-56	09/16/14 09:43	1	Solid
9D-b	14-09-1641-57	09/16/14 09:39	1	Solid
9D-c	14-09-1641-58	09/16/14 09:35	1	Solid
9E-a	14-09-1641-59	09/16/14 09:33	1	Solid
9E-b	14-09-1641-60	09/16/14 09:30	1	Solid
9E-c	14-09-1641-61	09/16/14 09:27	1	Solid
9F-a	14-09-1641-62	09/16/14 09:24	1	Solid
9F-b	14-09-1641-63	09/16/14 09:20	1	Solid
9F-d	14-09-1641-64	09/16/14 11:10	1	Solid
9F-c	14-09-1641-65	09/16/14 11:06	1	Solid
9E-f	14-09-1641-66	09/16/14 11:00	1	Solid
9E-e	14-09-1641-67	09/16/14 10:58	1	Solid
9E-d	14-09-1641-68	09/16/14 10:54	1	Solid
9D-f	14-09-1641-69	09/16/14 10:50	1	Solid
9D-e	14-09-1641-70	09/16/14 10:47	1	Solid
9D-d	14-09-1641-71	09/16/14 10:44	1	Solid
9C-f	14-09-1641-72	09/16/14 10:40	1	Solid
9C-e	14-09-1641-73	09/16/14 10:37	1	Solid
9C-d	14-09-1641-74	09/16/14 10:30	1	Solid
9B-f	14-09-1641-75	09/16/14 10:27	1	Solid
9B-e	14-09-1641-76	09/16/14 10:24	1	Solid
9B-d	14-09-1641-77	09/16/14 10:20	1	Solid
9A-b	14-09-1641-78	09/16/14 10:13	1	Solid
9A-c	14-09-1641-79	09/16/14 13:47	1	Solid
9B-g	14-09-1641-80	09/16/14 13:45	1	Solid
9B-h	14-09-1641-81	09/16/14 13:42	1	Solid
9B-i	14-09-1641-82	09/16/14 13:33	1	Solid
9C-g	14-09-1641-83	09/16/14 13:28	1	Solid
9C-h	14-09-1641-84	09/16/14 13:25	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1641
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	09/20/14 10:00
		Number of Containers:	278
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
9C-i	14-09-1641-85	09/16/14 13:20	1	Solid
9D-g	14-09-1641-86	09/16/14 13:17	1	Solid
9D-h	14-09-1641-87	09/16/14 13:10	1	Solid
9D-i	14-09-1641-88	09/16/14 13:04	1	Solid
9E-g	14-09-1641-89	09/16/14 13:00	1	Solid
9E-h	14-09-1641-90	09/16/14 12:57	1	Solid
9E-i	14-09-1641-91	09/16/14 12:50	1	Solid
9F-e	14-09-1641-92	09/16/14 12:45	1	Solid
9F-f	14-09-1641-93	09/16/14 12:40	1	Solid
10F-c	14-09-1641-94	09/18/14 09:07	2	Solid
10F-b	14-09-1641-95	09/18/14 09:03	2	Solid
10F-a	14-09-1641-96	09/18/14 08:45	2	Solid
10E-c	14-09-1641-97	09/18/14 08:36	2	Solid
10E-b	14-09-1641-98	09/16/14 14:34	1	Solid
10E-a	14-09-1641-99	09/16/14 14:30	1	Solid
10D-c	14-09-1641-100	09/16/14 14:27	1	Solid
10D-b	14-09-1641-101	09/16/14 14:24	1	Solid
10D-a	14-09-1641-102	09/16/14 14:21	1	Solid
10C-c	14-09-1641-103	09/16/14 14:18	1	Solid
10C-b	14-09-1641-104	09/16/14 14:15	1	Solid
10C-a	14-09-1641-105	09/16/14 14:12	1	Solid
10B-c	14-09-1641-106	09/16/14 14:09	1	Solid
10B-b	14-09-1641-107	09/16/14 14:06	1	Solid
10B-a	14-09-1641-108	09/16/14 14:03	1	Solid
10A-a	14-09-1641-109	09/16/14 13:57	1	Solid
10A-b	14-09-1641-110	09/16/14 15:41	1	Solid
10B-d	14-09-1641-111	09/16/14 15:35	1	Solid
10B-e	14-09-1641-112	09/16/14 15:31	1	Solid
10B-f	14-09-1641-113	09/16/14 15:27	1	Solid
10C-d	14-09-1641-114	09/16/14 15:20	1	Solid
10C-e	14-09-1641-115	09/16/14 15:18	1	Solid
10C-f	14-09-1641-116	09/16/14 15:15	1	Solid
10D-d	14-09-1641-117	09/16/14 15:11	1	Solid
10D-e	14-09-1641-118	09/16/14 15:06	1	Solid
10D-f	14-09-1641-119	09/16/14 14:59	1	Solid
10E-d	14-09-1641-120	09/16/14 14:55	1	Solid
10E-e	14-09-1641-121	09/16/14 14:48	1	Solid
10E-f	14-09-1641-122	09/18/14 09:28	1	Solid
10F-d	14-09-1641-123	09/18/14 09:25	1	Solid
10F-e	14-09-1641-124	09/18/14 09:21	1	Solid
10F-f	14-09-1641-125	09/18/14 09:15	1	Solid
10F-h	14-09-1641-126	09/17/14 11:01	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1641
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	09/20/14 10:00
		Number of Containers:	278
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
10F-g	14-09-1641-127	09/17/14 10:57	1	Solid
10E-i	14-09-1641-128	09/17/14 10:53	1	Solid
10E-h	14-09-1641-129	09/17/14 10:50	1	Solid
10E-g	14-09-1641-130	09/17/14 10:45	1	Solid
10D-i	14-09-1641-131	09/17/14 10:40	1	Solid
10D-h	14-09-1641-132	09/17/14 10:26	1	Solid
10D-g	14-09-1641-133	09/17/14 10:23	1	Solid
10C-i	14-09-1641-134	09/17/14 10:20	1	Solid
10C-h	14-09-1641-135	09/17/14 10:15	1	Solid
10C-g	14-09-1641-136	09/17/14 10:08	1	Solid
10B-i	14-09-1641-137	09/17/14 10:04	1	Solid
10B-h	14-09-1641-138	09/17/14 10:00	1	Solid
10B-g	14-09-1641-139	09/17/14 09:56	1	Solid
10A-c	14-09-1641-140	09/17/14 09:47	1	Solid
11A-a	14-09-1641-141	09/17/14 13:02	1	Solid
11B-a	14-09-1641-142	09/17/14 12:56	1	Solid
11B-b	14-09-1641-143	09/17/14 12:53	1	Solid
11B-c	14-09-1641-144	09/17/14 12:49	1	Solid
11C-a	14-09-1641-145	09/17/14 12:46	1	Solid
11C-b	14-09-1641-146	09/17/14 12:44	1	Solid
11C-c	14-09-1641-147	09/17/14 12:41	1	Solid
11D-a	14-09-1641-148	09/17/14 11:30	1	Solid
11D-b	14-09-1641-149	09/17/14 11:27	1	Solid
11D-c	14-09-1641-150	09/17/14 11:24	1	Solid
11E-a	14-09-1641-151	09/17/14 11:19	1	Solid
11E-b	14-09-1641-152	09/17/14 11:16	1	Solid
11E-c	14-09-1641-153	09/17/14 11:10	1	Solid
11F-a	14-09-1641-154	09/17/14 11:06	1	Solid
11F-b	14-09-1641-155	09/17/14 14:01	1	Solid
11E-f	14-09-1641-156	09/17/14 13:56	1	Solid
11E-e	14-09-1641-157	09/17/14 13:51	1	Solid
11E-d	14-09-1641-158	09/17/14 13:47	1	Solid
11D-f	14-09-1641-159	09/17/14 13:44	1	Solid
11D-e	14-09-1641-160	09/17/14 13:40	1	Solid
11D-d	14-09-1641-161	09/17/14 13:37	1	Solid
11C-f	14-09-1641-162	09/17/14 13:32	1	Solid
11C-e	14-09-1641-163	09/17/14 13:29	1	Solid
11C-d	14-09-1641-164	09/17/14 13:26	1	Solid
11B-f	14-09-1641-165	09/17/14 13:23	1	Solid
11B-e	14-09-1641-166	09/17/14 13:20	1	Solid
11B-d	14-09-1641-167	09/17/14 13:16	1	Solid
11A-b	14-09-1641-168	09/17/14 13:13	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1641
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	09/20/14 10:00
		Number of Containers:	278
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
11A-c	14-09-1641-169	09/17/14 15:16	1	Solid
11B-g	14-09-1641-170	09/17/14 15:10	1	Solid
11B-h	14-09-1641-171	09/17/14 15:06	1	Solid
11B-i	14-09-1641-172	09/17/14 15:03	1	Solid
11C-g	14-09-1641-173	09/17/14 15:01	1	Solid
11C-h	14-09-1641-174	09/17/14 14:58	1	Solid
11C-i	14-09-1641-175	09/17/14 14:55	1	Solid
11D-g	14-09-1641-176	09/17/14 14:52	1	Solid
11D-h	14-09-1641-177	09/17/14 14:50	1	Solid
11D-i	14-09-1641-178	09/17/14 14:47	1	Solid
11E-g	14-09-1641-179	09/17/14 14:44	1	Solid
11E-h	14-09-1641-180	09/17/14 14:42	1	Solid
11E-i	14-09-1641-181	09/17/14 14:28	1	Solid
11F-c	14-09-1641-182	09/17/14 14:24	1	Solid
12F-a	14-09-1641-183	09/17/14 16:17	1	Solid
12E-c	14-09-1641-184	09/17/14 16:13	1	Solid
12E-b	14-09-1641-185	09/17/14 16:05	1	Solid
12E-a	14-09-1641-186	09/17/14 16:02	1	Solid
12D-c	14-09-1641-187	09/17/14 16:00	1	Solid
12D-b	14-09-1641-188	09/17/14 15:57	1	Solid
12D-a	14-09-1641-189	09/17/14 15:55	1	Solid
12C-c	14-09-1641-190	09/17/14 15:52	1	Solid
12C-b	14-09-1641-191	09/17/14 15:49	1	Solid
12C-a	14-09-1641-192	09/17/14 15:47	1	Solid
12B-c	14-09-1641-193	09/17/14 15:45	1	Solid
12B-b	14-09-1641-194	09/17/14 15:42	1	Solid
12B-a	14-09-1641-195	09/17/14 15:39	1	Solid
12A-a	14-09-1641-196	09/17/14 15:35	1	Solid
12F-c	14-09-1641-197	09/17/14 16:20	1	Solid
12F-b	14-09-1641-198	09/17/14 16:23	1	Solid
12E-f	14-09-1641-199	09/17/14 16:25	1	Solid
12E-e	14-09-1641-200	09/17/14 16:29	1	Solid
12E-d	14-09-1641-201	09/18/14 09:53	1	Solid
12D-f	14-09-1641-202	09/18/14 09:56	1	Solid
12D-e	14-09-1641-203	09/18/14 10:00	1	Solid
12D-d	14-09-1641-204	09/18/14 10:04	1	Solid
12C-f	14-09-1641-205	09/18/14 10:07	1	Solid
12C-e	14-09-1641-206	09/18/14 10:10	1	Solid
12C-d	14-09-1641-207	09/18/14 10:13	1	Solid
12B-f	14-09-1641-208	09/18/14 10:15	1	Solid
12B-e	14-09-1641-209	09/18/14 10:18	1	Solid
12B-d	14-09-1641-210	09/18/14 10:24	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-09-1641
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	09/20/14 10:00
		Number of Containers:	278
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
12A-b	14-09-1641-211	09/18/14 10:27	1	Solid
12A-c	14-09-1641-212	09/18/14 10:35	1	Solid
12B-g	14-09-1641-213	09/18/14 10:38	1	Solid
12B-h	14-09-1641-214	09/18/14 10:41	1	Solid
12B-i	14-09-1641-215	09/18/14 10:45	1	Solid
12C-g	14-09-1641-216	09/18/14 10:48	1	Solid
12C-h	14-09-1641-217	09/18/14 10:50	1	Solid
12C-i	14-09-1641-218	09/18/14 10:53	1	Solid
12D-g	14-09-1641-219	09/18/14 10:56	1	Solid
12D-h	14-09-1641-220	09/18/14 10:58	1	Solid
12D-i	14-09-1641-221	09/18/14 11:01	1	Solid
12E-g	14-09-1641-222	09/18/14 11:04	1	Solid
12E-h	14-09-1641-223	09/18/14 11:09	1	Solid
12E-i	14-09-1641-224	09/18/14 11:13	1	Solid
12F-d	14-09-1641-225	09/18/14 11:17	1	Solid
12F-e	14-09-1641-226	09/18/14 11:19	1	Solid
13F-b	14-09-1641-227	09/18/14 11:31	1	Solid
13F-a	14-09-1641-228	09/18/14 11:38	1	Solid
13E-c	14-09-1641-229	09/18/14 11:42	1	Solid
13E-b	14-09-1641-230	09/18/14 11:45	1	Solid
13E-a	14-09-1641-231	09/18/14 11:48	1	Solid
13D-c	14-09-1641-232	09/18/14 13:24	1	Solid
13D-b	14-09-1641-233	09/18/14 13:28	1	Solid
13D-a	14-09-1641-234	09/18/14 13:32	1	Solid
13C-c	14-09-1641-235	09/18/14 13:35	1	Solid
13C-b	14-09-1641-236	09/18/14 13:37	1	Solid
13C-a	14-09-1641-237	09/18/14 13:40	1	Solid
13B-c	14-09-1641-238	09/18/14 13:42	1	Solid
13B-b	14-09-1641-239	09/18/14 13:46	1	Solid
13B-a	14-09-1641-240	09/18/14 13:48	1	Solid
13A-a	14-09-1641-241	09/18/14 13:51	1	Solid
13A-b	14-09-1641-242	09/18/14 14:21	1	Solid
13B-d	14-09-1641-243	09/18/14 14:28	1	Solid
13B-e	14-09-1641-244	09/18/14 14:34	1	Solid
13B-f	14-09-1641-245	09/18/14 14:38	1	Solid
13C-d	14-09-1641-246	09/18/14 14:41	1	Solid
13C-e	14-09-1641-247	09/18/14 14:44	1	Solid
13C-f	14-09-1641-248	09/18/14 14:47	1	Solid
13D-d	14-09-1641-249	09/18/14 14:50	1	Solid
13D-e	14-09-1641-250	09/18/14 14:54	1	Solid
13D-f	14-09-1641-251	09/18/14 14:57	1	Solid
13E-d	14-09-1641-252	09/18/14 15:00	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc.	Work Order:	14-09-1641
	812 West 11th Street	Project Name:	Grand Park / 13046.01
	Austin, TX 78701-2053	PO Number:	
		Date/Time Received:	09/20/14 10:00
		Number of Containers:	278
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
13E-e	14-09-1641-253	09/18/14 15:04	1	Solid
13E-f	14-09-1641-254	09/18/14 15:07	1	Solid
13F-c	14-09-1641-255	09/18/14 15:10	1	Solid
13F-d	14-09-1641-256	09/18/14 15:15	1	Solid
140915DUP-1	14-09-1641-257	09/15/14 12:00	1	Solid
140915DUP-2	14-09-1641-258	09/15/14 12:00	1	Solid
140915DUP-3	14-09-1641-259	09/15/14 12:00	1	Solid
140916DUP-1	14-09-1641-260	09/16/14 12:00	1	Solid
140916DUP-2	14-09-1641-261	09/16/14 12:00	1	Solid
140916DUP-3	14-09-1641-262	09/16/14 12:00	1	Solid
140916DUP-4	14-09-1641-263	09/16/14 12:00	1	Solid
140916DUP-5	14-09-1641-264	09/16/14 12:00	1	Solid
140917DUP-1	14-09-1641-265	09/17/14 12:00	1	Solid
140917DUP-2	14-09-1641-266	09/17/14 12:00	1	Solid
140917DUP-3	14-09-1641-267	09/17/14 12:00	1	Solid
140917DUP-4	14-09-1641-268	09/17/14 12:00	1	Solid
140918DUP-1	14-09-1641-269	09/18/14 12:00	2	Solid
140918DUP-2	14-09-1641-270	09/18/14 12:00	1	Solid
140918DUP-3	14-09-1641-271	09/18/14 12:00	1	Solid
140918DUP-4	14-09-1641-272	09/18/14 12:00	1	Solid

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QC Association Summary

Work Order: 14-09-1641 Page 1 of 14

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
8G-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8G-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8G-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8G-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8G-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8G-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8F-b	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
8F-b	EPA 8081A Organochlorine Pesticides	R	EPA 3545	GC 44	140923S01	140923L01
8F-b	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
8F-b	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
8F-b	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
8F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8A-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8A-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01
8B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID3	E0922MOIB3
8B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S01	140925L01

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
8B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID4	E0922MOIB4
8D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S02	140925L02
8D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
8D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
8C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
8C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
8C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
8C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
8C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
8C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
8B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
8B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
8B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
8B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
8B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
8B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
8A-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
8A-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9A-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9A-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID5	E0922MOIB5
9E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S03	140925L03
9E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
9E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9A-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9A-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9A-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9A-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0922MOID6	E0922MOIB6
9B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S04	140925L04
9B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
9D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
9F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
9F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
10F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10F-c	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10F-c	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10F-c	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
10F-c	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
10F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
10F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10F-b	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10F-b	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10F-b	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
10F-b	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
10F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
10F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10F-a	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10F-a	EPA 8081A Organochlorine Pesticides	R	EPA 3545	GC 44	140923S01	140923L01
10F-a	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10F-a	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
10F-a	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
10E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
10E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10E-c	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10E-c	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10E-c	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
10E-c	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
10E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
10E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
10E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID2	E0923MOIB2
10D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S05	140925L05
10D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
10D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10A-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10A-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10A-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10A-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID3	E0923MOIB3
10E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140925S06	140925L06
10E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10E-f	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10E-f	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10E-f	EPA 8260B BTEX		EPA 5030C	GC/MS Q	140924S023	140924L026
10E-f	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
10F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10F-d	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10F-d	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10F-d	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
10F-d	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
10F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10F-e	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10F-e	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10F-e	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
10F-e	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
10F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10F-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10F-f	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
10F-f	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
10F-f	EPA 8260B BTEX		EPA 5030C	GC/MS BB	140923S020	140923L021
10F-f	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
10F-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10F-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10F-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10F-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
10B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
10A-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID4	E0923MOIB4
10A-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S01	140926L01
11A-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11A-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID5	E0923MOIB5
11D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S02	140926L02
11D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
11C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11A-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11A-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11A-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11A-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOIB6	E0923MOIB6
11E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S03	140926L03
11E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
11E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
11F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
11F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
12E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12A-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12A-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID3	E0924MOIB3
12E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S04	140926L04
12E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
12C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12A-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12A-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12A-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12A-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12B-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12B-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12B-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12B-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12B-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12B-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12C-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12C-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12C-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12C-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12C-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12C-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12D-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12D-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12D-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID4	E0924MOIB4
12D-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S05	140926L05
12D-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
12D-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
12E-g	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
12E-g	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
12E-h	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
12E-h	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
12E-i	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
12E-i	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
12F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
12F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
12F-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
12F-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13F-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13F-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13F-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13F-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13E-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
13E-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13E-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13E-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13E-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13E-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13D-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13D-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13D-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13D-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13D-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13D-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13C-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13C-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13C-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13C-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13C-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13C-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13B-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13B-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13B-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13B-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13B-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID5	E0924MOIB5
13B-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S06	140926L06
13A-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13A-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13A-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13A-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13B-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13B-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13B-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13B-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13B-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13B-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13C-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13C-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13C-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13C-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13C-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13C-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13D-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13D-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13D-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13D-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13D-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13D-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
13E-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13E-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13E-e	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13E-e	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13E-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13E-f	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13F-c	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
13F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
13F-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
140915DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
140915DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
140915DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
140915DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
140915DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
140915DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
140916DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0924MOID6	E0924MOIB6
140916DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S07	140926L07
140916DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140916DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140916DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140916DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140916DUP-4	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140916DUP-4	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140916DUP-5	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140916DUP-5	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140917DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140917DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140917DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140917DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140917DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140917DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140917DUP-4	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140917DUP-4	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140918DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140918DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140918DUP-1	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 44	140923S01	140923L01
140918DUP-1	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40	140922S08	140922L08
140918DUP-1	EPA 8260B BTEX		EPA 5030C	GC/MS Q	140924S023	140924L026
140918DUP-1	TX 1005 TPH Soil		TX 1005	GC 50	140923S11	140923B11
140918DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140918DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140918DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7
140918DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08
140918DUP-4	ASTM D-2216 (M) Moisture Content		N/A	N/A	E0923MOID7	E0923MOIB7

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QC Association Summary

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
140918DUP-4	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 03	140926S08	140926L08

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 1 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-c	**14-09-1641-1-A**	**09/15/14 15:32**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-b	**14-09-1641-2-A**	**09/15/14 15:27**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-a	**14-09-1641-3-A**	**09/15/14 15:20**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-c	**14-09-1641-4-A**	**09/15/14 15:13**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b	**14-09-1641-5-A**	**09/18/14 08:25**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-a	**14-09-1641-6-A**	**09/15/14 15:07**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-c	**14-09-1641-7-A**	**09/15/14 15:03**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-b	**14-09-1641-8-A**	**09/15/14 15:00**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.3	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 2 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-a	**14-09-1641-9-A**	**09/15/14 14:57**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-c	**14-09-1641-10-A**	**09/15/14 14:54**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-b	**14-09-1641-11-A**	**09/15/14 14:50**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-a	**14-09-1641-12-A**	**09/15/14 14:46**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-c	**14-09-1641-13-A**	**09/15/14 14:42**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-b	**14-09-1641-14-A**	**09/15/14 14:38**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-a	**14-09-1641-15-A**	**09/15/14 14:34**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-c	**14-09-1641-16-A**	**09/15/14 14:29**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.9	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-b	**14-09-1641-17-A**	**09/15/14 14:20**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-a	**14-09-1641-18-A**	**09/15/14 14:15**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8A-a	**14-09-1641-19-A**	**09/15/14 16:31**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-d	**14-09-1641-20-A**	**09/15/14 16:28**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-e	**14-09-1641-21-A**	**09/15/14 16:25**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-f	**14-09-1641-22-A**	**09/15/14 16:23**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-d	**14-09-1641-23-A**	**09/15/14 16:20**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-e	**14-09-1641-24-A**	**09/15/14 16:17**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.2	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-f	**14-09-1641-25-A**	**09/15/14 16:14**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-d	**14-09-1641-26-A**	**09/15/14 16:09**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-e	**14-09-1641-27-A**	**09/15/14 16:06**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-f	**14-09-1641-28-A**	**09/15/14 16:03**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-d	**14-09-1641-29-A**	**09/15/14 16:00**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-e	**14-09-1641-30-A**	**09/15/14 15:56**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-f	**14-09-1641-31-A**	**09/15/14 15:54**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-d	**14-09-1641-32-A**	**09/15/14 15:51**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.5	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-e	**14-09-1641-33-A**	**09/15/14 15:41**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-g	**14-09-1641-34-A**	**09/16/14 09:17**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-f	**14-09-1641-35-A**	**09/16/14 09:14**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-i	**14-09-1641-36-A**	**09/16/14 09:12**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-h	**14-09-1641-37-A**	**09/16/14 09:09**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-g	**14-09-1641-38-A**	**09/16/14 09:00**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-i	**14-09-1641-39-A**	**09/16/14 08:57**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-h	**14-09-1641-40-A**	**09/16/14 08:54**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-g	**14-09-1641-41-A**	**09/16/14 08:51**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-i	**14-09-1641-42-A**	**09/16/14 08:48**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-h	**14-09-1641-43-A**	**09/16/14 08:45**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-g	**14-09-1641-44-A**	**09/16/14 08:41**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-i	**14-09-1641-45-A**	**09/16/14 08:38**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-h	**14-09-1641-46-A**	**09/16/14 08:35**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-g	**14-09-1641-47-A**	**09/16/14 08:30**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8A-b	**14-09-1641-48-A**	**09/16/14 08:26**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9A-a	**14-09-1641-49-A**	**09/16/14 10:06**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-a	**14-09-1641-50-A**	**09/16/14 10:03**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-b	**14-09-1641-51-A**	**09/16/14 10:00**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-c	**14-09-1641-52-A**	**09/16/14 09:57**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-a	**14-09-1641-53-A**	**09/16/14 09:54**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-b	**14-09-1641-54-A**	**09/16/14 09:50**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-c	**14-09-1641-55-A**	**09/16/14 09:46**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-a	**14-09-1641-56-A**	**09/16/14 09:43**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.6	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-b	**14-09-1641-57-A**	**09/16/14 09:39**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-c	**14-09-1641-58-A**	**09/16/14 09:35**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-a	**14-09-1641-59-A**	**09/16/14 09:33**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-b	**14-09-1641-60-A**	**09/16/14 09:30**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-c	**14-09-1641-61-A**	**09/16/14 09:27**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-a	**14-09-1641-62-A**	**09/16/14 09:24**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-b	**14-09-1641-63-A**	**09/16/14 09:20**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-d	**14-09-1641-64-A**	**09/16/14 11:10**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.7	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-c	**14-09-1641-65-A**	**09/16/14 11:06**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-f	**14-09-1641-66-A**	**09/16/14 11:00**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-e	**14-09-1641-67-A**	**09/16/14 10:58**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-d	**14-09-1641-68-A**	**09/16/14 10:54**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-f	**14-09-1641-69-A**	**09/16/14 10:50**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-e	**14-09-1641-70-A**	**09/16/14 10:47**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-d	**14-09-1641-71-A**	**09/16/14 10:44**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-f	**14-09-1641-72-A**	**09/16/14 10:40**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.3	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-e	**14-09-1641-73-A**	**09/16/14 10:37**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-d	**14-09-1641-74-A**	**09/16/14 10:30**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-f	**14-09-1641-75-A**	**09/16/14 10:27**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-e	**14-09-1641-76-A**	**09/16/14 10:24**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-d	**14-09-1641-77-A**	**09/16/14 10:20**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9A-b	**14-09-1641-78-A**	**09/16/14 10:13**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9A-c	**14-09-1641-79-A**	**09/16/14 13:47**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	24.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-g	**14-09-1641-80-A**	**09/16/14 13:45**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.9	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-h	**14-09-1641-81-A**	**09/16/14 13:42**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-i	**14-09-1641-82-A**	**09/16/14 13:33**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-g	**14-09-1641-83-A**	**09/16/14 13:28**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-h	**14-09-1641-84-A**	**09/16/14 13:25**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-i	**14-09-1641-85-A**	**09/16/14 13:20**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-g	**14-09-1641-86-A**	**09/16/14 13:17**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-h	**14-09-1641-87-A**	**09/16/14 13:10**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-i	**14-09-1641-88-A**	**09/16/14 13:04**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.5	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-g	**14-09-1641-89-A**	**09/16/14 13:00**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-h	**14-09-1641-90-A**	**09/16/14 12:57**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-i	**14-09-1641-91-A**	**09/16/14 12:50**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-e	**14-09-1641-92-A**	**09/16/14 12:45**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-f	**14-09-1641-93-A**	**09/16/14 12:40**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-c	**14-09-1641-94-A**	**09/18/14 09:07**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-b	**14-09-1641-95-A**	**09/18/14 09:03**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-a	**14-09-1641-96-A**	**09/18/14 08:45**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.4	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c	**14-09-1641-97-A**	**09/18/14 08:36**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-b	**14-09-1641-98-A**	**09/16/14 14:34**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-a	**14-09-1641-99-A**	**09/16/14 14:30**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-c	**14-09-1641-100-A**	**09/16/14 14:27**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-b	**14-09-1641-101-A**	**09/16/14 14:24**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-a	**14-09-1641-102-A**	**09/16/14 14:21**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-c	**14-09-1641-103-A**	**09/16/14 14:18**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-b	**14-09-1641-104-A**	**09/16/14 14:15**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-a	**14-09-1641-105-A**	**09/16/14 14:12**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-c	**14-09-1641-106-A**	**09/16/14 14:09**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	25.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-b	**14-09-1641-107-A**	**09/16/14 14:06**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	26.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-a	**14-09-1641-108-A**	**09/16/14 14:03**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10A-a	**14-09-1641-109-A**	**09/16/14 13:57**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	3.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10A-b	**14-09-1641-110-A**	**09/16/14 15:41**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	26.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-d	**14-09-1641-111-A**	**09/16/14 15:35**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-e	**14-09-1641-112-A**	**09/16/14 15:31**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-f	**14-09-1641-113-A**	**09/16/14 15:27**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-d	**14-09-1641-114-A**	**09/16/14 15:20**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-e	**14-09-1641-115-A**	**09/16/14 15:18**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-f	**14-09-1641-116-A**	**09/16/14 15:15**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-d	**14-09-1641-117-A**	**09/16/14 15:11**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-e	**14-09-1641-118-A**	**09/16/14 15:06**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-f	**14-09-1641-119-A**	**09/16/14 14:59**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-d	**14-09-1641-120-A**	**09/16/14 14:55**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-e	**14-09-1641-121-A**	**09/16/14 14:48**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-f	**14-09-1641-122-A**	**09/18/14 09:28**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-d	**14-09-1641-123-A**	**09/18/14 09:25**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e	**14-09-1641-124-A**	**09/18/14 09:21**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-f	**14-09-1641-125-A**	**09/18/14 09:15**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-h	**14-09-1641-126-A**	**09/17/14 11:01**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-g	**14-09-1641-127-A**	**09/17/14 10:57**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-i	**14-09-1641-128-A**	**09/17/14 10:53**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.5	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-h	**14-09-1641-129-A**	**09/17/14 10:50**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-g	**14-09-1641-130-A**	**09/17/14 10:45**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-i	**14-09-1641-131-AA**	**09/17/14 10:40**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-h	**14-09-1641-132-A**	**09/17/14 10:26**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-g	**14-09-1641-133-A**	**09/17/14 10:23**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-i	**14-09-1641-134-A**	**09/17/14 10:20**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-h	**14-09-1641-135-A**	**09/17/14 10:15**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-g	**14-09-1641-136-A**	**09/17/14 10:08**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-i	**14-09-1641-137-A**	**09/17/14 10:04**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-h	**14-09-1641-138-A**	**09/17/14 10:00**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-g	**14-09-1641-139-A**	**09/17/14 09:56**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10A-c	**14-09-1641-140-A**	**09/17/14 09:47**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	28.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11A-a	**14-09-1641-141-A**	**09/17/14 13:02**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-a	**14-09-1641-142-A**	**09/17/14 12:56**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-b	**14-09-1641-143-A**	**09/17/14 12:53**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-c	**14-09-1641-144-A**	**09/17/14 12:49**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.3	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-a	**14-09-1641-145-A**	**09/17/14 12:46**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.7	0.100	0.100	0.100	0.100	1.00	

11C-b	**14-09-1641-146-A**	**09/17/14 12:44**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

11C-c	**14-09-1641-147-A**	**09/17/14 12:41**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.40	0.100	0.100	0.100	0.100	1.00	

11D-a	**14-09-1641-148-A**	**09/17/14 11:30**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

11D-b	**14-09-1641-149-A**	**09/17/14 11:27**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.7	0.100	0.100	0.100	0.100	1.00	

11D-c	**14-09-1641-150-A**	**09/17/14 11:24**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.3	0.100	0.100	0.100	0.100	1.00	

11E-a	**14-09-1641-151-A**	**09/17/14 11:19**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.2	0.100	0.100	0.100	0.100	1.00	

11E-b	**14-09-1641-152-A**	**09/17/14 11:16**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-c	**14-09-1641-153-A**	**09/17/14 11:10**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-a	**14-09-1641-154-A**	**09/17/14 11:06**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-b	**14-09-1641-155-A**	**09/17/14 14:01**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-f	**14-09-1641-156-A**	**09/17/14 13:56**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-e	**14-09-1641-157-A**	**09/17/14 13:51**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-d	**14-09-1641-158-A**	**09/17/14 13:47**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-f	**14-09-1641-159-A**	**09/17/14 13:44**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-e	**14-09-1641-160-A**	**09/17/14 13:40**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.6	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-d	**14-09-1641-161-A**	**09/17/14 13:37**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-f	**14-09-1641-162-A**	**09/17/14 13:32**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-e	**14-09-1641-163-A**	**09/17/14 13:29**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-d	**14-09-1641-164-AA**	**09/17/14 13:26**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-f	**14-09-1641-165-A**	**09/17/14 13:23**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-e	**14-09-1641-166-A**	**09/17/14 13:20**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-d	**14-09-1641-167-A**	**09/17/14 13:16**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11A-b	**14-09-1641-168-A**	**09/17/14 13:13**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.30	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11A-c	**14-09-1641-169-A**	**09/17/14 15:16**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-g	**14-09-1641-170-A**	**09/17/14 15:10**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-h	**14-09-1641-171-A**	**09/17/14 15:06**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-i	**14-09-1641-172-A**	**09/17/14 15:03**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-g	**14-09-1641-173-A**	**09/17/14 15:01**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-h	**14-09-1641-174-A**	**09/17/14 14:58**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-i	**14-09-1641-175-A**	**09/17/14 14:55**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-g	**14-09-1641-176-A**	**09/17/14 14:52**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.0	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-h	**14-09-1641-177-A**	**09/17/14 14:50**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-i	**14-09-1641-178-A**	**09/17/14 14:47**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-g	**14-09-1641-179-A**	**09/17/14 14:44**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-h	**14-09-1641-180-A**	**09/17/14 14:42**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-i	**14-09-1641-181-A**	**09/17/14 14:28**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-c	**14-09-1641-182-A**	**09/17/14 14:24**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-a	**14-09-1641-183-A**	**09/17/14 16:17**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-c	**14-09-1641-184-A**	**09/17/14 16:13**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 24 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-b	**14-09-1641-185-A**	**09/17/14 16:05**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-a	**14-09-1641-186-A**	**09/17/14 16:02**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-c	**14-09-1641-187-A**	**09/17/14 16:00**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-b	**14-09-1641-188-A**	**09/17/14 15:57**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-a	**14-09-1641-189-A**	**09/17/14 15:55**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-c	**14-09-1641-190-A**	**09/17/14 15:52**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-b	**14-09-1641-191-A**	**09/17/14 15:49**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-a	**14-09-1641-192-A**	**09/17/14 15:47**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-c	**14-09-1641-193-A**	**09/17/14 15:45**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-b	**14-09-1641-194-A**	**09/17/14 15:42**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-a	**14-09-1641-195-A**	**09/17/14 15:39**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12A-a	**14-09-1641-196-A**	**09/17/14 15:35**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-c	**14-09-1641-197-A**	**09/17/14 16:20**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-b	**14-09-1641-198-A**	**09/17/14 16:23**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-f	**14-09-1641-199-A**	**09/17/14 16:25**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-e	**14-09-1641-200-A**	**09/17/14 16:29**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.9	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-d	**14-09-1641-201-A**	**09/18/14 09:53**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-f	**14-09-1641-202-A**	**09/18/14 09:56**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-e	**14-09-1641-203-A**	**09/18/14 10:00**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-d	**14-09-1641-204-A**	**09/18/14 10:04**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-f	**14-09-1641-205-A**	**09/18/14 10:07**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-e	**14-09-1641-206-A**	**09/18/14 10:10**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-d	**14-09-1641-207-A**	**09/18/14 10:13**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-f	**14-09-1641-208-A**	**09/18/14 10:15**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-e	**14-09-1641-209-A**	**09/18/14 10:18**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-d	**14-09-1641-210-A**	**09/18/14 10:24**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12A-b	**14-09-1641-211-A**	**09/18/14 10:27**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12A-c	**14-09-1641-212-A**	**09/18/14 10:35**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.10	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-g	**14-09-1641-213-A**	**09/18/14 10:38**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-h	**14-09-1641-214-A**	**09/18/14 10:41**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-i	**14-09-1641-215-A**	**09/18/14 10:45**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-g	**14-09-1641-216-A**	**09/18/14 10:48**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.80	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-h	**14-09-1641-217-A**	**09/18/14 10:50**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-i	**14-09-1641-218-A**	**09/18/14 10:53**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-g	**14-09-1641-219-A**	**09/18/14 10:56**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-h	**14-09-1641-220-A**	**09/18/14 10:58**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-i	**14-09-1641-221-A**	**09/18/14 11:01**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-g	**14-09-1641-222-A**	**09/18/14 11:04**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-h	**14-09-1641-223-A**	**09/18/14 11:09**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-i	**14-09-1641-224-A**	**09/18/14 11:13**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-d	**14-09-1641-225-A**	**09/18/14 11:17**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-e	**14-09-1641-226-A**	**09/18/14 11:19**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-b	**14-09-1641-227-A**	**09/18/14 11:31**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-a	**14-09-1641-228-A**	**09/18/14 11:38**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-c	**14-09-1641-229-A**	**09/18/14 11:42**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-b	**14-09-1641-230-A**	**09/18/14 11:45**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-a	**14-09-1641-231-A**	**09/18/14 11:48**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-c	**14-09-1641-232-A**	**09/18/14 13:24**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-b	**14-09-1641-233-A**	**09/18/14 13:28**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-a	**14-09-1641-234-A**	**09/18/14 13:32**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-c	**14-09-1641-235-A**	**09/18/14 13:35**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-b	**14-09-1641-236-A**	**09/18/14 13:37**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-a	**14-09-1641-237-A**	**09/18/14 13:40**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-c	**14-09-1641-238-A**	**09/18/14 13:42**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-b	**14-09-1641-239-A**	**09/18/14 13:46**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-a	**14-09-1641-240-A**	**09/18/14 13:48**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.70	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 31 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13A-a	**14-09-1641-241-A**	**09/18/14 13:51**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13A-b	**14-09-1641-242-A**	**09/18/14 14:21**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-d	**14-09-1641-243-A**	**09/18/14 14:28**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-e	**14-09-1641-244-A**	**09/18/14 14:34**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-f	**14-09-1641-245-A**	**09/18/14 14:38**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-d	**14-09-1641-246-A**	**09/18/14 14:41**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-e	**14-09-1641-247-A**	**09/18/14 14:44**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-f	**14-09-1641-248-A**	**09/18/14 14:47**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-d	**14-09-1641-249-A**	**09/18/14 14:50**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-e	**14-09-1641-250-A**	**09/18/14 14:54**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-f	**14-09-1641-251-A**	**09/18/14 14:57**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-d	**14-09-1641-252-A**	**09/18/14 15:00**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-e	**14-09-1641-253-A**	**09/18/14 15:04**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	4.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-f	**14-09-1641-254-A**	**09/18/14 15:07**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-c	**14-09-1641-255-A**	**09/18/14 15:10**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-d	**14-09-1641-256-A**	**09/18/14 15:15**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.1	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140915DUP-1	**14-09-1641-257-A**	**09/15/14 12:00**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140915DUP-2	**14-09-1641-258-A**	**09/15/14 12:00**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140915DUP-3	**14-09-1641-259-A**	**09/15/14 12:00**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-1	**14-09-1641-260-A**	**09/16/14 12:00**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-2	**14-09-1641-261-A**	**09/16/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-3	**14-09-1641-262-A**	**09/16/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-4	**14-09-1641-263-A**	**09/16/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-5	**14-09-1641-264-A**	**09/16/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.6	0.100	0.100	0.100	0.100	1.00	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-1	**14-09-1641-265-A**	**09/17/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	5.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-2	**14-09-1641-266-A**	**09/17/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	7.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-3	**14-09-1641-267-A**	**09/17/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.00	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-4	**14-09-1641-268-A**	**09/17/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-1	**14-09-1641-269-A**	**09/18/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-2	**14-09-1641-270-A**	**09/18/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.90	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-3	**14-09-1641-271-A**	**09/18/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.30	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-4	**14-09-1641-272-A**	**09/18/14 12:00**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.80	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4843**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/22/14 17:55**	**E0922MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4844**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/22/14 18:30**	**E0922MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4845**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/22/14 19:15**	**E0922MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4846**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/22/14 20:00**	**E0922MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4847**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:40**	**E0923MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4849**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/23/14 10:55**	**E0923MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4850**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:00**	**E0923MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4851**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:45**	**E0923MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4852**	**N/A**	**Solid**	**N/A**	**09/22/14**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Method Blank	**099-05-014-4857**	**N/A**	**Solid**	**N/A**	**09/23/14**	**09/23/14 16:50**	**E0923MOIB7**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Method Blank	**099-05-014-4853**	**N/A**	**Solid**	**N/A**	**09/24/14**	**09/24/14 16:40**	**E0924MOIB3**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Method Blank	**099-05-014-4854**	**N/A**	**Solid**	**N/A**	**09/24/14**	**09/24/14 17:40**	**E0924MOIB4**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Method Blank	**099-05-014-4855**	**N/A**	**Solid**	**N/A**	**09/24/14**	**09/24/14 18:30**	**E0924MOIB5**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Method Blank	**099-05-014-4856**	**N/A**	**Solid**	**N/A**	**09/24/14**	**09/24/14 19:15**	**E0924MOIB6**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: TX 1005
Method: TX 1005
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b	**14-09-1641-5-A**	**09/18/14 08:25**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 20:18**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	57	5.6	50	4.9	0.990	
TPH Gas/Diesel (C12-C28)	ND	57	5.6	50	4.9	0.990	
TPH Gas/Diesel (C28-C35)	ND	57	5.6	50	4.9	0.990	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	99	70-130	
1-Chlorooctadecane	80	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-c	**14-09-1641-94-B**	**09/18/14 09:07**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 20:37**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	56	5.5	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	56	5.5	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	7.0	56	5.5	50	4.9	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	100	70-130	
1-Chlorooctadecane	92	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-b	**14-09-1641-95-B**	**09/18/14 09:03**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 20:54**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	57	5.6	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	57	5.6	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	9.6	57	5.6	50	4.9	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	107	70-130	
1-Chlorooctadecane	94	70-130	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: TX 1005
Method: TX 1005
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-a	**14-09-1641-96-A**	**09/18/14 08:45**	**Solid**	**GC 50**	**09/22/14**	**09/25/14 22:26**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	57	5.6	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	30	57	5.6	50	4.9	1.00	J
TPH Gas/Diesel (C28-C35)	190	57	5.6	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	108	70-130	
1-Chlorooctadecane	129	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c	**14-09-1641-97-A**	**09/18/14 08:36**	**Solid**	**GC 50**	**09/22/14**	**09/25/14 22:42**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	57	5.6	50	4.9	0.980	
TPH Gas/Diesel (C12-C28)	9.3	57	5.6	50	4.9	0.980	J
TPH Gas/Diesel (C28-C35)	78	57	5.6	50	4.9	0.980	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	124	70-130	
1-Chlorooctadecane	130	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-f	**14-09-1641-122-A**	**09/18/14 09:28**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 21:50**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	54	5.3	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	54	5.3	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	7.4	54	5.3	50	4.9	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	101	70-130	
1-Chlorooctadecane	81	70-130	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	TX 1005
		Method:	TX 1005
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-d	**14-09-1641-123-B**	**09/18/14 09:25**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 22:09**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	53	5.2	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	53	5.2	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	ND	53	5.2	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	93	70-130	
1-Chlorooctadecane	106	70-130	

10F-e	**14-09-1641-124-B**	**09/18/14 09:21**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 22:25**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	54	5.3	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	54	5.3	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	ND	54	5.3	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	128	70-130	
1-Chlorooctadecane	130	70-130	

10F-f	**14-09-1641-125-A**	**09/18/14 09:15**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 22:44**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	54	5.3	50	4.9	1.01	
TPH Gas/Diesel (C12-C28)	ND	54	5.3	50	4.9	1.01	
TPH Gas/Diesel (C28-C35)	21	54	5.3	50	4.9	1.01	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	127	70-130	
1-Chlorooctadecane	124	70-130	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: TX 1005
Method: TX 1005
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-1	**14-09-1641-269-A**	**09/18/14 12:00**	**Solid**	**GC 50**	**09/22/14**	**09/24/14 23:03**	**140923B11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	54	5.3	50	4.9	0.980	
TPH Gas/Diesel (C12-C28)	ND	54	5.3	50	4.9	0.980	
TPH Gas/Diesel (C28-C35)	ND	54	5.3	50	4.9	0.980	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	94	70-130	
1-Chlorooctadecane	91	70-130	

Method Blank	099-15-204-63	N/A	Solid	GC 50	09/22/14	09/24/14 19:06	140923B11

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	50	4.9	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	50	4.9	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	ND	50	4.9	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	107	70-130	
1-Chlorooctadecane	92	70-130	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-c	**14-09-1641-1-A**	**09/15/14 15:32**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:13**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.97	1.17	0.454	1.00	0.389	1.00	
Cadmium	0.775	1.17	0.140	1.00	0.120	1.00	J
Lead	40.0	1.17	0.160	1.00	0.137	1.00	
Selenium	0.781	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-b	**14-09-1641-2-A**	**09/15/14 15:27**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:44**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.56	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.686	1.11	0.133	1.00	0.120	1.00	J
Lead	34.8	1.11	0.153	1.00	0.137	1.00	
Selenium	0.615	1.11	0.294	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-a	**14-09-1641-3-A**	**09/15/14 15:20**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:46**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.50	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.760	1.12	0.134	1.00	0.120	1.00	J
Lead	47.4	1.12	0.154	1.00	0.137	1.00	
Selenium	0.783	1.12	0.296	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-c	**14-09-1641-4-A**	**09/15/14 15:13**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:48**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.58	1.10	0.429	1.00	0.389	1.00	
Cadmium	1.08	1.10	0.132	1.00	0.120	1.00	J
Lead	72.8	1.10	0.151	1.00	0.137	1.00	
Selenium	1.19	1.10	0.291	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b	**14-09-1641-5-A**	**09/18/14 08:25**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:49**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.15	1.16	0.452	1.00	0.389	1.00	
Cadmium	1.27	1.16	0.139	1.00	0.120	1.00	
Lead	37.8	1.16	0.159	1.00	0.137	1.00	
Selenium	1.03	1.16	0.306	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-a	**14-09-1641-6-A**	**09/15/14 15:07**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:51**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.95	1.19	0.464	1.00	0.389	1.00	
Cadmium	0.617	1.19	0.143	1.00	0.120	1.00	J
Lead	27.0	1.19	0.163	1.00	0.137	1.00	
Selenium	0.481	1.19	0.315	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-c	**14-09-1641-7-A**	**09/15/14 15:03**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:53**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.40	1.12	0.438	1.00	0.389	1.00	
Cadmium	0.525	1.12	0.135	1.00	0.120	1.00	J
Lead	25.5	1.12	0.154	1.00	0.137	1.00	
Selenium	0.768	1.12	0.297	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-b	**14-09-1641-8-A**	**09/15/14 15:00**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:55**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.49	1.17	0.454	1.00	0.389	1.00	
Cadmium	0.588	1.17	0.140	1.00	0.120	1.00	J
Lead	25.7	1.17	0.160	1.00	0.137	1.00	
Selenium	0.467	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-a	**14-09-1641-9-A**	**09/15/14 14:57**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:10**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.52	1.14	0.444	1.00	0.389	1.00	
Cadmium	0.617	1.14	0.137	1.00	0.120	1.00	J
Lead	25.4	1.14	0.157	1.00	0.137	1.00	
Selenium	0.850	1.14	0.301	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-c	**14-09-1641-10-A**	**09/15/14 14:54**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:12**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.07	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.674	1.11	0.134	1.00	0.120	1.00	J
Lead	26.6	1.11	0.153	1.00	0.137	1.00	
Selenium	0.592	1.11	0.294	1.00	0.264	1.00	J

8D-b	**14-09-1641-11-A**	**09/15/14 14:50**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:14**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.49	1.15	0.447	1.00	0.389	1.00	
Cadmium	0.753	1.15	0.138	1.00	0.120	1.00	J
Lead	25.2	1.15	0.158	1.00	0.137	1.00	
Selenium	0.674	1.15	0.303	1.00	0.264	1.00	J

8D-a	**14-09-1641-12-A**	**09/15/14 14:46**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:15**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.33	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.593	1.16	0.140	1.00	0.120	1.00	J
Lead	25.2	1.16	0.160	1.00	0.137	1.00	
Selenium	0.577	1.16	0.307	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-c	**14-09-1641-13-A**	**09/15/14 14:42**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:17**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.31	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.597	1.12	0.135	1.00	0.120	1.00	J
Lead	25.1	1.12	0.154	1.00	0.137	1.00	
Selenium	0.797	1.12	0.296	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-b	**14-09-1641-14-A**	**09/15/14 14:38**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:19**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.70	1.18	0.457	1.00	0.389	1.00	
Cadmium	0.689	1.18	0.141	1.00	0.120	1.00	J
Lead	27.4	1.18	0.161	1.00	0.137	1.00	
Selenium	0.610	1.18	0.310	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-a	**14-09-1641-15-A**	**09/15/14 14:34**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:20**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.13	0.439	1.00	0.389	1.00	
Cadmium	0.941	1.13	0.135	1.00	0.120	1.00	J
Lead	41.6	1.13	0.155	1.00	0.137	1.00	
Selenium	0.879	1.13	0.298	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-c	**14-09-1641-16-A**	**09/15/14 14:29**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:22**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.45	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.528	1.12	0.135	1.00	0.120	1.00	J
Lead	23.8	1.12	0.154	1.00	0.137	1.00	
Selenium	0.783	1.12	0.296	1.00	0.264	1.00	J

8B-b	**14-09-1641-17-A**	**09/15/14 14:20**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:24**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.49	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.480	1.11	0.133	1.00	0.120	1.00	J
Lead	23.9	1.11	0.153	1.00	0.137	1.00	
Selenium	0.752	1.11	0.294	1.00	0.264	1.00	J

8B-a	**14-09-1641-18-A**	**09/15/14 14:15**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:25**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.08	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.412	1.11	0.133	1.00	0.120	1.00	J
Lead	12.3	1.11	0.152	1.00	0.137	1.00	
Selenium	0.358	1.11	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8A-a	**14-09-1641-19-A**	**09/15/14 16:31**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:31**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.15	1.06	0.415	1.00	0.389	1.00	
Cadmium	0.445	1.06	0.128	1.00	0.120	1.00	J
Lead	16.5	1.06	0.146	1.00	0.137	1.00	
Selenium	1.29	1.06	0.281	1.00	0.264	1.00	

8B-d	**14-09-1641-20-A**	**09/15/14 16:28**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:32**	**140925L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.09	1.13	0.440	1.00	0.389	1.00	
Cadmium	0.577	1.13	0.136	1.00	0.120	1.00	J
Lead	24.7	1.13	0.155	1.00	0.137	1.00	
Selenium	0.575	1.13	0.299	1.00	0.264	1.00	J

8B-e	**14-09-1641-21-A**	**09/15/14 16:25**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:19**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.69	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.557	1.13	0.136	1.00	0.120	1.00	J
Lead	23.1	1.13	0.155	1.00	0.137	1.00	
Selenium	0.667	1.13	0.299	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-f	**14-09-1641-22-A**	**09/15/14 16:23**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:34**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.17	1.18	0.458	1.00	0.389	1.00	
Cadmium	0.580	1.18	0.141	1.00	0.120	1.00	J
Lead	24.3	1.18	0.161	1.00	0.137	1.00	
Selenium	0.607	1.18	0.311	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-d	**14-09-1641-23-A**	**09/15/14 16:20**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:36**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.39	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.594	1.16	0.139	1.00	0.120	1.00	J
Lead	27.6	1.16	0.159	1.00	0.137	1.00	
Selenium	0.603	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-e	**14-09-1641-24-A**	**09/15/14 16:17**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:38**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.75	1.17	0.454	1.00	0.389	1.00	
Cadmium	0.595	1.17	0.140	1.00	0.120	1.00	J
Lead	26.3	1.17	0.160	1.00	0.137	1.00	
Selenium	0.704	1.17	0.308	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-f	**14-09-1641-25-A**	**09/15/14 16:14**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:39**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.40	1.15	0.446	1.00	0.389	1.00	
Cadmium	0.559	1.15	0.138	1.00	0.120	1.00	J
Lead	26.1	1.15	0.157	1.00	0.137	1.00	
Selenium	0.631	1.15	0.303	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-d	**14-09-1641-26-A**	**09/15/14 16:09**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:41**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.00	1.15	0.447	1.00	0.389	1.00	
Cadmium	0.543	1.15	0.138	1.00	0.120	1.00	J
Lead	24.4	1.15	0.158	1.00	0.137	1.00	
Selenium	0.690	1.15	0.303	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-e	**14-09-1641-27-A**	**09/15/14 16:06**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:43**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.17	1.19	0.464	1.00	0.389	1.00	
Cadmium	0.543	1.19	0.143	1.00	0.120	1.00	J
Lead	19.4	1.19	0.163	1.00	0.137	1.00	
Selenium	0.583	1.19	0.315	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-f	**14-09-1641-28-A**	**09/15/14 16:03**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:44**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.43	1.18	0.457	1.00	0.389	1.00	
Cadmium	0.532	1.18	0.141	1.00	0.120	1.00	J
Lead	24.3	1.18	0.161	1.00	0.137	1.00	
Selenium	0.573	1.18	0.310	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-d	**14-09-1641-29-A**	**09/15/14 16:00**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:46**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.13	1.17	0.456	1.00	0.389	1.00	
Cadmium	0.507	1.17	0.141	1.00	0.120	1.00	J
Lead	23.1	1.17	0.161	1.00	0.137	1.00	
Selenium	0.609	1.17	0.309	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-e	**14-09-1641-30-A**	**09/15/14 15:56**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:51**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.38	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.644	1.16	0.139	1.00	0.120	1.00	J
Lead	27.3	1.16	0.159	1.00	0.137	1.00	
Selenium	0.618	1.16	0.307	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-f	**14-09-1641-31-A**	**09/15/14 15:54**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:53**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.70	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.619	1.16	0.140	1.00	0.120	1.00	J
Lead	24.3	1.16	0.160	1.00	0.137	1.00	
Selenium	0.735	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-d	**14-09-1641-32-A**	**09/15/14 15:51**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:55**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.57	1.18	0.461	1.00	0.389	1.00	
Cadmium	0.638	1.18	0.142	1.00	0.120	1.00	J
Lead	25.5	1.18	0.162	1.00	0.137	1.00	
Selenium	0.867	1.18	0.312	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-e	**14-09-1641-33-A**	**09/15/14 15:41**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:56**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.64	1.19	0.462	1.00	0.389	1.00	
Cadmium	0.621	1.19	0.142	1.00	0.120	1.00	J
Lead	37.9	1.19	0.163	1.00	0.137	1.00	
Selenium	0.658	1.19	0.314	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 12 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-g	**14-09-1641-34-A**	**09/16/14 09:17**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 18:58**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.24	1.20	0.466	1.00	0.389	1.00	
Cadmium	0.732	1.20	0.143	1.00	0.120	1.00	J
Lead	30.8	1.20	0.164	1.00	0.137	1.00	
Selenium	0.582	1.20	0.316	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-f	**14-09-1641-35-A**	**09/16/14 09:14**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:00**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.65	1.19	0.462	1.00	0.389	1.00	
Cadmium	0.637	1.19	0.142	1.00	0.120	1.00	J
Lead	26.4	1.19	0.163	1.00	0.137	1.00	
Selenium	0.548	1.19	0.314	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-i	**14-09-1641-36-A**	**09/16/14 09:12**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:02**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.88	1.18	0.460	1.00	0.389	1.00	
Cadmium	0.785	1.18	0.142	1.00	0.120	1.00	J
Lead	24.7	1.18	0.162	1.00	0.137	1.00	
Selenium	0.915	1.18	0.312	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-h	**14-09-1641-37-A**	**09/16/14 09:09**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:03**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.60	1.17	0.455	1.00	0.389	1.00	
Cadmium	0.607	1.17	0.140	1.00	0.120	1.00	J
Lead	27.9	1.17	0.160	1.00	0.137	1.00	
Selenium	0.805	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8E-g	**14-09-1641-38-A**	**09/16/14 09:00**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:05**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.77	1.15	0.448	1.00	0.389	1.00	
Cadmium	0.512	1.15	0.138	1.00	0.120	1.00	J
Lead	23.6	1.15	0.158	1.00	0.137	1.00	
Selenium	0.470	1.15	0.304	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-i	**14-09-1641-39-A**	**09/16/14 08:57**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:07**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.34	1.12	0.435	1.00	0.389	1.00	
Cadmium	0.559	1.12	0.134	1.00	0.120	1.00	J
Lead	24.1	1.12	0.153	1.00	0.137	1.00	
Selenium	0.638	1.12	0.295	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-h	**14-09-1641-40-A**	**09/16/14 08:54**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:22**	**140925L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.20	1.20	0.469	1.00	0.389	1.00	
Cadmium	0.561	1.20	0.144	1.00	0.120	1.00	J
Lead	25.6	1.20	0.165	1.00	0.137	1.00	
Selenium	0.764	1.20	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8D-g	**14-09-1641-41-A**	**09/16/14 08:51**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:20**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.32	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.551	1.16	0.139	1.00	0.120	1.00	J
Lead	24.0	1.16	0.159	1.00	0.137	1.00	
Selenium	0.657	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-i	**14-09-1641-42-A**	**09/16/14 08:48**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:24**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.76	1.15	0.446	1.00	0.389	1.00	
Cadmium	0.515	1.15	0.138	1.00	0.120	1.00	J
Lead	23.0	1.15	0.157	1.00	0.137	1.00	
Selenium	0.557	1.15	0.303	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-h	**14-09-1641-43-A**	**09/16/14 08:45**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:26**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.53	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.520	1.12	0.135	1.00	0.120	1.00	J
Lead	24.4	1.12	0.154	1.00	0.137	1.00	
Selenium	0.587	1.12	0.297	1.00	0.264	1.00	J

8C-g	**14-09-1641-44-A**	**09/16/14 08:41**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:27**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.85	1.15	0.447	1.00	0.389	1.00	
Cadmium	0.504	1.15	0.138	1.00	0.120	1.00	J
Lead	23.7	1.15	0.157	1.00	0.137	1.00	
Selenium	0.457	1.15	0.303	1.00	0.264	1.00	J

8B-i	**14-09-1641-45-A**	**09/16/14 08:38**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:29**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.43	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.487	1.16	0.139	1.00	0.120	1.00	J
Lead	24.2	1.16	0.159	1.00	0.137	1.00	
Selenium	0.840	1.16	0.307	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-h	**14-09-1641-46-A**	**09/16/14 08:35**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:31**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.95	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.510	1.14	0.137	1.00	0.120	1.00	J
Lead	25.0	1.14	0.157	1.00	0.137	1.00	
Selenium	1.09	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8B-g	**14-09-1641-47-A**	**09/16/14 08:30**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:32**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.16	1.15	0.450	1.00	0.389	1.00	
Cadmium	0.531	1.15	0.138	1.00	0.120	1.00	J
Lead	26.3	1.15	0.158	1.00	0.137	1.00	
Selenium	0.848	1.15	0.305	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8A-b	**14-09-1641-48-A**	**09/16/14 08:26**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:34**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.89	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.417	1.08	0.129	1.00	0.120	1.00	J
Lead	16.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.545	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9A-a	**14-09-1641-49-A**	**09/16/14 10:06**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:36**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.12	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.491	1.09	0.131	1.00	0.120	1.00	J
Lead	16.3	1.09	0.149	1.00	0.137	1.00	
Selenium	0.510	1.09	0.288	1.00	0.264	1.00	J

9B-a	**14-09-1641-50-A**	**09/16/14 10:03**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:37**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.67	1.14	0.443	1.00	0.389	1.00	
Cadmium	0.450	1.14	0.136	1.00	0.120	1.00	J
Lead	23.9	1.14	0.156	1.00	0.137	1.00	
Selenium	0.796	1.14	0.300	1.00	0.264	1.00	J

9B-b	**14-09-1641-51-A**	**09/16/14 10:00**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:43**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.45	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.484	1.16	0.139	1.00	0.120	1.00	J
Lead	24.5	1.16	0.159	1.00	0.137	1.00	
Selenium	0.667	1.16	0.306	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-c	**14-09-1641-52-A**	**09/16/14 09:57**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:44**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.94	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.568	1.13	0.135	1.00	0.120	1.00	J
Lead	25.5	1.13	0.154	1.00	0.137	1.00	
Selenium	0.744	1.13	0.297	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-a	**14-09-1641-53-A**	**09/16/14 09:54**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:46**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.25	1.15	0.447	1.00	0.389	1.00	
Cadmium	0.549	1.15	0.138	1.00	0.120	1.00	J
Lead	23.8	1.15	0.158	1.00	0.137	1.00	
Selenium	0.854	1.15	0.303	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-b	**14-09-1641-54-A**	**09/16/14 09:50**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:48**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.46	1.13	0.440	1.00	0.389	1.00	
Cadmium	0.522	1.13	0.136	1.00	0.120	1.00	J
Lead	23.5	1.13	0.155	1.00	0.137	1.00	
Selenium	0.691	1.13	0.299	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-c	**14-09-1641-55-A**	**09/16/14 09:46**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:49**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.66	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.440	1.12	0.134	1.00	0.120	1.00	J
Lead	21.4	1.12	0.154	1.00	0.137	1.00	
Selenium	0.542	1.12	0.296	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-a	**14-09-1641-56-A**	**09/16/14 09:43**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:51**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.45	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.572	1.14	0.137	1.00	0.120	1.00	J
Lead	25.8	1.14	0.157	1.00	0.137	1.00	
Selenium	0.720	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-b	**14-09-1641-57-A**	**09/16/14 09:39**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:53**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.94	1.14	0.443	1.00	0.389	1.00	
Cadmium	0.534	1.14	0.137	1.00	0.120	1.00	J
Lead	24.9	1.14	0.156	1.00	0.137	1.00	
Selenium	0.665	1.14	0.301	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 20 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-c	**14-09-1641-58-A**	**09/16/14 09:35**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:55**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.50	1.15	0.446	1.00	0.389	1.00	
Cadmium	0.513	1.15	0.137	1.00	0.120	1.00	J
Lead	25.0	1.15	0.157	1.00	0.137	1.00	
Selenium	0.652	1.15	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-a	**14-09-1641-59-A**	**09/16/14 09:33**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:56**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.27	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.628	1.13	0.136	1.00	0.120	1.00	J
Lead	24.6	1.13	0.155	1.00	0.137	1.00	
Selenium	0.659	1.13	0.299	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-b	**14-09-1641-60-A**	**09/16/14 09:30**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 19:58**	**140925L03**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.27	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.631	1.16	0.139	1.00	0.120	1.00	J
Lead	26.3	1.16	0.159	1.00	0.137	1.00	
Selenium	0.785	1.16	0.306	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-c	**14-09-1641-61-A**	**09/16/14 09:27**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:22**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.82	1.18	0.460	1.00	0.389	1.00	
Cadmium	0.641	1.18	0.142	1.00	0.120	1.00	J
Lead	25.0	1.18	0.162	1.00	0.137	1.00	
Selenium	0.868	1.18	0.312	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-a	**14-09-1641-62-A**	**09/16/14 09:24**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:03**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.52	1.17	0.455	1.00	0.389	1.00	
Cadmium	0.702	1.17	0.140	1.00	0.120	1.00	J
Lead	25.8	1.17	0.160	1.00	0.137	1.00	
Selenium	0.613	1.17	0.309	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-b	**14-09-1641-63-A**	**09/16/14 09:20**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:05**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.50	1.18	0.460	1.00	0.389	1.00	
Cadmium	0.632	1.18	0.142	1.00	0.120	1.00	J
Lead	30.9	1.18	0.162	1.00	0.137	1.00	
Selenium	0.792	1.18	0.312	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 22 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-d	**14-09-1641-64-A**	**09/16/14 11:10**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:07**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.31	1.19	0.462	1.00	0.389	1.00	
Cadmium	0.740	1.19	0.142	1.00	0.120	1.00	J
Lead	33.0	1.19	0.163	1.00	0.137	1.00	
Selenium	0.744	1.19	0.313	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-c	**14-09-1641-65-A**	**09/16/14 11:06**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:08**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.02	1.20	0.468	1.00	0.389	1.00	
Cadmium	0.718	1.20	0.144	1.00	0.120	1.00	J
Lead	26.3	1.20	0.165	1.00	0.137	1.00	
Selenium	0.757	1.20	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-f	**14-09-1641-66-A**	**09/16/14 11:00**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:10**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.57	1.19	0.464	1.00	0.389	1.00	
Cadmium	0.714	1.19	0.143	1.00	0.120	1.00	J
Lead	27.9	1.19	0.163	1.00	0.137	1.00	
Selenium	0.659	1.19	0.315	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-e	**14-09-1641-67-A**	**09/16/14 10:58**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:12**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.51	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.584	1.16	0.139	1.00	0.120	1.00	J
Lead	25.2	1.16	0.159	1.00	0.137	1.00	
Selenium	0.591	1.16	0.306	1.00	0.264	1.00	J

9E-d	**14-09-1641-68-A**	**09/16/14 10:54**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:13**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.98	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.566	1.16	0.139	1.00	0.120	1.00	J
Lead	25.7	1.16	0.159	1.00	0.137	1.00	
Selenium	0.612	1.16	0.307	1.00	0.264	1.00	J

9D-f	**14-09-1641-69-A**	**09/16/14 10:50**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:15**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.58	1.16	0.451	1.00	0.389	1.00	
Cadmium	0.641	1.16	0.139	1.00	0.120	1.00	J
Lead	26.4	1.16	0.159	1.00	0.137	1.00	
Selenium	0.753	1.16	0.306	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-e	**14-09-1641-70-A**	**09/16/14 10:47**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:17**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.35	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.528	1.13	0.136	1.00	0.120	1.00	J
Lead	23.9	1.13	0.155	1.00	0.137	1.00	
Selenium	0.788	1.13	0.299	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-d	**14-09-1641-71-A**	**09/16/14 10:44**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:19**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.61	1.14	0.444	1.00	0.389	1.00	
Cadmium	0.516	1.14	0.137	1.00	0.120	1.00	J
Lead	23.2	1.14	0.156	1.00	0.137	1.00	
Selenium	0.585	1.14	0.301	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-f	**14-09-1641-72-A**	**09/16/14 10:40**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:34**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.30	1.14	0.444	1.00	0.389	1.00	
Cadmium	0.544	1.14	0.137	1.00	0.120	1.00	J
Lead	23.8	1.14	0.156	1.00	0.137	1.00	
Selenium	0.538	1.14	0.301	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 25 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-e	**14-09-1641-73-A**	**09/16/14 10:37**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:36**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.59	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.530	1.12	0.135	1.00	0.120	1.00	J
Lead	22.4	1.12	0.154	1.00	0.137	1.00	
Selenium	0.434	1.12	0.296	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-d	**14-09-1641-74-A**	**09/16/14 10:30**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:37**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.25	1.14	0.443	1.00	0.389	1.00	
Cadmium	0.516	1.14	0.136	1.00	0.120	1.00	J
Lead	23.8	1.14	0.156	1.00	0.137	1.00	
Selenium	0.651	1.14	0.300	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-f	**14-09-1641-75-A**	**09/16/14 10:27**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:39**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.81	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.551	1.13	0.135	1.00	0.120	1.00	J
Lead	24.8	1.13	0.154	1.00	0.137	1.00	
Selenium	0.520	1.13	0.297	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-e	**14-09-1641-76-A**	**09/16/14 10:24**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:41**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	4.78	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.378	1.11	0.133	1.00	0.120	1.00	J
Lead	20.1	1.11	0.152	1.00	0.137	1.00	
Selenium	0.611	1.11	0.293	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-d	**14-09-1641-77-A**	**09/16/14 10:20**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:43**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.22	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.428	1.14	0.137	1.00	0.120	1.00	J
Lead	21.0	1.14	0.157	1.00	0.137	1.00	
Selenium	0.589	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9A-b	**14-09-1641-78-A**	**09/16/14 10:13**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:44**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.78	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.393	1.08	0.130	1.00	0.120	1.00	J
Lead	12.7	1.08	0.149	1.00	0.137	1.00	
Selenium	0.509	1.08	0.286	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9A-c	**14-09-1641-79-A**	**09/16/14 13:47**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:46**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.33	0.518	1.00	0.389	1.00	
Cadmium	0.360	1.33	0.160	1.00	0.120	1.00	J
Lead	14.0	1.33	0.183	1.00	0.137	1.00	
Selenium	0.534	1.33	0.352	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-g	**14-09-1641-80-A**	**09/16/14 13:45**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:48**	**140925L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.67	1.19	0.463	1.00	0.389	1.00	
Cadmium	0.483	1.19	0.143	1.00	0.120	1.00	J
Lead	28.3	1.19	0.163	1.00	0.137	1.00	
Selenium	0.525	1.19	0.314	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-h	**14-09-1641-81-A**	**09/16/14 13:42**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:24**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.18	1.16	0.451	1.00	0.389	1.00	
Cadmium	0.629	1.16	0.139	1.00	0.120	1.00	J
Lead	32.3	1.16	0.159	1.00	0.137	1.00	
Selenium	0.543	1.16	0.306	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-i	**14-09-1641-82-A**	**09/16/14 13:33**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 20:49**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.56	1.13	0.440	1.00	0.389	1.00	
Cadmium	0.543	1.13	0.136	1.00	0.120	1.00	J
Lead	26.8	1.13	0.155	1.00	0.137	1.00	
Selenium	0.520	1.13	0.299	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-g	**14-09-1641-83-A**	**09/16/14 13:28**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:10**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.98	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.565	1.13	0.136	1.00	0.120	1.00	J
Lead	29.6	1.13	0.155	1.00	0.137	1.00	
Selenium	0.836	1.13	0.299	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-h	**14-09-1641-84-A**	**09/16/14 13:25**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:12**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.17	1.16	0.450	1.00	0.389	1.00	
Cadmium	0.479	1.16	0.139	1.00	0.120	1.00	J
Lead	25.7	1.16	0.158	1.00	0.137	1.00	
Selenium	0.581	1.16	0.305	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9C-i	**14-09-1641-85-A**	**09/16/14 13:20**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:13**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.55	1.14	0.442	1.00	0.389	1.00	
Cadmium	0.525	1.14	0.136	1.00	0.120	1.00	J
Lead	26.6	1.14	0.156	1.00	0.137	1.00	
Selenium	0.588	1.14	0.300	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-g	**14-09-1641-86-A**	**09/16/14 13:17**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:15**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.21	1.13	0.439	1.00	0.389	1.00	
Cadmium	0.544	1.13	0.135	1.00	0.120	1.00	J
Lead	24.6	1.13	0.155	1.00	0.137	1.00	
Selenium	0.568	1.13	0.298	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-h	**14-09-1641-87-A**	**09/16/14 13:10**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:17**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.52	1.19	0.465	1.00	0.389	1.00	
Cadmium	0.599	1.19	0.143	1.00	0.120	1.00	J
Lead	23.8	1.19	0.164	1.00	0.137	1.00	
Selenium	0.657	1.19	0.315	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9D-i	**14-09-1641-88-A**	**09/16/14 13:04**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:18**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.51	1.20	0.466	1.00	0.389	1.00	
Cadmium	0.576	1.20	0.144	1.00	0.120	1.00	J
Lead	28.1	1.20	0.164	1.00	0.137	1.00	
Selenium	0.685	1.20	0.316	1.00	0.264	1.00	J

9E-g	**14-09-1641-89-A**	**09/16/14 13:00**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:20**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.32	1.13	0.440	1.00	0.389	1.00	
Cadmium	0.522	1.13	0.135	1.00	0.120	1.00	J
Lead	28.0	1.13	0.155	1.00	0.137	1.00	
Selenium	0.807	1.13	0.298	1.00	0.264	1.00	J

9E-h	**14-09-1641-90-A**	**09/16/14 12:57**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:22**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.84	1.20	0.468	1.00	0.389	1.00	
Cadmium	0.616	1.20	0.144	1.00	0.120	1.00	J
Lead	27.7	1.20	0.165	1.00	0.137	1.00	
Selenium	0.430	1.20	0.317	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9E-i	**14-09-1641-91-A**	**09/16/14 12:50**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:35**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.50	1.23	0.480	1.00	0.389	1.00	
Cadmium	0.685	1.23	0.148	1.00	0.120	1.00	J
Lead	52.8	1.23	0.169	1.00	0.137	1.00	
Selenium	0.791	1.23	0.326	1.00	0.264	1.00	J

9F-e	**14-09-1641-92-A**	**09/16/14 12:45**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:37**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.70	1.11	0.434	1.00	0.389	1.00	
Cadmium	3.67	1.11	0.134	1.00	0.120	1.00	
Lead	128	1.11	0.153	1.00	0.137	1.00	
Selenium	0.691	1.11	0.294	1.00	0.264	1.00	J

9F-f	**14-09-1641-93-A**	**09/16/14 12:40**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:38**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.3	1.19	0.465	1.00	0.389	1.00	
Cadmium	1.04	1.19	0.143	1.00	0.120	1.00	J
Lead	111	1.19	0.164	1.00	0.137	1.00	
Selenium	0.868	1.19	0.315	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-c	**14-09-1641-94-A**	**09/18/14 09:07**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:40**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	4.81	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.738	1.12	0.134	1.00	0.120	1.00	J
Lead	10.3	1.12	0.153	1.00	0.137	1.00	
Selenium	0.380	1.12	0.295	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-b	**14-09-1641-95-A**	**09/18/14 09:03**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:42**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.73	1.13	0.441	1.00	0.389	1.00	
Cadmium	1.61	1.13	0.136	1.00	0.120	1.00	
Lead	47.7	1.13	0.155	1.00	0.137	1.00	
Selenium	0.857	1.13	0.299	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-a	**14-09-1641-96-A**	**09/18/14 08:45**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:44**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.13	0.439	1.00	0.389	1.00	
Cadmium	1.83	1.13	0.135	1.00	0.120	1.00	
Lead	261	1.13	0.155	1.00	0.137	1.00	
Selenium	0.890	1.13	0.298	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c	**14-09-1641-97-A**	**09/18/14 08:36**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:45**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.96	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.930	1.16	0.139	1.00	0.120	1.00	J
Lead	71.7	1.16	0.159	1.00	0.137	1.00	
Selenium	0.816	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-b	**14-09-1641-98-A**	**09/16/14 14:34**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:47**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.56	1.15	0.447	1.00	0.389	1.00	
Cadmium	0.599	1.15	0.138	1.00	0.120	1.00	J
Lead	25.8	1.15	0.157	1.00	0.137	1.00	
Selenium	0.347	1.15	0.303	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-a	**14-09-1641-99-A**	**09/16/14 14:30**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:52**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.27	1.17	0.454	1.00	0.389	1.00	
Cadmium	0.464	1.17	0.140	1.00	0.120	1.00	J
Lead	23.5	1.17	0.160	1.00	0.137	1.00	
Selenium	0.710	1.17	0.308	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-c	**14-09-1641-100-A**	**09/16/14 14:27**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:54**	**140925L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.89	1.16	0.451	1.00	0.389	1.00	
Cadmium	0.636	1.16	0.139	1.00	0.120	1.00	J
Lead	23.8	1.16	0.159	1.00	0.137	1.00	
Selenium	0.954	1.16	0.306	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-b	**14-09-1641-101-A**	**09/16/14 14:24**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:25**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.24	1.17	0.456	1.00	0.389	1.00	
Cadmium	0.626	1.17	0.140	1.00	0.120	1.00	J
Lead	22.6	1.17	0.161	1.00	0.137	1.00	
Selenium	0.638	1.17	0.309	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-a	**14-09-1641-102-A**	**09/16/14 14:21**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:56**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.77	1.16	0.451	1.00	0.389	1.00	
Cadmium	0.559	1.16	0.139	1.00	0.120	1.00	J
Lead	21.9	1.16	0.159	1.00	0.137	1.00	
Selenium	0.654	1.16	0.306	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-c	**14-09-1641-103-A**	**09/16/14 14:18**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:57**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.60	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.524	1.10	0.132	1.00	0.120	1.00	J
Lead	21.9	1.10	0.151	1.00	0.137	1.00	
Selenium	0.644	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-b	**14-09-1641-104-A**	**09/16/14 14:15**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 21:59**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.98	1.20	0.469	1.00	0.389	1.00	
Cadmium	0.549	1.20	0.144	1.00	0.120	1.00	J
Lead	25.9	1.20	0.165	1.00	0.137	1.00	
Selenium	0.657	1.20	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-a	**14-09-1641-105-A**	**09/16/14 14:12**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 22:01**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.31	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.500	1.16	0.140	1.00	0.120	1.00	J
Lead	27.9	1.16	0.160	1.00	0.137	1.00	
Selenium	0.570	1.16	0.307	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-c	**14-09-1641-106-A**	**09/16/14 14:09**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 22:02**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.57	1.33	0.519	1.00	0.389	1.00	
Cadmium	0.595	1.33	0.160	1.00	0.120	1.00	J
Lead	30.9	1.33	0.183	1.00	0.137	1.00	
Selenium	0.679	1.33	0.352	1.00	0.264	1.00	J

10B-b	**14-09-1641-107-A**	**09/16/14 14:06**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 22:04**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.08	1.36	0.530	1.00	0.389	1.00	
Cadmium	0.563	1.36	0.163	1.00	0.120	1.00	J
Lead	28.0	1.36	0.187	1.00	0.137	1.00	
Selenium	0.763	1.36	0.359	1.00	0.264	1.00	J

10B-a	**14-09-1641-108-A**	**09/16/14 14:03**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 22:06**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.496	1.10	0.132	1.00	0.120	1.00	J
Lead	20.4	1.10	0.150	1.00	0.137	1.00	
Selenium	0.433	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10A-a	**14-09-1641-109-A**	**09/16/14 13:57**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 22:08**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.9	1.03	0.401	1.00	0.389	1.00	
Cadmium	0.382	1.03	0.124	1.00	0.120	1.00	J
Lead	16.0	1.03	0.141	1.00	0.137	1.00	
Selenium	0.379	1.03	0.272	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10A-b	**14-09-1641-110-A**	**09/16/14 15:41**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:25**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.2	1.36	0.529	1.00	0.389	1.00	
Cadmium	0.327	1.36	0.163	1.00	0.120	1.00	J
Lead	13.3	1.36	0.186	1.00	0.137	1.00	
Selenium	0.653	1.36	0.359	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-d	**14-09-1641-111-A**	**09/16/14 15:35**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:27**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	3.68	1.14	0.443	1.00	0.389	1.00	
Cadmium	0.456	1.14	0.136	1.00	0.120	1.00	J
Lead	18.5	1.14	0.156	1.00	0.137	1.00	
Selenium	0.398	1.14	0.300	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-e	**14-09-1641-112-A**	**09/16/14 15:31**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:29**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.51	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.558	1.10	0.132	1.00	0.120	1.00	J
Lead	17.6	1.10	0.151	1.00	0.137	1.00	
Selenium	0.611	1.10	0.291	1.00	0.264	1.00	J

10B-f	**14-09-1641-113-A**	**09/16/14 15:27**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:31**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.23	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.533	1.16	0.139	1.00	0.120	1.00	J
Lead	24.5	1.16	0.159	1.00	0.137	1.00	
Selenium	0.698	1.16	0.307	1.00	0.264	1.00	J

10C-d	**14-09-1641-114-A**	**09/16/14 15:20**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:32**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.74	1.18	0.457	1.00	0.389	1.00	
Cadmium	0.621	1.18	0.141	1.00	0.120	1.00	J
Lead	26.7	1.18	0.161	1.00	0.137	1.00	
Selenium	0.976	1.18	0.310	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-e	**14-09-1641-115-A**	**09/16/14 15:18**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:34**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.96	1.17	0.455	1.00	0.389	1.00	
Cadmium	0.619	1.17	0.140	1.00	0.120	1.00	J
Lead	32.0	1.17	0.160	1.00	0.137	1.00	
Selenium	0.822	1.17	0.309	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-f	**14-09-1641-116-A**	**09/16/14 15:15**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:49**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.22	1.22	0.474	1.00	0.389	1.00	
Cadmium	0.655	1.22	0.146	1.00	0.120	1.00	J
Lead	29.1	1.22	0.167	1.00	0.137	1.00	
Selenium	0.752	1.22	0.321	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-d	**14-09-1641-117-A**	**09/16/14 15:11**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:51**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.64	1.25	0.486	1.00	0.389	1.00	
Cadmium	0.632	1.25	0.150	1.00	0.120	1.00	J
Lead	24.6	1.25	0.171	1.00	0.137	1.00	
Selenium	0.500	1.25	0.330	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-e	**14-09-1641-118-A**	**09/16/14 15:06**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:53**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.55	1.21	0.471	1.00	0.389	1.00	
Cadmium	0.734	1.21	0.145	1.00	0.120	1.00	J
Lead	28.0	1.21	0.166	1.00	0.137	1.00	
Selenium	0.746	1.21	0.320	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-f	**14-09-1641-119-A**	**09/16/14 14:59**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:55**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.10	1.06	0.414	1.00	0.389	1.00	
Cadmium	0.469	1.06	0.127	1.00	0.120	1.00	J
Lead	24.2	1.06	0.146	1.00	0.137	1.00	
Selenium	0.357	1.06	0.281	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-d	**14-09-1641-120-A**	**09/16/14 14:55**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 23:56**	**140925L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.10	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.453	1.09	0.131	1.00	0.120	1.00	J
Lead	21.3	1.09	0.150	1.00	0.137	1.00	
Selenium	0.493	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-e	**14-09-1641-121-A**	**09/16/14 14:48**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:27**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.06	0.412	1.00	0.389	1.00	
Cadmium	0.380	1.06	0.127	1.00	0.120	1.00	J
Lead	15.4	1.06	0.145	1.00	0.137	1.00	
Selenium	0.851	1.06	0.279	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-f	**14-09-1641-122-A**	**09/18/14 09:28**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 23:58**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.28	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.412	1.08	0.130	1.00	0.120	1.00	J
Lead	16.1	1.08	0.148	1.00	0.137	1.00	
Selenium	ND	1.08	0.285	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-d	**14-09-1641-123-A**	**09/18/14 09:25**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:00**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.20	1.07	0.416	1.00	0.389	1.00	
Cadmium	0.588	1.07	0.128	1.00	0.120	1.00	J
Lead	38.1	1.07	0.146	1.00	0.137	1.00	
Selenium	0.404	1.07	0.282	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 42 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e	**14-09-1641-124-A**	**09/18/14 09:21**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:01**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.57	1.08	0.420	1.00	0.389	1.00	
Cadmium	1.21	1.08	0.129	1.00	0.120	1.00	
Lead	35.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.610	1.08	0.285	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-f	**14-09-1641-125-A**	**09/18/14 09:15**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:03**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.42	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.706	1.08	0.129	1.00	0.120	1.00	J
Lead	27.6	1.08	0.148	1.00	0.137	1.00	
Selenium	0.527	1.08	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-h	**14-09-1641-126-A**	**09/17/14 11:01**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:05**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.42	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.847	1.07	0.129	1.00	0.120	1.00	J
Lead	38.4	1.07	0.147	1.00	0.137	1.00	
Selenium	0.508	1.07	0.283	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-g	**14-09-1641-127-A**	**09/17/14 10:57**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:10**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.92	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.598	1.10	0.132	1.00	0.120	1.00	J
Lead	28.0	1.10	0.151	1.00	0.137	1.00	
Selenium	0.595	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-i	**14-09-1641-128-A**	**09/17/14 10:53**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:12**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.43	1.18	0.461	1.00	0.389	1.00	
Cadmium	0.629	1.18	0.142	1.00	0.120	1.00	J
Lead	35.3	1.18	0.162	1.00	0.137	1.00	
Selenium	0.664	1.18	0.312	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-h	**14-09-1641-129-A**	**09/17/14 10:50**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:13**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.08	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.623	1.13	0.136	1.00	0.120	1.00	J
Lead	29.8	1.13	0.155	1.00	0.137	1.00	
Selenium	0.583	1.13	0.299	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-g	**14-09-1641-130-A**	**09/17/14 10:45**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:15**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.21	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.693	1.14	0.137	1.00	0.120	1.00	J
Lead	31.4	1.14	0.157	1.00	0.137	1.00	
Selenium	0.622	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-i	**14-09-1641-131-A**	**09/17/14 10:40**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:17**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.56	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.698	1.14	0.137	1.00	0.120	1.00	J
Lead	30.4	1.14	0.157	1.00	0.137	1.00	
Selenium	0.711	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-h	**14-09-1641-132-A**	**09/17/14 10:26**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:19**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.23	1.15	0.450	1.00	0.389	1.00	
Cadmium	0.655	1.15	0.138	1.00	0.120	1.00	J
Lead	25.8	1.15	0.158	1.00	0.137	1.00	
Selenium	0.695	1.15	0.305	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10D-g	**14-09-1641-133-A**	**09/17/14 10:23**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:20**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.21	1.11	0.434	1.00	0.389	1.00	
Cadmium	0.615	1.11	0.134	1.00	0.120	1.00	J
Lead	26.3	1.11	0.153	1.00	0.137	1.00	
Selenium	0.693	1.11	0.294	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-i	**14-09-1641-134-A**	**09/17/14 10:20**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:22**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.20	1.15	0.446	1.00	0.389	1.00	
Cadmium	0.583	1.15	0.138	1.00	0.120	1.00	J
Lead	23.7	1.15	0.157	1.00	0.137	1.00	
Selenium	0.691	1.15	0.303	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-h	**14-09-1641-135-A**	**09/17/14 10:15**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:24**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.13	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.670	1.10	0.132	1.00	0.120	1.00	J
Lead	26.1	1.10	0.151	1.00	0.137	1.00	
Selenium	0.630	1.10	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-g	**14-09-1641-136-A**	**09/17/14 10:08**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:25**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.71	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.622	1.10	0.132	1.00	0.120	1.00	J
Lead	27.1	1.10	0.151	1.00	0.137	1.00	
Selenium	0.541	1.10	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-i	**14-09-1641-137-A**	**09/17/14 10:04**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:31**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.88	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.640	1.10	0.132	1.00	0.120	1.00	J
Lead	21.5	1.10	0.151	1.00	0.137	1.00	
Selenium	0.499	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-h	**14-09-1641-138-A**	**09/17/14 10:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:32**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.98	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.376	1.08	0.129	1.00	0.120	1.00	J
Lead	13.2	1.08	0.148	1.00	0.137	1.00	
Selenium	1.10	1.08	0.284	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 47 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10B-g	**14-09-1641-139-A**	**09/17/14 09:56**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:34**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.72	1.06	0.415	1.00	0.389	1.00	
Cadmium	0.442	1.06	0.128	1.00	0.120	1.00	J
Lead	16.9	1.06	0.146	1.00	0.137	1.00	
Selenium	0.523	1.06	0.281	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10A-c	**14-09-1641-140-A**	**09/17/14 09:47**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:36**	**140926L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.00	1.39	0.543	1.00	0.389	1.00	
Cadmium	0.410	1.39	0.167	1.00	0.120	1.00	J
Lead	13.6	1.39	0.191	1.00	0.137	1.00	
Selenium	0.370	1.39	0.368	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11A-a	**14-09-1641-141-A**	**09/17/14 13:02**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:29**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.56	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.234	1.08	0.129	1.00	0.120	1.00	J
Lead	7.84	1.08	0.148	1.00	0.137	1.00	
Selenium	0.344	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-a	**14-09-1641-142-A**	**09/17/14 12:56**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:37**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.18	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.523	1.08	0.129	1.00	0.120	1.00	J
Lead	20.4	1.08	0.148	1.00	0.137	1.00	
Selenium	0.415	1.08	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-b	**14-09-1641-143-A**	**09/17/14 12:53**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:39**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.76	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.516	1.10	0.132	1.00	0.120	1.00	J
Lead	15.2	1.10	0.151	1.00	0.137	1.00	
Selenium	0.504	1.10	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-c	**14-09-1641-144-A**	**09/17/14 12:49**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:41**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.11	0.434	1.00	0.389	1.00	
Cadmium	0.545	1.11	0.134	1.00	0.120	1.00	J
Lead	21.4	1.11	0.153	1.00	0.137	1.00	
Selenium	0.518	1.11	0.294	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-a	**14-09-1641-145-A**	**09/17/14 12:46**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:43**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	122	11.5	4.46	1.00	0.389	10.0	
Cadmium	5.19	11.5	1.37	1.00	0.120	10.0	J
Lead	236	11.5	1.57	1.00	0.137	10.0	
Selenium	6.10	11.5	3.02	1.00	0.264	10.0	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-b	**14-09-1641-146-A**	**09/17/14 12:44**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:44**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.580	1.08	0.130	1.00	0.120	1.00	J
Lead	24.7	1.08	0.149	1.00	0.137	1.00	
Selenium	0.582	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-c	**14-09-1641-147-A**	**09/17/14 12:41**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 00:46**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.1	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.654	1.09	0.131	1.00	0.120	1.00	J
Lead	26.4	1.09	0.150	1.00	0.137	1.00	
Selenium	0.485	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-a	**14-09-1641-148-A**	**09/17/14 11:30**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:01**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.00	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.615	1.10	0.131	1.00	0.120	1.00	J
Lead	23.3	1.10	0.150	1.00	0.137	1.00	
Selenium	0.775	1.10	0.289	1.00	0.264	1.00	J

11D-b	**14-09-1641-149-A**	**09/17/14 11:27**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:03**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.708	1.12	0.134	1.00	0.120	1.00	J
Lead	26.6	1.12	0.154	1.00	0.137	1.00	
Selenium	0.860	1.12	0.296	1.00	0.264	1.00	J

11D-c	**14-09-1641-150-A**	**09/17/14 11:24**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:05**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.13	0.439	1.00	0.389	1.00	
Cadmium	0.606	1.13	0.135	1.00	0.120	1.00	J
Lead	23.5	1.13	0.155	1.00	0.137	1.00	
Selenium	0.859	1.13	0.298	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-a	**14-09-1641-151-A**	**09/17/14 11:19**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:07**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.549	1.11	0.134	1.00	0.120	1.00	J
Lead	23.5	1.11	0.153	1.00	0.137	1.00	
Selenium	0.772	1.11	0.294	1.00	0.264	1.00	J

11E-b	**14-09-1641-152-A**	**09/17/14 11:16**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:08**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.9	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.591	1.10	0.132	1.00	0.120	1.00	J
Lead	23.3	1.10	0.151	1.00	0.137	1.00	
Selenium	0.881	1.10	0.291	1.00	0.264	1.00	J

11E-c	**14-09-1641-153-A**	**09/17/14 11:10**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:10**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.04	1.27	0.493	1.00	0.389	1.00	
Cadmium	0.624	1.27	0.152	1.00	0.120	1.00	J
Lead	29.8	1.27	0.174	1.00	0.137	1.00	
Selenium	0.873	1.27	0.335	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-a	**14-09-1641-154-A**	**09/17/14 11:06**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:12**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.03	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.660	1.10	0.132	1.00	0.120	1.00	J
Lead	27.9	1.10	0.151	1.00	0.137	1.00	
Selenium	0.820	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-b	**14-09-1641-155-A**	**09/17/14 14:01**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:13**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.76	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.546	1.09	0.131	1.00	0.120	1.00	J
Lead	26.2	1.09	0.150	1.00	0.137	1.00	
Selenium	0.800	1.09	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-f	**14-09-1641-156-A**	**09/17/14 13:56**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:15**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.23	1.16	0.451	1.00	0.389	1.00	
Cadmium	0.649	1.16	0.139	1.00	0.120	1.00	J
Lead	28.8	1.16	0.159	1.00	0.137	1.00	
Selenium	0.782	1.16	0.306	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-e	**14-09-1641-157-A**	**09/17/14 13:51**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:17**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.555	1.12	0.134	1.00	0.120	1.00	J
Lead	20.9	1.12	0.153	1.00	0.137	1.00	
Selenium	0.542	1.12	0.295	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-d	**14-09-1641-158-A**	**09/17/14 13:47**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:22**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.532	1.12	0.134	1.00	0.120	1.00	J
Lead	22.4	1.12	0.153	1.00	0.137	1.00	
Selenium	0.613	1.12	0.295	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-f	**14-09-1641-159-A**	**09/17/14 13:44**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:24**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.1	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.638	1.10	0.132	1.00	0.120	1.00	J
Lead	23.7	1.10	0.151	1.00	0.137	1.00	
Selenium	0.509	1.10	0.291	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-e	**14-09-1641-160-A**	**09/17/14 13:40**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:25**	**140926L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.6	1.12	0.435	1.00	0.389	1.00	
Cadmium	0.636	1.12	0.134	1.00	0.120	1.00	J
Lead	25.7	1.12	0.153	1.00	0.137	1.00	
Selenium	0.510	1.12	0.295	1.00	0.264	1.00	J

11D-d	**14-09-1641-161-A**	**09/17/14 13:37**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:31**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.13	0.440	1.00	0.389	1.00	
Cadmium	0.597	1.13	0.136	1.00	0.120	1.00	J
Lead	24.2	1.13	0.155	1.00	0.137	1.00	
Selenium	0.587	1.13	0.299	1.00	0.264	1.00	J

11C-f	**14-09-1641-162-A**	**09/17/14 13:32**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:27**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.574	1.12	0.135	1.00	0.120	1.00	J
Lead	23.5	1.12	0.154	1.00	0.137	1.00	
Selenium	0.900	1.12	0.297	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-e	**14-09-1641-163-A**	**09/17/14 13:29**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:29**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.2	1.16	0.450	1.00	0.389	1.00	
Cadmium	0.626	1.16	0.139	1.00	0.120	1.00	J
Lead	25.3	1.16	0.158	1.00	0.137	1.00	
Selenium	0.564	1.16	0.305	1.00	0.264	1.00	J

11C-d	**14-09-1641-164-A**	**09/17/14 13:26**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:31**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.2	1.14	0.444	1.00	0.389	1.00	
Cadmium	0.639	1.14	0.137	1.00	0.120	1.00	J
Lead	23.1	1.14	0.157	1.00	0.137	1.00	
Selenium	0.779	1.14	0.301	1.00	0.264	1.00	J

11B-f	**14-09-1641-165-A**	**09/17/14 13:23**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:32**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.55	1.12	0.438	1.00	0.389	1.00	
Cadmium	0.578	1.12	0.135	1.00	0.120	1.00	J
Lead	20.3	1.12	0.154	1.00	0.137	1.00	
Selenium	0.575	1.12	0.297	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-e	**14-09-1641-166-A**	**09/17/14 13:20**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:34**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.43	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.504	1.10	0.131	1.00	0.120	1.00	J
Lead	19.7	1.10	0.150	1.00	0.137	1.00	
Selenium	0.597	1.10	0.289	1.00	0.264	1.00	J

11B-d	**14-09-1641-167-A**	**09/17/14 13:16**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:36**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.72	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.653	1.11	0.133	1.00	0.120	1.00	J
Lead	22.7	1.11	0.152	1.00	0.137	1.00	
Selenium	0.670	1.11	0.292	1.00	0.264	1.00	J

11A-b	**14-09-1641-168-A**	**09/17/14 13:13**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:37**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.50	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.481	1.07	0.128	1.00	0.120	1.00	J
Lead	12.2	1.07	0.146	1.00	0.137	1.00	
Selenium	0.500	1.07	0.282	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11A-c	**14-09-1641-169-A**	**09/17/14 15:16**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:43**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.474	1.07	0.128	1.00	0.120	1.00	J
Lead	14.6	1.07	0.146	1.00	0.137	1.00	
Selenium	0.517	1.07	0.281	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-g	**14-09-1641-170-A**	**09/17/14 15:10**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:44**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.79	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.586	1.10	0.132	1.00	0.120	1.00	J
Lead	22.7	1.10	0.151	1.00	0.137	1.00	
Selenium	0.689	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-h	**14-09-1641-171-A**	**09/17/14 15:06**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:46**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.41	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.578	1.09	0.131	1.00	0.120	1.00	J
Lead	21.9	1.09	0.150	1.00	0.137	1.00	
Selenium	0.775	1.09	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11B-i	**14-09-1641-172-A**	**09/17/14 15:03**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:48**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.22	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.607	1.10	0.132	1.00	0.120	1.00	J
Lead	21.7	1.10	0.151	1.00	0.137	1.00	
Selenium	0.773	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-g	**14-09-1641-173-A**	**09/17/14 15:01**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:49**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.614	1.12	0.134	1.00	0.120	1.00	J
Lead	23.1	1.12	0.153	1.00	0.137	1.00	
Selenium	0.753	1.12	0.295	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-h	**14-09-1641-174-A**	**09/17/14 14:58**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:51**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.11	0.434	1.00	0.389	1.00	
Cadmium	0.642	1.11	0.134	1.00	0.120	1.00	J
Lead	24.2	1.11	0.153	1.00	0.137	1.00	
Selenium	0.723	1.11	0.294	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-i	**14-09-1641-175-A**	**09/17/14 14:55**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:53**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.16	0.450	1.00	0.389	1.00	
Cadmium	0.699	1.16	0.139	1.00	0.120	1.00	J
Lead	27.3	1.16	0.158	1.00	0.137	1.00	
Selenium	0.768	1.16	0.305	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-g	**14-09-1641-176-A**	**09/17/14 14:52**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:55**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.1	1.14	0.442	1.00	0.389	1.00	
Cadmium	0.631	1.14	0.136	1.00	0.120	1.00	J
Lead	24.5	1.14	0.156	1.00	0.137	1.00	
Selenium	0.555	1.14	0.300	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-h	**14-09-1641-177-A**	**09/17/14 14:50**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:56**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.648	1.14	0.137	1.00	0.120	1.00	J
Lead	24.5	1.14	0.157	1.00	0.137	1.00	
Selenium	0.714	1.14	0.302	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11D-i	**14-09-1641-178-A**	**09/17/14 14:47**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 01:58**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.65	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.575	1.12	0.135	1.00	0.120	1.00	J
Lead	22.3	1.12	0.154	1.00	0.137	1.00	
Selenium	0.575	1.12	0.297	1.00	0.264	1.00	J

11E-g	**14-09-1641-179-A**	**09/17/14 14:44**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:13**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.542	1.11	0.133	1.00	0.120	1.00	J
Lead	22.5	1.11	0.153	1.00	0.137	1.00	
Selenium	0.653	1.11	0.294	1.00	0.264	1.00	J

11E-h	**14-09-1641-180-A**	**09/17/14 14:42**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:15**	**140926L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.6	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.615	1.11	0.133	1.00	0.120	1.00	J
Lead	22.5	1.11	0.153	1.00	0.137	1.00	
Selenium	0.551	1.11	0.294	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-i	**14-09-1641-181-A**	**09/17/14 14:28**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:32**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.52	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.826	1.16	0.139	1.00	0.120	1.00	J
Lead	44.1	1.16	0.159	1.00	0.137	1.00	
Selenium	0.707	1.16	0.306	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-c	**14-09-1641-182-A**	**09/17/14 14:24**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:17**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	4.93	1.15	0.450	1.00	0.389	1.00	
Cadmium	0.569	1.15	0.138	1.00	0.120	1.00	J
Lead	30.9	1.15	0.158	1.00	0.137	1.00	
Selenium	0.793	1.15	0.305	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-a	**14-09-1641-183-A**	**09/17/14 16:17**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:19**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.33	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.479	1.10	0.131	1.00	0.120	1.00	J
Lead	24.1	1.10	0.150	1.00	0.137	1.00	
Selenium	0.731	1.10	0.289	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-c	**14-09-1641-184-A**	**09/17/14 16:13**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:20**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.16	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.600	1.12	0.134	1.00	0.120	1.00	J
Lead	35.4	1.12	0.153	1.00	0.137	1.00	
Selenium	0.992	1.12	0.295	1.00	0.264	1.00	J

12E-b	**14-09-1641-185-A**	**09/17/14 16:05**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:22**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	16.1	1.12	0.435	1.00	0.389	1.00	
Cadmium	0.660	1.12	0.134	1.00	0.120	1.00	J
Lead	24.8	1.12	0.153	1.00	0.137	1.00	
Selenium	0.465	1.12	0.295	1.00	0.264	1.00	J

12E-a	**14-09-1641-186-A**	**09/17/14 16:02**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:24**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.3	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.666	1.10	0.132	1.00	0.120	1.00	J
Lead	24.6	1.10	0.151	1.00	0.137	1.00	
Selenium	0.668	1.10	0.291	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 63 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-c	**14-09-1641-187-A**	**09/17/14 16:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:25**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.14	0.444	1.00	0.389	1.00	
Cadmium	0.573	1.14	0.137	1.00	0.120	1.00	J
Lead	23.2	1.14	0.156	1.00	0.137	1.00	
Selenium	0.609	1.14	0.301	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-b	**14-09-1641-188-A**	**09/17/14 15:57**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:27**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.3	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.567	1.12	0.135	1.00	0.120	1.00	J
Lead	24.9	1.12	0.154	1.00	0.137	1.00	
Selenium	0.692	1.12	0.297	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-a	**14-09-1641-189-A**	**09/17/14 15:55**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:29**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.14	0.442	1.00	0.389	1.00	
Cadmium	0.593	1.14	0.136	1.00	0.120	1.00	J
Lead	24.2	1.14	0.156	1.00	0.137	1.00	
Selenium	0.460	1.14	0.300	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-c	**14-09-1641-190-A**	**09/17/14 15:52**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:34**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.632	1.11	0.133	1.00	0.120	1.00	J
Lead	24.4	1.11	0.152	1.00	0.137	1.00	
Selenium	0.671	1.11	0.293	1.00	0.264	1.00	J

12C-b	**14-09-1641-191-A**	**09/17/14 15:49**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:36**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.6	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.619	1.13	0.135	1.00	0.120	1.00	J
Lead	25.3	1.13	0.154	1.00	0.137	1.00	
Selenium	0.778	1.13	0.297	1.00	0.264	1.00	J

12C-a	**14-09-1641-192-A**	**09/17/14 15:47**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:37**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.25	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.578	1.09	0.130	1.00	0.120	1.00	J
Lead	18.0	1.09	0.149	1.00	0.137	1.00	
Selenium	0.579	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-c	**14-09-1641-193-A**	**09/17/14 15:45**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:39**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.56	1.15	0.447	1.00	0.389	1.00	
Cadmium	0.592	1.15	0.138	1.00	0.120	1.00	J
Lead	19.5	1.15	0.157	1.00	0.137	1.00	
Selenium	0.577	1.15	0.303	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-b	**14-09-1641-194-A**	**09/17/14 15:42**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:41**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.59	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.614	1.13	0.135	1.00	0.120	1.00	J
Lead	22.0	1.13	0.154	1.00	0.137	1.00	
Selenium	0.618	1.13	0.297	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-a	**14-09-1641-195-A**	**09/17/14 15:39**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:43**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.2	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.604	1.11	0.133	1.00	0.120	1.00	J
Lead	24.6	1.11	0.152	1.00	0.137	1.00	
Selenium	0.533	1.11	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12A-a	**14-09-1641-196-A**	**09/17/14 15:35**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:44**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.05	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.459	1.08	0.129	1.00	0.120	1.00	J
Lead	14.8	1.08	0.148	1.00	0.137	1.00	
Selenium	0.396	1.08	0.285	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-c	**14-09-1641-197-A**	**09/17/14 16:20**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:46**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	3.70	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.507	1.10	0.132	1.00	0.120	1.00	J
Lead	19.1	1.10	0.151	1.00	0.137	1.00	
Selenium	0.918	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-b	**14-09-1641-198-A**	**09/17/14 16:23**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:48**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.37	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.566	1.08	0.129	1.00	0.120	1.00	J
Lead	27.2	1.08	0.148	1.00	0.137	1.00	
Selenium	0.834	1.08	0.284	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-f	**14-09-1641-199-A**	**09/17/14 16:25**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:49**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.59	1.04	0.406	1.00	0.389	1.00	
Cadmium	0.438	1.04	0.125	1.00	0.120	1.00	J
Lead	18.5	1.04	0.143	1.00	0.137	1.00	
Selenium	0.658	1.04	0.275	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-e	**14-09-1641-200-A**	**09/17/14 16:29**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:55**	**140926L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.02	1.15	0.447	1.00	0.389	1.00	
Cadmium	0.654	1.15	0.138	1.00	0.120	1.00	J
Lead	30.4	1.15	0.157	1.00	0.137	1.00	
Selenium	0.946	1.15	0.303	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-d	**14-09-1641-201-A**	**09/18/14 09:53**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:34**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	16.5	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.669	1.11	0.133	1.00	0.120	1.00	J
Lead	25.2	1.11	0.152	1.00	0.137	1.00	
Selenium	0.586	1.11	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-f	**14-09-1641-202-A**	**09/18/14 09:56**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:56**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.09	0.426	1.00	0.389	1.00	
Cadmium	0.651	1.09	0.131	1.00	0.120	1.00	J
Lead	22.6	1.09	0.150	1.00	0.137	1.00	
Selenium	0.605	1.09	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-e	**14-09-1641-203-A**	**09/18/14 10:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 02:58**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.12	0.438	1.00	0.389	1.00	
Cadmium	0.680	1.12	0.135	1.00	0.120	1.00	J
Lead	25.2	1.12	0.154	1.00	0.137	1.00	
Selenium	0.581	1.12	0.297	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-d	**14-09-1641-204-A**	**09/18/14 10:04**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:00**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.14	0.444	1.00	0.389	1.00	
Cadmium	0.671	1.14	0.137	1.00	0.120	1.00	J
Lead	25.2	1.14	0.157	1.00	0.137	1.00	
Selenium	0.530	1.14	0.301	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-f	**14-09-1641-205-A**	**09/18/14 10:07**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:01**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.6	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.637	1.16	0.139	1.00	0.120	1.00	J
Lead	25.9	1.16	0.159	1.00	0.137	1.00	
Selenium	0.621	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-e	**14-09-1641-206-A**	**09/18/14 10:10**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:03**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.0	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.686	1.14	0.137	1.00	0.120	1.00	J
Lead	24.9	1.14	0.157	1.00	0.137	1.00	
Selenium	0.502	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-d	**14-09-1641-207-A**	**09/18/14 10:13**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:05**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.81	1.14	0.442	1.00	0.389	1.00	
Cadmium	0.636	1.14	0.136	1.00	0.120	1.00	J
Lead	18.4	1.14	0.156	1.00	0.137	1.00	
Selenium	0.396	1.14	0.300	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-f	**14-09-1641-208-A**	**09/18/14 10:15**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:06**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.2	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.580	1.10	0.132	1.00	0.120	1.00	J
Lead	15.2	1.10	0.151	1.00	0.137	1.00	
Selenium	0.590	1.10	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-e	**14-09-1641-209-A**	**09/18/14 10:18**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:08**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.45	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.559	1.12	0.134	1.00	0.120	1.00	J
Lead	22.7	1.12	0.154	1.00	0.137	1.00	
Selenium	0.746	1.12	0.296	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-d	**14-09-1641-210-A**	**09/18/14 10:24**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:10**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.2	1.12	0.434	1.00	0.389	1.00	
Cadmium	0.628	1.12	0.134	1.00	0.120	1.00	J
Lead	25.1	1.12	0.153	1.00	0.137	1.00	
Selenium	0.629	1.12	0.295	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12A-b	**14-09-1641-211-A**	**09/18/14 10:27**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:25**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.66	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.434	1.07	0.129	1.00	0.120	1.00	J
Lead	14.7	1.07	0.147	1.00	0.137	1.00	
Selenium	0.679	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12A-c	**14-09-1641-212-A**	**09/18/14 10:35**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:27**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.42	1.09	0.424	1.00	0.389	1.00	
Cadmium	0.485	1.09	0.130	1.00	0.120	1.00	J
Lead	13.9	1.09	0.149	1.00	0.137	1.00	
Selenium	0.551	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-g	**14-09-1641-213-A**	**09/18/14 10:38**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:29**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.24	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.688	1.13	0.136	1.00	0.120	1.00	J
Lead	20.1	1.13	0.155	1.00	0.137	1.00	
Selenium	1.03	1.13	0.299	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-h	**14-09-1641-214-A**	**09/18/14 10:41**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:31**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.79	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.593	1.11	0.133	1.00	0.120	1.00	J
Lead	19.5	1.11	0.152	1.00	0.137	1.00	
Selenium	0.767	1.11	0.293	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12B-i	**14-09-1641-215-A**	**09/18/14 10:45**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:32**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.9	1.12	0.437	1.00	0.389	1.00	
Cadmium	0.641	1.12	0.135	1.00	0.120	1.00	J
Lead	22.7	1.12	0.154	1.00	0.137	1.00	
Selenium	0.635	1.12	0.296	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-g	**14-09-1641-216-A**	**09/18/14 10:48**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:34**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.45	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.632	1.11	0.133	1.00	0.120	1.00	J
Lead	19.3	1.11	0.152	1.00	0.137	1.00	
Selenium	0.688	1.11	0.293	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-h	**14-09-1641-217-A**	**09/18/14 10:50**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:36**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.9	1.16	0.450	1.00	0.389	1.00	
Cadmium	0.622	1.16	0.139	1.00	0.120	1.00	J
Lead	23.8	1.16	0.158	1.00	0.137	1.00	
Selenium	0.879	1.16	0.305	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12C-i	**14-09-1641-218-A**	**09/18/14 10:53**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:37**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.7	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.670	1.11	0.133	1.00	0.120	1.00	J
Lead	27.1	1.11	0.152	1.00	0.137	1.00	
Selenium	0.935	1.11	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-g	**14-09-1641-219-A**	**09/18/14 10:56**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:39**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.5	1.12	0.438	1.00	0.389	1.00	
Cadmium	0.631	1.12	0.135	1.00	0.120	1.00	J
Lead	25.2	1.12	0.154	1.00	0.137	1.00	
Selenium	0.723	1.12	0.297	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-h	**14-09-1641-220-A**	**09/18/14 10:58**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:41**	**140926L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.3	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.612	1.11	0.133	1.00	0.120	1.00	J
Lead	25.0	1.11	0.152	1.00	0.137	1.00	
Selenium	0.719	1.11	0.293	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12D-i	**14-09-1641-221-A**	**09/18/14 11:01**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:39**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.2	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.597	1.11	0.133	1.00	0.120	1.00	J
Lead	23.4	1.11	0.152	1.00	0.137	1.00	
Selenium	0.733	1.11	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-g	**14-09-1641-222-A**	**09/18/14 11:04**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:46**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	16.3	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.608	1.10	0.132	1.00	0.120	1.00	J
Lead	20.5	1.10	0.150	1.00	0.137	1.00	
Selenium	0.905	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 75 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-h	**14-09-1641-223-A**	**09/18/14 11:09**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:48**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.17	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.562	1.07	0.128	1.00	0.120	1.00	J
Lead	26.8	1.07	0.146	1.00	0.137	1.00	
Selenium	0.894	1.07	0.282	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-i	**14-09-1641-224-A**	**09/18/14 11:13**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:49**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.7	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.429	1.09	0.130	1.00	0.120	1.00	J
Lead	23.2	1.09	0.149	1.00	0.137	1.00	
Selenium	0.767	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-d	**14-09-1641-225-A**	**09/18/14 11:17**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:51**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.50	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.504	1.08	0.130	1.00	0.120	1.00	J
Lead	26.9	1.08	0.148	1.00	0.137	1.00	
Selenium	0.842	1.08	0.285	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-e	**14-09-1641-226-A**	**09/18/14 11:19**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:53**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	4.30	1.13	0.440	1.00	0.389	1.00	
Cadmium	0.983	1.13	0.136	1.00	0.120	1.00	J
Lead	32.3	1.13	0.155	1.00	0.137	1.00	
Selenium	1.35	1.13	0.299	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-b	**14-09-1641-227-A**	**09/18/14 11:31**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:55**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.78	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.633	1.12	0.134	1.00	0.120	1.00	J
Lead	30.3	1.12	0.154	1.00	0.137	1.00	
Selenium	1.13	1.12	0.296	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-a	**14-09-1641-228-A**	**09/18/14 11:38**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:56**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.20	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.509	1.10	0.132	1.00	0.120	1.00	J
Lead	25.6	1.10	0.151	1.00	0.137	1.00	
Selenium	1.15	1.10	0.291	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-c	**14-09-1641-229-A**	**09/18/14 11:42**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 03:58**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.05	0.408	1.00	0.389	1.00	
Cadmium	0.546	1.05	0.126	1.00	0.120	1.00	J
Lead	17.8	1.05	0.144	1.00	0.137	1.00	
Selenium	0.642	1.05	0.277	1.00	0.264	1.00	J

13E-b	**14-09-1641-230-A**	**09/18/14 11:45**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:00**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.23	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.561	1.08	0.129	1.00	0.120	1.00	J
Lead	24.7	1.08	0.147	1.00	0.137	1.00	
Selenium	0.686	1.08	0.284	1.00	0.264	1.00	J

13E-a	**14-09-1641-231-A**	**09/18/14 11:48**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:01**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.5	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.550	1.11	0.133	1.00	0.120	1.00	J
Lead	26.2	1.11	0.152	1.00	0.137	1.00	
Selenium	0.970	1.11	0.293	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 78 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-c	**14-09-1641-232-A**	**09/18/14 13:24**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:07**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	17.2	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.645	1.09	0.130	1.00	0.120	1.00	J
Lead	22.6	1.09	0.149	1.00	0.137	1.00	
Selenium	0.862	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-b	**14-09-1641-233-A**	**09/18/14 13:28**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:08**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.9	1.13	0.439	1.00	0.389	1.00	
Cadmium	0.693	1.13	0.135	1.00	0.120	1.00	J
Lead	22.7	1.13	0.155	1.00	0.137	1.00	
Selenium	0.921	1.13	0.298	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-a	**14-09-1641-234-A**	**09/18/14 13:32**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:10**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.7	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.616	1.13	0.135	1.00	0.120	1.00	J
Lead	23.7	1.13	0.154	1.00	0.137	1.00	
Selenium	0.670	1.13	0.297	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-c	**14-09-1641-235-A**	**09/18/14 13:35**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:12**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.0	1.14	0.445	1.00	0.389	1.00	
Cadmium	0.666	1.14	0.137	1.00	0.120	1.00	J
Lead	26.0	1.14	0.157	1.00	0.137	1.00	
Selenium	0.810	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-b	**14-09-1641-236-A**	**09/18/14 13:37**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:13**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.5	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.577	1.10	0.132	1.00	0.120	1.00	J
Lead	23.1	1.10	0.150	1.00	0.137	1.00	
Selenium	0.655	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-a	**14-09-1641-237-A**	**09/18/14 13:40**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:15**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.585	1.10	0.132	1.00	0.120	1.00	J
Lead	21.0	1.10	0.151	1.00	0.137	1.00	
Selenium	0.834	1.10	0.292	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-c	**14-09-1641-238-A**	**09/18/14 13:42**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:17**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.1	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.612	1.10	0.132	1.00	0.120	1.00	J
Lead	23.5	1.10	0.151	1.00	0.137	1.00	
Selenium	0.667	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-b	**14-09-1641-239-A**	**09/18/14 13:46**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:18**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.595	1.09	0.130	1.00	0.120	1.00	J
Lead	20.9	1.09	0.149	1.00	0.137	1.00	
Selenium	0.965	1.09	0.287	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-a	**14-09-1641-240-A**	**09/18/14 13:48**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:20**	**140926L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.603	1.08	0.130	1.00	0.120	1.00	J
Lead	18.9	1.08	0.149	1.00	0.137	1.00	
Selenium	0.824	1.08	0.286	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13A-a	**14-09-1641-241-A**	**09/18/14 13:51**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:41**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.3	1.07	0.417	1.00	0.389	1.00	
Cadmium	0.530	1.07	0.129	1.00	0.120	1.00	J
Lead	14.4	1.07	0.147	1.00	0.137	1.00	
Selenium	0.382	1.07	0.283	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13A-b	**14-09-1641-242-A**	**09/18/14 14:21**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:22**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.08	0.419	1.00	0.389	1.00	
Cadmium	0.512	1.08	0.129	1.00	0.120	1.00	J
Lead	13.8	1.08	0.147	1.00	0.137	1.00	
Selenium	0.625	1.08	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-d	**14-09-1641-243-A**	**09/18/14 14:28**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:37**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.7	1.10	0.427	1.00	0.389	1.00	
Cadmium	0.499	1.10	0.132	1.00	0.120	1.00	J
Lead	14.7	1.10	0.150	1.00	0.137	1.00	
Selenium	0.341	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-e	**14-09-1641-244-A**	**09/18/14 14:34**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:39**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.436	1.11	0.134	1.00	0.120	1.00	J
Lead	16.1	1.11	0.153	1.00	0.137	1.00	
Selenium	0.631	1.11	0.294	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-f	**14-09-1641-245-A**	**09/18/14 14:38**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:41**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.4	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.638	1.10	0.132	1.00	0.120	1.00	J
Lead	24.0	1.10	0.151	1.00	0.137	1.00	
Selenium	0.672	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-d	**14-09-1641-246-A**	**09/18/14 14:41**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:43**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.2	1.11	0.434	1.00	0.389	1.00	
Cadmium	0.597	1.11	0.134	1.00	0.120	1.00	J
Lead	23.1	1.11	0.153	1.00	0.137	1.00	
Selenium	0.684	1.11	0.294	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-e	**14-09-1641-247-A**	**09/18/14 14:44**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:44**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.4	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.589	1.11	0.133	1.00	0.120	1.00	J
Lead	24.3	1.11	0.152	1.00	0.137	1.00	
Selenium	0.799	1.11	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-f	**14-09-1641-248-A**	**09/18/14 14:47**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:46**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.7	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.649	1.11	0.133	1.00	0.120	1.00	J
Lead	25.0	1.11	0.152	1.00	0.137	1.00	
Selenium	0.876	1.11	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-d	**14-09-1641-249-A**	**09/18/14 14:50**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:48**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	16.5	1.09	0.423	1.00	0.389	1.00	
Cadmium	0.687	1.09	0.130	1.00	0.120	1.00	J
Lead	24.2	1.09	0.149	1.00	0.137	1.00	
Selenium	0.763	1.09	0.287	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-e	**14-09-1641-250-A**	**09/18/14 14:54**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:49**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.7	1.08	0.420	1.00	0.389	1.00	
Cadmium	0.561	1.08	0.129	1.00	0.120	1.00	J
Lead	19.6	1.08	0.148	1.00	0.137	1.00	
Selenium	0.640	1.08	0.285	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-f	**14-09-1641-251-A**	**09/18/14 14:57**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:51**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.5	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.537	1.07	0.129	1.00	0.120	1.00	J
Lead	19.2	1.07	0.147	1.00	0.137	1.00	
Selenium	0.674	1.07	0.284	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-d	**14-09-1641-252-A**	**09/18/14 15:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:53**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.0	1.06	0.414	1.00	0.389	1.00	
Cadmium	0.529	1.06	0.127	1.00	0.120	1.00	J
Lead	29.9	1.06	0.146	1.00	0.137	1.00	
Selenium	0.728	1.06	0.281	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-e	**14-09-1641-253-A**	**09/18/14 15:04**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 04:58**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.60	1.05	0.409	1.00	0.389	1.00	
Cadmium	0.574	1.05	0.126	1.00	0.120	1.00	J
Lead	28.7	1.05	0.144	1.00	0.137	1.00	
Selenium	0.816	1.05	0.278	1.00	0.264	1.00	J

13E-f	**14-09-1641-254-A**	**09/18/14 15:07**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:00**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.08	0.422	1.00	0.389	1.00	
Cadmium	0.463	1.08	0.130	1.00	0.120	1.00	J
Lead	24.7	1.08	0.149	1.00	0.137	1.00	
Selenium	0.764	1.08	0.286	1.00	0.264	1.00	J

13F-c	**14-09-1641-255-A**	**09/18/14 15:10**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:01**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.93	1.09	0.425	1.00	0.389	1.00	
Cadmium	0.528	1.09	0.131	1.00	0.120	1.00	J
Lead	28.7	1.09	0.150	1.00	0.137	1.00	
Selenium	0.893	1.09	0.288	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-d	**14-09-1641-256-A**	**09/18/14 15:15**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:03**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.64	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.818	1.11	0.133	1.00	0.120	1.00	J
Lead	32.6	1.11	0.153	1.00	0.137	1.00	
Selenium	1.19	1.11	0.294	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140915DUP-1	**14-09-1641-257-A**	**09/15/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:05**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.09	1.12	0.436	1.00	0.389	1.00	
Cadmium	0.518	1.12	0.134	1.00	0.120	1.00	J
Lead	23.0	1.12	0.154	1.00	0.137	1.00	
Selenium	0.682	1.12	0.296	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140915DUP-2	**14-09-1641-258-A**	**09/15/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:07**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.56	1.13	0.438	1.00	0.389	1.00	
Cadmium	0.598	1.13	0.135	1.00	0.120	1.00	J
Lead	25.4	1.13	0.154	1.00	0.137	1.00	
Selenium	0.639	1.13	0.297	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140915DUP-3	**14-09-1641-259-A**	**09/15/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:08**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.98	1.18	0.457	1.00	0.389	1.00	
Cadmium	0.581	1.18	0.141	1.00	0.120	1.00	J
Lead	24.6	1.18	0.161	1.00	0.137	1.00	
Selenium	0.647	1.18	0.310	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-1	**14-09-1641-260-A**	**09/16/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:10**	**140926L07**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.37	1.15	0.448	1.00	0.389	1.00	
Cadmium	0.581	1.15	0.138	1.00	0.120	1.00	J
Lead	26.0	1.15	0.158	1.00	0.137	1.00	
Selenium	0.735	1.15	0.304	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-2	**14-09-1641-261-A**	**09/16/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:43**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.59	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.551	1.13	0.136	1.00	0.120	1.00	J
Lead	24.7	1.13	0.155	1.00	0.137	1.00	
Selenium	0.658	1.13	0.299	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-3	**14-09-1641-262-A**	**09/16/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:12**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.83	1.22	0.476	1.00	0.389	1.00	
Cadmium	0.721	1.22	0.147	1.00	0.120	1.00	J
Lead	27.1	1.22	0.168	1.00	0.137	1.00	
Selenium	0.737	1.22	0.323	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-4	**14-09-1641-263-A**	**09/16/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:13**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.16	1.14	0.443	1.00	0.389	1.00	
Cadmium	0.545	1.14	0.137	1.00	0.120	1.00	J
Lead	28.0	1.14	0.156	1.00	0.137	1.00	
Selenium	0.831	1.14	0.301	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140916DUP-5	**14-09-1641-264-A**	**09/16/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:19**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.40	1.16	0.451	1.00	0.389	1.00	
Cadmium	0.519	1.16	0.139	1.00	0.120	1.00	J
Lead	24.2	1.16	0.159	1.00	0.137	1.00	
Selenium	0.641	1.16	0.306	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-1	**14-09-1641-265-A**	**09/17/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:20**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.67	1.06	0.412	1.00	0.389	1.00	
Cadmium	0.470	1.06	0.127	1.00	0.120	1.00	J
Lead	13.1	1.06	0.145	1.00	0.137	1.00	
Selenium	0.519	1.06	0.280	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-2	**14-09-1641-266-A**	**09/17/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:22**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.85	1.08	0.421	1.00	0.389	1.00	
Cadmium	0.577	1.08	0.130	1.00	0.120	1.00	J
Lead	21.5	1.08	0.148	1.00	0.137	1.00	
Selenium	0.564	1.08	0.286	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-3	**14-09-1641-267-A**	**09/17/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:24**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.572	1.10	0.132	1.00	0.120	1.00	J
Lead	23.7	1.10	0.151	1.00	0.137	1.00	
Selenium	0.736	1.10	0.290	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 90 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140917DUP-4	**14-09-1641-268-A**	**09/17/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:25**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.09	1.11	0.431	1.00	0.389	1.00	
Cadmium	0.627	1.11	0.133	1.00	0.120	1.00	J
Lead	36.4	1.11	0.152	1.00	0.137	1.00	
Selenium	0.860	1.11	0.292	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-1	**14-09-1641-269-A**	**09/18/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:27**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.11	0.433	1.00	0.389	1.00	
Cadmium	0.990	1.11	0.133	1.00	0.120	1.00	J
Lead	50.0	1.11	0.152	1.00	0.137	1.00	
Selenium	1.06	1.11	0.293	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-2	**14-09-1641-270-A**	**09/18/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:29**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.34	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.558	1.11	0.133	1.00	0.120	1.00	J
Lead	21.4	1.11	0.152	1.00	0.137	1.00	
Selenium	0.616	1.11	0.293	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 91 of 94

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-3	**14-09-1641-271-A**	**09/18/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:30**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.90	1.07	0.415	1.00	0.389	1.00	
Cadmium	0.481	1.07	0.128	1.00	0.120	1.00	J
Lead	13.6	1.07	0.146	1.00	0.137	1.00	
Selenium	0.530	1.07	0.282	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-4	**14-09-1641-272-A**	**09/18/14 12:00**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/27/14 05:32**	**140926L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.11	0.432	1.00	0.389	1.00	
Cadmium	0.552	1.11	0.133	1.00	0.120	1.00	J
Lead	23.1	1.11	0.152	1.00	0.137	1.00	
Selenium	0.680	1.11	0.293	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-634**	**N/A**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 12:22**	**140925L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-635**	**N/A**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 12:24**	**140925L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-636**	**N/A**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 12:25**	**140925L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-637**	**N/A**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 12:27**	**140925L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-638**	**N/A**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 12:29**	**140925L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-639**	**N/A**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 12:30**	**140925L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-640**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:32**	**140926L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-641**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:34**	**140926L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-642**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:36**	**140926L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-643**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:41**	**140926L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-644**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:42**	**140926L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-645**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:44**	**140926L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-646**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:46**	**140926L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-647**	**N/A**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:48**	**140926L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Grand Park / 13046.01			Page 1 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b	**14-09-1641-5-A**	**09/18/14 08:25**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 14:18**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.8	1.8	5.0	1.6	1.00	
Alpha-BHC	ND	5.8	1.9	5.0	1.6	1.00	
Beta-BHC	ND	5.8	1.5	5.0	1.3	1.00	
4,4'-DDD	ND	5.8	1.8	5.0	1.6	1.00	
Delta-BHC	ND	5.8	1.5	5.0	1.3	1.00	
Endosulfan II	ND	5.8	1.6	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.8	2.0	5.0	1.7	1.00	
Endrin	ND	5.8	2.1	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.8	1.4	5.0	1.2	1.00	
Gamma-BHC	ND	5.8	2.0	5.0	1.7	1.00	
Heptachlor	ND	5.8	1.9	5.0	1.6	1.00	
Heptachlor Epoxide	32	5.8	2.1	5.0	1.8	1.00	
Methoxychlor	ND	5.8	1.9	5.0	1.6	1.00	
Toxaphene	2100	120	37	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

8F-b	**14-09-1641-5-A**	**09/18/14 08:25**	**Solid**	**GC 44**	**09/23/14**	**09/27/14 17:00**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Chlordane	4700	1200	380	50	16	20.0	
4,4'-DDE	300	120	35	5.0	1.5	20.0	
4,4'-DDT	180	120	39	5.0	1.7	20.0	
Dieldrin	330	120	38	5.0	1.6	20.0	
Endosulfan I	71	120	30	5.0	1.3	20.0	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-c	**14-09-1641-94-A**	**09/18/14 09:07**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 14:33**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.6	1.8	5.0	1.6	1.00	
Alpha-BHC	ND	5.6	1.8	5.0	1.6	1.00	
Beta-BHC	ND	5.6	1.5	5.0	1.3	1.00	
Chlordane	ND	56	18	50	16	1.00	
4,4'-DDD	ND	5.6	1.8	5.0	1.6	1.00	
4,4'-DDE	ND	5.6	1.7	5.0	1.5	1.00	
4,4'-DDT	ND	5.6	1.9	5.0	1.7	1.00	
Delta-BHC	ND	5.6	1.4	5.0	1.3	1.00	
Dieldrin	ND	5.6	1.8	5.0	1.6	1.00	
Endosulfan I	ND	5.6	1.5	5.0	1.3	1.00	
Endosulfan II	ND	5.6	1.6	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.6	1.9	5.0	1.7	1.00	
Endrin	ND	5.6	2.0	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.6	1.4	5.0	1.2	1.00	
Gamma-BHC	ND	5.6	1.9	5.0	1.7	1.00	
Heptachlor	ND	5.6	1.8	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.6	2.0	5.0	1.8	1.00	
Methoxychlor	ND	5.6	1.8	5.0	1.6	1.00	
Toxaphene	ND	110	35	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-b	**14-09-1641-95-A**	**09/18/14 09:03**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 14:47**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.7	1.8	5.0	1.6	1.00	
Alpha-BHC	ND	5.7	1.9	5.0	1.6	1.00	
Beta-BHC	ND	5.7	1.5	5.0	1.3	1.00	
Chlordane	ND	57	19	50	16	1.00	
4,4'-DDD	ND	5.7	1.8	5.0	1.6	1.00	
4,4'-DDE	ND	5.7	1.7	5.0	1.5	1.00	
4,4'-DDT	ND	5.7	1.9	5.0	1.7	1.00	
Delta-BHC	ND	5.7	1.5	5.0	1.3	1.00	
Dieldrin	ND	5.7	1.9	5.0	1.6	1.00	
Endosulfan I	ND	5.7	1.5	5.0	1.3	1.00	
Endosulfan II	ND	5.7	1.6	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.7	1.9	5.0	1.7	1.00	
Endrin	ND	5.7	2.0	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.7	1.4	5.0	1.2	1.00	
Gamma-BHC	ND	5.7	2.0	5.0	1.7	1.00	
Heptachlor	ND	5.7	1.8	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.7	2.0	5.0	1.8	1.00	
Methoxychlor	ND	5.7	1.9	5.0	1.6	1.00	
Toxaphene	ND	110	36	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	24-168	
2,4,5,6-Tetrachloro-m-Xylene	73	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-a	**14-09-1641-96-A**	**09/18/14 08:45**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 15:01**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.7	1.8	5.0	1.6	1.00	
Alpha-BHC	ND	5.7	1.8	5.0	1.6	1.00	
Beta-BHC	ND	5.7	1.5	5.0	1.3	1.00	
4,4'-DDD	ND	5.7	1.8	5.0	1.6	1.00	
Delta-BHC	ND	5.7	1.5	5.0	1.3	1.00	
Endosulfan I	20	5.7	1.5	5.0	1.3	1.00	
Endosulfan II	ND	5.7	1.6	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.7	1.9	5.0	1.7	1.00	
Endrin	ND	5.7	2.0	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.7	1.4	5.0	1.2	1.00	
Gamma-BHC	ND	5.7	2.0	5.0	1.7	1.00	
Heptachlor	ND	5.7	1.8	5.0	1.6	1.00	
Heptachlor Epoxide	13	5.7	2.0	5.0	1.8	1.00	
Methoxychlor	ND	5.7	1.8	5.0	1.6	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

10F-a	14-09-1641-96-A	09/18/14 08:45	Solid	GC 44	09/23/14	09/27/14 16:46	140923L01

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Chlordane	2500	1100	370	50	16	20.0	
4,4'-DDE	510	110	34	5.0	1.5	20.0	
4,4'-DDT	89	110	38	5.0	1.7	20.0	J
Dieldrin	320	110	37	5.0	1.6	20.0	
Toxaphene	3100	2300	720	100	32	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c	**14-09-1641-97-A**	**09/18/14 08:36**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 15:16**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.8	1.8	5.0	1.6	1.00	
Alpha-BHC	ND	5.8	1.9	5.0	1.6	1.00	
Beta-BHC	ND	5.8	1.5	5.0	1.3	1.00	
Chlordane	ND	58	19	50	16	1.00	
4,4'-DDD	ND	5.8	1.8	5.0	1.6	1.00	
4,4'-DDE	5.8	5.8	1.7	5.0	1.5	1.00	
4,4'-DDT	2.8	5.8	1.9	5.0	1.7	1.00	J
Delta-BHC	ND	5.8	1.5	5.0	1.3	1.00	
Dieldrin	32	5.8	1.9	5.0	1.6	1.00	
Endosulfan I	ND	5.8	1.5	5.0	1.3	1.00	
Endosulfan II	ND	5.8	1.6	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.8	2.0	5.0	1.7	1.00	
Endrin	ND	5.8	2.1	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.8	1.4	5.0	1.2	1.00	
Gamma-BHC	ND	5.8	2.0	5.0	1.7	1.00	
Heptachlor	ND	5.8	1.9	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.8	2.1	5.0	1.8	1.00	
Methoxychlor	ND	5.8	1.9	5.0	1.6	1.00	
Toxaphene	58	120	37	100	32	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	24-168	
2,4,5,6-Tetrachloro-m-Xylene	73	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-f	**14-09-1641-122-A**	**09/18/14 09:28**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 15:30**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.4	1.7	5.0	1.6	1.00	
Alpha-BHC	ND	5.4	1.8	5.0	1.6	1.00	
Beta-BHC	ND	5.4	1.4	5.0	1.3	1.00	
Chlordane	ND	54	18	50	16	1.00	
4,4'-DDD	ND	5.4	1.7	5.0	1.6	1.00	
4,4'-DDE	1.9	5.4	1.6	5.0	1.5	1.00	J
4,4'-DDT	ND	5.4	1.8	5.0	1.7	1.00	
Delta-BHC	ND	5.4	1.4	5.0	1.3	1.00	
Dieldrin	ND	5.4	1.8	5.0	1.6	1.00	
Endosulfan I	ND	5.4	1.4	5.0	1.3	1.00	
Endosulfan II	ND	5.4	1.5	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.4	1.8	5.0	1.7	1.00	
Endrin	ND	5.4	1.9	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.4	1.3	5.0	1.2	1.00	
Gamma-BHC	ND	5.4	1.9	5.0	1.7	1.00	
Heptachlor	ND	5.4	1.7	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.4	1.9	5.0	1.8	1.00	
Methoxychlor	ND	5.4	1.8	5.0	1.6	1.00	
Toxaphene	36	110	34	100	32	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-d	**14-09-1641-123-A**	**09/18/14 09:25**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 15:45**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.4	1.7	5.0	1.6	1.00	
Alpha-BHC	ND	5.4	1.7	5.0	1.6	1.00	
Beta-BHC	ND	5.4	1.4	5.0	1.3	1.00	
Chlordane	ND	54	18	50	16	1.00	
4,4'-DDD	2.2	5.4	1.7	5.0	1.6	1.00	J
4,4'-DDE	2.0	5.4	1.6	5.0	1.5	1.00	J
4,4'-DDT	ND	5.4	1.8	5.0	1.7	1.00	
Delta-BHC	ND	5.4	1.4	5.0	1.3	1.00	
Dieldrin	ND	5.4	1.8	5.0	1.6	1.00	
Endosulfan I	ND	5.4	1.4	5.0	1.3	1.00	
Endosulfan II	ND	5.4	1.5	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.4	1.8	5.0	1.7	1.00	
Endrin	ND	5.4	1.9	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.4	1.3	5.0	1.2	1.00	
Gamma-BHC	ND	5.4	1.9	5.0	1.7	1.00	
Heptachlor	ND	5.4	1.7	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.4	1.9	5.0	1.8	1.00	
Methoxychlor	ND	5.4	1.7	5.0	1.6	1.00	
Toxaphene	ND	110	34	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Grand Park / 13046.01			Page 8 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e	**14-09-1641-124-A**	**09/18/14 09:21**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 15:59**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.5	1.7	5.0	1.6	1.00	
Alpha-BHC	ND	5.5	1.8	5.0	1.6	1.00	
Beta-BHC	ND	5.5	1.4	5.0	1.3	1.00	
Chlordane	ND	55	18	50	16	1.00	
4,4'-DDD	ND	5.5	1.7	5.0	1.6	1.00	
4,4'-DDE	7.8	5.5	1.6	5.0	1.5	1.00	
4,4'-DDT	ND	5.5	1.8	5.0	1.7	1.00	
Delta-BHC	ND	5.5	1.4	5.0	1.3	1.00	
Dieldrin	ND	5.5	1.8	5.0	1.6	1.00	
Endosulfan I	ND	5.5	1.4	5.0	1.3	1.00	
Endosulfan II	ND	5.5	1.5	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.5	1.8	5.0	1.7	1.00	
Endrin	ND	5.5	2.0	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.5	1.3	5.0	1.2	1.00	
Gamma-BHC	ND	5.5	1.9	5.0	1.7	1.00	
Heptachlor	ND	5.5	1.8	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.5	1.9	5.0	1.8	1.00	
Methoxychlor	ND	5.5	1.8	5.0	1.6	1.00	
Toxaphene	48	110	35	100	32	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	64	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-f	**14-09-1641-125-A**	**09/18/14 09:15**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 16:14**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.4	1.7	5.0	1.6	1.00	
Alpha-BHC	ND	5.4	1.7	5.0	1.6	1.00	
Beta-BHC	ND	5.4	1.4	5.0	1.3	1.00	
Chlordane	ND	54	18	50	16	1.00	
4,4'-DDD	ND	5.4	1.7	5.0	1.6	1.00	
4,4'-DDE	ND	5.4	1.6	5.0	1.5	1.00	
4,4'-DDT	ND	5.4	1.8	5.0	1.7	1.00	
Delta-BHC	ND	5.4	1.4	5.0	1.3	1.00	
Dieldrin	ND	5.4	1.8	5.0	1.6	1.00	
Endosulfan I	ND	5.4	1.4	5.0	1.3	1.00	
Endosulfan II	ND	5.4	1.5	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.4	1.8	5.0	1.7	1.00	
Endrin	ND	5.4	1.9	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.4	1.3	5.0	1.2	1.00	
Gamma-BHC	ND	5.4	1.9	5.0	1.7	1.00	
Heptachlor	ND	5.4	1.7	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.4	1.9	5.0	1.8	1.00	
Methoxychlor	ND	5.4	1.7	5.0	1.6	1.00	
Toxaphene	ND	110	34	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
140918DUP-1	**14-09-1641-269-A**	**09/18/14 12:00**	**Solid**	**GC 44**	**09/23/14**	**09/26/14 16:28**	**140923L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.6	1.7	5.0	1.6	1.00	
Alpha-BHC	ND	5.6	1.8	5.0	1.6	1.00	
Beta-BHC	ND	5.6	1.5	5.0	1.3	1.00	
Chlordane	ND	56	18	50	16	1.00	
4,4'-DDD	1.8	5.6	1.8	5.0	1.6	1.00	J
4,4'-DDE	ND	5.6	1.7	5.0	1.5	1.00	
4,4'-DDT	ND	5.6	1.9	5.0	1.7	1.00	
Delta-BHC	ND	5.6	1.4	5.0	1.3	1.00	
Dieldrin	ND	5.6	1.8	5.0	1.6	1.00	
Endosulfan I	ND	5.6	1.5	5.0	1.3	1.00	
Endosulfan II	ND	5.6	1.6	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.6	1.9	5.0	1.7	1.00	
Endrin	ND	5.6	2.0	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.6	1.4	5.0	1.2	1.00	
Gamma-BHC	ND	5.6	1.9	5.0	1.7	1.00	
Heptachlor	ND	5.6	1.8	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.6	2.0	5.0	1.8	1.00	
Methoxychlor	ND	5.6	1.8	5.0	1.6	1.00	
Toxaphene	ND	110	35	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-1807**	**N/A**	**Solid**	**GC 44**	**09/23/14**	**09/23/14 15:18**	**140923L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.0	1.6	5.0	1.6	1.00	
Alpha-BHC	ND	5.0	1.6	5.0	1.6	1.00	
Beta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Chlordane	ND	50	16	50	16	1.00	
4,4'-DDD	ND	5.0	1.6	5.0	1.6	1.00	
4,4'-DDE	ND	5.0	1.5	5.0	1.5	1.00	
4,4'-DDT	ND	5.0	1.7	5.0	1.7	1.00	
Delta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Dieldrin	ND	5.0	1.6	5.0	1.6	1.00	
Endosulfan I	ND	5.0	1.3	5.0	1.3	1.00	
Endosulfan II	ND	5.0	1.4	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.0	1.7	5.0	1.7	1.00	
Endrin	ND	5.0	1.8	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.0	1.2	5.0	1.2	1.00	
Gamma-BHC	ND	5.0	1.7	5.0	1.7	1.00	
Heptachlor	ND	5.0	1.6	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.0	1.8	5.0	1.8	1.00	
Methoxychlor	ND	5.0	1.6	5.0	1.6	1.00	
Toxaphene	ND	100	32	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	100	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b	**14-09-1641-5-A**	**09/18/14 08:25**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 16:42**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	290	84	250	73	1.00	
Dicamba	ND	12	1.4	10	1.2	1.00	
MCPP	ND	12000	3700	10000	3200	1.00	
MCPA	ND	12000	2400	10000	2100	1.00	
Dichlorprop	ND	120	19	100	17	1.00	
2,4-D	ND	120	17	100	14	1.00	
2,4,5-TP (Silvex)	ND	12	2.7	10	2.3	1.00	
2,4,5-T	ND	12	1.3	10	1.1	1.00	
2,4-DB	ND	120	18	100	16	1.00	
Dinoseb	ND	58	5.9	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	109	30-150	

10F-c	14-09-1641-94-A	09/18/14 09:07	Solid	GC 40	09/22/14	09/24/14 17:06	140922L08

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	280	81	250	73	1.00	
Dicamba	ND	11	1.4	10	1.2	1.00	
MCPP	ND	11000	3500	10000	3200	1.00	
MCPA	ND	11000	2300	10000	2100	1.00	
Dichlorprop	ND	110	19	100	17	1.00	
2,4-D	ND	110	16	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.6	10	2.3	1.00	
2,4,5-T	ND	11	1.3	10	1.1	1.00	
2,4-DB	ND	110	18	100	16	1.00	
Dinoseb	ND	56	5.7	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	98	30-150	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-b	**14-09-1641-95-B**	**09/18/14 09:03**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 17:29**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	280	83	250	73	1.00	
Dicamba	ND	11	1.4	10	1.2	1.00	
MCPP	ND	11000	3600	10000	3200	1.00	
MCPA	ND	11000	2300	10000	2100	1.00	
Dichlorprop	ND	110	19	100	17	1.00	
2,4-D	ND	110	16	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.7	10	2.3	1.00	
2,4,5-T	ND	11	1.3	10	1.1	1.00	
2,4-DB	ND	110	18	100	16	1.00	
Dinoseb	ND	57	5.8	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	118	30-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-a	**14-09-1641-96-A**	**09/18/14 08:45**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 17:52**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	280	82	250	73	1.00	
Dicamba	ND	11	1.4	10	1.2	1.00	
MCPP	ND	11000	3600	10000	3200	1.00	
MCPA	ND	11000	2300	10000	2100	1.00	
Dichlorprop	ND	110	19	100	17	1.00	
2,4-D	ND	110	16	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.7	10	2.3	1.00	
2,4,5-T	ND	11	1.3	10	1.1	1.00	
2,4-DB	ND	110	18	100	16	1.00	
Dinoseb	ND	56	5.7	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	101	30-150	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c	**14-09-1641-97-A**	**09/18/14 08:36**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 18:16**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	290	85	250	73	1.00	
Dicamba	ND	12	1.4	10	1.2	1.00	
MCPP	ND	12000	3700	10000	3200	1.00	
MCPA	ND	12000	2400	10000	2100	1.00	
Dichlorprop	ND	120	19	100	17	1.00	
2,4-D	ND	120	17	100	14	1.00	
2,4,5-TP (Silvex)	ND	12	2.7	10	2.3	1.00	
2,4,5-T	ND	12	1.3	10	1.1	1.00	
2,4-DB	ND	120	18	100	16	1.00	
Dinoseb	ND	58	5.9	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	100	30-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-f	**14-09-1641-122-A**	**09/18/14 09:28**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 18:39**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	270	79	250	73	1.00	
Dicamba	ND	11	1.3	10	1.2	1.00	
MCPP	ND	11000	3400	10000	3200	1.00	
MCPA	ND	11000	2200	10000	2100	1.00	
Dichlorprop	ND	110	18	100	17	1.00	
2,4-D	ND	110	15	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.5	10	2.3	1.00	
2,4,5-T	ND	11	1.2	10	1.1	1.00	
2,4-DB	ND	110	17	100	16	1.00	
Dinoseb	ND	54	5.5	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	116	30-150	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-d	**14-09-1641-123-A**	**09/18/14 09:25**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 19:02**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	270	78	250	73	1.00	
Dicamba	ND	11	1.3	10	1.2	1.00	
MCPP	ND	11000	3400	10000	3200	1.00	
MCPA	ND	11000	2200	10000	2100	1.00	
Dichlorprop	ND	110	18	100	17	1.00	
2,4-D	ND	110	15	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.5	10	2.3	1.00	
2,4,5-T	ND	11	1.2	10	1.1	1.00	
2,4-DB	ND	110	17	100	16	1.00	
Dinoseb	ND	54	5.4	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	105	30-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e	**14-09-1641-124-A**	**09/18/14 09:21**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 19:25**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	270	79	250	73	1.00	
Dicamba	ND	11	1.3	10	1.2	1.00	
MCPP	ND	11000	3400	10000	3200	1.00	
MCPA	ND	11000	2200	10000	2100	1.00	
Dichlorprop	ND	110	18	100	17	1.00	
2,4-D	ND	110	15	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.5	10	2.3	1.00	
2,4,5-T	ND	11	1.2	10	1.1	1.00	
2,4-DB	ND	110	17	100	16	1.00	
Dinoseb	ND	54	5.5	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	99	30-150	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-f	**14-09-1641-125-A**	**09/18/14 09:15**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 19:49**	**140922L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	270	79	250	73	1.00	
Dicamba	ND	11	1.3	10	1.2	1.00	
MCPP	ND	11000	3400	10000	3200	1.00	
MCPA	ND	11000	2200	10000	2100	1.00	
Dichlorprop	ND	110	18	100	17	1.00	
2,4-D	ND	110	15	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.5	10	2.3	1.00	
2,4,5-T	ND	11	1.2	10	1.1	1.00	
2,4-DB	ND	110	17	100	16	1.00	
Dinoseb	ND	54	5.5	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	112	30-150	

140918DUP-1	14-09-1641-269-A	09/18/14 12:00	Solid	GC 40	09/22/14	09/24/14 20:12	140922L08

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	280	81	250	73	1.00	
Dicamba	ND	11	1.4	10	1.2	1.00	
MCPP	3900	11000	3500	10000	3200	1.00	J
MCPA	3300	11000	2300	10000	2100	1.00	J
Dichlorprop	ND	110	19	100	17	1.00	
2,4-D	ND	110	16	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.6	10	2.3	1.00	
2,4,5-T	ND	11	1.3	10	1.1	1.00	
2,4-DB	ND	110	18	100	16	1.00	
Dinoseb	ND	56	5.6	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	102	30-150	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-783-20**	**N/A**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 13:59**	**140922L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	250	73	250	73	1.00	
Dicamba	ND	10	1.2	10	1.2	1.00	
MCPP	ND	10000	3200	10000	3200	1.00	
MCPA	ND	10000	2100	10000	2100	1.00	
Dichlorprop	ND	100	17	100	17	1.00	
2,4-D	ND	100	14	100	14	1.00	
2,4,5-TP (Silvex)	ND	10	2.3	10	2.3	1.00	
2,4,5-T	ND	10	1.1	10	1.1	1.00	
2,4-DB	ND	100	16	100	16	1.00	
Dinoseb	ND	50	5.1	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	114	30-150	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b	**14-09-1641-5-B**	**09/18/14 08:25**	**Solid**	**GC/MS BB**	**09/22/14**	**09/23/14 22:06**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.9	0.15	5.0	0.13	1.00	
Ethylbenzene	ND	5.9	0.18	5.0	0.15	1.00	
Toluene	ND	5.9	0.61	5.0	0.52	1.00	
p/m-Xylene	ND	5.9	0.32	5.0	0.27	1.00	
o-Xylene	ND	5.9	0.66	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	60-132	
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	94	80-120	

10F-c	**14-09-1641-94-B**	**09/18/14 09:07**	**Solid**	**GC/MS BB**	**09/22/14**	**09/23/14 22:33**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.7	0.15	5.0	0.13	1.00	
Ethylbenzene	ND	5.7	0.17	5.0	0.15	1.00	
Toluene	ND	5.7	0.58	5.0	0.52	1.00	
p/m-Xylene	ND	5.7	0.30	5.0	0.27	1.00	
o-Xylene	ND	5.7	0.63	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	60-132	
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	94	80-120	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-b	**14-09-1641-95-A**	**09/18/14 09:03**	**Solid**	**GC/MS BB**	**09/22/14**	**09/23/14 23:01**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.8	0.15	5.0	0.13	1.00	
Ethylbenzene	ND	5.8	0.18	5.0	0.15	1.00	
Toluene	ND	5.8	0.60	5.0	0.52	1.00	
p/m-Xylene	ND	5.8	0.31	5.0	0.27	1.00	
o-Xylene	ND	5.8	0.64	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	60-132	
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	95	80-120	

10F-a	**14-09-1641-96-B**	**09/18/14 08:45**	**Solid**	**GC/MS BB**	**09/22/14**	**09/23/14 23:28**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.7	0.15	5.0	0.13	1.00	
Ethylbenzene	ND	5.7	0.17	5.0	0.15	1.00	
Toluene	ND	5.7	0.58	5.0	0.52	1.00	
p/m-Xylene	ND	5.7	0.30	5.0	0.27	1.00	
o-Xylene	ND	5.7	0.63	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	60-132	
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	95	80-120	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c	**14-09-1641-97-B**	**09/18/14 08:36**	**Solid**	**GC/MS BB**	**09/22/14**	**09/23/14 23:55**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	6.0	0.15	5.0	0.13	1.00	
Ethylbenzene	ND	6.0	0.18	5.0	0.15	1.00	
Toluene	ND	6.0	0.61	5.0	0.52	1.00	
p/m-Xylene	ND	6.0	0.32	5.0	0.27	1.00	
o-Xylene	ND	6.0	0.66	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	60-132	
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	95	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-f	**14-09-1641-122-B**	**09/18/14 09:28**	**Solid**	**GC/MS Q**	**09/22/14**	**09/24/14 19:11**	**140924L026**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.4	0.14	5.0	0.13	1.00	
Ethylbenzene	ND	5.4	0.17	5.0	0.15	1.00	
Toluene	ND	5.4	0.56	5.0	0.52	1.00	
p/m-Xylene	ND	5.4	0.29	5.0	0.27	1.00	
o-Xylene	ND	5.4	0.61	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	95	80-120	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: Grand Park / 13046.01

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-d	**14-09-1641-123-B**	**09/18/14 09:25**	**Solid**	**GC/MS BB**	**09/22/14**	**09/24/14 00:22**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.4	0.14	5.0	0.13	1.00	
Ethylbenzene	ND	5.4	0.16	5.0	0.15	1.00	
Toluene	ND	5.4	0.55	5.0	0.52	1.00	
p/m-Xylene	ND	5.4	0.29	5.0	0.27	1.00	
o-Xylene	ND	5.4	0.60	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	60-132	
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	95	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e	**14-09-1641-124-B**	**09/18/14 09:21**	**Solid**	**GC/MS BB**	**09/22/14**	**09/24/14 00:49**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.2	0.13	5.0	0.13	1.00	
Ethylbenzene	ND	5.2	0.16	5.0	0.15	1.00	
Toluene	ND	5.2	0.53	5.0	0.52	1.00	
p/m-Xylene	ND	5.2	0.28	5.0	0.27	1.00	
o-Xylene	ND	5.2	0.57	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	60-132	
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	95	80-120	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: Grand Park / 13046.01

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-f	**14-09-1641-125-B**	**09/18/14 09:15**	**Solid**	**GC/MS BB**	**09/22/14**	**09/24/14 01:15**	**140923L021**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.3	0.14	5.0	0.13	1.00	
Ethylbenzene	ND	5.3	0.16	5.0	0.15	1.00	
Toluene	ND	5.3	0.54	5.0	0.52	1.00	
p/m-Xylene	ND	5.3	0.28	5.0	0.27	1.00	
o-Xylene	ND	5.3	0.58	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	60-132	
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	94	80-120	

140918DUP-1	14-09-1641-269-B	09/18/14 12:00	Solid	GC/MS Q	09/22/14	09/24/14 19:38	140924L026

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.6	0.15	5.0	0.13	1.00	
Ethylbenzene	ND	5.6	0.17	5.0	0.15	1.00	
Toluene	ND	5.6	0.58	5.0	0.52	1.00	
p/m-Xylene	ND	5.6	0.30	5.0	0.27	1.00	
o-Xylene	ND	5.6	0.62	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	94	80-120	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-8900**	**N/A**	**Solid**	**GC/MS BB**	**09/23/14**	**09/23/14 15:47**	**140923L021**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.0	0.13	5.0	0.13	1.00	
Ethylbenzene	ND	5.0	0.15	5.0	0.15	1.00	
Toluene	ND	5.0	0.52	5.0	0.52	1.00	
p/m-Xylene	ND	5.0	0.27	5.0	0.27	1.00	
o-Xylene	ND	5.0	0.56	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	95	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-8906**	**N/A**	**Solid**	**GC/MS Q**	**09/24/14**	**09/24/14 15:10**	**140924L026**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.0	0.13	5.0	0.13	1.00	
Ethylbenzene	ND	5.0	0.15	5.0	0.15	1.00	
Toluene	ND	5.0	0.52	5.0	0.52	1.00	
p/m-Xylene	ND	5.0	0.27	5.0	0.27	1.00	
o-Xylene	ND	5.0	0.56	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	60-132	
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	96	80-120	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 1 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
8G-c	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:13**	**140925S01**
8G-c	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:32**	**140925S01**
8G-c	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:34**	**140925S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.979	25.00	31.25	101	31.17	101	72-132	0	0-13	
Cadmium	ND	25.00	27.57	110	28.06	112	85-121	2	0-12	
Lead	34.28	25.00	57.59	93	58.02	95	62-134	1	0-23	
Selenium	ND	25.00	25.39	102	25.64	103	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
8B-e	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:19**	**140925S02**
8B-e	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:37**	**140925S02**
8B-e	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:39**	**140925S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.911	25.00	30.70	99	30.85	100	72-132	0	0-13	
Cadmium	ND	25.00	27.82	111	27.79	111	85-121	0	0-12	
Lead	20.41	25.00	47.75	109	48.18	111	62-134	1	0-23	
Selenium	ND	25.00	24.96	100	25.11	100	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
8D-g	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:20**	**140925S03**
8D-g	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:42**	**140925S03**
8D-g	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:44**	**140925S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.291	25.00	27.48	85	28.39	88	72-132	3	0-13	
Cadmium	ND	25.00	26.14	105	26.42	106	85-121	1	0-12	
Lead	20.65	25.00	43.56	92	43.60	92	62-134	0	0-23	
Selenium	ND	25.00	21.95	88	23.07	92	54-132	5	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
9E-c	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:22**	**140925S04**
9E-c	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:51**	**140925S04**
9E-c	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:53**	**140925S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.626	25.00	32.35	103	32.31	103	72-132	0	0-13	
Cadmium	ND	25.00	28.24	113	27.99	112	85-121	1	0-12	
Lead	21.21	25.00	48.80	110	48.89	111	62-134	0	0-23	
Selenium	ND	25.00	24.55	98	24.61	98	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 5 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
9B-h	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:24**	**140925S05**
9B-h	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:56**	**140925S05**
9B-h	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:58**	**140925S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.069	25.00	30.86	95	30.40	93	72-132	1	0-13	
Cadmium	ND	25.00	28.57	114	28.30	113	85-121	1	0-12	
Lead	27.90	25.00	53.85	104	53.77	103	62-134	0	0-23	
Selenium	ND	25.00	25.24	101	25.37	101	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 6 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10D-b	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 17:25**	**140925S06**
10D-b	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 14:01**	**140925S06**
10D-b	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 14:03**	**140925S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.187	25.00	33.19	108	33.61	110	72-132	1	0-13	
Cadmium	ND	25.00	28.75	115	29.27	117	85-121	2	0-12	
Lead	19.33	25.00	49.11	119	49.18	119	62-134	0	0-23	
Selenium	ND	25.00	25.83	103	26.55	106	54-132	3	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 7 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10E-e	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:27**	**140926S01**
10E-e	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 14:06**	**140926S01**
10E-e	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 15:46**	**140926S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.761	25.00	39.39	119	39.34	118	72-132	0	0-13	
Cadmium	ND	25.00	26.66	107	26.81	107	85-121	1	0-12	
Lead	14.54	25.00	42.33	111	42.22	111	62-134	0	0-23	
Selenium	ND	25.00	25.59	102	26.21	105	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 8 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11A-a	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:29**	**140926S02**
11A-a	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 15:50**	**140926S02**
11A-a	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 15:51**	**140926S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.012	25.00	36.24	117	36.18	117	72-132	0	0-13	
Cadmium	ND	25.00	27.03	108	27.04	108	85-121	0	0-12	
Lead	7.268	25.00	40.65	134	40.21	132	62-134	1	0-23	
Selenium	ND	25.00	21.64	87	21.54	86	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 9 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11D-d	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:31**	**140926S03**
11D-d	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 15:55**	**140926S03**
11D-d	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 15:56**	**140926S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.759	25.00	37.67	112	37.83	112	72-132	0	0-13	
Cadmium	ND	25.00	28.29	113	28.26	113	85-121	0	0-12	
Lead	21.37	25.00	49.15	111	49.27	112	62-134	0	0-23	
Selenium	ND	25.00	25.22	101	25.15	101	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 10 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11E-i	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:32**	**140926S04**
11E-i	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:00**	**140926S04**
11E-i	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:05**	**140926S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.207	25.00	35.35	109	35.20	108	72-132	0	0-13	
Cadmium	ND	25.00	28.06	112	27.98	112	85-121	0	0-12	
Lead	38.04	25.00	63.54	102	63.59	102	62-134	0	0-23	
Selenium	ND	25.00	25.32	101	25.59	102	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 11 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12E-d	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:34**	**140926S05**
12E-d	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:08**	**140926S05**
12E-d	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:10**	**140926S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	14.90	25.00	40.78	104	40.64	103	72-132	0	0-13	
Cadmium	ND	25.00	28.43	114	28.26	113	85-121	1	0-12	
Lead	22.71	25.00	48.62	104	49.01	105	62-134	1	0-23	
Selenium	ND	25.00	24.58	98	24.17	97	54-132	2	0-14	

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12D-i	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:39**	**140926S06**
12D-i	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:14**	**140926S06**
12D-i	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:15**	**140926S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	13.75	25.00	37.66	96	38.12	97	72-132	1	0-13	
Cadmium	ND	25.00	27.48	110	27.85	111	85-121	1	0-12	
Lead	21.20	25.00	47.23	104	47.56	105	62-134	1	0-23	
Selenium	ND	25.00	23.53	94	23.51	94	54-132	0	0-14	

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13A-a	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:41**	**140926S07**
13A-a	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:19**	**140926S07**
13A-a	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:20**	**140926S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.638	25.00	38.80	117	37.96	113	72-132	2	0-13	
Cadmium	ND	25.00	27.62	110	27.61	110	85-121	0	0-12	
Lead	13.42	25.00	42.22	115	42.55	117	62-134	1	0-23	
Selenium	ND	25.00	21.96	88	21.90	88	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
140916DUP-2	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 17:43**	**140926S08**
140916DUP-2	**Matrix Spike**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:27**	**140926S08**
140916DUP-2	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 16:29**	**140926S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	4.930	25.00	29.51	98	29.88	100	72-132	1	0-13	
Cadmium	ND	25.00	29.24	117	28.62	114	85-121	2	0-12	
Lead	21.82	25.00	49.66	111	49.73	112	62-134	0	0-23	
Selenium	ND	25.00	25.23	101	25.84	103	54-132	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1713-1	**Sample**	**Solid**	**GC 44**	**09/23/14**	**09/23/14 15:47**	**140923S01**
14-09-1713-1	**Matrix Spike**	**Solid**	**GC 44**	**09/23/14**	**09/23/14 16:02**	**140923S01**
14-09-1713-1	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**09/23/14**	**09/23/14 16:16**	**140923S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	28.33	113	26.33	105	50-135	7	0-25	
Alpha-BHC	ND	25.00	27.69	111	25.78	103	50-135	7	0-25	
Beta-BHC	ND	25.00	29.21	117	27.01	108	50-135	8	0-25	
4,4'-DDD	ND	25.00	29.02	116	26.86	107	50-135	8	0-25	
4,4'-DDE	ND	25.00	28.52	114	26.59	106	50-135	7	0-25	
4,4'-DDT	ND	25.00	26.22	105	24.56	98	50-135	7	0-25	
Delta-BHC	ND	25.00	19.08	76	17.71	71	50-135	7	0-25	
Dieldrin	ND	25.00	28.91	116	27.07	108	50-135	7	0-25	
Endosulfan I	ND	25.00	27.99	112	26.45	106	50-135	6	0-25	
Endosulfan II	ND	25.00	28.74	115	25.50	102	50-135	12	0-25	
Endosulfan Sulfate	ND	25.00	26.02	104	24.31	97	50-135	7	0-25	
Endrin	ND	25.00	30.66	123	28.52	114	50-135	7	0-25	
Endrin Aldehyde	ND	25.00	23.19	93	21.96	88	50-135	5	0-25	
Gamma-BHC	ND	25.00	29.24	117	27.17	109	50-135	7	0-25	
Heptachlor	ND	25.00	29.97	120	28.06	112	50-135	7	0-25	
Heptachlor Epoxide	ND	25.00	27.96	112	26.13	105	50-135	7	0-25	
Methoxychlor	ND	25.00	26.45	106	24.82	99	50-135	6	0-25	

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10F-c	**Sample**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 17:06**	**140922S08**
10F-c	**Matrix Spike**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 14:22**	**140922S08**
10F-c	**Matrix Spike Duplicate**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 14:46**	**140922S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Dalapon	ND	1000	1014	101	1136	114	30-150	11	0-30	
Dicamba	ND	40.00	42.90	107	47.60	119	30-150	10	0-30	
MCPP	ND	40000	47050	118	51800	130	30-150	10	0-30	
MCPA	ND	40000	43010	108	48660	122	30-150	12	0-30	
Dichlorprop	ND	400.0	428.9	107	469.6	117	30-150	9	0-30	
2,4-D	ND	400.0	415.1	104	463.3	116	30-130	11	0-30	
2,4,5-TP (Silvex)	ND	40.00	44.30	111	48.50	121	30-150	9	0-30	
2,4,5-T	ND	40.00	43.80	110	48.30	121	30-130	10	0-30	
2,4-DB	ND	400.0	461.6	115	519.1	130	30-130	12	0-30	
Dinoseb	ND	200.0	100.3	50	116.4	58	10-150	15	0-30	

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 5030C
		Method:	EPA 8260B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1831-1	**Sample**	**Solid**	**GC/MS Q**	**09/24/14**	**09/24/14 16:04**	**140924S023**
14-09-1831-1	**Matrix Spike**	**Solid**	**GC/MS Q**	**09/24/14**	**09/24/14 17:51**	**140924S023**
14-09-1831-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS Q**	**09/24/14**	**09/24/14 18:18**	**140924S023**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	5000	5097	102	4873	97	61-127	4	0-20	
Ethylbenzene	ND	5000	5273	105	5046	101	57-129	4	0-22	
Toluene	ND	5000	5362	107	4943	99	63-123	8	0-20	
p/m-Xylene	ND	10000	11020	110	10390	104	70-130	6	0-30	
o-Xylene	ND	5000	5517	110	5212	104	70-130	6	0-30	

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Quality Control - Spike/Spike Duplicate

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Austin, TX 78701-2053		Preparation:	EPA 5030C
		Method:	EPA 8260B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1745-11	**Sample**	**Solid**	**GC/MS BB**	**09/23/14**	**09/23/14 16:41**	**140923S020**
14-09-1745-11	**Matrix Spike**	**Solid**	**GC/MS BB**	**09/23/14**	**09/23/14 17:08**	**140923S020**
14-09-1745-11	**Matrix Spike Duplicate**	**Solid**	**GC/MS BB**	**09/23/14**	**09/23/14 17:35**	**140923S020**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.96	96	48.83	98	61-127	2	0-20	
Ethylbenzene	ND	50.00	50.42	101	51.01	102	57-129	1	0-22	
Toluene	ND	50.00	49.44	99	50.44	101	63-123	2	0-20	
p/m-Xylene	ND	100.0	106.3	106	106.9	107	70-130	1	0-30	
o-Xylene	ND	50.00	50.26	101	50.95	102	70-130	1	0-30	

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Quality Control - PDS

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812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
8G-c	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 17:13**	**140925S01**
8G-c	**PDS**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 13:35**	**140925S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.979	25.00	32.12	105	75-125	
Cadmium	ND	25.00	27.24	109	75-125	
Lead	34.28	25.00	59.05	99	75-125	
Selenium	ND	25.00	26.96	108	75-125	

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
8B-e	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 17:19**	**140925S02**
8B-e	**PDS**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 13:40**	**140925S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.911	25.00	32.20	105	75-125	
Cadmium	ND	25.00	26.90	108	75-125	
Lead	20.41	25.00	46.19	103	75-125	
Selenium	ND	25.00	26.45	106	75-125	

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Quality Control - PDS

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812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
8D-g	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 17:20**	**140925S03**
8D-g	**PDS**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 13:46**	**140925S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.291	25.00	32.60	105	75-125	
Cadmium	ND	25.00	27.31	109	75-125	
Lead	20.65	25.00	46.01	101	75-125	
Selenium	ND	25.00	27.43	110	75-125	

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Quality Control - PDS

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
9E-c	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 17:22**	**140925S04**
9E-c	**PDS**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 13:54**	**140925S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.626	25.00	33.67	108	75-125	
Cadmium	ND	25.00	26.87	107	75-125	
Lead	21.21	25.00	46.34	101	75-125	
Selenium	ND	25.00	27.41	110	75-125	

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Quality Control - PDS

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Austin, TX 78701-2053		Preparation:	EPA 3050B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
9B-h	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 17:24**	**140925S05**
9B-h	**PDS**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 13:59**	**140925S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.069	25.00	33.99	108	75-125	
Cadmium	ND	25.00	27.01	108	75-125	
Lead	27.90	25.00	53.23	101	75-125	
Selenium	ND	25.00	26.80	107	75-125	

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
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Project: Grand Park / 13046.01

Date Received: 09/20/14
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Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
10D-b	**Sample**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 17:25**	**140925S06**
10D-b	**PDS**	**Solid**	**ICP/MS 03**	**09/25/14 00:00**	**09/26/14 14:04**	**140925S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.187	25.00	33.35	109	75-125	
Cadmium	ND	25.00	26.95	108	75-125	
Lead	19.33	25.00	45.07	103	75-125	
Selenium	ND	25.00	27.89	112	75-125	

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Austin, TX 78701-2053		Preparation:	EPA 3050B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
10E-e	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:27**	**140926S01**
10E-e	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 15:48**	**140926S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.761	25.00	38.45	115	75-125	
Cadmium	ND	25.00	25.73	103	75-125	
Lead	14.54	25.00	40.43	104	75-125	
Selenium	ND	25.00	27.12	108	75-125	

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
11A-a	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:29**	**140926S02**
11A-a	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 15:53**	**140926S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.012	25.00	34.19	109	75-125	
Cadmium	ND	25.00	27.00	108	75-125	
Lead	7.268	25.00	32.45	101	75-125	
Selenium	ND	25.00	29.13	117	75-125	

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Quality Control - PDS

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Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
11D-d	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:31**	**140926S03**
11D-d	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 15:58**	**140926S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.759	25.00	35.04	101	75-125	
Cadmium	ND	25.00	26.98	108	75-125	
Lead	21.37	25.00	46.32	100	75-125	
Selenium	ND	25.00	26.77	107	75-125	

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
11E-i	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:32**	**140926S04**
11E-i	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 16:07**	**140926S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.207	25.00	35.08	107	75-125	
Cadmium	ND	25.00	26.57	106	75-125	
Lead	38.04	25.00	62.75	99	75-125	
Selenium	ND	25.00	27.53	110	75-125	

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 11 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
12E-d	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:34**	**140926S05**
12E-d	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 16:12**	**140926S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	14.90	25.00	40.37	102	75-125	
Cadmium	ND	25.00	26.81	107	75-125	
Lead	22.71	25.00	47.45	99	75-125	
Selenium	ND	25.00	26.29	105	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 12 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
12D-i	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:39**	**140926S06**
12D-i	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 16:17**	**140926S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	13.75	25.00	39.39	103	75-125	
Cadmium	ND	25.00	26.99	108	75-125	
Lead	21.20	25.00	45.71	98	75-125	
Selenium	ND	25.00	26.86	107	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 13 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
13A-a	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:41**	**140926S07**
13A-a	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 16:26**	**140926S07**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.638	25.00	36.57	108	75-125	
Cadmium	ND	25.00	26.70	107	75-125	
Lead	13.42	25.00	39.01	102	75-125	
Selenium	ND	25.00	26.48	106	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 09/20/14
Work Order: 14-09-1641
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
140916DUP-2	**Sample**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 17:43**	**140926S08**
140916DUP-2	**PDS**	**Solid**	**ICP/MS 03**	**09/26/14 00:00**	**09/26/14 16:31**	**140926S08**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	4.930	25.00	31.09	105	75-125	
Cadmium	ND	25.00	27.14	109	75-125	
Lead	21.82	25.00	46.72	100	75-125	
Selenium	ND	25.00	27.15	109	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 1 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
8G-c	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 17:55**	**E0922MOID3**
8G-c	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 17:55**	**E0922MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	14.20	14.10	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 2 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
8B-e	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 18:30**	**E0922MOID4**
8B-e	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 18:30**	**E0922MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	11.70	11.90	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
8D-g	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 19:15**	**E0922MOID5**
8D-g	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 19:15**	**E0922MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	14.00	14.30	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
9E-c	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 20:00**	**E0922MOID6**
9E-c	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/22/14 20:00**	**E0922MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	15.30	15.70	3	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
11D-d	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 11:48**	**E0923MOIB6**
11D-d	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 11:48**	**E0923MOIB6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	11.60	11.40	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
9B-h	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 10:40**	**E0923MOID2**
9B-h	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 10:40**	**E0923MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	13.60	13.30	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
10D-b	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 10:55**	**E0923MOID3**
10D-b	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 10:55**	**E0923MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	14.60	13.90	5	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
10E-e	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 11:00**	**E0923MOID4**
10E-e	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 11:00**	**E0923MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	5.500	5.600	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
11A-a	**Sample**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 11:45**	**E0923MOID5**
11A-a	**Sample Duplicate**	**Solid**	**N/A**	**09/22/14 00:00**	**09/23/14 11:45**	**E0923MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	7.300	7.000	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 10 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
140916DUP-2	**Sample**	**Solid**	**N/A**	**09/23/14 00:00**	**09/23/14 16:50**	**E0923MOID7**
140916DUP-2	**Sample Duplicate**	**Solid**	**N/A**	**09/23/14 00:00**	**09/23/14 16:50**	**E0923MOID7**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	11.80	11.50	3	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 11 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
11E-i	**Sample**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 16:40**	**E0924MOID3**
11E-i	**Sample Duplicate**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 16:40**	**E0924MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	13.80	13.60	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
12E-d	**Sample**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 17:40**	**E0924MOID4**
12E-d	**Sample Duplicate**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 17:40**	**E0924MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	9.700	9.700	0	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 13 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
12D-i	**Sample**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 18:30**	**E0924MOID5**
12D-i	**Sample Duplicate**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 18:30**	**E0924MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	9.600	9.500	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 14 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
13A-a	**Sample**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 19:15**	**E0924MOID6**
13A-a	**Sample Duplicate**	**Solid**	**N/A**	**09/24/14 00:00**	**09/24/14 19:15**	**E0924MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	6.700	7.000	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 1 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-634	**LCS**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:06**	**140925L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.45	110	80-120	
Cadmium	25.00	26.20	105	80-120	
Lead	25.00	25.88	104	80-120	
Selenium	25.00	26.14	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-635	**LCS**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:08**	**140925L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.36	109	80-120	
Cadmium	25.00	27.09	108	80-120	
Lead	25.00	25.83	103	80-120	
Selenium	25.00	26.81	107	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-636	**LCS**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:10**	**140925L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.87	107	80-120	
Cadmium	25.00	26.64	107	80-120	
Lead	25.00	25.81	103	80-120	
Selenium	25.00	26.13	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-637	**LCS**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:12**	**140925L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.16	109	80-120	
Cadmium	25.00	26.61	106	80-120	
Lead	25.00	26.11	104	80-120	
Selenium	25.00	25.95	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-638	**LCS**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:13**	**140925L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.43	110	80-120	
Cadmium	25.00	26.48	106	80-120	
Lead	25.00	25.78	103	80-120	
Selenium	25.00	26.32	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-639	**LCS**	**Solid**	**ICP/MS 03**	**09/25/14**	**09/26/14 13:15**	**140925L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.34	109	80-120	
Cadmium	25.00	26.52	106	80-120	
Lead	25.00	26.04	104	80-120	
Selenium	25.00	26.47	106	80-120	

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-640	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:49**	**140926L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.61	106	80-120	
Cadmium	25.00	25.89	104	80-120	
Lead	25.00	25.07	100	80-120	
Selenium	25.00	26.13	105	80-120	

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-641	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:51**	**140926L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.58	106	80-120	
Cadmium	25.00	25.92	104	80-120	
Lead	25.00	25.08	100	80-120	
Selenium	25.00	25.86	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 9 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-642	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:53**	**140926L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.73	107	80-120	
Cadmium	25.00	25.87	103	80-120	
Lead	25.00	25.11	100	80-120	
Selenium	25.00	26.61	106	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 10 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-643	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:54**	**140926L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.35	105	80-120	
Cadmium	25.00	26.22	105	80-120	
Lead	25.00	25.05	100	80-120	
Selenium	25.00	26.33	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 11 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-644	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 12:56**	**140926L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.18	109	80-120	
Cadmium	25.00	27.13	109	80-120	
Lead	25.00	26.45	106	80-120	
Selenium	25.00	26.62	106	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 12 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-645	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 13:01**	**140926L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.15	109	80-120	
Cadmium	25.00	25.86	103	80-120	
Lead	25.00	25.21	101	80-120	
Selenium	25.00	26.02	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 13 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-646	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 13:03**	**140926L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.64	107	80-120	
Cadmium	25.00	25.94	104	80-120	
Lead	25.00	25.12	100	80-120	
Selenium	25.00	25.71	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 14 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-647	**LCS**	**Solid**	**ICP/MS 03**	**09/26/14**	**09/26/14 13:05**	**140926L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.71	111	80-120	
Cadmium	25.00	26.63	107	80-120	
Lead	25.00	25.98	104	80-120	
Selenium	25.00	26.74	107	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Grand Park / 13046.01			Page 15 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-1807	**LCS**	**Solid**	**GC 44**	**09/23/14**	**09/23/14 15:33**	**140923L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	26.13	105	50-135	36-149	
Alpha-BHC	25.00	25.40	102	50-135	36-149	
Beta-BHC	25.00	26.34	105	50-135	36-149	
4,4'-DDD	25.00	26.51	106	50-135	36-149	
4,4'-DDE	25.00	26.56	106	50-135	36-149	
4,4'-DDT	25.00	24.73	99	50-135	36-149	
Delta-BHC	25.00	17.45	70	50-135	36-149	
Dieldrin	25.00	27.58	110	50-135	36-149	
Endosulfan I	25.00	26.17	105	50-135	36-149	
Endosulfan II	25.00	26.25	105	50-135	36-149	
Endosulfan Sulfate	25.00	24.40	98	50-135	36-149	
Endrin	25.00	27.64	111	50-135	36-149	
Endrin Aldehyde	25.00	23.25	93	50-135	36-149	
Gamma-BHC	25.00	27.02	108	50-135	36-149	
Heptachlor	25.00	27.86	111	50-135	36-149	
Heptachlor Epoxide	25.00	25.14	101	50-135	36-149	
Methoxychlor	25.00	24.68	99	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 8151A
		Method:	EPA 8151A
Project: Grand Park / 13046.01			Page 16 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-783-20	**LCS**	**Solid**	**GC 40**	**09/22/14**	**09/24/14 13:36**	**140922L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Dalapon	1000	1273	127	30-150	
Dicamba	40.00	48.40	121	30-150	
MCPP	40000	49560	124	30-150	
MCPA	40000	49110	123	30-150	
Dichlorprop	400.0	494.0	124	30-150	
2,4-D	400.0	511.6	128	30-130	
2,4,5-TP (Silvex)	40.00	48.60	122	30-150	
2,4,5-T	40.00	47.00	118	30-130	
2,4-DB	400.0	518.1	130	30-130	
Dinoseb	200.0	150.9	75	10-150	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Grand Park / 13046.01			Page 17 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-8906	**LCS**	**Solid**	**GC/MS Q**	**09/24/14**	**09/24/14 14:13**	**140924L026**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Benzene	50.00	51.42	103	78-120	
Ethylbenzene	50.00	51.44	103	76-120	
Toluene	50.00	51.44	103	77-120	
p/m-Xylene	100.0	109.0	109	75-125	
o-Xylene	50.00	55.26	111	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	09/20/14
812 West 11th Street		Work Order:	14-09-1641
Austin, TX 78701-2053		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Grand Park / 13046.01			Page 18 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-8900	**LCS**	**Solid**	**GC/MS BB**	**09/23/14**	**09/23/14 14:46**	**140923L021**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Benzene	50.00	48.44	97	78-120	
Ethylbenzene	50.00	50.19	100	76-120	
Toluene	50.00	49.45	99	77-120	
p/m-Xylene	100.0	106.6	107	75-125	
o-Xylene	50.00	50.74	101	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-1641 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	722	N/A	1
EPA 6020	EPA 3050B	598	ICP/MS 03	1
EPA 8081A	EPA 3545	421	GC 44	1
EPA 8081A	EPA 3545	842	GC 44	1
EPA 8081A	EPA 3545	886	GC 44	1
EPA 8151A	EPA 8151A	669	GC 40	1
EPA 8260B	EPA 5030C	823	GC/MS Q	2
EPA 8260B	EPA 5030C	823	GC/MS BB	2
TX 1005	TX 1005	628	GC 50	1

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Glossary of Terms and Qualifiers

Work Order: 14-09-1641 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CJI Supplemental Chain of Custody Form

14-09-1641

	Lab No	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
		7D-g			Soil	1	4° C	X					
		7D-h			Soil	1	4° C	X					
		7D-i			Soil	1	4° C	X					
		7E-g			Soil	1	4° C	X					
		7E-h			Soil	1	4° C	X					
		7E-i			Soil	1	4° C	X					
		7F-g			Soil	1	4° C	X					
		7F-h			Soil	1	4° C	X					
		7F-i			Soil	1	4° C	X					
		7G-g			Soil	1	4° C	X					
		7G-h			Soil	1	4° C	X					
		7G-i			Soil	1	4° C	X					
1		8G-c	9/15/2014	1532	Soil	1	4° C	X					
2		8G-b	9/15/2014	1527	Soil	1	4° C	X					
3		8G-a	9/15/2014	1520	Soil	1	4° C	X					
4		8F-c	9/15/2014	1513	Soil	1	4° C	X					
5		8F-b	9/18/2014	825	Soil	2	4° C	X	X	X		X	X
6		8F-a	9/15/2014	1507	Soil	1	4° C	X					
7		8E-c	9/15/2014	1503	Soil	1	4° C	X					
8		8E-b	9/15/2014	1500	Soil	1	4° C	X					
9		8E-a	9/15/2014	1457	Soil	1	4° C	X					
10		8D-c	9/15/2014	1454	Soil	1	4° C	X					
11		8D-b	9/15/2014	1450	Soil	1	4° C	X					
12		8D-a	9/15/2014	1446	Soil	1	4° C	X					
13		8C-c	9/15/2014	1442	Soil	1	4° C	X					
14		8C-b	9/15/2014	1438	Soil	1	4° C	X					
15		8C-a	9/15/2014	1434	Soil	1	4° C	X					
16		8B-c	9/15/2014	1429	Soil	1	4° C	X					
17		8B-b	9/15/2014	1420	Soil	1	4° C	X					
18		8B-a	9/15/2014	1415	Soil	1	4° C	X					
19		8A-a	9/15/2014	1631	Soil	1	4° C	X					
20		8B-d	9/15/2014	1628	Soil	1	4° C	X					
21		8B-e	9/15/2014	1625	Soil	1	4° C	X					
22		8B-f	9/15/2014	1623	Soil	1	4° C	X					
23		8C-d	9/15/2014	1620	Soil	1	4° C	X					
24		8C-e	9/15/2014	1617	Soil	1	4° C	X					
25		8C-f	9/15/2014	1614	Soil	1	4° C	X					
26		8D-d	9/15/2014	1609	Soil	1	4° C	X					
27		8D-e	9/15/2014	1606	Soil	1	4° C	X					
28		8D-f	9/15/2014	1603	Soil	1	4° C	X					
29		8E-d	9/15/2014	1600	Soil	1	4° C	X					
30		8E-e	9/15/2014	1556	Soil	1	4° C	X					

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CJI Supplemental Chain of Custody Form

	Lab No	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
31		8E-f	9/15/2014	1554	Soil	1	4° C	X					
32		8F-d	9/15/2014	1551	Soil	1	4° C	X					
33		8F-e	9/15/2014	1541	Soil	1	4° C	X					
34		8F-g	9/16/2014	917	Soil	1	4° C	X					
35		8F-f	9/16/2014	914	Soil	1	4° C	X					
36		8E-i	9/16/2014	912	Soil	1	4° C	X					
37		8E-h	9/16/2014	909	Soil	1	4° C	X					
38		8E-g	9/16/2014	900	Soil	1	4° C	X					
39		8D-i	9/16/2014	857	Soil	1	4° C	X					
40		8D-h	9/16/2014	854	Soil	1	4° C	X					
41		8D-g	9/16/2014	851	Soil	1	4° C	X					
42		8C-i	9/16/2014	848	Soil	1	4° C	X					
43		8C-h	9/16/2014	845	Soil	1	4° C	X					
44		8C-g	9/16/2014	841	Soil	1	4° C	X					
45		8B-i	9/16/2014	838	Soil	1	4° C	X					
46		8B-h	9/16/2014	835	Soil	1	4° C	X					
47		8B-g	9/16/2014	830	Soil	1	4° C	X					
48		8A-b	9/16/2014	826	Soil	1	4° C	X					
49		9A-a	9/16/2014	1006	Soil	1	4° C	X					
50		9B-a	9/16/2014	1003	Soil	1	4° C	X					
51		9B-b	9/16/2014	1000	Soil	1	4° C	X					
52		9B-c	9/16/2014	957	Soil	1	4° C	X					
53		9C-a	9/16/2014	954	Soil	1	4° C	X					
54		9C-b	9/16/2014	950	Soil	1	4° C	X					
55		9C-c	9/16/2014	946	Soil	1	4° C	X					
56		9D-a	9/16/2014	943	Soil	1	4° C	X					
57		9D-b	9/16/2014	939	Soil	1	4° C	X					
58		9D-c	9/16/2014	935	Soil	1	4° C	X					
59		9E-a	9/16/2014	933	Soil	1	4° C	X					
60		9E-b	9/16/2014	930	Soil	1	4° C	X					
61		9E-c	9/16/2014	927	Soil	1	4° C	X					
62		9F-a	9/16/2014	924	Soil	1	4° C	X					
63		9F-b	9/16/2014	920	Soil	1	4° C	X					
64		9F-d	9/16/2014	1110	Soil	1	4° C	X					
65		9F-c	9/16/2014	1106	Soil	1	4° C	X					
66		9E-f	9/16/2014	1100	Soil	1	4° C	X					
67		9E-e	9/16/2014	1058	Soil	1	4° C	X					
68		9E-d	9/16/2014	1054	Soil	1	4° C	X					
69		9D-f	9/16/2014	1050	Soil	1	4° C	X					
70		9D-e	9/16/2014	1047	Soil	1	4° C	X					
71		9D-d	9/16/2014	1044	Soil	1	4° C	X					
72		9C-f	9/16/2014	1040	Soil	1	4° C	X					

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CJI Supplemental Chain of Custody Form

	Lab No	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
73		9C-e	9/16/2014	1037	Soil	1	4° C	X					
74		9C-d	9/16/2014	1030	Soil	1	4° C	X					
75		9B-f	9/16/2014	1027	Soil	1	4° C	X					
76		9B-e	9/16/2014	1024	Soil	1	4° C	X					
77		9B-d	9/16/2014	1020	Soil	1	4° C	X					
78		9A-b	9/16/2014	1013	Soil	1	4° C	X					
79		9A-c	9/16/2014	1347	Soil	1	4° C	X					
80		9B-g	9/16/2014	1345	Soil	1	4° C	X					
81		9B-h	9/16/2014	1342	Soil	1	4° C	X					
82		9B-i	9/16/2014	1333	Soil	1	4° C	X					
83		9C-g	9/16/2014	1328	Soil	1	4° C	X					
84		9C-h	9/16/2014	1325	Soil	1	4° C	X					
85		9C-i	9/16/2014	1320	Soil	1	4° C	X					
86		9D-g	9/16/2014	1317	Soil	1	4° C	X					
87		9D-h	9/16/2014	1310	Soil	1	4° C	X					
88		9D-i	9/16/2014	1304	Soil	1	4° C	X					
89		9E-g	9/16/2014	1300	Soil	1	4° C	X					
90		9E-h	9/16/2014	1257	Soil	1	4° C	X					
91		9E-i	9/16/2014	1250	Soil	1	4° C	X					
92		9F-e	9/16/2014	1245	Soil	1	4° C	X					
93		9F-f	9/16/2014	1240	Soil	1	4° C	X					
94		10F-c	9/18/2014	907	Soil	2	4° C	X	X	X		X	X
95		10F-b	9/18/2014	903	Soil	2	4° C	X	X	X		X	X
96		10F-a	9/18/2014	845	Soil	2	4° C	X	X	X		X	X
97		10E-c	9/18/2014	836	Soil	2	4° C	X	X	X		X	X
98		10E-b	9/16/2014	1434	Soil	1	4° C	X					
99		10E-a	9/16/2014	1430	Soil	1	4° C	X					
100		10D-c	9/16/2014	1427	Soil	1	4° C	X					
101		10D-b	9/16/2014	1424	Soil	1	4° C	X					
102		10D-a	9/16/2014	1421	Soil	1	4° C	X					
103		10C-c	9/16/2014	1418	Soil	1	4° C	X					
104		10C-b	9/16/2014	1415	Soil	1	4° C	X					
105		10C-a	9/16/2014	1412	Soil	1	4° C	X					
106		10B-c	9/16/2014	1409	Soil	1	4° C	X					
107		10B-b	9/16/2014	1406	Soil	1	4° C	X					
108		10B-a	9/16/2014	1403	Soil	1	4° C	X					
109		10A-a	9/16/2014	1357	Soil	1	4° C	X					
110		10A-b	9/16/2014	1541	Soil	1	4° C	X					
111		10B-d	9/16/2014	1535	Soil	1	4° C	X					
112		10B-e	9/16/2014	1531	Soil	1	4° C	X					
113		10B-f	9/16/2014	1527	Soil	1	4° C	X					
114		10C-d	9/16/2014	1520	Soil	1	4° C	X					

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CJI Supplemental Chain of Custody Form

	Lab No	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
115		10C-e	9/16/2014	1518	Soil	1	4° C	X					
116		10C-f	9/16/2014	1515	Soil	1	4° C	X					
117		10D-d	9/16/2014	1511	Soil	1	4° C	X					
118		10D-e	9/16/2014	1506	Soil	1	4° C	X					
119		10D-f	9/16/2014	1459	Soil	1	4° C	X					
120		10E-d	9/16/2014	1455	Soil	1	4° C	X					
121		10E-e	9/16/2014	1448	Soil	1	4° C	X					
122		10E-f	9/18/2014	928	Soil	2	4° C	X	X	X		X	X
123		10F-d	9/18/2014	925	Soil	2	4° C	X	X	X		X	X
124		10F-e	9/18/2014	921	Soil	2	4° C	X	X	X		X	X
125		10F-f	9/18/2014	915	Soil	2	4° C	X	X	X		X	X
126		10F-h	9/17/2014	1101	Soil	1	4° C	X					
127		10F-g	9/17/2014	1057	Soil	1	4° C	X					
128		10E-i	9/17/2014	1053	Soil	1	4° C	X					
129		10E-h	9/17/2014	1050	Soil	1	4° C	X					
130		10E-g	9/17/2014	1045	Soil	1	4° C	X					
131		10D-i	9/17/2014	1040	Soil	1	4° C	X					
132		10D-h	9/17/2014	1026	Soil	1	4° C	X					
133		10D-g	9/17/2014	1023	Soil	1	4° C	X					
134		10C-i	9/17/2014	1020	Soil	1	4° C	X					
135		10C-h	9/17/2014	1015	Soil	1	4° C	X					
136		10C-g	9/17/2014	1008	Soil	1	4° C	X					
137		10B-i	9/17/2014	1004	Soil	1	4° C	X					
138		10B-h	9/17/2014	1000	Soil	1	4° C	X					
139		10B-g	9/17/2014	956	Soil	1	4° C	X					
140		10A-c	9/17/2014	947	Soil	1	4° C	X					
141		11A-a	9/17/2014	1302	Soil	1	4° C	X					
142		11B-a	9/17/2014	1256	Soil	1	4° C	X					
143		11B-b	9/17/2014	1253	Soil	1	4° C	X					
144		11B-c	9/17/2014	1249	Soil	1	4° C	X					
145		11C-a	9/17/2014	1246	Soil	1	4° C	X					
146		11C-b	9/17/2014	1244	Soil	1	4° C	X					
147		11C-c	9/17/2014	1241	Soil	1	4° C	X					
148		11D-a	9/17/2014	1130	Soil	1	4° C	X					
149		11D-b	9/17/2014	1127	Soil	1	4° C	X					
150		11D-c	9/17/2014	1124	Soil	1	4° C	X					
151		11E-a	9/17/2014	1119	Soil	1	4° C	X					
152		11E-b	9/17/2014	1116	Soil	1	4° C	X					
153		11E-c	9/17/2014	1110	Soil	1	4° C	X					
154		11F-a	9/17/2014	1106	Soil	1	4° C	X					
155		11F-b	9/17/2014	1401	Soil	1	4° C	X					
156		11E-f	9/17/2014	1356	Soil	1	4° C	X					

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	Lab No	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
157		11E-e	9/17/2014	1351	Soil	1	4° C	X					
158		11E-d	9/17/2014	1347	Soil	1	4° C	X					
159		11D-f	9/17/2014	1344	Soil	1	4° C	X					
160		11D-e	9/17/2014	1340	Soil	1	4° C	X					
161		11D-d	9/17/2014	1337	Soil	1	4° C	X					
162		11C-f	9/17/2014	1332	Soil	1	4° C	X					
163		11C-e	9/17/2014	1329	Soil	1	4° C	X					
164		11C-d	9/17/2014	1326	Soil	1	4° C	X					
165		11B-f	9/17/2014	1323	Soil	1	4° C	X					
166		11B-e	9/17/2014	1320	Soil	1	4° C	X					
167		11B-d	9/17/2014	1316	Soil	1	4° C	X					
168		11A-b	9/17/2014	1313	Soil	1	4° C	X					
169		11A-c	9/17/2014	1516	Soil	1	4° C	X					
170		11B-g	9/17/2014	1510	Soil	1	4° C	X					
171		11B-h	9/17/2014	1506	Soil	1	4° C	X					
172		11B-i	9/17/2014	1503	Soil	1	4° C	X					
173		11C-g	9/17/2014	1501	Soil	1	4° C	X					
174		11C-h	9/17/2014	1458	Soil	1	4° C	X					
175		11C-i	9/17/2014	1455	Soil	1	4° C	X					
176		11D-g	9/17/2014	1452	Soil	1	4° C	X					
177		11D-h	9/17/2014	1450	Soil	1	4° C	X					
178		11D-i	9/17/2014	1447	Soil	1	4° C	X					
179		11E-g	9/17/2014	1444	Soil	1	4° C	X					
180		11E-h	9/17/2014	1442	Soil	1	4° C	X					
181		11E-i	9/17/2014	1428	Soil	1	4° C	X					
182		11F-c	9/17/2014	1424	Soil	1	4° C	X					
183		12F-a	9/17/2014	1617	Soil	1	4° C	X					
184		12E-c	9/17/2014	1613	Soil	1	4° C	X					
185		12E-b	9/17/2014	1605	Soil	1	4° C	X					
186		12E-a	9/17/2014	1602	Soil	1	4° C	X					
187		12D-c	9/17/2014	1600	Soil	1	4° C	X					
188		12D-b	9/17/2014	1557	Soil	1	4° C	X					
189		12D-a	9/17/2014	1555	Soil	1	4° C	X					
190		12C-c	9/17/2014	1552	Soil	1	4° C	X					
191		12C-b	9/17/2014	1549	Soil	1	4° C	X					
192		12C-a	9/17/2014	1547	Soil	1	4° C	X					
193		12B-c	9/17/2014	1545	Soil	1	4° C	X					
194		12B-b	9/17/2014	1542	Soil	1	4° C	X					
195		12B-a	9/17/2014	1539	Soil	1	4° C	X					
196		12A-a	9/17/2014	1535	Soil	1	4° C	X					
197		12F-c	9/17/2014	1620	Soil	1	4° C	X					
198		12F-b	9/17/2014	1623	Soil	1	4° C	X					

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CJI Supplemental Chain of Custody Form

	Lab No	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
199		12E-f	9/17/2014	1625	Soil	1	4° C	X					
200		12E-e	9/17/2014	1629	Soil	1	4° C	X					
201		12E-d	9/18/2014	953	Soil	1	4° C	X					
202		12D-f	9/18/2014	956	Soil	1	4° C	X					
203		12D-e	9/18/2014	1000	Soil	1	4° C	X					
204		12D-d	9/18/2014	1004	Soil	1	4° C	X					
205		12C-f	9/18/2014	1007	Soil	1	4° C	X					
206		12C-e	9/18/2014	1010	Soil	1	4° C	X					
207		12C-d	9/18/2014	1013	Soil	1	4° C	X					
208		12B-f	9/18/2014	1015	Soil	1	4° C	X					
209		12B-e	9/18/2014	1018	Soil	1	4° C	X					
210		12B-d	9/18/2014	1024	Soil	1	4° C	X					
211		12A-b	9/18/2014	1027	Soil	1	4° C	X					
212		12A-c	9/18/2014	1035	Soil	1	4° C	X					
213		12B-g	9/18/2014	1038	Soil	1	4° C	X					
214		12B-h	9/18/2014	1041	Soil	1	4° C	X					
215		12B-i	9/18/2014	1045	Soil	1	4° C	X					
216		12C-g	9/18/2014	1048	Soil	1	4° C	X					
217		12C-h	9/18/2014	1050	Soil	1	4° C	X					
218		12C-i	9/18/2014	1053	Soil	1	4° C	X					
219		12D-g	9/18/2014	1056	Soil	1	4° C	X					
220		12D-h	9/18/2014	1058	Soil	1	4° C	X					
221		12D-i	9/18/2014	1101	Soil	1	4° C	X					
222		12E-g	9/18/2014	1104	Soil	1	4° C	X					
223		12E-h	9/18/2014	1109	Soil	1	4° C	X					
224		12E-i	9/18/2014	1113	Soil	1	4° C	X					
225		12F-d	9/18/2014	1117	Soil	1	4° C	X					
226		12F-e	9/18/2014	1119	Soil	1	4° C	X					
227		13F-b	9/18/2014	1131	Soil	1	4° C	X					
228		13F-a	9/18/2014	1138	Soil	1	4° C	X					
229		13E-c	9/18/2014	1142	Soil	1	4° C	X					
230		13E-b	9/18/2014	1145	Soil	1	4° C	X					
231		13E-a	9/18/2014	1148	Soil	1	4° C	X					
232		13D-c	9/18/2014	1324	Soil	1	4° C	X					
233		13D-b	9/18/2014	1328	Soil	1	4° C	X					
234		13D-a	9/18/2014	1332	Soil	1	4° C	X					
235		13C-c	9/18/2014	1335	Soil	1	4° C	X					
236		13C-b	9/18/2014	1337	Soil	1	4° C	X					
237		13C-a	9/18/2014	1340	Soil	1	4° C	X					
238		13B-c	9/18/2014	1342	Soil	1	4° C	X					
239		13B-b	9/18/2014	1346	Soil	1	4° C	X					
240		13B-a	9/18/2014	1348	Soil	1	4° C	X					

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CJI Supplemental Chain of Custody Form

	Lab No	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses					
								Target Metals	TPH	BTEX	SVOCs	Pesti-cides	Herbi-cides
241		13A-a	9/18/2014	1351	Soil	1	4° C	X					
242		13A-b	9/18/2014	1421	Soil	1	4° C	X					
243		13B-d	9/18/2014	1428	Soil	1	4° C	X					
244		13B-e	9/18/2014	1434	Soil	1	4° C	X					
245		13B-f	9/18/2014	1438	Soil	1	4° C	X					
246		13C-d	9/18/2014	1441	Soil	1	4° C	X					
247		13C-e	9/18/2014	1444	Soil	1	4° C	X					
248		13C-f	9/18/2014	1447	Soil	1	4° C	X					
249		13D-d	9/18/2014	1450	Soil	1	4° C	X					
250		13D-e	9/18/2014	1454	Soil	1	4° C	X					
251		13D-f	9/18/2014	1457	Soil	1	4° C	X					
252		13E-d	9/18/2014	1500	Soil	1	4° C	X					
253		13E-e	9/18/2014	1504	Soil	1	4° C	X					
254		13E-f	9/18/2014	1507	Soil	1	4° C	X					
255		13F-c	9/18/2014	1510	Soil	1	4° C	X					
256		13F-d	9/18/2014	1515	Soil	1	4° C	X					
		13F-e			Soil	1	4° C	X					
		13E-i			Soil	1	4° C	X					
		13E-h			Soil	1	4° C	X					
		13E-g			Soil	1	4° C	X					
		13D-i			Soil	1	4° C	X					
		13D-h			Soil	1	4° C	X					
		13D-g			Soil	1	4° C	X					
		13C-i			Soil	1	4° C	X					
		13C-h			Soil	1	4° C	X					
		13C-g			Soil	1	4° C	X					
		13B-i			Soil	1	4° C	X					
		13B-h			Soil	1	4° C	X					
		13B-g			Soil	1	4° C	X					
		13A-c			Soil	1	4° C	X					
		14A-a			Soil	1	4° C	X					
		14B-a			Soil	1	4° C	X					
		14B-b			Soil	1	4° C	X					
		14B-c			Soil	1	4° C	X					
		14C-a			Soil	1	4° C	X					
		14C-b			Soil	1	4° C	X					
		14C-c			Soil	1	4° C	X					
		14D-a			Soil	1	4° C	X					
		14D-b			Soil	1	4° C	X					
		14D-c			Soil	1	4° C	X					
		14E-a			Soil	1	4° C	X					
		14E-b			Soil	1	4° C	X					

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CHAIN-OF-CUSTODY RECORD

WO NO.: / LAB USE ONLY: 14-09-1641 8/9

DATE: 9/19/14

PAGE: 1 OF 2

LABORATORY CLIENT: COOK-JOYCE, INC.	CLIENT PROJECT NAME / NO.: GRAND PARK
ADDRESS: 812 West 11th Street	P.O. NO.: 13046.01
CITY: Austin, TX 78701 STATE: ZIP:	PROJECT CONTACT: RICHARD VARNELL
TEL: 512-474-9087 E-MAIL: richard.varnell@cook-joyce.com	LAB CONTACT OR QUOTE NO.:
	GLOBAL ID: LOG CODE: SAMPLER(S): (PRINT) KEVIN ASHLEY & KAREN COOK

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
TARGET METALS = ARSENIC, CADMIUM, LEAD, SELENIUM

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs 8270 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	TARGET METALS			
257	140915DUP-1	9/15/14	12:00	S	1		4°C																X			
258	140915DUP-2	9/15/14	12:00		1																					
259	140915DUP-3	9/15/14	12:00		1																					
260	140916DUP-1	9/16/14	12:00		1																					
261	140916DUP-2	9/16/14	12:00		1																					
262	140916DUP-3	9/16/14	12:00		1																					
263	140916DUP-4	9/16/14	12:00		1																					
264	140916DUP-5	9/16/14	12:00		1																					
265	140917DUP-1	9/17/14	12:00		1																					
266	140917DUP-2	9/17/14	1200		1																					

Relinquished by: (Signature) Karen Cook	Received by: (Signature/Affiliation)	Date: 9/19/14	Time: 11:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EGI	Date: 9/20/14	Time: 1000
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WO NO.: / LAB USE ONLY: 14-09-1641 9/9

CHAIN-OF-CUSTODY RECORD

DATE: 9/19/14
PAGE: 2 OF 2

LABORATORY CLIENT: COOK-JOYCE, INC.	CLIENT PROJECT NAME / NO.: GRAND PARK
ADDRESS: 812 West 11th Street	P.O. NO.: 13046.01
CITY: Austin, TX 78701 STATE: ZIP:	PROJECT CONTACT: RICHARD VARNELL
TEL: 512-474-9097 E-MAIL: richard.varnell@cook-joyce.com	LAB CONTACT OR QUOTE NO.:
GLOBAL ID:	LOG CODE:
	SAMPLER(S): (PRINT) KEVIN ASHLEY & KAREN COOK

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
TARGET METALS = ARSENIC, CADMIUM, LEAD, SELENIUM

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH TX 1005	BTEX / MTBE 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TARGET METALS	HERBICIDES		
267	140917DUP-3	9/17/14	12:00	S	1		4°C																X			
268	140917DUP-4	9/17/14	12:00		1																					
269	140918DUP-1	9/18/14	12:00		2							X	X					X						X		
270	140918DUP-2	9/18/14	12:00		1																					
271	140918DUP-3	9/18/14	12:00		1																					
272	140918DUP-4	9/18/14	12:00		1																					

Relinquished by: (Signature) Karen Cook	Received by: (Signature/Affiliation)	Date: 9/19/14	Time: 11:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) BCL	Date: 9/20/14	Time: 1000
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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TRK# 0215 8062 6417 8706
MASTER
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

FedEx 2 of 7
MPS# 0681 7801 4282 8721
Mstr# 8062 6417 8706
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA
1641

FedEx 3 of 7
MPS# 0681 7801 4282 8732
Mstr# 8062 6417 8706
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

4 of 7
MPS# 0681 7801 4282 8743
Mstr# 8062 6417 8706
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

5 of 7
MPS# 0681 7801 4282 8754
Mstr# 8062 6417 8706
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

6 of 7
MPS# 0681 7801 4282 8765
Mstr# 8062 6417 8706
0215
XO APVA
SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

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MPS# 0681 7801 4282 8776
Mstr# 8062 6417 8706
0215
XO APVA
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

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WORK ORDER #: 14-09-1 6 4 1

SAMPLE RECEIPT FORM

Cooler 1 of 7

CLIENT: Cook-Joyce

DATE: 09/30/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.5 °C - 0.3 °C (CF) = 3.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: SV

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SV

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 239

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 239

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 681

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 681

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WORK ORDER #: 14-09-[1][6][4][1]

SAMPLE RECEIPT FORM

Cooler 2 of 7

CLIENT: Cook-Joyce

DATE: 09/20/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.8 °C - 0.3 °C (CF) = 3.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: SV

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SV

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 239

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 239

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 681

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WORK ORDER #: 14-09-[1][6][4][1]

SAMPLE RECEIPT FORM

Cooler 3 of 7

CLIENT: Cook-Joyce

DATE: 09/30/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C - 0.3 °C (CF) = 2.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: SV

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SV

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 239

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 239

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 681

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WORK ORDER #: 14-09-[1][6][4][1]

SAMPLE RECEIPT FORM

Cooler 4 of 7

CLIENT: Cook-Joyce

DATE: 09/20/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.9 °C - 0.3 °C (CF) = 3.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: SV

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SV

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 239

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 239

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 681

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WORK ORDER #: 14-09-1614 1

SAMPLE RECEIPT FORM

Cooler 5 of 7

CLIENT: Cook-Joyce

DATE: 09/20/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.3 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: BR

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: BR

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 239

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 239

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 681

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WORK ORDER #: 14-09-1614 1

SAMPLE RECEIPT FORM

Cooler 6 of 7

CLIENT: Cook-Joyce

DATE: 09/20/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.3 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: SV

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SV

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 239

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 239

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 681

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 681

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WORK ORDER #: 14-09-161411

SAMPLE RECEIPT FORM

Cooler 7 of 7

CLIENT: Cook-Joyce

DATE: 09/20/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.7 °C - 0.3 °C (CF) = 3.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: SV

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SV

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 239

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOA**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGB**na$_2$** ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 239

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na$_2$:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 681

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Calscience TRRP Data Package
Signature Page

Work Order #: **14-09-1641_s1**

Project Name/Number: **Grand Park / 13046.01**

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  b) Dilution factors,
  c) Preparation methods,
  d) Cleanup methods, and
  e) If required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate control limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  d) The laboratory's LCS QC limits.
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits.
- ☒ R8 Laboratory Analytical Duplicates (if applicable) Recovery and Precision, including:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
- ☒ R9 Method Quantitation Limit (MQL) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

Release Statement: "I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the Laboratory Review Checklist and/or Case Narrative provided with the analytical report. I affirm, to the best of my knowledge, that all problems/anomalies observed by this laboratory that might affect the quality of the data have been identified in the Laboratory Review Checklist and/or Case Narrative, and that no information or data has been knowingly withheld that would affect the quality of the data."

Don Burley		**10/22/14**
Name	Signature	Date

Project Manager
Title

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Laboratory Review Checklist
ortable Data / Supporting Data / Exception Reports

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Laboratory Name: Eurofins Calscience, Inc.	LRC Date: 10/22/14
Project Name: Grand Park / 13046.01	Laboratory Work Order Number: 14-09-1641_s1
Reviewer Name: Don Burley	Prep Batch Number(s): 140925L01, 140925L02, 140925L03, 140925L04, 140925L05, 140925L06, 140926L01, 140926L02, 140926L03, 140926L04, 140926L05, 140926L06, 140926L07, 140926L08; E0922MOIB3, E0922MOIB4, E0922MOIB5, E0922MOIB6, E0923MOIB2, E0923MOIB3, E0923MOIB4, E0923MOIB5, E0923MOIB6, E0924MOIB3, E0924MOIB4, E0924MOIB5, E0924MOIB6, E0923MOIB7; 140923B11; 140923L01; 140922L08; 140923L021; 140924L026

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	**OI**	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report or case narrative?	X				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding time?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were %moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				

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R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		1) Were all COCs included in the LCS?		X			1
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?		X			2
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were associated MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC, ER, or case narrative?	X				
		2) Were all necessary corrective actions performed for the reported data?			X		
		3) If requested, is the justification for elevated SDLs documented?			X		

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ER#[5]	Description
1	EPA 8081A - Chlordane and Toxaphene were not included in the LCS.
2	EPA 8081A - Chlordane and Toxaphene were not included in the MS/MSD.

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV and CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analytes within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12)**					
		1) Were the raw data (e.g. chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?	X				

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S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITION**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**PROFICIENCY TEST REPORTS**					
		1) Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCS?			X		
S12	**OI**	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

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ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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TEXAS REGISTERED ENGINEERING FIRM F-883

DATA USABILITY SUMMARY

GRAND PARK SITE – LAB REPORT 14-10-2039

JANUARY 2015

Prepared for:

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas

Prepared by:

Cook-Joyce, Inc.
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ATTACHMENT	
A	CALSCIENCE NELAC/TLAP ACCREDITATION
B	DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

1.0 INTRODUCTION

Cook-Joyce, Inc. (CJI) reviewed one analytical data package for samples of environmental media collected at the Grand Park Site in Frisco, Texas. Work at the site was done on behalf of the City of Frisco, which owns the property being evaluated for potential impacts. CJI collected the subject samples in October 2014. All analyses were performed in accordance with the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) and meet Texas Risk Reduction Program (TRRP) requirements. This Data Usability Summary (DUS) was prepared to document the usability of the data in supporting site closure under TRRP.

The Texas Commission on Environmental Quality (TCEQ) document, *Review and Reporting of COC Concentration Data (RG-366/TRRP-13)*, describes the procedures for reviewing and reporting data to ensure they are of sufficient and documented quality, as required by 30 §TAC 350.54. These procedures embody the default objectives for levels of quality control, documentation, and data review that apply to all data generated on or after 1 February 2003 for TRRP compliance, unless alternative project objectives are established prior to sample collection. CJI reviewed the data described herein for conformance with TRRP-13 criteria and any project-specific quality objectives. Any derivations from these criteria are discussed in this DUS.

The following laboratory submittals and field data were examined:

- The laboratory reportable data as identified by TRRP-13;
- The laboratory review checklists (LRCs), associated exception reports and supporting data;
- The laboratory electronic data deliverable (EDD); and
- The field notes from the sampling events.

Samples were analyzed by Calscience, and results were provided to CJI on 4 November 2014 in analytical package 14-10-2039. At the time of data analysis, Calscience was NELAC accredited under the TCEQ's Texas Laboratory Accreditation Program (TLAP) for subject matrices, methods, and analytical parameters, except as may be qualified in this DUS. A copy of Calscience's TLAP certification that is coincident with the sample analyses addressed in this DUS is provided as Attachment A to this Data Usability Summary (DUS).

2.0 INTENDED USE OF DATA

The Grand Park site (the Site) is comprised of recently cultivated farmland, unused pasture, and surface water bodies (Stewart Creek and its tributaries). Grand Park is enrolled in the Voluntary Cleanup Program (VCP) as site number 2592 to evaluate and remediate impacts to the Site from a neighboring and upstream property known as the former Exide Battery Recycling Facility. Impacts that may have resulted from the historical uses of the Site are also being evaluated.

As documented in Section 1 of this DUS and in Table 1, CJI collected 113 discrete soil samples and 6 field duplicates of those samples across portions of the Grand Park Site in October 2014. The following analyses were requested for chemicals of concern (COCs):

- ASTM D-2216 (M) – Moisture content of a solid.
- EPA 6020 – Inductively coupled plasma-mass spectrometry of a solid.
- EPA 8260B – Volatile organic compounds by gas chromatography -mass spectrometry (benzene, toluene, ethylbenzene, and xylenes (BTEX) only).
- TX 1005 – Total petroleum hydrocarbons.

Specific metals analyzed under EPA 6020 included arsenic, cadmium, lead, and selenium. All of these analytes and methods are recognized fields of accreditation for solid and chemical materials under TCEQ's NELAC certification of Calscience.

2.1 DATA REVIEWED

Table 1 summarizes the sample analyses that were reviewed for this DUS and provides the field identification number of each sample, cross referenced to the laboratory identification number, sample collection date, sample type, analysis performed, and quality control batch numbers. The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and, when provided, case narratives, all of which were included in this review. The LRCs, associated ERs, and analytical reports received from the laboratory are provided in Attachment B to this DUS.

Field data were reviewed to verify that appropriate procedures were used during collection of samples. All reportable data to be provided by the analytical laboratory, as identified in TRRP-13, were reviewed for completeness and conformance with quantitative QC criteria, where

applicable, including preservation/holding times, instrument calibrations, blank recovery, internal standard and surrogate recoveries, laboratory control sample (LCS) results and reproducibilities, matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities, and field duplicate precision.

2.2 PROJECT OBJECTIVES

The overall project objective is to achieve closure of the Grand Park Site through the TCEQ. This DUS evaluates the quality of analytical data provided in the laboratory package identified in Section 1.0 and Table 1. These data represent a discrete portion of the Site and will be used to identify and delineate any environmental impacts in this portion of the Site.

Data review was conducted to identify any potential impacts on sample analytical results as a result of field and/or analytical laboratory activities and ensure that the data are suitable for its use in accordance with TRRP. Quantitative review criteria for each QC parameter were based on laboratory procedure and analytical method requirements and/or TRRP-13 guidance, and these criteria are documented in the summary tables included herein and in the QC summary report section of the analytical data report(s) in Appendix B. No project-specific review criteria were necessary or developed for this project.

3.0 DATA REVIEW RESULTS

3.1 GENERAL DATA PACKAGE REVIEW

Laboratory reports were evaluated for consistency of sample identification labels and laboratory analysis as listed on the COC. In addition, they were reviewed against the TRRP-13 requirements. The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDDs contain all sample results in an acceptable format. The hardcopy laboratory reports and the EDDs include a result, method detection limit (MDL), adjusted method quantitation limit (MQL), which is also referred to as the sample quantitation limit (SQL)[1], and the sample-specific detection limit (SDL)[2] for each analysis. The SDL is that value below which the COC cannot be reliably detected.

In accordance with TRRP requirements, a laboratory defines "non-detect" results as less than the value of the SDL.[3] "Estimated" results are typically "J" qualified by the laboratory; results are estimated rather than quantified when a compound is determined to be present at a concentration less than the SQL, but greater than the SDL.

3.1.1 Appropriate Reporting

Soil results are reported on a dry weight basis. Metals and TPH results are reported in milligrams per kilogram (mg/Kg). BTEX is reported in micrograms per kilogram (µg/Kg). Non-detects are reported using the SDL as specified in TRRP, and detects between the SDL and the SQL are reported as estimated concentrations with a laboratory J-flag.

None of the samples required dilution due to the high concentration of an analyte or matrix interferences. There were no elevated reporting limits for "non-detects".

---

[1] The SQL represents the MQL adjusted for moisture and sample size. The MQL is defined in §350.4(54) as "The lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory."

[2] The SDL is defined as the MDL adjusted to reflect sample-specific factors such as sample characteristics, sample preparation, and analytical adjustments. The MDL is "the minimum concentration of a COC the laboratory would measure and report with 99% confidence that the analyte concentration is greater than zero and is determined for each COC in a reagent matrix."

[3] Certain laboratories may assign a "U" qualifier to non-detect results. For clarity, CJI does not include laboratory assigned "U" qualifiers in our data tables. Instead, "U" qualified data are represented as "<" the SDL.

3.1.2 Chain-of-Custody Procedures

Proper sample custody procedures confirm that the integrity of the samples was maintained. Each cooler containing samples addressed in this report was shipped to Calscience following these procedures. All samples were labeled correctly, and the appropriate analytical tests were performed by the laboratory.

3.1.3 Holding Times and Preservation

Samples were collected and placed into laboratory supplied containers. After collection in laboratory supplied containers, all samples were immediately placed in an ice-filled cooler and maintained on ice until their receipt by the analytical laboratory. The laboratory measured the temperature blank in each cooler upon its receipt; none of the data were qualified based on receiving temperature. CJI also compared the date of sample collection to the date of sample analysis to identify any samples that did not meet sample holding requirements. Based on our review, all samples reviewed for this DUS were analyzed within their appropriate holding times. Preservation and hold time requirements are provided in Table 2.

3.1.4 Blanks

Field and trip blanks were not collected or analyzed during sampling activities associated with this DUS. Samples were collected using single-use, disposable hand trowels, therefore, equipment blanks were not warranted.

3.1.5 Quality Control Sample Spikes

TRRP-13 requires that the laboratory's quality control samples, such as laboratory control samples (LCSs), laboratory control sample duplicates (LCSDs), matrix spikes (MSs), and matrix spike duplicates (MSDs), be spiked with all of the analytes reported by the laboratory. An exception to this rule is when an analyte is comprised of multiple compounds. Polychlorinated biphenyls (PCBs) are an example for this type of analyte.

Based on CJI's review, the quality control samples for each analyte were appropriately spiked by the laboratory.

3.2 ANALYTICAL RESULTS

Laboratory analyses are divided into QC batches, in which samples are prepared for analysis (e.g. extractions). Each QC batch includes appropriate QC samples required for analysis – such as matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples (LCS). This information was provided by the laboratory in the analytical packages. Each sample ID and analysis performed is listed with its associated QC batch in Table 1 of this DUS.

Each qualified analyte and sample qualification rationale is listed in Table 3 of this DUS. Further details on data qualifications are discussed in the following subsections.

3.2.1 Calibrations

According to the LRCs, initial and continuing calibration data met method requirements in all cases. No data were qualified due to initial or continuing calibration issues.

3.2.2 Lab Blanks

Laboratory QC results and provided LRCs were reviewed to identify any COC concentrations exceeding the MDL in required method blanks. There were no samples in which detection of blank constituents resulted in sample qualification.

3.2.3 Surrogate Recoveries

When applicable, surrogate recovery data are used to evaluate potential bias in the analytical results for each sample that could have been introduced by the preparatory procedures and/or the analysis. Surrogates are typically used in organic analyses. No sample results were qualified based on surrogate recoveries. Table 4 lists any data qualifications based on surrogate recoveries.

3.2.4 Laboratory Control Samples/Laboratory Control Sample Duplicates

Laboratory Control Samples (LCSs) are generated to evaluate the accuracy of the analytical method and the laboratory's performance. Laboratory Control Sample Duplicates (LCSDs) may also be analyzed to evaluate the laboratory's precision.

If LCS recoveries are above specifications, then results generally are estimated high (JH). If recoveries are below specifications, then results generally are qualified as estimated low (JL). If

recoveries are below 30% for metals or 10% for organics, then results are estimated low or rejected (R).

All of the analytes reported by the laboratory were spiked in the LCSs. According to the LRCs and based on the data provided in the reports and EDDs, the recoveries of all of the spiked compounds were within the recovery control limits developed by the laboratory. In addition to the comparison to the laboratory specified control limits, CJI also compared the data to TRRP-13 review standards (a standardized control limit of 70-130% for metals and 60-140% for organics). No data were qualified due to LCS percent recoveries when compared to TRRP-13 control limits. Table 5 lists any data qualifications based on LCS recoveries.

An LCSD sample was not analyzed by Calscience for this report, therefore, there was no data qualification based on LCS/LCSD relative percent differences.

3.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix Spike/Matrix Spike Duplicates (MS/MSDs) were used to evaluate the impact of the sample matrix on analytical recoveries. MS/MSD recoveries were used to assist in sample qualification in connection with other data quality indicators. In general, sample results were not qualified on MS/MSD recovery data alone. LCS recoveries were also checked, and these were used to support MS/MSD data qualification. In cases where no other precision data could be evaluated (i.e. the absence of field duplicate samples), the data were qualified based on MS/MSD reproducibilities alone.

MS/MSD recoveries were compared to both laboratory control limits and TRRP-13 review criteria for metals (70% - 130%, but not less than 30%) and for organics (60% - 140%, but not less than 10%). MS/MSD relative percent differences were also compared to both laboratory control limits and TRRP-13 review criteria (acceptable within 30% for metals and 40% for organics).

MS/MSD Spike Accuracy

MS/MSD recoveries were typically reported within acceptance criteria in the data packages reviewed for this DUS. Table 6A lists any data qualifications based on MS/MSD recoveries. MS/MSD recoveries were acceptable for all analyses.

MS/MSD Spike Precision

MS/MSD reproducibilities were reported within acceptance criteria in the data packages reviewed for this DUS. MS/MSD relative percent differences (RPDs) were compared to both laboratory control limits and TRRP-13 review criteria. There were no sample qualifications based on MS/MSD reproducibilities. Table 6B lists any data qualifications based on MS/MSD RPDs. 3.2.6 Post Digestion Spikes

Post digestion spikes (PDSs) were performed for metals analyses in each data package. All PDS recoveries were within laboratory (75%-125%) and TRRP-13 (70%-130%) control limits.

3.2.7 Detectability Check Sample

A detectability check sample (DCS) is a reagent matrix spiked by the laboratory with analytes near, or within two or three times, the calculated MDL and carried through the sample preparation procedures for the analysis. DCSs are used to test the lab's ability to detect analytes concentrations near the MQL. DCSs were not performed for the subject data. Calscience's MDLs are adjusted and supported by the analysis of annual MDL/RL verifications per NELAC requirements. Some of the MDLs (including those for the EPA 6020 Metals) are also supported by quarterly LOD/LOQ verifications per Department of Defense requirements.

3.2.8 Laboratory Duplicates

Duplicate analysis for moisture content was performed on 6 samples analyzed for this project. The RPD for the result of the duplicate analysis when compared with the original met the laboratory's control limits of 0-10%. No data are qualified based on laboratory duplicate data.

3.2.9 Adequacy of MQLs and SDLs

MQLs and, where applicable, SDLs were compared to the constituent specific, critical protective concentration limits (PCLs) for a residential site with an affected property that is between 0.5 and 30 acres in size (or the background values, if greater than the critical PCLs) to evaluate whether the laboratory was able to achieve sufficiently low limits. The critical PCLs/background values comprise the assessment targets and represent the Levels of Required Performance (LORPs).

These comparisons were primarily made because sample specific interferences or elevated COC concentrations may affect the laboratory's ability to detect or quantify a COC below the LORP. In

addition, concentrations of certain chemical parameters in environmental media cannot be quantified using currently-available analytical technologies.

All MQLs in the data packages addressed herein were below their respective LORPs for the requested analytes.

3.2.10 Field Precision

Field duplicate precision was reviewed in sample sets where they were obtained. Field duplicate samples were collected at the locations listed below. Analytical results of the original sample and the duplicate sample are compared in Table 7.

- 15P-a / 141020 DUP-1
- 16K-a / 141020 DUP-2
- 1D-I (1-1.5') / 141023 DUP-1
- 6E-I (1-1.5') / 141023 DUP-3
- 7E-c (1-1.5') / 141023 DUP-5

7B-d (1-1.5') / 141023 DUP-7Reproducibility is calculated by dividing the difference of the two duplicate analytical results (R1 – R2) by the average of the two results, then multiplying by 100 to obtain a percentage, as shown in the equation below. The acceptable range of reproducibility for metal analyses is 0 to 50% and for organic analyses is 0 to 40%.

$$\text{Reproducibility} = \frac{[R1 - R2]}{\left[(R1 + R2)/2\right]} \times 100$$

A comparison of the reproducibilities for the sample/duplicate sets described above is provided in Table 7. Based on the comparisons provided in Table 7, all of the reproducibilities for sample / field duplicate pairs are acceptable.

3.3 FIELD PROCEDURES/RECORDS

Samples were collected according to CJI's standard operating procedures (SOPs). Field notes documenting sample collection activities were also reviewed. No data qualification was required based on field procedures or field records.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In general, the deta quality was good. Critical samples collected for comparison to risk based PCLs to identify any exceedances or trends were usable and no data gaps were identified. Any specific data quality issues are identified in the text of this document.

To eddress the issues identified during data review recommendations for future monitoring et this site include:

- MS/MSDs should continue to be analyzed on samples from this Site so that matrix effects can be evaluated.
- In general, analytical results from all reviewed samples are usable for their intended purpose, and sampling should continue as conducted.

Kevin Lonseth		1/28/2015
Data Reviewer	Signature	Date

TABLES

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (8260)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch
10/20/2014	141020 DUP-1	14-10-2039	1	Soil	FD	X	141027L09					X	E1028MOIB2
10/20/2014	141020 DUP-2	14-10-2039	2	Soil	FD	X	141027L09					X	E1028MOIB2
10/23/2014	141023 DUP-1	14-10-2039	5	Soil	FD	X	141027L09					X	E1028MOIB2
10/23/2014	141023 DUP-3	14-10-2039	7	Soil	FD	X	141027L09					X	E1028MOIB2
10/23/2014	141023 DUP-5	14-10-2039	9	Soil	FD	X	141027L09					X	E1028MOIB2
10/23/2014	141023 DUP-7	14-10-2039	11	Soil	FD	X	141027L09					X	E1028MOIB2
10/22/2014	10G-a (12-14')	14-10-2039	91	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/22/2014	10H-a (8-10')	14-10-2039	93	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/21/2014	11F-a (P3) (6-8')	14-10-2039	61	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	11G-a (12-13')	14-10-2039	87	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	11H-a (6-8')	14-10-2039	89	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/21/2014	12G-a (14-16')	14-10-2039	57	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	12H-a (12-14')	14-10-2039	85	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/21/2014	13G-a (11-14')	14-10-2039	59	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	13H-a (12-15')	14-10-2039	83	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/21/2014	14F-a (4-6')	14-10-2039	55	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/21/2014	14G-a (14-16')	14-10-2039	53	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	14H-a (13-14.5')	14-10-2039	81	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/20/2014	14I-b	14-10-2039	13	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	14J-b	14-10-2039	14	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	14K-b	14-10-2039	15	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	14L-b	14-10-2039	16	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	14M-b	14-10-2039	17	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	14N-b	14-10-2039	18	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	14N-d	14-10-2039	19	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/21/2014	15F-c (6-8')	14-10-2039	51	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	15G-a (12-14')	14-10-2039	79	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	15H-a (14-16')	14-10-2039	77	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	15I-a (9-11')	14-10-2039	75	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/20/2014	15I-b	14-10-2039	27	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	15J-a	14-10-2039	26	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	15J-b	14-10-2039	28	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	15K-a	14-10-2039	25	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	15K-b	14-10-2039	29	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	15L-a	14-10-2039	24	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	15L-b	14-10-2039	30	Soil	Inv.	X	141027L08					X	E1028MOIB3

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Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (8260)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch
10/20/2014	15M-a	14-10-2039	23	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	15M-b	14-10-2039	31	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	15N-a	14-10-2039	22	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	15N-b	14-10-2039	32	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	15O-a	14-10-2039	21	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	15O-b	14-10-2039	33	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	15P-a	14-10-2039	20	Soil	Inv.	X	141027L09					X	E1028MOIB2
10/20/2014	15P-b	14-10-2039	34	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/21/2014	16G-a (10-11')	14-10-2039	48	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/21/2014	16G-a (16-18')	14-10-2039	49	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/21/2014	16H-a (14.5-15.5')	14-10-2039	46	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/21/2014	16H-a (9.5-10.5')	14-10-2039	45	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/22/2014	16I-a (12-14')	14-10-2039	73	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/20/2014	16J-a	14-10-2039	43	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16K-a	14-10-2039	42	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16L-a	14-10-2039	41	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16M-a	14-10-2039	40	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16N-a	14-10-2039	39	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16O-a	14-10-2039	38	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16P-a	14-10-2039	37	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16Q-a	14-10-2039	35	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/20/2014	16R-a	14-10-2039	36	Soil	Inv.	X	141027L08					X	E1028MOIB3
10/23/2014	1B-e (1-1.5')	14-10-2039	122	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	1C-d (1-1.5')	14-10-2039	120	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	1C-e (1-1.5')	14-10-2039	118	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	1D-d (1-1.5')	14-10-2039	116	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	1D-i (1-1.5')	14-10-2039	114	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	1E-a (1-1.5')	14-10-2039	106	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	1E-i (1-1.5')	14-10-2039	112	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	1F-i (1-1.5')	14-10-2039	110	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	1G-i (1-1.5')	14-10-2039	108	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	2C-f (1-1.5')	14-10-2039	124	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	2E-g (1-1.5')	14-10-2039	132	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	2F-h (1-1.5')	14-10-2039	134	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	2G-g (1-1.5')	14-10-2039	136	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	2G-i (1-1.5')	14-10-2039	138	Soil	Inv.	X	141027L12					X	E1028MOIB6

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		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch
10/23/2014	3B-a (1-1.5')	14-10-2039	126	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	3C-c (1-1.5')	14-10-2039	128	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	3D-a (1-1.5')	14-10-2039	130	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	3D-g (1-1.5')	14-10-2039	144	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	3G-g (1-1.5')	14-10-2039	140	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	4F-d (1-1.5')	14-10-2039	142	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	5B-i (1-1.5')	14-10-2039	146	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	5E-e (1-1.5')	14-10-2039	154	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	5G-h (1-1.5')	14-10-2039	158	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	6B-h (1-1.5')	14-10-2039	176	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	6C-c (1-1.5')	14-10-2039	148	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	6C-h (1-1.5')	14-10-2039	174	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	6D-c (1-1.5')	14-10-2039	150	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	6D-h (1-1.5')	14-10-2039	172	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	6E-b (1-1.5')	14-10-2039	152	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	6E-h (1-1.5')	14-10-2039	170	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	6E-i (1-1.5')	14-10-2039	168	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	6F-a (1-1.5')	14-10-2039	156	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	6F-f (1-1.5')	14-10-2039	166	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	6G-c (1-1.5')	14-10-2039	160	Soil	Inv.	X	141027L12					X	E1028MOIB6
10/23/2014	6G-d (1-1.5')	14-10-2039	164	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	6G-e (1-1.5')	14-10-2039	162	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7B-c (1-1.5')	14-10-2039	178	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7B-d (1-1.5')	14-10-2039	198	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7B-h (1-1.5')	14-10-2039	196	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7C-b (1-1.5')	14-10-2039	180	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7C-i (1-1.5')	14-10-2039	194	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7D-b (1-1.5')	14-10-2039	182	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7D-h (1-1.5')	14-10-2039	192	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7E-c (1-1.5')	14-10-2039	184	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7E-g (1-1.5')	14-10-2039	190	Soil	Inv.	X	141027L13	X	141028B06	X	141030L007	X	E1029MOIB1
10/23/2014	7F-b (1-1.5')	14-10-2039	186	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/23/2014	7G-e (1-1.5')	14-10-2039	188	Soil	Inv.	X	141027L13					X	E1029MOIB1
10/22/2014	7L-a (4-6')	14-10-2039	101	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/22/2014	7M-a (8-11')	14-10-2039	99	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/21/2014	8G-a (P3) (12-14')	14-10-2039	63	Soil	Inv.	X	141027L10					X	E1028MOIB4

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Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		TPH (TX 1005)		BTEX (8260)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch
10/21/2014	8H-a (P3) (10-12')	14-10-2039	67	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/21/2014	8J-a (4-6')	14-10-2039	69	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/21/2014	9G-a (8-10')	14-10-2039	65	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/21/2014	9H-a (12-14')	14-10-2039	71	Soil	Inv.	X	141027L10					X	E1028MOIB4
10/22/2014	9I-a (12-15')	14-10-2039	95	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	WL-B1	14-10-2039	104	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	WL-B1 (1.5-2')	14-10-2039	105	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/22/2014	WL-B2	14-10-2039	96	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/22/2014	WL-B2 (1.5-2')	14-10-2039	97	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	WL-B3	14-10-2039	102	Soil	Inv.	X	141027L11					X	E1028MOIB5
10/23/2014	WL-B3 (1.5-2')	14-10-2039	103	Soil	Inv.	X	141027L11					X	E1028MOIB5
	Laboratory Control Sample	14-10-2039	731	Soil	LCS	X	141027L08						
	Laboratory Control Sample	14-10-2039	730	Soil	LCS	X	141027L09						
	Laboratory Control Sample	14-10-2039	732	Soil	LCS	X	141027L10						
	Laboratory Control Sample	14-10-2039	733	Soil	LCS	X	141027L11						
	Laboratory Control Sample	14-10-2039	734	Soil	LCS	X	141027L12						
	Laboratory Control Sample	14-10-2039	735	Soil	LCS	X	141027L13						
	Laboratory Control Sample	14-10-2039	9026	Soil	LCS					X	141030L007		
	Laboratory Control Sample	14-10-2039	65	Soil	LCS			X	141028B06				
	Method Blank	14-10-2039	731	Soil	MB	X	141027L08						
	Method Blank	14-10-2039	730	Soil	MB	X	141027L09						
	Method Blank	14-10-2039	732	Soil	MB	X	141027L10						
	Method Blank	14-10-2039	733	Soil	MB	X	141027L11						
	Method Blank	14-10-2039	734	Soil	MB	X	141027L12						
	Method Blank	14-10-2039	735	Soil	MB	X	141027L13						
	Method Blank	14-10-2039	9026	Soil	MB					X	141030L007		
	Method Blank	14-10-2039	4964	Soil	MB							X	E1028MOIB2
	Method Blank	14-10-2039	4965	Soil	MB							X	E1028MOIB3
	Method Blank	14-10-2039	4966	Soil	MB							X	E1028MOIB4
	Method Blank	14-10-2039	4967	Soil	MB							X	E1028MOIB5
	Method Blank	14-10-2039	4968	Soil	MB							X	E1028MOIB6
	Method Blank	14-10-2039	4958	Soil	MB							X	E1029MOIB1
	Method Blank	14-10-2039	65	Soil	MB			X	141028B06				
10/29/2014	14-10-2324-1	14-10-2039	1	Soil	MS					X	141030L007		
10/20/2014	14N-b	14-10-2039	18	Soil	MS	X	141027L09						
10/20/2014	16K-a	14-10-2039	42	Soil	MS	X	141027L08						

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		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch
10/23/2014	2G-i (1-1.5')	14-10-2039	138	Soil	MS	X	141027L12						
10/23/2014	7E-g (1-1.5')	14-10-2039	190	Soil	MS			X	141028B06				
10/23/2014	7G-e (1-1.5')	14-10-2039	188	Soil	MS	X	141027L13						
10/22/2014	7L-a (4-6')	14-10-2039	101	Soil	MS	X	141027L11						
10/21/2014	8G-a (P3) (12-14')	14-10-2039	63	Soil	MS	X	141027L10						
10/29/2014	14-10-2324-1	14-10-2039	1	Soil	MSD					X	141030L007		
10/20/2014	14N-b	14-10-2039	18	Soil	MSD	X	141027L09						
10/20/2014	16K-a	14-10-2039	42	Soil	MSD	X	141027L08						
10/23/2014	2G-i (1-1.5')	14-10-2039	138	Soil	MSD	X	141027L12						
10/23/2014	7E-g (1-1.5')	14-10-2039	190	Soil	MSD			X	141028B06				
10/23/2014	7G-e (1-1.5')	14-10-2039	188	Soil	MSD	X	141027L13						
10/22/2014	7L-a (4-6')	14-10-2039	101	Soil	MSD	X	141027L11						
10/21/2014	8G-a (P3) (12-14')	14-10-2039	63	Soil	MSD	X	141027L10						
10/22/2014	11H-a (6-8')	14-10-2039	89	Soil	SDP							X	E1028MOIB5
10/20/2014	141020 DUP-1	14-10-2039	1	Soil	SDP							X	E1028MOIB2
10/20/2014	15I-b	14-10-2039	27	Soil	SDP							X	E1028MOIB3
10/21/2014	16G-a (16-18')	14-10-2039	49	Soil	SDP							X	E1028MOIB4
10/23/2014	1B-e (1-1.5')	14-10-2039	122	Soil	SDP							X	E1028MOIB6
10/23/2014	6G-e (1-1.5')	14-10-2039	162	Soil	SDP							X	E1029MOIB1
Total Number of Analyses Reviewed						143		5		5		131	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
LCS = Laboratory Control Sample
MB = Method Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
SDP = Sample Duplicate

TABLE 2
SAMPLE PRESERVATION AND HOLDING TIMES - LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

Parameters	Analytical Method	Preservation	Required Reporting Limit	Holding Time
Moisture Content	ASTM D-2216	Cool 4 ± 2°C	NA	10 days for solids
Total metals (arsenic, cadmium, lead, and selenium)	EPA 6020	Cool 4 ± 2°C[1] Water: Acidify w/ HNO_3 to pH < 2	TRRP Reporting	180 days
BTEX	EPA 8260B	Cool 4 ± 2°C	TRRP Reporting	14 days for solids
TPH	TX 1005	Cool 4 ± 2°C	TRRP Reporting	14 days for solids

Notes: 1) Although not required by method, the workplan for this project specified that samples submitted for metal analyses would be preserved with ice.

TABLE 3
SUMMARY OF ALL QUALIFIED DATA - LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Method	Analyte	QC Batch	Assigned Qualifier	Reason for Qualification
		Work Order	#							
NA	NA	NA		Soil	No Data Qualification					

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
QC Batch numbers for laboratory control samples (LCSs) contain an "L", those for matrix spike/matrix spike duplicates (MS/MSDs) contain an "S". Otherwise the numbers are identical.

TABLE 4
SAMPLE RESULTS QUALIFIED BASED ON SURROGATE RECOVERIES - LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample	Surrogate Recovery			Qualifier	
	Work Order	#	Type	Surrogate	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on Surrogate Recoveries			NA	NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low

TABLE 5
SAMPLE RESULTS QUALIFIED BASED ON LCS RECOVERIES - LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

Sample ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery			Qualifier	
	Work Order	#			Analyte	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on LCS Recoveries					NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Colored fill represents QC Batches that appear in several data packages.

TABLE 6A
SAMPLE RESULTS WITH MS/MSD RECOVERIES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery				Review Limits	Qualifier	
	Work Order	#			Analyte	MS %R	MSD %R	Ave %R		Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD Recoveries						NA	NA	NA

Notes: %R = Percent Recovery
Ave %R = Average of matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
R = Data are Rejected
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Light shaded average recoveries are low.
Dark shaded average recoveries are extremely low.

TABLE 6B
MS/MSD RELATIVE PERCENT DIFFERENCES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		QC Batch	Analyte	MS	MSD	RPD	Review	Qualifier	
	Work Order	#			%R	%R		Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD RPD's.						NA	NA

Notes: %R = Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
UJL = Estimated Non-Detect, Biased Low

TABLE 7
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES -
LAB REPORT 14102039
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	15P-a	141020 DUP-1	Absolute Difference	RPD	16K-a	141020 DUP-2	Absolute Difference	RPD
		14-10-2039-20	14-10-2039-1			14-10-2039-42	14-10-2039-2		
		10/20/2014	10/20/2014			10/20/2014	10/20/2014		
Arsenic	1	7.01	8.64	1.63	20.83	11.7	8.45	3.25	32.26
Cadmium	1	0.595	0.587	0.01	1.35	0.635	0.549	0.09	14.53
Lead	1	29.3	31.0	1.70	5.64	19.0	18.6	0.40	2.13
Selenium	1	0.683	0.564	0.12	19.09	0.640	0.529	0.11	18.99

CONSTITUENTS	MQL	1D-i (1-1.5')	141023 DUP-1	Absolute Difference	RPD	6E-i (1-1.5')	141023 DUP-3	Absolute Difference	RPD
		14-10-2039-114	14-10-2039-5			14-10-2039-168	14-10-2039-7		
		10/23/2014	10/23/2014			10/23/2014	10/23/2014		
Arsenic	1	NA	NA	NC	NC	NA	NA	NC	NC
Cadmium	1	NA	NA	NC	NC	NA	NA	NC	NC
Lead	1	NA	NA	NC	NC	NA	NA	NC	NC
Selenium	1	0.468	0.473	0.00	1.06	*0.264*	*0.264*	0.00	0.00

CONSTITUENTS	MQL	7E-c (1-1.5')	141023 DUP-5	Absolute Difference	RPD	7B-d (1-1.5')	141023 DUP-7	Absolute Difference	RPD
		14-10-2039-184	14-10-2039-9			14-10-2039-198	14-10-2039-11		
		10/23/2014	10/23/2014			10/23/2014	10/23/2014		
Arsenic	1	7.83	6.25	1.58	22.44	6.4	10.5	4.14	49.11
Cadmium	1	0.434	0.422	0.01	2.80	NA	NA	NC	NC
Lead	1	14.9	15.3	0.40	2.65	NA	NA	NC	NC
Selenium	1	0.60	0.479	0.12	21.60	NA	NA	NC	NC

Notes: RPD = Relative Percent Difference.
MQL = Method Quantitation Limit.
Concentrations for metals reported in mg/Kg.
NC = Not Calculated.
NA = Not Analyzed.
Shaded RPDs are outside of the acceptable range.
Italicized values represent analyte method detection limits used for field duplicate precision calculations.
Shaded RPDs for soil samples require data to be qualified when:
1) RPD ≥ 50% AND analyte concentrations > 5x MQL; OR
2) RPD ≥ 50%, analyte concentrations < 5x MQL, AND
a) Analyte concentration < 5x MQL AND absolute difference is ≥ 3x the MQL.
Shaded RPDs for aqueous samples require data to be qualified when:
1) RPD ≥ 30% AND analyte concentrations > 5x MQL; OR
2) RPD ≥ 30%, analyte concentrations < 5x MQL, AND
a) Analyte concentration < 5x MQL AND absolute difference is ≥ 2x the MQL.

ATTACHMENT A

CALSCIENCE NELAC/TLAP ACCREDITATION

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704499-14-4
Effective Date: 8/1/2014
Expiration Date: 7/31/2015

Executive Director Texas Commission on Environmental Quality

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

CERTIFIED MAIL

Mr. Larry Lem
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Lem:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

We are also continuing secondary accreditation based on your application and primary NELAP accreditation from the states of Oregon and New York according to the attached Fields of Accreditation. Your laboratory's secondary accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary Accreditation Bodies.

I am enclosing an accreditation certificate and listing of the fields of accreditation. Please review the enclosures for accuracy and completeness.

In the meantime, please contact me by telephone at (512) 239–3754 or electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: ***Air & Emissions***

Method EPA TO-14A

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	NY	5160	10248609
1,1,2,2-Tetrachloroethane	NY	5110	10248609
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248609
1,1,2-Trichloroethane	NY	5165	10248609
1,1-Dichloroethane	NY	4630	10248609
1,1-Dichloroethylene	NY	4640	10248609
1,2,4-Trichlorobenzene	NY	5155	10248609
1,2,4-Trimethylbenzene	NY	5210	10248609
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248609
1,2-Dichlorobenzene	NY	4610	10248609
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248609
1,2-Dichloropropane	NY	4655	10248609
1,3,5-Trimethylbenzene	NY	5215	10248609
1,3-Dichlorobenzene	NY	4615	10248609
1,4-Dichlorobenzene	NY	4620	10248609
Benzene	NY	4375	10248609
Benzyl chloride	NY	5635	10248609
Carbon tetrachloride	NY	4455	10248609
Chlorobenzene	NY	4475	10248609
Chloroethane (Ethyl chloride)	NY	4485	10248609
Chloroform	NY	4505	10248609
cis-1,2-Dichloroethylene	NY	4645	10248609
cis-1,3-Dichloropropene	NY	4680	10248609
Dichlorodifluoromethane (Freon-12)	NY	4625	10248609
Ethylbenzene	NY	4765	10248609
Hexachlorobutadiene	NY	4835	10248609
Methyl bromide (Bromomethane)	NY	4950	10248609
Methyl chloride (Chloromethane)	NY	4960	10248609

Texas Commission on Environmental Quality

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Matrix: *Air & Emissions*

Methylene chloride (Dichloromethane)	NY	4975	10248609
Styrene	NY	5100	10248609
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248609
Toluene	NY	5140	10248609
trans-1,2-Dichloroethylene	NY	4700	10248609
trans-1,3-Dichloropropylene	NY	4685	10248609
Trichloroethene (Trichloroethylene)	NY	5170	10248609
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248609
Vinyl chloride	NY	5235	10248609
Xylene (total)	NY	5260	10248609

Method EPA TO-15

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	NY	5160	10248803
1,1,2,2-Tetrachloroethane	NY	5110	10248803
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248803
1,1,2-Trichloroethane	NY	5165	10248803
1,1-Dichloroethane	NY	4630	10248803
1,1-Dichloroethylene	NY	4640	10248803
1,2,4-Trichlorobenzene	NY	5155	10248803
1,2,4-Trimethylbenzene	NY	5210	10248803
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248803
1,2-Dichlorobenzene	NY	4610	10248803
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248803
1,2-Dichloropropane	NY	4655	10248803
1,3,5-Trimethylbenzene	NY	5215	10248803
1,3-Butadiene	NY	9318	10248803
1,3-Dichlorobenzene	NY	4615	10248803
1,4-Dichlorobenzene	NY	4620	10248803
1,4-Dioxane (1,4-Diethyleneoxide)	NY	4735	10248803
2-Butanone (Methyl ethyl ketone, MEK)	NY	4410	10248803

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Matrix: *Air & Emissions*

Benzene	NY	4375	10248803
Benzyl chloride	NY	5635	10248803
Bromodichloromethane	NY	4395	10248803
Bromoform	NY	4400	10248803
Carbon tetrachloride	NY	4455	10248803
Chlorobenzene	NY	4475	10248803
Chloroethane (Ethyl chloride)	NY	4485	10248803
Chloroform	NY	4505	10248803
cis-1,2-Dichloroethylene	NY	4645	10248803
cis-1,3-Dichloropropene	NY	4680	10248803
Dichlorodifluoromethane (Freon-12)	NY	4625	10248803
Ethylbenzene	NY	4765	10248803
Hexachlorobutadiene	NY	4835	10248803
Methyl bromide (Bromomethane)	NY	4950	10248803
Methyl chloride (Chloromethane)	NY	4960	10248803
Methyl isobutyl ketone (Hexone) (MIBK)	NY	4985	10248803
Methyl tert-butyl ether (MTBE)	NY	5000	10248803
Methylene chloride (Dichloromethane)	NY	4975	10248803
n-Hexane	NY	4855	10248803
Styrene	NY	5100	10248803
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248803
Toluene	NY	5140	10248803
trans-1,2-Dichloroethylene	NY	4700	10248803
trans-1,3-Dichloropropylene	NY	4685	10248803
Trichloroethene (Trichloroethylene)	NY	5170	10248803
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248803
Vinyl acetate	NY	5225	10248803
Vinyl chloride	NY	5235	10248803
Xylene (total)	NY	5260	10248803

Texas Commission on Environmental Quality

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Matrix: ***Non-Potable Water***

Method ASTM D516

Analyte	AB	Analyte ID	Method ID
Sulfate	OR	2000	30002201

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	OR	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	OR	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	OR	1000	10013806
Antimony	OR	1005	10013806
Arsenic	OR	1010	10013806
Barium	OR	1015	10013806
Beryllium	OR	1020	10013806
Boron	OR	1025	10013806
Cadmium	OR	1030	10013806
Calcium	OR	1035	10013806
Chromium	OR	1040	10013806
Cobalt	OR	1050	10013806
Copper	OR	1055	10013806
Iron	OR	1070	10013806
Lead	OR	1075	10013806
Magnesium	OR	1085	10013806
Manganese	OR	1090	10013806
Molybdenum	OR	1100	10013806

Texas Commission on Environmental Quality

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Matrix: ***Non-Potable Water***

Nickel	OR	1105	10013806
Potassium	OR	1125	10013806
Selenium	OR	1140	10013806
Silica as SiO2	OR	1990	10013806
Silver	OR	1150	10013806
Sodium	OR	1155	10013806
Thallium	OR	1165	10013806
Tin	OR	1175	10013806
Vanadium	OR	1185	10013806
Zinc	OR	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	OR	1000	10014605
Antimony	OR	1005	10014605
Arsenic	OR	1010	10014605
Barium	OR	1015	10014605
Beryllium	OR	1020	10014605
Boron	OR	1025	10014605
Cadmium	OR	1030	10014605
Chromium	OR	1040	10014605
Cobalt	OR	1050	10014605
Copper	OR	1055	10014605
Iron	OR	1070	10014605
Lead	OR	1075	10014605
Manganese	OR	1090	10014605
Molybdenum	OR	1100	10014605
Nickel	OR	1105	10014605
Selenium	OR	1140	10014605
Silver	OR	1150	10014605
Thallium	OR	1165	10014605

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Matrix: ***Non-Potable Water***

Tin	OR	1175	10014605
Titanium	OR	1180	10014605
Vanadium	OR	1185	10014605
Zinc	OR	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	10053006
Fluoride	OR	1730	10053006
Nitrate as N	OR	1810	10053006
Nitrate-nitrite	OR	1820	10053006
Nitrite as N	OR	1840	10053006
Orthophosphate as P	OR	1870	10053006
Sulfate	OR	2000	10053006

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	OR	1540	10053608

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	OR	1515	10063408

Method EPA 351.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Kjeldahl nitrogen - total (TKN)	OR	1795	10065200

Method EPA 365.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10069804
Phosphorus	OR	1910	10069804

Method EPA 365.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10070801
Phosphorus	OR	1910	10070801

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Expiration Date: 7/31/2015
Issue Date: 8/1/2014

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Matrix: ***Non-Potable Water***

Method EPA 410.4

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	OR	1565	10077200

Method EPA 420.1

Analyte	AB	Analyte ID	Method ID
Total phenolics	OR	1905	10079400

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204

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Matrix: ***Non-Potable Water***

Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204
Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606

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Matrix: ***Non-Potable Water***

Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606
Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000

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Matrix: ***Non-Potable Water***

Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000
Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802

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Matrix: *Non-Potable Water*

1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802
1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802

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Matrix: *Non-Potable Water*

4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802
Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromochloropropane	OR	4580	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802

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Matrix: *Non-Potable Water*

Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802
Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	OR	4770	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802

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Matrix: ***Non-Potable Water***

Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802
T-amylmethylether (TAME)	OR	4370	10184802
tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805

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Matrix: *Non-Potable Water*

1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805
2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805

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Matrix: *Non-Potable Water*

4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805
4-Dimethyl aminoazobenzene	OR	6105	10185805
4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805

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Matrix: *Non-Potable Water*

bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805
Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805

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Matrix: ***Non-Potable Water***

Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805
n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method SM 2130 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Turbidity	OR	2055	20042200

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Alkalinity as CaCO3	OR	1505	20045005
Method SM 2340 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20046008
Method SM 2340 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20047001
Method SM 2510 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	OR	1610	20048004
Method SM 2540 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	OR	1950	20004608
Method SM 2540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	OR	1955	20049803
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	OR	1960	20004802
Method SM 2540 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	OR	1965	20005009
Method SM 4500-Cl^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	20084804
Method SM 4500-F^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	20101808
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	20104603

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-NH3 C	Ammonia as N	OR	1515	20023603
SM 4500-NH3 F	Ammonia as N	OR	1515	20023001
SM 4500-NH3 G	Ammonia as N	OR	1515	20023205
SM 4500-NO_2^- B	Nitrite as N	OR	1840	20024004
SM 4500-NO3 E	Nitrate as N	OR	1810	20114209
	Nitrate-nitrite	OR	1820	20114209
	Nitrite as N	OR	1840	20114209
SM 4500-O G	Oxygen, dissolved	OR	1880	20025405
SM 4500-P E	Orthophosphate as P	OR	1870	20025803
SM 4500-$S2^-$ D	Sulfide	OR	2005	20125400
SM 4500-$SO3^-$ B	Sulfite	OR	2015	20026806
SM 5210 B	Biochemical oxygen demand (BOD)	OR	1530	20027401

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Matrix: ***Non-Potable Water***

Carbonaceous BOD, CBOD	OR	1555	20027401
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	OR	1565	20027809
Method SM 5310 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20137206
Method SM 5310 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20139202
Method SM 5520 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	20028802
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	20028802
Method SM 5540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	OR	2025	20144405
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Expiration Date: 7/31/2015

7440 Lincoln Way
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Issue Date: 8/1/2014

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Matrix: ***Solid & Chemical Materials***

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	OR	849	10118806

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204
Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204

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Matrix: ***Solid & Chemical Materials***

Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606
Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606

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Matrix: *Solid & Chemical Materials*

Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000
Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000

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Matrix: ***Solid & Chemical Materials***

Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802
1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802

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Matrix: *Solid & Chemical Materials*

1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802
4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802

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Matrix: *Solid & Chemical Materials*

Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802
Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802

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Matrix: *Solid & Chemical Materials*

Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methanol	OR	4930	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802
Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802

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Matrix: ***Solid & Chemical Materials***

tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805
1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805

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Matrix: ***Solid & Chemical Materials***

2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805
4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805

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Matrix: *Solid & Chemical Materials*

4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805

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Matrix: ***Solid & Chemical Materials***

Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachlorocyclopentadiene	OR	6285	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805
Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805

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Matrix: ***Solid & Chemical Materials***

n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	OR	1615	10198400
pH	OR	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	10199209

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These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT B

DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

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WORK ORDER NUMBER: 14-10-2039

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cook-Joyce Inc.

Client Project Name: Grand Park / 13046.01

Attention: Richard Varnell
812 West 11th Street
Austin, TX 78701-2053

Approved for release on 11/04/2014 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-10-2039

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Work Order Narrative

Work Order: 14-10-2039 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/25/14. They were assigned to Work Order 14-10-2039.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-10-2039
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	10/25/14 09:40
		Number of Containers:	199
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
141020 DUP-1	14-10-2039-1	10/20/14 12:00	1	Solid
141020 DUP-2	14-10-2039-2	10/20/14 12:00	1	Solid
141021 DUP-1	14-10-2039-3	10/21/14 12:00	1	Solid
141022 DUP-1	14-10-2039-4	10/22/14 12:00	1	Solid
141023 DUP-1	14-10-2039-5	10/23/14 12:00	1	Solid
141023 DUP-2	14-10-2039-6	10/23/14 12:00	1	Solid
141023 DUP-3	14-10-2039-7	10/23/14 12:00	1	Solid
141023 DUP-4	14-10-2039-8	10/23/14 12:00	1	Solid
141023 DUP-5	14-10-2039-9	10/23/14 12:00	1	Solid
141023 DUP-6	14-10-2039-10	10/23/14 12:00	1	Solid
141023 DUP-7	14-10-2039-11	10/23/14 12:00	1	Solid
141023 DUP-8	14-10-2039-12	10/23/14 12:00	1	Solid
14I-b	14-10-2039-13	10/20/14 13:20	1	Solid
14J-b	14-10-2039-14	10/20/14 13:25	1	Solid
14K-b	14-10-2039-15	10/20/14 13:30	1	Solid
14L-b	14-10-2039-16	10/20/14 13:33	1	Solid
14M-b	14-10-2039-17	10/20/14 13:37	1	Solid
14N-b	14-10-2039-18	10/20/14 13:40	1	Solid
14N-d	14-10-2039-19	10/20/14 13:43	1	Solid
15P-a	14-10-2039-20	10/20/14 13:46	1	Solid
15O-a	14-10-2039-21	10/20/14 13:49	1	Solid
15N-a	14-10-2039-22	10/20/14 13:56	1	Solid
15M-a	14-10-2039-23	10/20/14 14:17	1	Solid
15L-a	14-10-2039-24	10/20/14 14:20	1	Solid
15K-a	14-10-2039-25	10/20/14 14:24	1	Solid
15J-a	14-10-2039-26	10/20/14 15:09	1	Solid
15I-b	14-10-2039-27	10/20/14 15:14	1	Solid
15J-b	14-10-2039-28	10/20/14 15:18	1	Solid
15K-b	14-10-2039-29	10/20/14 15:22	1	Solid
15L-b	14-10-2039-30	10/20/14 15:24	1	Solid
15M-b	14-10-2039-31	10/20/14 15:28	1	Solid
15N-b	14-10-2039-32	10/20/14 15:31	1	Solid
15O-b	14-10-2039-33	10/20/14 15:33	1	Solid
15P-b	14-10-2039-34	10/20/14 15:35	1	Solid
16Q-a	14-10-2039-35	10/20/14 15:46	1	Solid
16R-a	14-10-2039-36	10/20/14 16:00	1	Solid
16P-a	14-10-2039-37	10/20/14 16:12	1	Solid
16O-a	14-10-2039-38	10/20/14 16:15	1	Solid
16N-a	14-10-2039-39	10/20/14 16:18	1	Solid
16M-a	14-10-2039-40	10/20/14 16:20	1	Solid
16L-a	14-10-2039-41	10/20/14 16:21	1	Solid
16K-a	14-10-2039-42	10/20/14 16:30	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-10-2039
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	10/25/14 09:40
		Number of Containers:	199
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
16J-a	14-10-2039-43	10/20/14 16:32	1	Solid
16H-a (1.5-2')	14-10-2039-44	10/21/14 09:17	1	Solid
16H-a (9.5-10.5')	14-10-2039-45	10/21/14 09:27	1	Solid
16H-a (14.5-15.5')	14-10-2039-46	10/21/14 09:35	1	Solid
16G-a (1.5-2')	14-10-2039-47	10/21/14 09:55	1	Solid
16G-a (10-11')	14-10-2039-48	10/21/14 10:04	1	Solid
16G-a (16-18')	14-10-2039-49	10/21/14 10:30	1	Solid
15F-c (1.5-2')	14-10-2039-50	10/21/14 10:53	1	Solid
15F-c (6-8')	14-10-2039-51	10/21/14 11:00	1	Solid
14G-a (1.5-2')	14-10-2039-52	10/21/14 12:30	1	Solid
14G-a (14-16')	14-10-2039-53	10/21/14 12:50	1	Solid
14F-a (1.5-2')	14-10-2039-54	10/21/14 13:00	1	Solid
14F-a (4-6')	14-10-2039-55	10/21/14 13:10	1	Solid
12G-a (1.5-2')	14-10-2039-56	10/21/14 13:20	1	Solid
12G-a (14-16')	14-10-2039-57	10/21/14 13:40	1	Solid
13G-a (1.5-2')	14-10-2039-58	10/21/14 14:00	1	Solid
13G-a (11-14')	14-10-2039-59	10/21/14 14:15	1	Solid
11F-a (P3) (1.5-2')	14-10-2039-60	10/21/14 14:50	1	Solid
11F-a (P3) (6-8')	14-10-2039-61	10/21/14 14:55	1	Solid
8G-a (P3) (1.5-2')	14-10-2039-62	10/21/14 15:15	1	Solid
8G-a (P3) (12-14')	14-10-2039-63	10/21/14 15:25	1	Solid
9G-a (1.5-2')	14-10-2039-64	10/21/14 15:50	1	Solid
9G-a (8-10')	14-10-2039-65	10/21/14 15:55	1	Solid
8H-a (P3) (1.5-2')	14-10-2039-66	10/21/14 16:06	1	Solid
8H-a (P3) (10-12')	14-10-2039-67	10/21/14 16:20	1	Solid
8J-a (1.5-2')	14-10-2039-68	10/21/14 16:30	1	Solid
8J-a (4-6')	14-10-2039-69	10/21/14 16:40	1	Solid
9H-a (1.5-2')	14-10-2039-70	10/21/14 16:50	1	Solid
9H-a (12-14')	14-10-2039-71	10/21/14 17:00	1	Solid
16I-a (1.5-2')	14-10-2039-72	10/22/14 09:00	1	Solid
16I-a (12-14')	14-10-2039-73	10/22/14 09:10	1	Solid
15I-a (1.5-2')	14-10-2039-74	10/22/14 09:30	1	Solid
15I-a (9-11')	14-10-2039-75	10/22/14 09:40	1	Solid
15H-a (1.5-2')	14-10-2039-76	10/22/14 09:55	1	Solid
15H-a (14-16')	14-10-2039-77	10/22/14 10:00	1	Solid
15G-a (1.5-2')	14-10-2039-78	10/22/14 10:15	1	Solid
15G-a (12-14')	14-10-2039-79	10/22/14 10:30	1	Solid
14H-a (1.5-2')	14-10-2039-80	10/22/14 10:40	1	Solid
14H-a (13-14.5')	14-10-2039-81	10/22/14 10:55	1	Solid
13H-a (1.5-2')	14-10-2039-82	10/22/14 11:20	1	Solid
13H-a (12-15')	14-10-2039-83	10/22/14 11:30	1	Solid
12H-a (1.5-2')	14-10-2039-84	10/22/14 11:40	1	Solid

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 14-10-2039
Project Name: Grand Park / 13046.01
PO Number:
Date/Time Received: 10/25/14 09:40
Number of Containers: 199

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
12H-a (12-14')	14-10-2039-85	10/22/14 12:00	1	Solid
11G-a (1.5-2')	14-10-2039-86	10/22/14 12:15	1	Solid
11G-a (12-13')	14-10-2039-87	10/22/14 12:25	1	Solid
11H-a (1.5-2')	14-10-2039-88	10/22/14 12:35	1	Solid
11H-a (6-8')	14-10-2039-89	10/22/14 12:40	1	Solid
10G-a (1.5-2')	14-10-2039-90	10/22/14 14:15	1	Solid
10G-a (12-14')	14-10-2039-91	10/22/14 14:30	1	Solid
10H-a (1.5-2')	14-10-2039-92	10/22/14 14:40	1	Solid
10H-a (8-10')	14-10-2039-93	10/22/14 14:50	1	Solid
9I-a (1.5-2')	14-10-2039-94	10/22/14 15:00	1	Solid
9I-a (12-15')	14-10-2039-95	10/22/14 15:15	1	Solid
WL-B2	14-10-2039-96	10/22/14 15:30	1	Solid
WL-B2 (1.5-2')	14-10-2039-97	10/22/14 15:35	1	Solid
7M-a (1.5-2')	14-10-2039-98	10/22/14 15:45	1	Solid
7M-a (8-11')	14-10-2039-99	10/22/14 15:50	1	Solid
7L-a (1.5-2')	14-10-2039-100	10/22/14 16:00	1	Solid
7L-a (4-6')	14-10-2039-101	10/22/14 16:05	1	Solid
WL-B3	14-10-2039-102	10/23/14 08:27	1	Solid
WL-B3 (1.5-2')	14-10-2039-103	10/23/14 08:40	1	Solid
WL-B1	14-10-2039-104	10/23/14 08:50	1	Solid
WL-B1 (1.5-2')	14-10-2039-105	10/23/14 08:55	1	Solid
1E-a (1-1.5')	14-10-2039-106	10/23/14 09:30	1	Solid
1E-a (1.5-2')	14-10-2039-107	10/23/14 09:33	1	Solid
1G-i (1-1.5')	14-10-2039-108	10/23/14 09:40	1	Solid
1G-i (1.5-2')	14-10-2039-109	10/23/14 09:43	1	Solid
1F-i (1-1.5')	14-10-2039-110	10/23/14 09:46	1	Solid
1F-i (1.5-2')	14-10-2039-111	10/23/14 09:49	1	Solid
1E-i (1-1.5')	14-10-2039-112	10/23/14 09:52	1	Solid
1E-i (1.5-2')	14-10-2039-113	10/23/14 09:55	1	Solid
1D-i (1-1.5')	14-10-2039-114	10/23/14 10:00	1	Solid
1D-i (1.5-2')	14-10-2039-115	10/23/14 10:03	1	Solid
1D-d (1-1.5')	14-10-2039-116	10/23/14 10:08	1	Solid
1D-d (1.5-2')	14-10-2039-117	10/23/14 10:10	1	Solid
1C-e (1-1.5')	14-10-2039-118	10/23/14 10:15	1	Solid
1C-e (1.5-2')	14-10-2039-119	10/23/14 10:18	1	Solid
1C-d (1-1.5')	14-10-2039-120	10/23/14 10:20	1	Solid
1C-d (1.5-2')	14-10-2039-121	10/23/14 10:23	1	Solid
1B-e (1-1.5')	14-10-2039-122	10/23/14 10:25	1	Solid
1B-e (1.5-2')	14-10-2039-123	10/23/14 10:27	1	Solid
2C-f (1-1.5')	14-10-2039-124	10/23/14 10:30	1	Solid
2C-f (1.5-2')	14-10-2039-125	10/23/14 10:32	1	Solid
3B-a (1-1.5')	14-10-2039-126	10/23/14 10:42	1	Solid

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 14-10-2039
Project Name: Grand Park / 13046.01
PO Number:
Date/Time Received: 10/25/14 09:40
Number of Containers: 199

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
3B-a (1.5-2')	14-10-2039-127	10/23/14 10:44	1	Solid
3C-c (1-1.5')	14-10-2039-128	10/23/14 10:50	1	Solid
3C-c (1.5-2')	14-10-2039-129	10/23/14 10:52	1	Solid
3D-a (1-1.5')	14-10-2039-130	10/23/14 10:54	1	Solid
3D-a (1.5-2')	14-10-2039-131	10/23/14 10:56	1	Solid
2E-g (1-1.5')	14-10-2039-132	10/23/14 11:00	1	Solid
2E-g (1.5-2')	14-10-2039-133	10/23/14 11:02	1	Solid
2F-h (1-1.5')	14-10-2039-134	10/23/14 11:12	1	Solid
2F-h (1.5-2')	14-10-2039-135	10/23/14 11:14	1	Solid
2G-g (1-1.5')	14-10-2039-136	10/23/14 11:20	1	Solid
2G-g (1.5-2')	14-10-2039-137	10/23/14 11:22	1	Solid
2G-i (1-1.5')	14-10-2039-138	10/23/14 11:25	1	Solid
2G-i (1.5-2')	14-10-2039-139	10/23/14 11:27	1	Solid
3G-g (1-1.5')	14-10-2039-140	10/23/14 11:30	1	Solid
3G-g (1.5-2')	14-10-2039-141	10/23/14 11:33	1	Solid
4F-d (1-1.5')	14-10-2039-142	10/23/14 11:40	1	Solid
4F-d (1.5-2')	14-10-2039-143	10/23/14 11:42	1	Solid
3D-g (1-1.5')	14-10-2039-144	10/23/14 11:45	1	Solid
3D-g (1.5-2')	14-10-2039-145	10/23/14 11:47	1	Solid
5B-i (1-1.5')	14-10-2039-146	10/23/14 13:10	1	Solid
5B-i (1.5-2')	14-10-2039-147	10/23/14 13:12	1	Solid
6C-c (1-1.5')	14-10-2039-148	10/23/14 13:20	1	Solid
6C-c (1.5-2')	14-10-2039-149	10/23/14 13:22	1	Solid
6D-c (1-1.5')	14-10-2039-150	10/23/14 13:25	1	Solid
6D-c (1.5-2')	14-10-2039-151	10/23/14 13:27	1	Solid
6E-b (1-1.5')	14-10-2039-152	10/23/14 13:33	1	Solid
6E-b (1.5-2')	14-10-2039-153	10/23/14 13:35	1	Solid
5E-e (1-1.5')	14-10-2039-154	10/23/14 13:40	1	Solid
5E-e (1.5-2')	14-10-2039-155	10/23/14 13:42	1	Solid
6F-a (1-1.5')	14-10-2039-156	10/23/14 13:45	1	Solid
6F-a (1.5-2')	14-10-2039-157	10/23/14 13:47	1	Solid
5G-h (1-1.5')	14-10-2039-158	10/23/14 13:52	1	Solid
5G-h (1.5-2')	14-10-2039-159	10/23/14 13:54	1	Solid
6G-c (1-1.5')	14-10-2039-160	10/23/14 14:00	1	Solid
6G-c (1.5-2')	14-10-2039-161	10/23/14 14:02	1	Solid
6G-e (1-1.5')	14-10-2039-162	10/23/14 14:07	1	Solid
6G-e (1.5-2')	14-10-2039-163	10/23/14 14:09	1	Solid
6G-d (1-1.5')	14-10-2039-164	10/23/14 14:15	1	Solid
6G-d (1.5-2')	14-10-2039-165	10/23/14 14:17	1	Solid
6F-f (1-1.5')	14-10-2039-166	10/23/14 14:20	1	Solid
6F-f (1.5-2')	14-10-2039-167	10/23/14 14:22	1	Solid
6E-i (1-1.5')	14-10-2039-168	10/23/14 14:30	1	Solid

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 14-10-2039
Project Name: Grand Park / 13046.01
PO Number:
Date/Time Received: 10/25/14 09:40
Number of Containers: 199

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
6E-i (1.5-2')	14-10-2039-169	10/23/14 14:32	1	Solid
6E-h (1-1.5')	14-10-2039-170	10/23/14 14:37	1	Solid
6E-h (1.5-2')	14-10-2039-171	10/23/14 14:39	1	Solid
6D-h (1-1.5')	14-10-2039-172	10/23/14 14:42	1	Solid
6D-h (1.5-2')	14-10-2039-173	10/23/14 14:44	1	Solid
6C-h (1-1.5')	14-10-2039-174	10/23/14 14:48	1	Solid
6C-h (1.5-2')	14-10-2039-175	10/23/14 14:50	1	Solid
6B-h (1-1.5')	14-10-2039-176	10/23/14 14:55	1	Solid
6B-h (1.5-2')	14-10-2039-177	10/23/14 14:57	1	Solid
7B-c (1-1.5')	14-10-2039-178	10/23/14 15:05	1	Solid
7B-c (1.5-2')	14-10-2039-179	10/23/14 15:07	1	Solid
7C-b (1-1.5')	14-10-2039-180	10/23/14 15:10	1	Solid
7C-b (1.5-2')	14-10-2039-181	10/23/14 15:12	1	Solid
7D-b (1-1.5')	14-10-2039-182	10/23/14 15:15	1	Solid
7D-b (1.5-2')	14-10-2039-183	10/23/14 15:17	1	Solid
7E-c (1-1.5')	14-10-2039-184	10/23/14 15:20	1	Solid
7E-c (1.5-2')	14-10-2039-185	10/23/14 15:22	1	Solid
7F-b (1-1.5')	14-10-2039-186	10/23/14 15:33	1	Solid
7F-b (1.5-2')	14-10-2039-187	10/23/14 15:35	1	Solid
7G-e (1-1.5')	14-10-2039-188	10/23/14 15:45	1	Solid
7G-e (1.5-2')	14-10-2039-189	10/23/14 15:47	1	Solid
7E-g (1-1.5')	14-10-2039-190	10/23/14 15:55	1	Solid
7E-g (1.5-2')	14-10-2039-191	10/23/14 15:57	1	Solid
7D-h (1-1.5')	14-10-2039-192	10/23/14 16:00	1	Solid
7D-h (1.5-2')	14-10-2039-193	10/23/14 16:03	1	Solid
7C-i (1-1.5')	14-10-2039-194	10/23/14 16:10	1	Solid
7C-i (1.5-2')	14-10-2039-195	10/23/14 16:12	1	Solid
7B-h (1-1.5')	14-10-2039-196	10/23/14 16:15	1	Solid
7B-h (1.5-2')	14-10-2039-197	10/23/14 16:17	1	Solid
7B-d (1-1.5')	14-10-2039-198	10/23/14 16:20	1	Solid
7B-d (1.5-2')	14-10-2039-199	10/23/14 16:22	1	Solid

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141020 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
141020 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
141020 DUP-2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
141020 DUP-2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
141023 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
141023 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
141023 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
141023 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
141023 DUP-5	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
141023 DUP-5	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
141023 DUP-7	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
141023 DUP-7	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
14I-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
14I-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
14J-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
14J-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
14K-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
14K-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
14L-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
14L-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
14M-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
14M-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
14N-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
14N-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
14N-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
14N-d	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15P-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
15P-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15O-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
15O-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15N-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
15N-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15M-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
15M-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15L-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
15L-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15K-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
15K-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15J-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID2	E1028MOIB2
15J-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S09	141027L09
15I-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15I-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
15J-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15J-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
15K-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15K-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08

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15L-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15L-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
15M-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15M-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
15N-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15N-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
15O-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15O-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
15P-b	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
15P-b	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16Q-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16Q-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16R-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16R-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16P-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16P-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16O-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16O-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16N-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16N-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16M-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16M-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16L-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16L-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16K-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16K-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16J-a	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16J-a	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16H-a (9.5-10.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16H-a (9.5-10.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16H-a (14.5-15.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16H-a (14.5-15.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16G-a (10-11')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID3	E1028MOIB3
16G-a (10-11')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S08	141027L08
16G-a (16-18')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
16G-a (16-18')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
15F-c (6-8')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
15F-c (6-8')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
14G-a (14-16')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
14G-a (14-16')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
14F-a (4-6')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
14F-a (4-6')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
12G-a (14-16')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
12G-a (14-16')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
13G-a (11-14')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
13G-a (11-14')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
11F-a (P3) (6-8')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
11F-a (P3) (6-8')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
8G-a (P3) (12-14')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
8G-a (P3) (12-14')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
9G-a (8-10')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
9G-a (8-10')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
8H-a (P3) (10-12')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
8H-a (P3) (10-12')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
8J-a (4-6')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
8J-a (4-6')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
9H-a (12-14')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
9H-a (12-14')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
16I-a (12-14')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
16I-a (12-14')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
15I-a (9-11')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
15I-a (9-11')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
15H-a (14-16')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
15H-a (14-16')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
15G-a (12-14')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
15G-a (12-14')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
14H-a (13-14.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
14H-a (13-14.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
13H-a (12-15')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
13H-a (12-15')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
12H-a (12-14')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
12H-a (12-14')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
11G-a (12-13')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID4	E1028MOIB4
11G-a (12-13')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S10	141027L10
11H-a (6-8')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
11H-a (6-8')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
10G-a (12-14')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
10G-a (12-14')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
10H-a (8-10')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
10H-a (8-10')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
9I-a (12-15')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
9I-a (12-15')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
WL-B2	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
WL-B2	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
WL-B2 (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
WL-B2 (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
7M-a (8-11')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
7M-a (8-11')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
7L-a (4-6')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
7L-a (4-6')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
WL-B3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
WL-B3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11

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WL-B3 (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
WL-B3 (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
WL-B1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
WL-B1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
WL-B1 (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
WL-B1 (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1E-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1E-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1G-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1G-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1F-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1F-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1E-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1E-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1D-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1D-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1D-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1D-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1C-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1C-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1C-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID5	E1028MOIB5
1C-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S11	141027L11
1B-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
1B-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
2C-f (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
2C-f (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
3B-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
3B-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
3C-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
3C-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
3D-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
3D-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
2E-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
2E-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
2F-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
2F-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
2G-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
2G-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
2G-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
2G-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
3G-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
3G-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
4F-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
4F-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
3D-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
3D-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
5B-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
5B-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
6C-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
6C-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
6D-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
6D-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
6E-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
6E-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
5E-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
5E-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
6F-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
6F-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
5G-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
5G-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
6G-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1028MOID6	E1028MOIB6
6G-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S12	141027L12
6G-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6G-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
6G-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6G-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
6F-f (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6F-f (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
6E-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6E-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
6E-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6E-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
6D-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6D-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
6C-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6C-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
6B-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
6B-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7B-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7B-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7C-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7C-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7D-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7D-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7E-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7E-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7F-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7F-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7G-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7G-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7E-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7E-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
7E-g (1-1.5')	EPA 8260B BTEX		EPA 5030C	GC/MS BB	141030S019	141030L007
7E-g (1-1.5')	TX 1005 TPH Soil		TX 1005	GC 50	141028S06	141028B06
7D-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7D-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7C-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7C-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7B-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7B-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13
7B-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1029MOID1	E1029MOIB1
7B-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141027S13	141027L13

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141020 DUP-1	**14-10-2039-1-A**	**10/20/14 12:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141020 DUP-2	**14-10-2039-2-A**	**10/20/14 12:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-1	**14-10-2039-5-A**	**10/23/14 12:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-3	**14-10-2039-7-A**	**10/23/14 12:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-5	**14-10-2039-9-A**	**10/23/14 12:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-7	**14-10-2039-11-A**	**10/23/14 12:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.5	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14I-b	**14-10-2039-13-A**	**10/20/14 13:20**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14J-b	**14-10-2039-14-A**	**10/20/14 13:25**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14K-b	**14-10-2039-15-A**	**10/20/14 13:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14L-b	**14-10-2039-16-A**	**10/20/14 13:33**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14M-b	**14-10-2039-17-A**	**10/20/14 13:37**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14N-b	**14-10-2039-18-A**	**10/20/14 13:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.5	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14N-d	**14-10-2039-19-A**	**10/20/14 13:43**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	23.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15P-a	**14-10-2039-20-A**	**10/20/14 13:46**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15O-a	**14-10-2039-21-A**	**10/20/14 13:49**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	29.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15N-a	**14-10-2039-22-A**	**10/20/14 13:56**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15M-a	**14-10-2039-23-A**	**10/20/14 14:17**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	39.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15L-a	**14-10-2039-24-A**	**10/20/14 14:20**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	27.6	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 4 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15K-a	**14-10-2039-25-A**	**10/20/14 14:24**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15J-a	**14-10-2039-26-A**	**10/20/14 15:09**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.40	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15I-b	**14-10-2039-27-A**	**10/20/14 15:14**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15J-b	**14-10-2039-28-A**	**10/20/14 15:18**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15K-b	**14-10-2039-29-A**	**10/20/14 15:22**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15L-b	**14-10-2039-30-A**	**10/20/14 15:24**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.9	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15M-b	**14-10-2039-31-A**	**10/20/14 15:28**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15N-b	**14-10-2039-32-A**	**10/20/14 15:31**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15O-b	**14-10-2039-33-A**	**10/20/14 15:33**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15P-b	**14-10-2039-34-A**	**10/20/14 15:35**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16Q-a	**14-10-2039-35-A**	**10/20/14 15:46**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	40.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16R-a	**14-10-2039-36-A**	**10/20/14 16:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	29.8	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16P-a	**14-10-2039-37-A**	**10/20/14 16:12**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16O-a	**14-10-2039-38-A**	**10/20/14 16:15**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16N-a	**14-10-2039-39-A**	**10/20/14 16:18**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	32.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16M-a	**14-10-2039-40-A**	**10/20/14 16:20**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16L-a	**14-10-2039-41-A**	**10/20/14 16:21**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16K-a	**14-10-2039-42-A**	**10/20/14 16:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16J-a	**14-10-2039-43-A**	**10/20/14 16:32**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16H-a (9.5-10.5')	**14-10-2039-45-A**	**10/21/14 09:27**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16H-a (14.5-15.5')	**14-10-2039-46-A**	**10/21/14 09:35**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16G-a (10-11')	**14-10-2039-48-A**	**10/21/14 10:04**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16G-a (16-18')	**14-10-2039-49-A**	**10/21/14 10:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15F-c (6-8')	**14-10-2039-51-A**	**10/21/14 11:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.20	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14G-a (14-16')	**14-10-2039-53-A**	**10/21/14 12:50**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14F-a (4-6')	**14-10-2039-55-A**	**10/21/14 13:10**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12G-a (14-16')	**14-10-2039-57-A**	**10/21/14 13:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13G-a (11-14')	**14-10-2039-59-A**	**10/21/14 14:15**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-a (P3) (6-8')	**14-10-2039-61-A**	**10/21/14 14:55**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-a (P3) (12-14')	**14-10-2039-63-A**	**10/21/14 15:25**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.5	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9G-a (8-10')	**14-10-2039-65-A**	**10/21/14 15:55**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8H-a (P3) (10-12')	**14-10-2039-67-A**	**10/21/14 16:20**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8J-a (4-6')	**14-10-2039-69-A**	**10/21/14 16:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9H-a (12-14')	**14-10-2039-71-A**	**10/21/14 17:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16I-a (12-14')	**14-10-2039-73-A**	**10/22/14 09:10**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15I-a (9-11')	**14-10-2039-75-A**	**10/22/14 09:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.5	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15H-a (14-16')	**14-10-2039-77-A**	**10/22/14 10:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15G-a (12-14')	**14-10-2039-79-A**	**10/22/14 10:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14H-a (13-14.5')	**14-10-2039-81-A**	**10/22/14 10:55**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13H-a (12-15')	**14-10-2039-83-A**	**10/22/14 11:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12H-a (12-14')	**14-10-2039-85-A**	**10/22/14 12:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11G-a (12-13')	**14-10-2039-87-A**	**10/22/14 12:25**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.1	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11H-a (6-8')	**14-10-2039-89-A**	**10/22/14 12:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10G-a (12-14')	**14-10-2039-91-A**	**10/22/14 14:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10H-a (8-10')	**14-10-2039-93-A**	**10/22/14 14:50**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9I-a (12-15')	**14-10-2039-95-A**	**10/22/14 15:15**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B2	**14-10-2039-96-A**	**10/22/14 15:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	6.80	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B2 (1.5-2')	**14-10-2039-97-A**	**10/22/14 15:35**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.5	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7M-a (8-11')	**14-10-2039-99-A**	**10/22/14 15:50**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7L-a (4-6')	**14-10-2039-101-A**	**10/22/14 16:05**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B3	**14-10-2039-102-A**	**10/23/14 08:27**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B3 (1.5-2')	**14-10-2039-103-A**	**10/23/14 08:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B1	**14-10-2039-104-A**	**10/23/14 08:50**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B1 (1.5-2')	**14-10-2039-105-A**	**10/23/14 08:55**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.1	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-a (1-1.5')	**14-10-2039-106-A**	**10/23/14 09:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-i (1-1.5')	**14-10-2039-108-A**	**10/23/14 09:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-i (1-1.5')	**14-10-2039-110-A**	**10/23/14 09:46**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-i (1-1.5')	**14-10-2039-112-A**	**10/23/14 09:52**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-i (1-1.5')	**14-10-2039-114-A**	**10/23/14 10:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-d (1-1.5')	**14-10-2039-116-A**	**10/23/14 10:08**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.6	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-e (1-1.5')	**14-10-2039-118-A**	**10/23/14 10:15**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-d (1-1.5')	**14-10-2039-120-A**	**10/23/14 10:20**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-e (1-1.5')	**14-10-2039-122-A**	**10/23/14 10:25**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-f (1-1.5')	**14-10-2039-124-A**	**10/23/14 10:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-a (1-1.5')	**14-10-2039-126-A**	**10/23/14 10:42**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-c (1-1.5')	**14-10-2039-128-A**	**10/23/14 10:50**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.8	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-a (1-1.5')	**14-10-2039-130-A**	**10/23/14 10:54**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-g (1-1.5')	**14-10-2039-132-A**	**10/23/14 11:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-h (1-1.5')	**14-10-2039-134-A**	**10/23/14 11:12**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-g (1-1.5')	**14-10-2039-136-A**	**10/23/14 11:20**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-i (1-1.5')	**14-10-2039-138-A**	**10/23/14 11:25**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-g (1-1.5')	**14-10-2039-140-A**	**10/23/14 11:30**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.3	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-d (1-1.5')	**14-10-2039-142-A**	**10/23/14 11:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-g (1-1.5')	**14-10-2039-144-A**	**10/23/14 11:45**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-i (1-1.5')	**14-10-2039-146-A**	**10/23/14 13:10**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-c (1-1.5')	**14-10-2039-148-A**	**10/23/14 13:20**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-c (1-1.5')	**14-10-2039-150-A**	**10/23/14 13:25**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-b (1-1.5')	**14-10-2039-152-A**	**10/23/14 13:33**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.1	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-e (1-1.5')	**14-10-2039-154-A**	**10/23/14 13:40**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-a (1-1.5')	**14-10-2039-156-A**	**10/23/14 13:45**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-h (1-1.5')	**14-10-2039-158-A**	**10/23/14 13:52**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-c (1-1.5')	**14-10-2039-160-A**	**10/23/14 14:00**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-e (1-1.5')	**14-10-2039-162-A**	**10/23/14 14:07**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-d (1-1.5')	**14-10-2039-164-A**	**10/23/14 14:15**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.7	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-f (1-1.5')	**14-10-2039-166-A**	**10/23/14 14:20**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-i (1-1.5')	**14-10-2039-168-A**	**10/23/14 14:30**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-h (1-1.5')	**14-10-2039-170-A**	**10/23/14 14:37**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-h (1-1.5')	**14-10-2039-172-A**	**10/23/14 14:42**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-h (1-1.5')	**14-10-2039-174-A**	**10/23/14 14:48**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-h (1-1.5')	**14-10-2039-176-A**	**10/23/14 14:55**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.7	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-c (1-1.5')	**14-10-2039-178-A**	**10/23/14 15:05**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-b (1-1.5')	**14-10-2039-180-A**	**10/23/14 15:10**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-b (1-1.5')	**14-10-2039-182-A**	**10/23/14 15:15**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-c (1-1.5')	**14-10-2039-184-A**	**10/23/14 15:20**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-b (1-1.5')	**14-10-2039-186-A**	**10/23/14 15:33**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-e (1-1.5')	**14-10-2039-188-A**	**10/23/14 15:45**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.3	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-g (1-1.5')	**14-10-2039-190-A**	**10/23/14 15:55**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-h (1-1.5')	**14-10-2039-192-A**	**10/23/14 16:00**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-i (1-1.5')	**14-10-2039-194-A**	**10/23/14 16:10**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-h (1-1.5')	**14-10-2039-196-A**	**10/23/14 16:15**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-d (1-1.5')	**14-10-2039-198-A**	**10/23/14 16:20**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4964**	**N/A**	**Solid**	**N/A**	**10/28/14**	**10/28/14 16:35**	**E1028MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4965**	**N/A**	**Solid**	**N/A**	**10/28/14**	**10/28/14 17:15**	**E1028MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4966**	**N/A**	**Solid**	**N/A**	**10/28/14**	**10/28/14 18:10**	**E1028MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4967**	**N/A**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:00**	**E1028MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4968**	**N/A**	**Solid**	**N/A**	**10/28/14**	**10/28/14 19:55**	**E1028MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-4958**	**N/A**	**Solid**	**N/A**	**10/29/14**	**10/29/14 19:58**	**E1029MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: TX 1005
Method: TX 1005
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-g (1-1.5')	**14-10-2039-190-A**	**10/23/14 15:55**	**Solid**	**GC 50**	**10/28/14**	**10/28/14 17:43**	**141028B06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	60	5.9	50	4.9	1.01	
TPH Gas/Diesel (C12-C28)	ND	60	5.9	50	4.9	1.01	
TPH Gas/Diesel (C28-C35)	ND	60	5.9	50	4.9	1.01	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	110	70-130	
1-Chlorooctadecane	86	70-130	

Method Blank	**099-15-204-65**	**N/A**	**Solid**	**GC 50**	**10/28/14**	**10/28/14 16:33**	**141028B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	50	4.9	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	50	4.9	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	ND	50	4.9	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	105	70-130	
1-Chlorooctadecane	82	70-130	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141020 DUP-1	**14-10-2039-1-A**	**10/20/14 12:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 04:38**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.64	1.28	0.498	1.00	0.389	1.00	
Cadmium	0.587	1.28	0.153	1.00	0.120	1.00	J
Lead	31.0	1.28	0.175	1.00	0.137	1.00	
Selenium	0.564	1.28	0.338	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141020 DUP-2	**14-10-2039-2-A**	**10/20/14 12:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 04:41**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.45	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.549	1.10	0.132	1.00	0.120	1.00	J
Lead	18.6	1.10	0.151	1.00	0.137	1.00	
Selenium	0.529	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-1	**14-10-2039-5-A**	**10/23/14 12:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 04:45**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.473	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-3	**14-10-2039-7-A**	**10/23/14 12:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 04:48**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	ND	1.19	0.314	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-5	**14-10-2039-9-A**	**10/23/14 12:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 04:51**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.25	1.24	0.482	1.00	0.389	1.00	
Cadmium	0.422	1.24	0.148	1.00	0.120	1.00	J
Lead	15.3	1.24	0.170	1.00	0.137	1.00	
Selenium	0.479	1.24	0.327	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141023 DUP-7	**14-10-2039-11-A**	**10/23/14 12:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 04:55**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.23	0.478	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14I-b	**14-10-2039-13-A**	**10/20/14 13:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:09**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.20	0.469	1.00	0.389	1.00	
Cadmium	0.613	1.20	0.144	1.00	0.120	1.00	J
Lead	21.1	1.20	0.165	1.00	0.137	1.00	
Selenium	0.505	1.20	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14J-b	**14-10-2039-14-A**	**10/20/14 13:25**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:12**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.00	1.19	0.464	1.00	0.389	1.00	
Cadmium	0.697	1.19	0.143	1.00	0.120	1.00	J
Lead	15.8	1.19	0.163	1.00	0.137	1.00	
Selenium	0.461	1.19	0.315	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 3 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14K-b	**14-10-2039-15-A**	**10/20/14 13:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:15**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.4	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.634	1.16	0.139	1.00	0.120	1.00	J
Lead	21.2	1.16	0.159	1.00	0.137	1.00	
Selenium	0.487	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14L-b	**14-10-2039-16-A**	**10/20/14 13:33**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:19**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.2	1.25	0.486	1.00	0.389	1.00	
Cadmium	0.565	1.25	0.150	1.00	0.120	1.00	J
Lead	26.4	1.25	0.171	1.00	0.137	1.00	
Selenium	0.569	1.25	0.330	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14M-b	**14-10-2039-17-A**	**10/20/14 13:37**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:22**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.3	1.23	0.479	1.00	0.389	1.00	
Cadmium	0.628	1.23	0.147	1.00	0.120	1.00	J
Lead	27.8	1.23	0.169	1.00	0.137	1.00	
Selenium	0.460	1.23	0.325	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14N-b	**14-10-2039-18-A**	**10/20/14 13:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:17**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.34	1.26	0.490	1.00	0.389	1.00	
Cadmium	0.627	1.26	0.151	1.00	0.120	1.00	J
Lead	30.5	1.26	0.172	1.00	0.137	1.00	
Selenium	0.842	1.26	0.332	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14N-d	**14-10-2039-19-A**	**10/20/14 13:43**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:26**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.92	1.31	0.511	1.00	0.389	1.00	
Cadmium	0.722	1.31	0.157	1.00	0.120	1.00	J
Lead	40.6	1.31	0.180	1.00	0.137	1.00	
Selenium	0.629	1.31	0.346	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15P-a	**14-10-2039-20-A**	**10/20/14 13:46**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:29**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.01	1.27	0.495	1.00	0.389	1.00	
Cadmium	0.595	1.27	0.152	1.00	0.120	1.00	J
Lead	29.3	1.27	0.174	1.00	0.137	1.00	
Selenium	0.683	1.27	0.335	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 5 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15O-a	**14-10-2039-21-A**	**10/20/14 13:49**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:32**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.09	1.41	0.551	1.00	0.389	1.00	
Cadmium	0.657	1.41	0.170	1.00	0.120	1.00	J
Lead	35.6	1.41	0.194	1.00	0.137	1.00	
Selenium	0.794	1.41	0.373	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15N-a	**14-10-2039-22-A**	**10/20/14 13:56**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:36**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.3	1.29	0.504	1.00	0.389	1.00	
Cadmium	0.581	1.29	0.155	1.00	0.120	1.00	J
Lead	27.3	1.29	0.177	1.00	0.137	1.00	
Selenium	0.518	1.29	0.342	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15M-a	**14-10-2039-23-A**	**10/20/14 14:17**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 05:39**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.5	1.64	0.639	1.00	0.389	1.00	
Cadmium	0.579	1.64	0.197	1.00	0.120	1.00	J
Lead	27.5	1.64	0.225	1.00	0.137	1.00	
Selenium	0.656	1.64	0.433	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15L-a	**14-10-2039-24-A**	**10/20/14 14:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:06**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.3	1.38	0.538	1.00	0.389	1.00	
Cadmium	0.601	1.38	0.166	1.00	0.120	1.00	J
Lead	26.0	1.38	0.189	1.00	0.137	1.00	
Selenium	1.02	1.38	0.365	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15K-a	**14-10-2039-25-A**	**10/20/14 14:24**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:08**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.14	1.20	0.469	1.00	0.389	1.00	
Cadmium	0.663	1.20	0.144	1.00	0.120	1.00	J
Lead	16.4	1.20	0.165	1.00	0.137	1.00	
Selenium	1.02	1.20	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15J-a	**14-10-2039-26-A**	**10/20/14 15:09**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:10**	**141027L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.89	1.10	0.430	1.00	0.389	1.00	
Cadmium	0.495	1.10	0.132	1.00	0.120	1.00	J
Lead	14.3	1.10	0.151	1.00	0.137	1.00	
Selenium	0.795	1.10	0.291	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 7 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15I-b	**14-10-2039-27-A**	**10/20/14 15:14**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:12**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.77	1.23	0.480	1.00	0.389	1.00	
Cadmium	0.614	1.23	0.148	1.00	0.120	1.00	J
Lead	20.3	1.23	0.169	1.00	0.137	1.00	
Selenium	0.453	1.23	0.326	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15J-b	**14-10-2039-28-A**	**10/20/14 15:18**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:15**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.18	1.19	0.463	1.00	0.389	1.00	
Cadmium	0.616	1.19	0.143	1.00	0.120	1.00	J
Lead	28.1	1.19	0.163	1.00	0.137	1.00	
Selenium	0.731	1.19	0.314	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15K-b	**14-10-2039-29-A**	**10/20/14 15:22**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:17**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.20	0.469	1.00	0.389	1.00	
Cadmium	0.567	1.20	0.144	1.00	0.120	1.00	J
Lead	20.6	1.20	0.165	1.00	0.137	1.00	
Selenium	0.544	1.20	0.318	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15L-b	**14-10-2039-30-A**	**10/20/14 15:24**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:19**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.2	1.25	0.486	1.00	0.389	1.00	
Cadmium	0.553	1.25	0.150	1.00	0.120	1.00	J
Lead	26.0	1.25	0.171	1.00	0.137	1.00	
Selenium	0.570	1.25	0.330	1.00	0.264	1.00	J

15M-b	**14-10-2039-31-A**	**10/20/14 15:28**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:21**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.1	1.22	0.473	1.00	0.389	1.00	
Cadmium	0.483	1.22	0.146	1.00	0.120	1.00	J
Lead	27.8	1.22	0.167	1.00	0.137	1.00	
Selenium	0.728	1.22	0.321	1.00	0.264	1.00	J

15N-b	**14-10-2039-32-A**	**10/20/14 15:31**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:23**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.62	1.28	0.497	1.00	0.389	1.00	
Cadmium	0.535	1.28	0.153	1.00	0.120	1.00	J
Lead	30.8	1.28	0.175	1.00	0.137	1.00	
Selenium	0.742	1.28	0.337	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15O-b	**14-10-2039-33-A**	**10/20/14 15:33**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:25**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.35	1.25	0.487	1.00	0.389	1.00	
Cadmium	0.574	1.25	0.150	1.00	0.120	1.00	J
Lead	32.5	1.25	0.172	1.00	0.137	1.00	
Selenium	0.566	1.25	0.330	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15P-b	**14-10-2039-34-A**	**10/20/14 15:35**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:32**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.26	1.25	0.488	1.00	0.389	1.00	
Cadmium	0.614	1.25	0.150	1.00	0.120	1.00	J
Lead	30.8	1.25	0.172	1.00	0.137	1.00	
Selenium	0.763	1.25	0.331	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16Q-a	**14-10-2039-35-A**	**10/20/14 15:46**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:34**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.67	1.67	0.650	1.00	0.389	1.00	
Cadmium	0.547	1.67	0.200	1.00	0.120	1.00	J
Lead	21.0	1.67	0.229	1.00	0.137	1.00	
Selenium	0.854	1.67	0.441	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: Grand Park / 13046.01

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16R-a	**14-10-2039-36-A**	**10/20/14 16:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:36**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.03	1.42	0.555	1.00	0.389	1.00	
Cadmium	0.709	1.42	0.171	1.00	0.120	1.00	J
Lead	26.7	1.42	0.195	1.00	0.137	1.00	
Selenium	0.908	1.42	0.376	1.00	0.264	1.00	J

16P-a	**14-10-2039-37-A**	**10/20/14 16:12**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:38**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.68	1.28	0.497	1.00	0.389	1.00	
Cadmium	0.643	1.28	0.153	1.00	0.120	1.00	J
Lead	26.4	1.28	0.175	1.00	0.137	1.00	
Selenium	0.561	1.28	0.337	1.00	0.264	1.00	J

16O-a	**14-10-2039-38-A**	**10/20/14 16:15**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:40**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.81	1.21	0.471	1.00	0.389	1.00	
Cadmium	0.580	1.21	0.145	1.00	0.120	1.00	J
Lead	23.5	1.21	0.166	1.00	0.137	1.00	
Selenium	0.488	1.21	0.319	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16N-a	**14-10-2039-39-A**	**10/20/14 16:18**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:42**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	15.9	1.48	0.578	1.00	0.389	1.00	
Cadmium	0.840	1.48	0.178	1.00	0.120	1.00	J
Lead	21.9	1.48	0.203	1.00	0.137	1.00	
Selenium	0.694	1.48	0.392	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16M-a	**14-10-2039-40-A**	**10/20/14 16:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:45**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.7	1.23	0.478	1.00	0.389	1.00	
Cadmium	0.602	1.23	0.147	1.00	0.120	1.00	J
Lead	28.2	1.23	0.168	1.00	0.137	1.00	
Selenium	0.564	1.23	0.324	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16L-a	**14-10-2039-41-A**	**10/20/14 16:21**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:47**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.2	1.25	0.488	1.00	0.389	1.00	
Cadmium	0.585	1.25	0.150	1.00	0.120	1.00	J
Lead	25.4	1.25	0.172	1.00	0.137	1.00	
Selenium	0.566	1.25	0.331	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16K-a	**14-10-2039-42-A**	**10/20/14 16:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:20**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.7	1.10	0.428	1.00	0.389	1.00	
Cadmium	0.635	1.10	0.132	1.00	0.120	1.00	J
Lead	19.0	1.10	0.151	1.00	0.137	1.00	
Selenium	0.640	1.10	0.290	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16J-a	**14-10-2039-43-A**	**10/20/14 16:32**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:49**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.92	1.20	0.469	1.00	0.389	1.00	
Cadmium	0.580	1.20	0.144	1.00	0.120	1.00	J
Lead	17.9	1.20	0.165	1.00	0.137	1.00	
Selenium	0.472	1.20	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16H-a (9.5-10.5')	**14-10-2039-45-A**	**10/21/14 09:27**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 06:51**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.19	0.463	1.00	0.389	1.00	
Cadmium	0.565	1.19	0.143	1.00	0.120	1.00	J
Lead	11.7	1.19	0.163	1.00	0.137	1.00	
Selenium	0.697	1.19	0.314	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 13 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16H-a (14.5-15.5')	**14-10-2039-46-A**	**10/21/14 09:35**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:10**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.61	1.29	0.503	1.00	0.389	1.00	
Cadmium	0.230	1.29	0.155	1.00	0.120	1.00	J
Lead	13.4	1.29	0.177	1.00	0.137	1.00	
Selenium	0.617	1.29	0.341	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16G-a (10-11')	**14-10-2039-48-A**	**10/21/14 10:04**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:13**	**141027L08**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.6	1.23	0.477	1.00	0.389	1.00	
Cadmium	0.197	1.23	0.147	1.00	0.120	1.00	J
Lead	18.8	1.23	0.168	1.00	0.137	1.00	
Selenium	0.489	1.23	0.324	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16G-a (16-18')	**14-10-2039-49-A**	**10/21/14 10:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:15**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.14	1.21	0.471	1.00	0.389	1.00	
Cadmium	0.206	1.21	0.145	1.00	0.120	1.00	J
Lead	11.8	1.21	0.166	1.00	0.137	1.00	
Selenium	0.512	1.21	0.320	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15F-c (6-8')	**14-10-2039-51-A**	**10/21/14 11:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:17**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.28	1.10	0.429	1.00	0.389	1.00	
Cadmium	0.445	1.10	0.132	1.00	0.120	1.00	J
Lead	8.84	1.10	0.151	1.00	0.137	1.00	
Selenium	0.302	1.10	0.291	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14G-a (14-16')	**14-10-2039-53-A**	**10/21/14 12:50**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:19**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.0	1.19	0.465	1.00	0.389	1.00	
Cadmium	0.215	1.19	0.143	1.00	0.120	1.00	J
Lead	12.8	1.19	0.164	1.00	0.137	1.00	
Selenium	0.634	1.19	0.315	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14F-a (4-6')	**14-10-2039-55-A**	**10/21/14 13:10**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:21**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.84	1.19	0.462	1.00	0.389	1.00	
Cadmium	0.410	1.19	0.142	1.00	0.120	1.00	J
Lead	14.0	1.19	0.163	1.00	0.137	1.00	
Selenium	1.21	1.19	0.313	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 15 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12G-a (14-16')	**14-10-2039-57-A**	**10/21/14 13:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:23**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.06	1.16	0.453	1.00	0.389	1.00	
Cadmium	0.259	1.16	0.139	1.00	0.120	1.00	J
Lead	11.4	1.16	0.159	1.00	0.137	1.00	
Selenium	0.743	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13G-a (11-14')	**14-10-2039-59-A**	**10/21/14 14:15**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:25**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.20	0.469	1.00	0.389	1.00	
Cadmium	0.234	1.20	0.144	1.00	0.120	1.00	J
Lead	14.4	1.20	0.165	1.00	0.137	1.00	
Selenium	0.617	1.20	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11F-a (P3) (6-8')	**14-10-2039-61-A**	**10/21/14 14:55**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 07:28**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.86	1.19	0.465	1.00	0.389	1.00	
Cadmium	0.198	1.19	0.143	1.00	0.120	1.00	J
Lead	14.3	1.19	0.164	1.00	0.137	1.00	
Selenium	0.375	1.19	0.315	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-a (P3) (12-14')	**14-10-2039-63-A**	**10/21/14 15:25**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:24**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.44	1.24	0.484	1.00	0.389	1.00	
Cadmium	0.216	1.24	0.149	1.00	0.120	1.00	J
Lead	13.0	1.24	0.170	1.00	0.137	1.00	
Selenium	0.590	1.24	0.328	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9G-a (8-10')	**14-10-2039-65-A**	**10/21/14 15:55**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:24**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.82	1.18	0.459	1.00	0.389	1.00	
Cadmium	0.393	1.18	0.141	1.00	0.120	1.00	J
Lead	13.3	1.18	0.162	1.00	0.137	1.00	
Selenium	1.02	1.18	0.311	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8H-a (P3) (10-12')	**14-10-2039-67-A**	**10/21/14 16:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:26**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.24	0.484	1.00	0.389	1.00	
Cadmium	0.205	1.24	0.149	1.00	0.120	1.00	J
Lead	12.2	1.24	0.170	1.00	0.137	1.00	
Selenium	1.28	1.24	0.328	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8J-a (4-6')	**14-10-2039-69-A**	**10/21/14 16:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:28**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.0	1.15	0.450	1.00	0.389	1.00	
Cadmium	0.728	1.15	0.138	1.00	0.120	1.00	J
Lead	20.8	1.15	0.158	1.00	0.137	1.00	
Selenium	0.889	1.15	0.305	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9H-a (12-14')	**14-10-2039-71-A**	**10/21/14 17:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:31**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.5	1.23	0.477	1.00	0.389	1.00	
Cadmium	0.249	1.23	0.147	1.00	0.120	1.00	J
Lead	12.8	1.23	0.168	1.00	0.137	1.00	
Selenium	0.663	1.23	0.324	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16I-a (12-14')	**14-10-2039-73-A**	**10/22/14 09:10**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:33**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	4.98	1.18	0.461	1.00	0.389	1.00	
Cadmium	0.247	1.18	0.142	1.00	0.120	1.00	J
Lead	11.3	1.18	0.162	1.00	0.137	1.00	
Selenium	0.477	1.18	0.312	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15I-a (9-11')	**14-10-2039-75-A**	**10/22/14 09:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:35**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.35	1.21	0.472	1.00	0.389	1.00	
Cadmium	0.189	1.21	0.145	1.00	0.120	1.00	J
Lead	13.1	1.21	0.166	1.00	0.137	1.00	
Selenium	0.436	1.21	0.320	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15H-a (14-16')	**14-10-2039-77-A**	**10/22/14 10:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:37**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.84	1.18	0.457	1.00	0.389	1.00	
Cadmium	0.240	1.18	0.141	1.00	0.120	1.00	J
Lead	12.3	1.18	0.161	1.00	0.137	1.00	
Selenium	1.03	1.18	0.310	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15G-a (12-14')	**14-10-2039-79-A**	**10/22/14 10:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:39**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	4.95	1.20	0.466	1.00	0.389	1.00	
Cadmium	0.234	1.20	0.143	1.00	0.120	1.00	J
Lead	11.4	1.20	0.164	1.00	0.137	1.00	
Selenium	0.895	1.20	0.316	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14H-a (13-14.5')	**14-10-2039-81-A**	**10/22/14 10:55**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:41**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.02	1.24	0.484	1.00	0.389	1.00	
Cadmium	0.307	1.24	0.149	1.00	0.120	1.00	J
Lead	12.0	1.24	0.170	1.00	0.137	1.00	
Selenium	1.11	1.24	0.328	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13H-a (12-15')	**14-10-2039-83-A**	**10/22/14 11:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:50**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.30	1.27	0.493	1.00	0.389	1.00	
Cadmium	0.294	1.27	0.152	1.00	0.120	1.00	J
Lead	11.0	1.27	0.174	1.00	0.137	1.00	
Selenium	0.820	1.27	0.334	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12H-a (12-14')	**14-10-2039-85-A**	**10/22/14 12:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:52**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.95	1.22	0.474	1.00	0.389	1.00	
Cadmium	0.173	1.22	0.146	1.00	0.120	1.00	J
Lead	10.9	1.22	0.167	1.00	0.137	1.00	
Selenium	0.531	1.22	0.322	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: Grand Park / 13046.01

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11G-a (12-13')	**14-10-2039-87-A**	**10/22/14 12:25**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:54**	**141027L10**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.87	1.21	0.470	1.00	0.389	1.00	
Cadmium	0.231	1.21	0.145	1.00	0.120	1.00	J
Lead	12.6	1.21	0.165	1.00	0.137	1.00	
Selenium	0.864	1.21	0.318	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11H-a (6-8')	**14-10-2039-89-A**	**10/22/14 12:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:56**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	16.6	1.10	0.426	1.00	0.389	1.00	
Cadmium	0.635	1.10	0.131	1.00	0.120	1.00	J
Lead	14.3	1.10	0.150	1.00	0.137	1.00	
Selenium	0.474	1.10	0.289	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10G-a (12-14')	**14-10-2039-91-A**	**10/22/14 14:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 18:59**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.80	1.22	0.474	1.00	0.389	1.00	
Cadmium	0.505	1.22	0.146	1.00	0.120	1.00	J
Lead	12.5	1.22	0.167	1.00	0.137	1.00	
Selenium	0.783	1.22	0.321	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10H-a (8-10')	**14-10-2039-93-A**	**10/22/14 14:50**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:01**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.0	1.26	0.489	1.00	0.389	1.00	
Cadmium	0.380	1.26	0.151	1.00	0.120	1.00	J
Lead	21.5	1.26	0.172	1.00	0.137	1.00	
Selenium	1.22	1.26	0.332	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9I-a (12-15')	**14-10-2039-95-A**	**10/22/14 15:15**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:03**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.0	1.22	0.476	1.00	0.389	1.00	
Cadmium	0.200	1.22	0.147	1.00	0.120	1.00	J
Lead	13.6	1.22	0.168	1.00	0.137	1.00	
Selenium	1.10	1.22	0.323	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B2	**14-10-2039-96-A**	**10/22/14 15:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:05**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.80	1.07	0.418	1.00	0.389	1.00	
Cadmium	0.511	1.07	0.129	1.00	0.120	1.00	J
Lead	13.6	1.07	0.147	1.00	0.137	1.00	
Selenium	0.619	1.07	0.283	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B2 (1.5-2')	**14-10-2039-97-A**	**10/22/14 15:35**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:07**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.92	1.16	0.450	1.00	0.389	1.00	
Cadmium	0.400	1.16	0.139	1.00	0.120	1.00	J
Lead	9.11	1.16	0.158	1.00	0.137	1.00	
Selenium	0.413	1.16	0.305	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7M-a (8-11')	**14-10-2039-99-A**	**10/22/14 15:50**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:09**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.9	1.22	0.475	1.00	0.389	1.00	
Cadmium	0.194	1.22	0.146	1.00	0.120	1.00	J
Lead	12.6	1.22	0.167	1.00	0.137	1.00	
Selenium	0.536	1.22	0.322	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7L-a (4-6')	**14-10-2039-101-A**	**10/22/14 16:05**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:27**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.8	1.13	0.441	1.00	0.389	1.00	
Cadmium	0.659	1.13	0.136	1.00	0.120	1.00	J
Lead	13.2	1.13	0.155	1.00	0.137	1.00	
Selenium	0.685	1.13	0.299	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 23 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B3	**14-10-2039-102-A**	**10/23/14 08:27**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:35**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.50	1.15	0.448	1.00	0.389	1.00	
Cadmium	0.586	1.15	0.138	1.00	0.120	1.00	J
Lead	19.9	1.15	0.158	1.00	0.137	1.00	
Selenium	0.675	1.15	0.304	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B3 (1.5-2')	**14-10-2039-103-A**	**10/23/14 08:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:37**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.05	1.16	0.452	1.00	0.389	1.00	
Cadmium	0.707	1.16	0.139	1.00	0.120	1.00	J
Lead	11.9	1.16	0.159	1.00	0.137	1.00	
Selenium	0.457	1.16	0.306	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B1	**14-10-2039-104-A**	**10/23/14 08:50**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:39**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.25	1.23	0.478	1.00	0.389	1.00	
Cadmium	0.448	1.23	0.147	1.00	0.120	1.00	J
Lead	19.8	1.23	0.168	1.00	0.137	1.00	
Selenium	0.338	1.23	0.324	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WL-B1 (1.5-2')	**14-10-2039-105-A**	**10/23/14 08:55**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:42**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.7	1.18	0.459	1.00	0.389	1.00	
Cadmium	0.284	1.18	0.141	1.00	0.120	1.00	J
Lead	8.31	1.18	0.161	1.00	0.137	1.00	
Selenium	0.489	1.18	0.311	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-a (1-1.5')	**14-10-2039-106-A**	**10/23/14 09:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:44**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.347	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1G-i (1-1.5')	**14-10-2039-108-A**	**10/23/14 09:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:46**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.345	1.18	0.310	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1F-i (1-1.5')	**14-10-2039-110-A**	**10/23/14 09:46**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:48**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.313	1.16	0.307	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1E-i (1-1.5')	**14-10-2039-112-A**	**10/23/14 09:52**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:50**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.366	1.15	0.302	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-i (1-1.5')	**14-10-2039-114-A**	**10/23/14 10:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 19:52**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.468	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1D-d (1-1.5')	**14-10-2039-116-A**	**10/23/14 10:08**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:01**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.544	1.23	0.324	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-e (1-1.5')	**14-10-2039-118-A**	**10/23/14 10:15**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:03**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.451	1.29	0.341	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1C-d (1-1.5')	**14-10-2039-120-A**	**10/23/14 10:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:05**	**141027L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.449	1.21	0.320	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
1B-e (1-1.5')	**14-10-2039-122-A**	**10/23/14 10:25**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:07**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	ND	1.25	0.330	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2C-f (1-1.5')	**14-10-2039-124-A**	**10/23/14 10:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:10**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.32	1.27	0.494	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3B-a (1-1.5')	**14-10-2039-126-A**	**10/23/14 10:42**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:12**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.93	1.21	0.472	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3C-c (1-1.5')	**14-10-2039-128-A**	**10/23/14 10:50**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:14**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.442	1.20	0.317	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-a (1-1.5')	**14-10-2039-130-A**	**10/23/14 10:54**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:16**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.485	1.23	0.324	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2E-g (1-1.5')	**14-10-2039-132-A**	**10/23/14 11:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:18**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.609	1.20	0.316	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2F-h (1-1.5')	**14-10-2039-134-A**	**10/23/14 11:12**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:20**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.511	1.19	0.314	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-g (1-1.5')	**14-10-2039-136-A**	**10/23/14 11:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:44**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.417	1.19	0.314	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
2G-i (1-1.5')	**14-10-2039-138-A**	**10/23/14 11:25**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:31**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.45	1.17	0.454	1.00	0.389	1.00	
Selenium	0.738	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3G-g (1-1.5')	**14-10-2039-140-A**	**10/23/14 11:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:46**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.368	1.17	0.308	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
4F-d (1-1.5')	**14-10-2039-142-A**	**10/23/14 11:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:48**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.443	1.19	0.315	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
3D-g (1-1.5')	**14-10-2039-144-A**	**10/23/14 11:45**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:50**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.3	1.20	0.165	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5B-i (1-1.5')	**14-10-2039-146-A**	**10/23/14 13:10**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:53**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.414	1.20	0.316	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-c (1-1.5')	**14-10-2039-148-A**	**10/23/14 13:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:55**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.530	1.24	0.328	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-c (1-1.5')	**14-10-2039-150-A**	**10/23/14 13:25**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:57**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.712	1.18	0.311	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-b (1-1.5')	**14-10-2039-152-A**	**10/23/14 13:33**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 20:59**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.465	1.19	0.315	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 29 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5E-e (1-1.5')	**14-10-2039-154-A**	**10/23/14 13:40**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:01**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	15.2	1.18	0.162	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-a (1-1.5')	**14-10-2039-156-A**	**10/23/14 13:45**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:03**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.433	1.26	0.332	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
5G-h (1-1.5')	**14-10-2039-158-A**	**10/23/14 13:52**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:12**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.375	1.16	0.306	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-c (1-1.5')	**14-10-2039-160-A**	**10/23/14 14:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:14**	**141027L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.26	1.18	0.460	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-e (1-1.5')	**14-10-2039-162-A**	**10/23/14 14:07**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:16**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	14.5	1.15	0.158	1.00	0.137	1.00	
Selenium	0.542	1.15	0.305	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6G-d (1-1.5')	**14-10-2039-164-A**	**10/23/14 14:15**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:18**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.7	1.19	0.163	1.00	0.137	1.00	
Selenium	0.349	1.19	0.313	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6F-f (1-1.5')	**14-10-2039-166-A**	**10/23/14 14:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:21**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	14.7	1.19	0.163	1.00	0.137	1.00	
Selenium	0.539	1.19	0.313	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-i (1-1.5')	**14-10-2039-168-A**	**10/23/14 14:30**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:23**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	ND	1.21	0.320	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6E-h (1-1.5')	**14-10-2039-170-A**	**10/23/14 14:37**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:25**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	15.8	1.25	0.172	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6D-h (1-1.5')	**14-10-2039-172-A**	**10/23/14 14:42**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:27**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.561	1.20	0.316	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: Grand Park / 13046.01

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6C-h (1-1.5')	**14-10-2039-174-A**	**10/23/14 14:48**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:29**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.487	1.23	0.324	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
6B-h (1-1.5')	**14-10-2039-176-A**	**10/23/14 14:55**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:31**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.504	1.22	0.321	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-c (1-1.5')	**14-10-2039-178-A**	**10/23/14 15:05**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:55**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.527	1.23	0.325	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-b (1-1.5')	**14-10-2039-180-A**	**10/23/14 15:10**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:57**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.513	1.15	0.304	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-b (1-1.5')	**14-10-2039-182-A**	**10/23/14 15:15**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 21:59**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.457	1.19	0.315	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-c (1-1.5')	**14-10-2039-184-A**	**10/23/14 15:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 22:02**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.83	1.23	0.481	1.00	0.389	1.00	
Cadmium	0.434	1.23	0.148	1.00	0.120	1.00	J
Lead	14.9	1.23	0.169	1.00	0.137	1.00	
Selenium	0.595	1.23	0.326	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-b (1-1.5')	**14-10-2039-186-A**	**10/23/14 15:33**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 22:04**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.676	1.21	0.320	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7G-e (1-1.5')	**14-10-2039-188-A**	**10/23/14 15:45**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:34**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	10.4	1.13	0.155	1.00	0.137	1.00	
Selenium	0.396	1.13	0.298	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-g (1-1.5')	**14-10-2039-190-A**	**10/23/14 15:55**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 22:06**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.620	1.19	0.315	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7D-h (1-1.5')	**14-10-2039-192-A**	**10/23/14 16:00**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 22:08**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.753	1.17	0.309	1.00	0.264	1.00	J

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 33 of 34

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7C-i (1-1.5')	**14-10-2039-194-A**	**10/23/14 16:10**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 22:10**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.635	1.22	0.322	1.00	0.264	1.00	J

7B-h (1-1.5')	**14-10-2039-196-A**	**10/23/14 16:15**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 22:12**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.616	1.19	0.315	1.00	0.264	1.00	J

7B-d (1-1.5')	**14-10-2039-198-A**	**10/23/14 16:20**	**Solid**	**ICP/MS 04**	**10/27/14**	**11/01/14 22:14**	**141027L13**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.36	1.23	0.481	1.00	0.389	1.00	

Method Blank	**099-15-621-731**	**N/A**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 02:31**	**141027L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Method Blank	**099-15-621-730**	**N/A**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 02:34**	**141027L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-732**	**N/A**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 02:37**	**141027L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-733**	**N/A**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 02:41**	**141027L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-734**	**N/A**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 02:44**	**141027L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-735**	**N/A**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 02:48**	**141027L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7E-g (1-1.5')	**14-10-2039-190-A**	**10/23/14 15:55**	**Solid**	**GC/MS BB**	**10/27/14**	**10/30/14 22:35**	**141030L007**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	6.0	0.16	5.0	0.13	1.00	
Ethylbenzene	ND	6.0	0.18	5.0	0.15	1.00	
Toluene	ND	6.0	0.62	5.0	0.52	1.00	
p/m-Xylene	ND	6.0	0.32	5.0	0.27	1.00	
o-Xylene	ND	6.0	0.67	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-132	
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	115	62-146	
Toluene-d8	96	80-120	

Method Blank	099-12-796-9026	N/A	Solid	GC/MS BB	10/30/14	10/30/14 13:34	141030L007

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Benzene	ND	5.0	0.13	5.0	0.13	1.00	
Ethylbenzene	ND	5.0	0.15	5.0	0.15	1.00	
Toluene	ND	5.0	0.52	5.0	0.52	1.00	
p/m-Xylene	ND	5.0	0.27	5.0	0.27	1.00	
o-Xylene	ND	5.0	0.56	5.0	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	60-132	
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	118	62-146	
Toluene-d8	97	80-120	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	TX 1005
		Method:	TX 1005
Project: Grand Park / 13046.01			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
7E-g (1-1.5')	**Sample**	**Solid**	**GC 50**	**10/28/14**	**10/28/14 17:43**	**141028S06**
7E-g (1-1.5')	**Matrix Spike**	**Solid**	**GC 50**	**10/28/14**	**10/28/14 17:08**	**141028S06**
7E-g (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**10/28/14**	**10/28/14 17:25**	**141028S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH Gas/Diesel (C6-C35) Total	ND	400.0	416.6	104	407.6	102	75-125	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16K-a	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:20**	**141027S08**
16K-a	**Matrix Spike**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:32**	**141027S08**
16K-a	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 04:24**	**141027S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	10.61	25.00	31.59	84	33.18	90	72-132	5	0-13	
Cadmium	ND	25.00	27.53	110	26.31	105	85-121	5	0-12	
Lead	17.26	25.00	44.56	109	44.59	109	62-134	0	0-23	
Selenium	ND	25.00	24.04	96	23.83	95	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14N-b	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:17**	**141027S09**
14N-b	**Matrix Spike**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:22**	**141027S09**
14N-b	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:25**	**141027S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.628	25.00	26.76	81	27.72	84	72-132	4	0-13	
Cadmium	ND	25.00	27.54	110	27.85	111	85-121	1	0-12	
Lead	24.23	25.00	50.14	104	49.39	101	62-134	1	0-23	
Selenium	ND	25.00	23.11	92	23.24	93	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
8G-a (P3) (12-14')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:24**	**141027S10**
8G-a (P3) (12-14')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 04:31**	**141027S10**
8G-a (P3) (12-14')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 04:34**	**141027S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.186	25.00	27.78	90	28.31	93	72-132	2	0-13	
Cadmium	ND	25.00	26.37	105	27.14	109	85-121	3	0-12	
Lead	10.45	25.00	35.03	98	34.57	96	62-134	1	0-23	
Selenium	ND	25.00	23.42	94	24.84	99	54-132	6	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
7L-a (4-6')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:27**	**141027S11**
7L-a (4-6')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 04:41**	**141027S11**
7L-a (4-6')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 04:44**	**141027S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	10.37	25.00	32.95	90	33.92	94	72-132	3	0-13	
Cadmium	ND	25.00	26.19	105	26.71	107	85-121	2	0-12	
Lead	11.60	25.00	36.44	99	37.31	103	62-134	2	0-23	
Selenium	ND	25.00	24.15	97	24.30	97	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
2G-i (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:31**	**141027S12**
2G-i (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 05:01**	**141027S12**
2G-i (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 05:05**	**141027S12**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	4.677	25.00	26.42	87	27.20	90	72-132	3	0-13	
Lead	11.32	25.00	34.52	93	36.21	100	62-134	5	0-23	
Selenium	ND	25.00	22.28	89	23.58	94	54-132	6	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
7G-e (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 06:34**	**141027S13**
7G-e (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 05:12**	**141027S13**
7G-e (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 05:15**	**141027S13**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.815	25.00	31.91	92	30.63	87	72-132	4	0-13	
Cadmium	ND	25.00	26.58	106	25.63	103	85-121	4	0-12	
Lead	9.189	25.00	34.81	102	33.60	98	62-134	4	0-23	
Selenium	ND	25.00	24.30	97	22.35	89	54-132	8	0-14	

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 5030C
		Method:	EPA 8260B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-10-2324-1	**Sample**	**Solid**	**GC/MS BB**	**10/29/14**	**10/30/14 14:28**	**141030S019**
14-10-2324-1	**Matrix Spike**	**Solid**	**GC/MS BB**	**10/29/14**	**10/30/14 14:55**	**141030S019**
14-10-2324-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS BB**	**10/29/14**	**10/30/14 15:22**	**141030S019**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.95	94	45.86	92	61-127	2	0-20	
Ethylbenzene	ND	50.00	51.04	102	51.01	102	57-129	0	0-22	
Toluene	ND	50.00	49.86	100	49.30	99	63-123	1	0-20	
p/m-Xylene	ND	100.0	108.6	109	107.7	108	70-130	1	0-30	
o-Xylene	ND	50.00	53.26	107	52.73	105	70-130	1	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
16K-a	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 06:20**	**141027S08**
16K-a	**PDS**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 04:27**	**141027S08**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	10.61	25.00	34.94	97	75-125	
Cadmium	ND	25.00	25.88	104	75-125	
Lead	17.26	25.00	42.12	99	75-125	
Selenium	ND	25.00	24.84	99	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14N-b	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 06:17**	**141027S09**
14N-b	**PDS**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 03:29**	**141027S09**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.628	25.00	30.31	95	75-125	
Cadmium	ND	25.00	26.65	107	75-125	
Lead	24.23	25.00	50.18	104	75-125	
Selenium	ND	25.00	25.10	100	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
8G-a (P3) (12-14')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 06:24**	**141027S10**
8G-a (P3) (12-14')	**PDS**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 04:37**	**141027S10**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.186	25.00	29.69	98	75-125	
Cadmium	ND	25.00	26.25	105	75-125	
Lead	10.45	25.00	33.94	94	75-125	
Selenium	ND	25.00	25.96	104	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
7L-a (4-6')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 06:27**	**141027S11**
7L-a (4-6')	**PDS**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 04:58**	**141027S11**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	10.37	25.00	34.39	96	75-125	
Cadmium	ND	25.00	25.15	101	75-125	
Lead	11.60	25.00	35.80	97	75-125	
Selenium	ND	25.00	24.57	98	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
2G-i (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 06:31**	**141027S12**
2G-i (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 05:08**	**141027S12**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	4.677	25.00	28.29	94	75-125	
Lead	11.32	25.00	35.83	98	75-125	
Selenium	ND	25.00	24.29	97	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 10/25/14
Work Order: 14-10-2039
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
7G-e (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 06:34**	**141027S13**
7G-e (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**10/27/14 00:00**	**10/31/14 05:19**	**141027S13**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.815	25.00	32.22	94	75-125	
Cadmium	ND	25.00	24.93	100	75-125	
Lead	9.189	25.00	33.34	97	75-125	
Selenium	ND	25.00	24.58	98	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
141020 DUP-1	**Sample**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 16:35**	**E1028MOID2**
141020 DUP-1	**Sample Duplicate**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 16:35**	**E1028MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	21.80	22.60	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15l-b	**Sample**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 17:15**	**E1028MOID3**
15l-b	**Sample Duplicate**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 17:15**	**E1028MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	18.90	18.10	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
16G-a (16-18')	**Sample**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 18:10**	**E1028MOID4**
16G-a (16-18')	**Sample Duplicate**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 18:10**	**E1028MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	17.40	17.70	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
11H-a (6-8')	**Sample**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 19:00**	**E1028MOID5**
11H-a (6-8')	**Sample Duplicate**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 19:00**	**E1028MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	8.700	9.500	9	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
1B-e (1-1.5')	**Sample**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 19:55**	**E1028MOID6**
1B-e (1-1.5')	**Sample Duplicate**	**Solid**	**N/A**	**10/28/14 00:00**	**10/28/14 19:55**	**E1028MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	20.00	20.20	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
6G-e (1-1.5')	**Sample**	**Solid**	**N/A**	**10/29/14 00:00**	**10/29/14 19:58**	**E1029MOID1**
6G-e (1-1.5')	**Sample Duplicate**	**Solid**	**N/A**	**10/29/14 00:00**	**10/29/14 19:58**	**E1029MOID1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	13.40	13.90	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	TX 1005
		Method:	TX 1005
Project: Grand Park / 13046.01			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-204-65	**LCS**	**Solid**	**GC 50**	**10/28/14**	**10/28/14 16:51**	**141028B06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH Gas/Diesel (C6-C35) Total	400.0	474.0	118	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-731	**LCS**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 02:51**	**141027L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	24.90	100	80-120	
Cadmium	25.00	27.10	108	80-120	
Lead	25.00	25.81	103	80-120	
Selenium	25.00	25.71	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-730	**LCS**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:05**	**141027L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.17	105	80-120	
Cadmium	25.00	28.03	112	80-120	
Lead	25.00	25.98	104	80-120	
Selenium	25.00	27.18	109	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-732	**LCS**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:08**	**141027L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.67	107	80-120	
Cadmium	25.00	27.85	111	80-120	
Lead	25.00	26.24	105	80-120	
Selenium	25.00	27.20	109	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-733	**LCS**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:12**	**141027L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.76	107	80-120	
Cadmium	25.00	28.00	112	80-120	
Lead	25.00	26.33	105	80-120	
Selenium	25.00	27.07	108	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-734	**LCS**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:15**	**141027L12**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.05	104	80-120	
Lead	25.00	26.13	105	80-120	
Selenium	25.00	27.50	110	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-735	**LCS**	**Solid**	**ICP/MS 04**	**10/27/14**	**10/31/14 03:19**	**141027L13**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.00	108	80-120	
Cadmium	25.00	28.40	114	80-120	
Lead	25.00	26.93	108	80-120	
Selenium	25.00	28.12	112	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	10/25/14
812 West 11th Street		Work Order:	14-10-2039
Austin, TX 78701-2053		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Grand Park / 13046.01			Page 8 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-9026	**LCS**	**Solid**	**GC/MS BB**	**10/30/14**	**10/30/14 12:39**	**141030L007**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Benzene	50.00	49.32	99	78-120	
Ethylbenzene	50.00	51.99	104	76-120	
Toluene	50.00	50.75	102	77-120	
p/m-Xylene	100.0	108.6	109	75-125	
o-Xylene	50.00	53.53	107	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-10-2039 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	722	N/A	1
EPA 6020	EPA 3050B	598	ICP/MS 04	1
EPA 8260B	EPA 5030C	799	GC/MS BB	2
TX 1005	TX 1005	628	GC 50	1

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Glossary of Terms and Qualifiers

Work Order: 14-10-2039 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Donald Burley

From: Ashley, Kevin <Kevin.Ashley@cook-joyce.com>
Sent: Monday, October 27, 2014 9:24 AM
To: Donald Burley; Varnell, Richard
Cc: Lonseth, Kevin
Subject: RE: Grand Park / 13046.01 - 14-10-2039 - Sample Receipt Confirmation & COC Document

This is a mistake in the COC. The sample is 16J-a collected 10/20/14 @ 16:32.

Thanks,
Kevin Ashley

From: Donald Burley [mailto:DonaldBurley@eurofinsUS.com]
Sent: Monday, October 27, 2014 10:57 AM
To: Varnell, Richard
Cc: Lonseth, Kevin; Ashley, Kevin
Subject: Grand Park / 13046.01 - 14-10-2039 - Sample Receipt Confirmation & COC Document

Richard,

Sample receipt confirmation is attached. There is one anomaly:

Sample #43 listed on COC is 16j-b; collected 10/20/14 @ 1630
Sample received is 16j-a; collected 10/20/14 @ 1632

Sample is on hold pending confirmation or further direction. Thanks.

Don

Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
USA
Phone: +1 714 895 5494

Email: DonaldBurley@eurofinsUS.com
Website: www.calscience.com

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CHAIN–OF–CUSTODY FORM

COOK–JOYCE, INC.
812 W. 11th ST.
AUSTIN, TEXAS 78701
(512)474–9097

1 of 1

14-10-2039

COMPANY NAME: Cook-Joyce, Inc.

PROJECT NO.: 130416.01

PROJECT NAME: Grand Park

SAMPLERS: (SIGNATURE) Richard Tuell

	DATE	TIME	SAMPLE I.D.	NUMBER OF CONTAINERS	Total Arsenic	Total Cadmium	Total Lead	Total Selenium	REMARKS
1	10/20/14	1200	141020 DUP-1	1	X	X	X	X	
2	↓	1200	141020 DUP-2	↓	X	X	X	X	
3	10/21/14	1200	141021 DUP-1						HOLD
4	10/22/14	1200	141022 DUP-1						HOLD
5	10/23/14	1200	141023 DUP-1				X		
6	↓	↓	141023 DUP-2						HOLD
7			DUP-3				X		
8			DUP-4						HOLD
9			DUP-5		X	X	X	X	
10			DUP-6						HOLD
11	↓	↓	DUP-7	↓	X				

RELINQUISHED BY:	COMPANY:	DATE	TIME	RECEIVED BY:	COMPANY:	DATE	TIME
Richard Tuell	Cook-Joyce, Inc.	11/24/14	1430				
RELINQUISHED BY:	COMPANY:	DATE	TIME	RECEIVED BY:	COMPANY:	DATE	TIME

METHOD OF SHIPMENT	SHIPPED BY:	COURIER:	RECEIVED FOR LAB BY:	DATE/TIME
			ECI	11/25/14 0940

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CHAIN–OF–CUSTODY FORM

COOK–JOYCE, INC.
812 W. 11th ST.
AUSTIN, TEXAS 78701
(512)474–9097

2039

COMPANY NAME: SEE PAGE 1

PROJECT NO. | PROJECT NAME

SAMPLERS: (SIGNATURE)

DATE	TIME	SAMPLE I.D.	NUMBER OF CONTAINERS	Total Arsenic	Total Cadmium	Total Lead	Total Selenium	REMARKS
12 10/23/14	1200	141023DUP-8	1					HOLD

RELINQUISHED BY:	COMPANY:	DATE	TIME	RECEIVED BY:	COMPANY:	DATE	TIME
RELINQUISHED BY:	COMPANY:	DATE	TIME	RECEIVED BY:	COMPANY:	DATE	TIME

METHOD OF SHIPMENT	SHIPPED BY:	COURIER:	RECEIVED FOR LAB BY:	DATE/TIME
			EGI	10/25/14 0940

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CJI Supplemental Chain of Custody Form

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
13		14I-b	10/20/14	1320	Soil	1	4° C	X	X	X	X							
14		14J-b	10/20/14	1325	Soil	1	4° C	X	X	X	X							
15		14K-b	10/20/14	1330	Soil	1	4° C	X	X	X	X							
16		14L-b	10/20/14	1333	Soil	1	4° C	X	X	X	X							
17		14M-b	10/20/14	1337	Soil	1	4° C	X	X	X	X							
18		14N-b	10/20/14	1340	Soil	1	4° C	X	X	X	X							
19		14N-d	10/20/14	1343	Soil	1	4° C	X	X	X	X							
20		15P-a	10/20/14	1346	Soil	1	4° C	X	X	X	X							
21		15O-a	10/20/14	1349	Soil	1	4° C	X	X	X	X							
22		15N-a	10/20/14	1356	Soil	1	4° C	X	X	X	X							
23		15M-a	10/20/14	1417	Soil	1	4° C	X	X	X	X							
24		15L-a	10/20/14	1420	Soil	1	4° C	X	X	X	X							
25		15K-a	10/20/14	1424	Soil	1	4° C	X	X	X	X							
26		15J-a	10/20/14	1509	Soil	1	4° C	X	X	X	X							
27		15I-b	10/20/14	1514	Soil	1	4° C	X	X	X	X							
28		15J-b	10/20/14	1518	Soil	1	4° C	X	X	X	X							
29		15K-b	10/20/14	1522	Soil	1	4° C	X	X	X	X							
30		15L-b	10/20/14	1524	Soil	1	4° C	X	X	X	X							
31		15M-b	10/20/14	1528	Soil	1	4° C	X	X	X	X							
32		15N-b	10/20/14	1531	Soil	1	4° C	X	X	X	X							
33		15O-b	10/20/14	1533	Soil	1	4° C	X	X	X	X							
34		15P-b	10/20/14	1535	Soil	1	4° C	X	X	X	X							
35		16Q-a	10/20/14	1546	Soil	1	4° C	X	X	X	X							
36		16R-a	10/20/14	1600	Soil	1	4° C	X	X	X	X							
37		16P-a	10/20/14	1612	Soil	1	4° C	X	X	X	X							
38		16O-a	10/20/14	1615	Soil	1	4° C	X	X	X	X							
39		16N-a	10/20/14	1618	Soil	1	4° C	X	X	X	X							
40		16M-a	10/20/14	1620	Soil	1	4° C	X	X	X	X							
41		16L-a	10/20/14	1621	Soil	1	4° C	X	X	X	X							
42		16K-a	10/20/14	1630	Soil	1	4° C	X	X	X	X							
43		16J-b	10/20/14	1630	Soil	1	4° C	X	X	X	X							
44		16H-a (1.5-2')	10/21/14	917	Soil	1	4° C											HOLD
45		16H-a (9.5-10.5')	10/21/14	927	Soil	1	4° C	X	X	X	X							
46		16H-a (14.5-15.5')	10/21/14	935	Soil	1	4° C	X	X	X	X							
47		16G-a (1.5-2')	10/21/14	955	Soil	1	4° C											HOLD
48		16G-a (10-11')	10/21/14	1004	Soil	1	4° C	X	X	X	X							
49		16G-a (16-18')	10/21/14	1030	Soil	1	4° C	X	X	X	X							
50		15F-c (1.5-2')	10/21/14	1053	Soil	1	4° C											HOLD

Richard Lovell

Signature

CJI Supplemental Chain of Custody Form

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
51		15F-c (6-8')	10/21/14	1100	Soil	1	4° C	X	X	X	X							
52		14G-a (1.5-2')	10/21/14	1230	Soil	1	4° C											HOLD
53		14G-a (14-16')	10/21/14	1250	Soil	1	4° C	X	X	X	X							
54		14F-a (1.5-2')	10/21/14	1300	Soil	1	4° C											HOLD
55		14F-a (4-6')	10/21/14	1310	Soil	1	4° C	X	X	X	X							
56		12G-a (1.5-2')	10/21/14	1320	Soil	1	4° C											HOLD
57		12G-a (14-16')	10/21/14	1340	Soil	1	4° C	X	X	X	X							
58		13G-a (1.5-2')	10/21/14	1400	Soil	1	4° C											HOLD
59		13G-a (12-14')	10/21/14	1415	Soil	1	4° C	X	X	X	X							
60		11F-a (P3) (1.5-2')	10/21/14	1450	Soil	1	4° C											HOLD
61		11F-a (P3) (6-8')	10/21/14	1455	Soil	1	4° C	X	X	X	X							
62		8G-a (P3) (1.5-2')	10/21/14	1515	Soil	1	4° C											HOLD
63		8G-a (P3) (12-14')	10/21/14	1525	Soil	1	4° C	X	X	X	X							
64		9G-a (1.5-2')	10/21/14	1550	Soil	1	4° C											HOLD
65		9G-a (8-10')	10/21/14	1555	Soil	1	4° C	X	X	X	X							
66		8H-a (P3) (1.5-2')	10/21/14	1606	Soil	1	4° C											HOLD
67		8H-a (P3) (10-12')	10/21/14	1620	Soil	1	4° C	X	X	X	X							
68		8J-a (1.5-2')	10/21/14	1630	Soil	1	4° C											HOLD
69		8J-a (4-6')	10/21/14	1640	Soil	1	4° C	X	X	X	X							
70		9H-a (1.5-2')	10/21/14	1650	Soil	1	4° C											HOLD
71		9H-a (12-14')	10/21/14	1700	Soil	1	4° C	X	X	X	X							
72		16I-a (1.5-2')	10/22/14	900	Soil	1	4° C											HOLD
73		16I-a (12-14')	10/22/14	910	Soil	1	4° C	X	X	X	X							
74		15I-a (1.5-2')	10/22/14	930	Soil	1	4° C											HOLD
75		15I-a (9-11')	10/22/14	940	Soil	1	4° C	X	X	X	X							
76		15H-a (1.5-2')	10/22/14	955	Soil	1	4° C											HOLD
77		15H-a (14-16')	10/22/14	1000	Soil	1	4° C	X	X	X	X							
78		15G-a (1.5-2')	10/22/14	1015	Soil	1	4° C											HOLD
79		15G-a (12-14')	10/22/14	1030	Soil	1	4° C	X	X	X	X							
80		14H-a (1.5-2')	10/22/14	1040	Soil	1	4° C											HOLD
81		14H-a (13-14.5)	10/22/14	1055	Soil	1	4° C	X	X	X	X							
82		13H-a (1.5-2')	10/22/14	1120	Soil	1	4° C											HOLD
83		13H-a (12-15')	10/22/14	1130	Soil	1	4° C	X	X	X	X							
84		12H-a (1.5-2')	10/22/14	1140	Soil	1	4° C											HOLD
85		12H-a (12-14')	10/22/14	1200	Soil	1	4° C	X	X	X	X							
86		11G-a (1.5-2')	10/22/14	1215	Soil	1	4° C											HOLD
87		11G-a (12-13')	10/22/14	1225	Soil	1	4° C	X	X	X	X							
88		11H-a (1.5-2')	10/22/14	1235	Soil	1	4° C											HOLD

Richard Lovell

Signature

CJI Supplemental Chain of Custody Form

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
89		11H-a (6-8')	10/22/14	1240	Soil	1	4° C	X	X	X	X							
90		10G-a (1.5-2')	10/22/14	1415	Soil	1	4° C											HOLD
91		10G-a (12-14')	10/22/14	1430	Soil	1	4° C	X	X	X	X							
92		10H-a (1.5-2')	10/22/14	1440	Soil	1	4° C											HOLD
93		10H-a (8-10')	10/22/14	1450	Soil	1	4° C	X	X	X	X							
94		9I-a (1.5-2')	10/22/14	1500	Soil	1	4° C											HOLD
95		9I-a (12-15')	10/22/14	1515	Soil	1	4° C	X	X	X	X							
96		WL-B2	10/22/14	1530	Soil	1	4° C	X	X	X	X							
97		WL-B2 (1.5-2')	10/22/14	1535	Soil	1	4° C	X	X	X	X							
98		7M-a (1.5-2')	10/22/14	1545	Soil	1	4° C											HOLD
99		7M-a (8-11')	10/22/14	1550	Soil	1	4° C	X	X	X	X							
100		7L-a (1.5-2')	10/22/14	1600	Soil	1	4° C											HOLD
101		7L-a (4-6')	10/22/14	1605	Soil	1	4° C	X	X	X	X							
102		WL-B3	10/23/14	827	Soil	1	4° C	X	X	X	X							
103		WL-B3 (1.5-2')	10/23/14	840	Soil	1	4° C	X	X	X	X							
104		WL-B1	10/23/14	850	Soil	1	4° C	X	X	X	X							
105		WL-B1 (1.5-2')	10/23/14	855	Soil	1	4° C	X	X	X	X							
106		1E-a (1-1.5')	10/23/14	930	Soil	1	4° C				X							
107		1E-a (1.5-2')	10/23/14	933	Soil	1	4° C											HOLD
108		1G-i (1-1.5')	10/23/14	940	Soil	1	4° C				X							
109		1G-i (1.5-2')	10/23/14	943	Soil	1	4° C											HOLD
110		1F-i (1-1.5')	10/23/14	946	Soil	1	4° C				X							
111		1F-i (1.5-2')	10/23/14	949	Soil	1	4° C											HOLD
112		1E-i (1-1.5')	10/23/14	952	Soil	1	4° C				X							
113		1E-i (1.5-2')	10/23/14	955	Soil	1	4° C											HOLD
114		1D-i (1-1.5')	10/23/14	1000	Soil	1	4° C				X							
115		1D-i (1.5-2')	10/23/14	1003	Soil	1	4° C											HOLD
116		1D-d (1-1.5')	10/23/14	1008	Soil	1	4° C				X							
117		1D-d (1.5-2')	10/23/14	1010	Soil	1	4° C											HOLD
118		1C-e (1-1.5')	10/23/14	1015	Soil	1	4° C				X							
119		1C-e (1.5-2')	10/23/14	1018	Soil	1	4° C											HOLD
120		1C-d (1-1.5')	10/23/14	1020	Soil	1	4° C				X							
121		1C-d (1.5-2')	10/23/14	1023	Soil	1	4° C											HOLD
122		1B-e (1-1.5')	10/23/14	1025	Soil	1	4° C				X							
123		1B-e (1.5-2')	10/23/14	1027	Soil	1	4° C											HOLD
124		2C-f (1-1.5')	10/23/14	1030	Soil	1	4° C	X										
125		2C-f (1.5-2')	10/23/14	1032	Soil	1	4° C											HOLD
126		3B-a (1-1.5')	10/23/14	1042	Soil	1	4° C	X										

Richard Lovell

Signature

CJI Supplemental Chain of Custody Form

2039

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
127		3B-a (1.5-2')	10/23/14	1044	Soil	1	4° C											HOLD
128		3C-c (1-1.5')	10/23/14	1050	Soil	1	4° C				X							
129		3C-c (1.5-2')	10/23/14	1052	Soil	1	4° C											HOLD
130		3D-a (1-1.5')	10/23/14	1054	Soil	1	4° C				X							
131		3D-a (1.5-2')	10/23/14	1056	Soil	1	4° C											HOLD
132		2E-g (1-1.5')	10/23/14	1100	Soil	1	4° C				X							
133		2E-g (1.5-2')	10/23/14	1102	Soil	1	4° C											HOLD
134		2F-h (1-1.5')	10/23/14	1112	Soil	1	4° C				X							
135		2F-h (1.5-2')	10/23/14	1114	Soil	1	4° C											HOLD
136		2G-g (1-1.5')	10/23/14	1120	Soil	1	4° C				X							
137		2G-g (1.5-2')	10/23/14	1122	Soil	1	4° C											HOLD
138		2G-i (1-1.5')	10/23/14	1125	Soil	1	4° C	X			X							
139		2G-i (1.5-2')	10/23/14	1127	Soil	1	4° C											HOLD
140		3G-g (1-1.5')	10/23/14	1130	Soil	1	4° C				X							
141		3G-g (1.5-2')	10/23/14	1133	Soil	1	4° C											HOLD
142		4F-d (1-1.5')	10/23/14	1140	Soil	1	4° C				X							
143		4F-d (1.5-2')	10/23/14	1142	Soil	1	4° C											HOLD
144		3D-g (1-1.5')	10/23/14	1145	Soil	1	4° C			X								
145		3D-g (1.5-2')	10/23/14	1147	Soil	1	4° C											HOLD
146		5B-i (1-1.5')	10/23/14	1310	Soil	1	4° C				X							
147		5B-i (1.5-2')	10/23/14	1312	Soil	1	4° C											HOLD
148		6C-c (1-1.5')	10/23/14	1320	Soil	1	4° C				X							
149		6C-c (1.5-2')	10/23/14	1322	Soil	1	4° C											HOLD
150		6D-c (1-1.5')	10/23/14	1325	Soil	1	4° C				X							
151		6D-c (1.5-2')	10/23/14	1327	Soil	1	4° C											HOLD
152		6E-b (1-1.5')	10/23/14	1333	Soil	1	4° C				X							
153		6E-b (1.5-2')	10/23/14	1335	Soil	1	4° C											HOLD
154		5E-e (1-1.5')	10/23/14	1340	Soil	1	4° C			X								
155		5E-e (1.5-2')	10/23/14	1342	Soil	1	4° C											HOLD
156		6F-a (1-1.5')	10/23/14	1345	Soil	1	4° C				X							
157		6F-a (1.5-2')	10/23/14	1347	Soil	1	4° C											HOLD
158		5G-h (1-1.5')	10/23/14	1352	Soil	1	4° C				X							
159		5G-h (1.5-2')	10/23/14	1354	Soil	1	4° C											HOLD
160		6G-c (1-1.5')	10/23/14	1400	Soil	1	4° C	X										
161		6G-c (1.5-2')	10/23/14	1402	Soil	1	4° C											HOLD
162		6G-e (1-1.5')	10/23/14	1407	Soil	1	4° C			X	X							
163		6G-e (1.5-2')	10/23/14	1409	Soil	1	4° C											HOLD
164		6G-d (1-1.5')	10/23/14	1415	Soil	1	4° C			X	X							

Richard Vaell

Signature

10/24/2014

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CJI Supplemental Chain of Custody Form

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
165		6G-d (1.5-2')	10/23/14	1417	Soil	1	4° C											HOLD
166		6F-f (1-1.5')	10/23/14	1420	Soil	1	4° C			X	X							
167		6F-f (1.5-2')	10/23/14	1422	Soil	1	4° C											HOLD
168		6E-i (1-1.5')	10/23/14	1430	Soil	1	4° C				X							
169		6E-i (1.5-2')	10/23/14	1432	Soil	1	4° C											HOLD
170		6E-h (1-1.5')	10/23/14	1437	Soil	1	4° C			X								
171		6E-h (1.5-2')	10/23/14	1439	Soil	1	4° C											HOLD
172		6D-h (1-1.5')	10/23/14	1442	Soil	1	4° C				X							
173		6D-h (1.5-2')	10/23/14	1444	Soil	1	4° C											HOLD
174		6C-h (1-1.5')	10/23/14	1448	Soil	1	4° C				X							
175		6C-h (1.5-2')	10/23/14	1450	Soil	1	4° C											HOLD
176		6B-h (1-1.5')	10/23/14	1455	Soil	1	4° C				X							
177		6B-h (1.5-2')	10/23/14	1457	Soil	1	4° C											HOLD
178		7B-c (1-1.5')	10/23/14	1505	Soil	1	4° C				X							
179		7B-c (1.5-2')	10/23/14	1507	Soil	1	4° C											HOLD
180		7C-b (1-1.5')	10/23/14	1510	Soil	1	4° C				X							
181		7C-b (1.5-2')	10/23/14	1512	Soil	1	4° C											HOLD
182		7D-b (1-1.5')	10/23/14	1515	Soil	1	4° C				X							
183		7D-b (1.5-2')	10/23/14	1517	Soil	1	4° C											HOLD
184		7E-c (1-1.5')	10/23/14	1520	Soil	1	4° C	X	X	X	X							
185		7E-c (1.5-2')	10/23/14	1522	Soil	1	4° C											HOLD
186		7F-b (1-1.5')	10/23/14	1533	Soil	1	4° C				X							
187		7F-b (1.5-2')	10/23/14	1535	Soil	1	4° C											HOLD
188		7G-e (1-1.5')	10/23/14	1545	Soil	1	4° C			X	X							
189		7G-e (1.5-2')	10/23/14	1547	Soil	1	4° C											HOLD
190		7E-g (1-1.5')	10/23/14	1555	Soil	1	4° C				X		X	X				
191		7E-g (1.5-2')	10/23/14	1557	Soil	1	4° C											HOLD
192		7D-h (1-1.5')	10/23/14	1600	Soil	1	4° C				X							
193		7D-h (1.5-2')	10/23/14	1603	Soil	1	4° C											HOLD
194		7C-i (1-1.5')	10/23/14	1610	Soil	1	4° C				X							
195		7C-i (1.5-2')	10/23/14	1612	Soil	1	4° C											HOLD
196		7B-h (1-1.5')	10/23/14	1615	Soil	1	4° C				X							
197		7B-h (1.5-2')	10/23/14	1617	Soil	1	4° C											HOLD
198		7B-d (1-1.5')	10/23/14	1620	Soil	1	4° C	X										
199		7B-d (1.5-2')	10/23/14	1622	Soil	1	4° C											HOLD

Richard Lavell

Signature

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2039

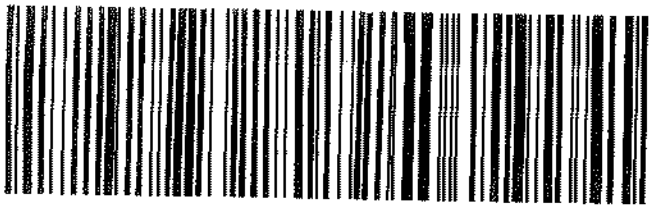
TO ENVIRONMENTAL LAB
CAL SCIENCE
744 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

1 of 5
TRK# 0215 8062 6417 8658
MASTER
XO APVA

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
92841
CA-US SNA



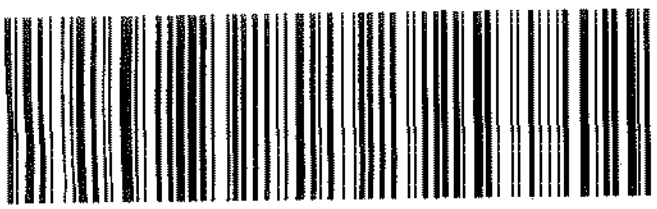
TO ENVIRONMENTAL LAB
CAL SCIENCE
744 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

3 of 5
MPS# 0681 7801 4961 0865
Mstr# 8062 6417 8658
0215
XO APVA

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
92841
CA-US SNA



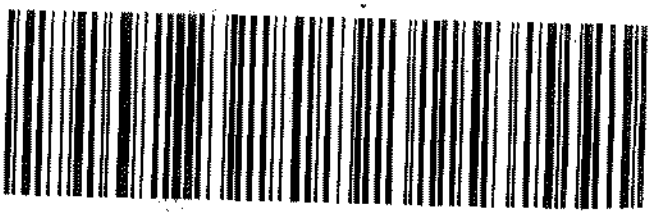
TO ENVIRONMENTAL LAB
CAL SCIENCE
744 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

2
MPS# 0681 7801
Mstr# 8062
0215
XO

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
92841
CA-US SNA



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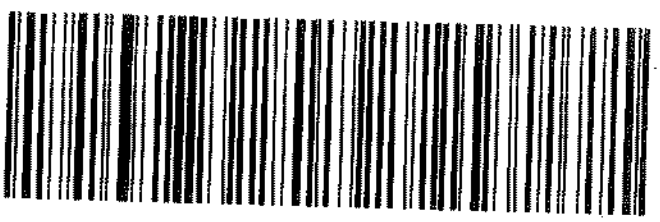
4 of 5
MPS# 0681 7801 4961 0876
Mstr# 8062 6417 6658
0215
XO APVA

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
92841
CA-US SNA



2039

ORIGIN ID:AUSA

SHIP DATE: 24OCT14
ACTWGT: 48.7 LB
CAD: /OFFC1522
DIMS: 26x14x19 IN

BILL RECIPIENT

UNITED STATES US

TO ENVIRONMENTAL LAB
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5 of 5

MPS# 0691 7801 4961 0887

Mstr# 8062 6417 8658

0215

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WORK ORDER #: 14-10-[2][0][3][9]

SAMPLE RECEIPT FORM

Cooler 1 of 5

CLIENT: Cook-Joyce DATE: 10/25/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 739

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 739

Container: **C**: Clear **A**: Amber **P**: Plastic **G**: Glass **J**: Jar **B**: Bottle **Z**: Ziploc/Resealable Bag **E**: Envelope Reviewed by: 681

Preservative: **h**: HCL **n**: HNO_3 **na$_2$**:$Na_2S_2O_3$ **na**: NaOH **p**: H_3PO_4 **s**: H_2SO_4 **u**: Ultra-pure **znna**: $ZnAc_2$+NaOH **f**: Filtered Scanned by: 681

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WORK ORDER #: 14-10-[2][0][3][9]

SAMPLE RECEIPT FORM

Cooler 2 of 5

CLIENT: Cook-Joyce

DATE: 10/25/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 802

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** 802

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 739

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 739

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

Preservative: h: HCL n: HNO_3 na$_2$:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 681

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WORK ORDER #: 14-10-Z0397

SAMPLE RECEIPT FORM

Cooler 3 of 5

CLIENT: Cook-Joyce DATE: 10/25/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 80

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 852

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 739

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 739

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 681

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WORK ORDER #: 14-10-[2][0][3][9]

SAMPLE RECEIPT FORM

Cooler 4 of 5

CLIENT: Cook-Joyce

DATE: 10/25/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C - 0.2 °C (CF) = 2.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 739

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 739

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 681

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WORK ORDER #: 14-10-☒0☒3☒9

SAMPLE RECEIPT FORM

Cooler 5 of 5

CLIENT: Cook-Joyce

DATE: 10/25/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.2 °C (CF) = 3.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 739

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 739

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 681

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WORK ORDER #: 14-10-2039

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample label(s) do not match COC** – Note in comments
  - ☑ **Sample ID**
  - ☑ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-43) Labeled as 16J-a, 10/20/14 @ 16:32.

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: JJ 10/25/14

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Calscience TRRP Data Package
Signature Page

Work Order #: **14-10-2039**

Project Name/Number: **Grand Park / 13046.01**

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  b) Dilution factors,
  c) Preparation methods,
  d) Cleanup methods, and
  e) If required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate control limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  d) The laboratory's LCS QC limits.
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits.
- ☒ R8 Laboratory Analytical Duplicates (if applicable) Recovery and Precision, including:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
- ☒ R9 Method Quantitation Limit (MQL) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

Release Statement: "I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the Laboratory Review Checklist and/or Case Narrative provided with the analytical report. I affirm, to the best of my knowledge, that all problems/anomalies observed by this laboratory that might affect the quality of the data have been identified in the Laboratory Review Checklist and/or Case Narrative, and that no information or data has been knowingly withheld that would affect the quality of the data."

Don Burley		**11/04/14**
Name	Signature	Date

Project Manager
Title

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Laboratory Review Checklist
ortable Data / Supporting Data / Exception Reports

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Laboratory Name: Eurofins Calscience, Inc.	LRC Date: 11/04/14
Project Name: Grand Park / 13046.01	Laboratory Work Order Number: 14-10-2039
Reviewer Name: Don Burley	Prep Batch Number(s): 141027L08, 141027L09, 141027L10, 141027L11, 141027L12, 141027L13; E1028MOIB2, E1028MOIB3, E1028MOIB4, E1028MOIB5, E1028MOIB6, E1029MOIB1; 141030L007; 141028B06

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	**OI**	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report or case narrative?	X				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding time?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were %moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					

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		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were associated MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC, ER, or case narrative?	X				
		2) Were all necessary corrective actions performed for the reported data?			X		
		3) If requested, is the justification for elevated SDLs documented?			X		

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ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV and CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analytes within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	**O**	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12)**					
		1) Were the raw data (e.g. chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?	X				

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S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITION**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	**X**				
S10	**OI**	**PROFICIENCY TEST REPORTS**					
		1) Are proficiency testing or inter-laboratory comparison results on file?	**X**				
S11	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	**X**				
		2) Is the MDL either adjusted or supported by the analysis of DCS?			**X**		
S12	**OI**	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	**X**				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	**X**				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	**X**				
		2) Is documentation of the analyst's competency up-to-date and on file?	**X**				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	**X**				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	**X**				

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ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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COOK-JOYCE INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701
TEXAS REGISTERED ENGINEERING FIRM F-883

DATA USABILITY SUMMARY

GRAND PARK SITE – LAB REPORT 14-11-1242

JANUARY 2015

Prepared for:

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas

Prepared by:

Cook-Joyce, Inc.
812 West 11th Street
Austin, Texas 78701

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ATTACHMENT	
A	CALSCIENCE NELAC/TLAP ACCREDITATION
B	DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

1.0 INTRODUCTION

Cook-Joyce, Inc. (CJI) reviewed one analytical data package for samples of environmental media collected at the Grand Park Site in Frisco, Texas. Work at the site was done on behalf of the City of Frisco, which owns the property being evaluated for potential impacts. CJI collected the subject samples in November 2014. All analyses were performed in accordance with the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) and meet Texas Risk Reduction Program (TRRP) requirements. This Data Usability Summary (DUS) was prepared to document the usability of the data in supporting site closure under TRRP.

The Texas Commission on Environmental Quality (TCEQ) document, *Review and Reporting of COC Concentration Data (RG-366/TRRP-13)*, describes the procedures for reviewing and reporting data to ensure they are of sufficient and documented quality, as required by 30 §TAC 350.54. These procedures embody the default objectives for levels of quality control, documentation, and data review that apply to all data generated on or after 1 February 2003 for TRRP compliance, unless alternative project objectives are established prior to sample collection. CJI reviewed the data described herein for conformance with TRRP-13 criteria and any project-specific quality objectives. Any derivations from these criteria are discussed in this DUS.

The following laboratory submittals and field data were examined:

- The laboratory reportable data as identified by TRRP-13;
- The laboratory review checklists (LRCs), associated exception reports and supporting data;
- The laboratory electronic data deliverable (EDD); and
- The field notes from the sampling events.

Samples were analyzed by Calscience, and results were provided to CJI on 2 December 2014 in analytical package 14-11-1242. At the time of data analysis, Calscience was NELAC accredited under the TCEQ's Texas Laboratory Accreditation Program (TLAP) for subject matrices, methods, and analytical parameters, except as may be qualified in this DUS. A copy of Calscience's TLAP certification that is coincident with the sample analyses addressed in this DUS is provided as Attachment A to this Data Usability Summary (DUS).

2.0 INTENDED USE OF DATA

The Grand Park site (the Site) is comprised of recently cultivated farmland, unused pasture, and surface water bodies (Stewart Creek and its tributaries). Grand Park is enrolled in the Voluntary Cleanup Program (VCP) as site number 2592 to evaluate and remediate impacts to the Site from a neighboring and upstream property known as the former Exide Battery Recycling Facility. Impacts that may have resulted from the historical uses of the Site are also being evaluated.

As documented in Section 1 of this DUS and in Table 1, CJI collected 53 discrete soil samples and 3 field duplicates of those samples across portions of the Grand Park Site in November 2014. The following analyses were requested for chemicals of concern (COCs):

- ASTM D-2216 (M) – Moisture content of a solid.
- EPA 6020 – Inductively coupled plasma-mass spectrometry of a solid.
- EPA 8081A – Organochlorine pesticides by gas chromatography.
- EPA 8151A – Chlorinated herbicides by gas chromatography.
- EPA 8270C - Polyaromatic Hydrocarbons (PAHs).
- TX 1005 – Total petroleum hydrocarbons.

Specific metals analyzed under EPA 6020 included arsenic, cadmium, lead, and selenium. Select samples were also analyzed for pesticides, herbicides, PAHs, and/or TPH. All of these analytes and methods are recognized fields of accreditation for solid and chemical materials under TCEQ's NELAC certification of Calscience.

2.1 DATA REVIEWED

Table 1 summarizes the sample analyses that were reviewed for this DUS and provides the field identification number of each sample, cross referenced to the laboratory identification number, sample collection date, sample type, analysis performed, and quality control batch numbers. The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and, when provided, case narratives, all of which were included in this review. The LRCs, associated ERs, and analytical reports received from the laboratory are provided in Attachment B to this DUS.

Field data were reviewed to verify that appropriate procedures were used during collection of samples. All reportable data to be provided by the analytical laboratory, as identified in TRRP-13, were reviewed for completeness and conformance with quantitative QC criteria, where applicable, including preservation/holding times, instrument calibrations, blank recovery, internal standard and surrogate recoveries, laboratory control sample (LCS) results and reproducibilities, matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities, and field duplicate precision.

2.2 PROJECT OBJECTIVES

The overall project objective is to achieve closure of the Grand Park Site through the TCEQ. This DUS evaluates the quality of analytical data provided in the laboratory package identified in Section 1.0 and Table 1. These data represent a discrete portion of the Site and will be used to identify and delineate any environmental impacts in this portion of the Site.

Data review was conducted to identify any potential impacts on sample analytical results as a result of field and/or analytical laboratory activities and ensure that the data are suitable for its use in accordance with TRRP. Quantitative review criteria for each QC parameter were based on laboratory procedure and analytical method requirements and/or TRRP-13 guidance, and these criteria are documented in the summary tables included herein and in the QC summary report section of the analytical data report(s) in Appendix B. No project-specific review criteria were necessary or developed for this project.

3.0 DATA REVIEW RESULTS

3.1 GENERAL DATA PACKAGE REVIEW

Laboratory reports were evaluated for consistency of sample identification labels and laboratory analysis as listed on the COC. In addition, they were reviewed against the TRRP-13 requirements. The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDDs contain all sample results in an acceptable format. The hardcopy laboratory reports and the EDDs include a result, method detection limit (MDL), adjusted method quantitation limit (MQL), which is also referred to as the sample quantitation limit (SQL)[1], and the sample-specific detection limit (SDL)[2] for each analysis. The SDL is that value below which the COC cannot be reliably detected.

In accordance with TRRP requirements, a laboratory defines "non-detect" results as less than the value of the SDL.[3] "Estimated" results are typically "J" qualified by the laboratory; results are estimated rather than quantified when a compound is determined to be present at a concentration less than the SQL, but greater than the SDL.

3.1.1 Appropriate Reporting

Soil results are reported on a dry weight basis. Metals, PAHs, and TPH results are reported in milligrams per kilogram (mg/Kg). Herbicides and pesticides are reported in micrograms per kilogram (µg/Kg). Non-detects are reported using the SDL as specified in TRRP, and detects between the SDL and the SQL are reported as estimated concentrations with a laboratory J-flag.

None of the samples required dilution due to the high concentration of an analyte or matrix interferences. There were no elevated reporting limits for "non-detects".

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[1] The SQL represents the MQL adjusted for moisture and sample size. The MQL is defined in §350.4(54) as "The lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory."

[2] The SDL is defined as the MDL adjusted to reflect sample-specific factors such as sample characteristics, sample preparation, and analytical adjustments. The MDL is "the minimum concentration of a COC the laboratory would measure and report with 99% confidence that the analyte concentration is greater than zero and is determined for each COC in a reagent matrix."

[3] Certain laboratories may assign a "U" qualifier to non-detect results. For clarity, CJI does not include laboratory assigned "U" qualifiers in our data tables. Instead, "U" qualified data are represented as "<" the SDL.

3.1.2 Chain-of-Custody Procedures

Proper sample custody procedures confirm that the integrity of the samples was maintained. Each cooler containing samples addressed in this report was shipped to Calscience following these procedures. All samples were labeled correctly, and the appropriate analytical tests were performed by the laboratory.

3.1.3 Holding Times and Preservation

Samples were collected and placed into laboratory supplied containers. After collection in laboratory supplied containers, all samples were immediately placed in an ice-filled cooler and maintained on ice until their receipt by the analytical laboratory. The laboratory measured the temperature blank in each cooler upon its receipt; none of the data were qualified based on receiving temperature. CJI also compared the date of sample collection to the date of sample analysis to identify any samples that did not meet sample holding requirements. Based on our review, all samples reviewed for this DUS were analyzed within their appropriate holding times. Preservation and hold time requirements are provided in Table 2.

3.1.4 Blanks

Field and trip blanks were not collected or analyzed during sampling activities associated with this DUS. Samples were collected using single-use, disposable hand trowels, therefore, equipment blanks were not warranted.

3.1.5 Quality Control Sample Spikes

TRRP-13 requires that the laboratory's quality control samples, such as laboratory control samples (LCSs), laboratory control sample duplicates (LCSDs), matrix spikes (MSs), and matrix spike duplicates (MSDs), be spiked with all of the analytes reported by the laboratory. An exception to this rule is when an analyte is comprised of multiple compounds. Polychlorinated biphenyls (PCBs) are an example for this type of analyte.

Based on CJI's review, the quality control samples for total metals, herbicides, PAHs, and TPH analyses were spiked with all of the analytes reported by the laboratory. However, the LCSs for pesticide analyses were not. Nineteen (19) analytes were reported for method 8081A; only 17 of those analytes appear as spikes in the LCSs. The 2 analytes that were not spiked are chlordane and toxaphene.

Chlordane and toxaphene are “multi-peak” compounds similar to PCBs. Both are comprised of hundreds of constituents. When analyzing for these types of compounds, TRRP-13 states that, “the LCS must be spiked with standards that represent the range and characteristics of the COCs for the project.” CJI has concluded that the other pesticide spikes meet this criterion.

3.2 ANALYTICAL RESULTS

Laboratory analyses are divided into QC batches, in which samples are prepared for analysis (e.g. extractions). Each QC batch includes appropriate QC samples required for analysis – such as matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples (LCS). This information was provided by the laboratory in the analytical packages. Each sample ID and analysis performed is listed with its associated QC batch in Table 1 of this DUS.

Each qualified analyte and sample qualification rationale is listed in Table 3 of this DUS. Further details on data qualifications are discussed in the following subsections.

3.2.1 Calibrations

According to the LRCs, initial and continuing calibration data met method requirements in all cases. No data were qualified due to initial or continuing calibration issues.

3.2.2 Lab Blanks

Laboratory QC results and provided LRCs were reviewed to identify any COC concentrations exceeding the MDL in required method blanks. There were no samples in which detection of blank constituents resulted in sample qualification.

3.2.3 Surrogate Recoveries

When applicable, surrogate recovery data are used to evaluate potential bias in the analytical results for each sample that could have been introduced by the preparatory procedures and/or the analysis. Surrogates are typically used in organic analyses and were not used for the metal analyses evaluated in this DUS. Each sample, standard, and method blank was spiked with the appropriate surrogates. According to the LRCs and based on the data provided in the reports and EDDs, all surrogate recoveries were within surrogate recovery control limits (between 60 and 140% per TRRP-13) except where noted below. Table 4 lists any data qualifications based on surrogate recoveries.

- PAHs results for sample Diesel AST 2 (1-1.5') are qualified due to surrogate recoveries being below specifications.

3.2.4 Laboratory Control Samples/Laboratory Control Sample Duplicates

Laboratory Control Samples (LCSs) are generated to evaluate the accuracy of the analytical method and the laboratory's performance. Laboratory Control Sample Duplicates (LCSDs) may also be analyzed to evaluate the laboratory's precision.

If LCS recoveries are above specifications, then results generally are estimated high (JH). If recoveries are below specifications, then results generally are qualified as estimated low (JL). If recoveries are below 30% for metals or 10% for organics, then results are estimated low or rejected (R).

All of the analytes reported by the laboratory were spiked in the LCSs (with the exception of the two pesticides chlordane and toxaphene). According to the LRCs and based on the data provided in the reports and EDDs, the recoveries of all of the spiked compounds were within the recovery control limits developed by the laboratory. In addition to the comparison to the laboratory specified control limits, CJI also compared the data to TRRP-13 review standards (a standardized control limit of 70-130% for metals and 60-140% for organics). No data were qualified due to LCS percent recoveries when compared to TRRP-13 control limits, except where noted below. Table 5 lists any data qualifications based on LCS recoveries.

- Percent recoveries for dinoseb, a herbicide, were below specifications for both the LCS and LCSD in quality control sample 099-15-783-21 for batch 141121L18A. Dinoseb has been qualified with a "UJL" for sample 10F-f because dinoseb was non-detect in the sample.

An LCSD sample was analyzed by Calscience for herbicides and there were no data qualifications based on LCS/LCSD relative percent differences.

3.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix Spike/Matrix Spike Duplicates (MS/MSDs) were used to evaluate the impact of the sample matrix on analytical recoveries. MS/MSD recoveries were used to assist in sample qualification in connection with other data quality indicators. In general, sample results were not qualified on MS/MSD recovery data alone. LCS recoveries were also checked, and these were used to support MS/MSD data qualification. In cases where no other precision data could be evaluated

(i.e. the absence of field duplicate samples), the data were qualified based on MS/MSD reproducibilities alone.

MS/MSD recoveries were compared to both laboratory control limits and TRRP-13 review criteria for metals (70% - 130%, but not less than 30%) and for organics (60% - 140%, but not less than 10%). MS/MSD relative percent differences were also compared to both laboratory control limits and TRRP-13 review criteria (acceptable within 30% for metals and 40% for organics).

MS/MSD Spike Accuracy

MS/MSD recoveries were typically reported within acceptance criteria in the data packages reviewed for this DUS. Table 6A lists any data qualifications based on MS/MSD recoveries. MS/MSD recoveries outside control limits and the reasoning behind data qualification or non-qualification based on these recoveries are discussed below.

- For QC Batch 141119S12, the MSD taken from laboratory sample 14-11-1560-24 had endrin aldehyde and methoxychlor recoveries that were below control limits. These recoveries were within control limits for the associated MS sample and LCS samples, therefore, no data are qualified based on recoveries from this MSD sample.
- For QC Batch 141118S07, the MSD taken from sample Diesel AST 2 (1-1.5') for PAHs phenanthrene, benzo (a) anthracene, and benzo (a) pyrene had recoveries that were below laboratory control limits. The associated MS recoveries for these analytes were within control limits. Associated LCS recoveries for these analytes were also within control limits. Therefore, data are not qualified based on PAHs MS/MSD recoveries.
- MS/MSD recoveries were acceptable for all other analyses.

MS/MSD Spike Precision

MS/MSD reproducibilities were reported within acceptance criteria in the data packages reviewed for this DUS. MS/MSD relative percent differences (RPDs) were compared to both laboratory control limits and TRRP-13 review criteria. There were no sample qualifications based on MS/MSD reproducibilities. Table 6B lists any data qualifications based on MS/MSD RPDs.

3.2.6 Post Digestion Spikes

Post digestion spikes (PDSs) were performed for metals analyses in each data package. All PDS recoveries were within laboratory (75%-125%) and TRRP-13 (70%-130%) control limits.

3.2.7 Detectability Check Sample

A detectability check sample (DCS) is a reagent matrix spiked by the laboratory with analytes near, or within two or three times, the calculated MDL and carried through the sample preparation procedures for the analysis. DCSs are used to test the lab's ability to detect analytes concentrations near the MQL. DCSs were not performed for the subject data. Calscience's MDLs are adjusted and supported by the analysis of annual MDL/RL verifications per NELAC requirements. Some of the MDLs (including those for the EPA 6020 Metals) are also supported by quarterly LOD/LOQ verifications per Department of Defense requirements.

3.2.8 Laboratory Duplicates

Duplicate analysis for moisture content was performed on 4 samples analyzed for this project. The RPD for the result of the duplicate analysis when compared with the original met the laboratory's control limits of 0-10%. No data are qualified based on laboratory duplicate data.

3.2.9 Adequacy of MQLs and SDLs

MQLs and, where applicable, SDLs were compared to the constituent specific, critical protective concentration limits (PCLs) for a residential site with an affected property that is between 0.5 and 30 acres in size (or the background values, if greater than the critical PCLs) to evaluate whether the laboratory was able to achieve sufficiently low limits. The critical PCLs/background values comprise the assessment targets and represent the Levels of Required Performance (LORPs).

These comparisons were primarily made because sample specific interferences or elevated COC concentrations may affect the laboratory's ability to detect or quantify a COC below the LORP. In addition, concentrations of certain chemical parameters in environmental media cannot be quantified using currently-available analytical technologies.

All MQLs in the data packages addressed herein were below their respective LORPs for the requested analytes, with the exception of two herbicides (MCPA and MCPP). Neither MCPA nor MCPP was detected in the analyzed samples.

3.2.10 Field Precision

Field duplicate precision was reviewed in sample sets where they were obtained. Field duplicate samples were collected at the locations listed below. Analytical results of the original sample and the duplicate sample are compared in Table 7.

- 13F-e / 141113 DUP-1
- 14C-c / 141113 DUP-2
- 14B-h / 141113 DUP-3

Reproducibility is calculated by dividing the difference of the two duplicate analytical results (R1 – R2) by the average of the two results, then multiplying by 100 to obtain a percentage, as shown in the equation below. The acceptable range of reproducibility for metal analyses is 0 to 50% and for organic analyses is 0 to 40%.

$$\text{Reproducibility} = \frac{[R1 - R2]}{\left[(R1 + R2)/2\right]} \times 100$$

A comparison of the reproducibilities for the sample/duplicate sets described above is provided in Table 7. Based on the comparisons provided in Table 7, all of the reproducibilities for sample / field duplicate pairs are acceptable.

3.3 FIELD PROCEDURES/RECORDS

Samples were collected according to CJI's standard operating procedures (SOPs). Field notes documenting sample collection activities were also reviewed. No data qualification was required based on field procedures or field records.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In general, the data quality was good. Critical samples collected for comparison to risk based PCLs to identify any exceedances or trends were usable and no data gaps were identified. Any specific data quality issues are identified in the text of this document.

To address the issues identified during data review recommendations for future monitoring at this site include:

- MS/MSDs should continue to be analyzed on samples from this Site so that matrix effects can be evaluated.
- In general, analytical results from all reviewed samples are usable for their intended purpose, and sampling should continue as conducted.

Kevin Lonseth		1/29/2015
Data Reviewer	Signature	Date

TABLES

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (EPA 6020)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		TPH (TX 1005)		PAHs (EPA 8270C)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
11/13/2014	141113 DUP-1	14-11-1242	106	Soil	FD	X	141119L03									X	E1119MOIB6
11/13/2014	141113 DUP-3	14-11-1242	108	Soil	FD	X	141119L03									X	E1119MOIB6
11/13/2014	141113 DUP-5	14-11-1242	110	Soil	FD	X	141119L03									X	E1119MOIB6
11/13/2014	10C-e (1-1.5')	14-11-1242	19	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	10E-c (1-1.5')	14-11-1242	21	Soil	Inv.	X	141119L01	X	141118L12			X	141118L03			X	E1119MOIB4
11/13/2014	10F-e (1-1.5')	14-11-1242	23	Soil	Inv.	X	141119L01	X	141118L12							X	E1119MOIB4
11/13/2014	10F-f	14-11-1242	25	Soil	Inv.					X	141121L18A					X	E1201MOIB2
11/13/2014	10F-h (1-1.5')	14-11-1242	28	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	11C-a (1-1.5')	14-11-1242	30	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	11E-i (1-1.5')	14-11-1242	32	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	12E-d (1-1.5')	14-11-1242	34	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	12F-e (1-1.5')	14-11-1242	36	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	13B-g (1-1.5')	14-11-1242	38	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	13B-i (1-1.5')	14-11-1242	40	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	13C-h (1-1.5')	14-11-1242	42	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	13D-c (1-1.5')	14-11-1242	44	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	13D-h (1-1.5')	14-11-1242	46	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	13E-h (1-1.5')	14-11-1242	48	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	13F-d (1-1.5')	14-11-1242	50	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14B-a (1-1.5')	14-11-1242	52	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14B-g (1-1.5')	14-11-1242	54	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14C-a (1-1.5')	14-11-1242	56	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14C-b (1-1.5')	14-11-1242	58	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14C-c (1-1.5')	14-11-1242	60	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14C-d (1-1.5')	14-11-1242	62	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14C-e (1-1.5')	14-11-1242	64	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14C-f (1-1.5')	14-11-1242	66	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14E-c (1-1.5')	14-11-1242	68	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14E-d (1-1.5')	14-11-1242	70	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	14E-i (1-1.5')	14-11-1242	72	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	15B-f (1-1.5')	14-11-1242	74	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	15B-i (1-1.5')	14-11-1242	76	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	15C-a (1-1.5')	14-11-1242	78	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	15C-d (1-1.5')	14-11-1242	80	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	15C-e (1-1.5')	14-11-1242	82	Soil	Inv.	X	141119L02									X	E1119MOIB5
11/13/2014	15C-h (1-1.5')	14-11-1242	84	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	15D-a (1-1.5')	14-11-1242	86	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	15D-f (1-1.5')	14-11-1242	88	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	15D-g (1-1.5')	14-11-1242	90	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	15F-a (1-1.5')	14-11-1242	92	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	16B-a (1-1.5')	14-11-1242	94	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	16B-b (1-1.5')	14-11-1242	96	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	16B-c (1-1.5')	14-11-1242	98	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	16C-a (1-1.5')	14-11-1242	100	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	17C-c (1-1.5')	14-11-1242	102	Soil	Inv.	X	141119L03									X	E1119MOIB6
11/13/2014	17C-i (1-1.5')	14-11-1242	104	Soil	Inv.	X	141119L03									X	E1119MOIB6

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		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
11/13/2014	7F-f (1-1.5')	14-11-1242	1	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	8A-a (1-1.5')	14-11-1242	3	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	8C-a (1-1.5')	14-11-1242	5	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	8F-b (1-1.5')	14-11-1242	7	Soil	Inv.	X	141119L01	X	141119L12							X	E1119MOIB4
11/13/2014	8F-c (1-1.5')	14-11-1242	9	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	8G-c (1-1.5')	14-11-1242	11	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	9B-h (1-1.5')	14-11-1242	13	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	9F-d (1-1.5')	14-11-1242	15	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	9F-e (1-1.5')	14-11-1242	17	Soil	Inv.	X	141119L01									X	E1119MOIB4
11/13/2014	DIESEL AST 2 (1-1.5')	14-11-1242	112	Soil	Inv.							X	141118L03	X	141118L07	X	E1119MOIB6
	Laboratory Control Sample Duplicate	14-11-1242	21	Soil	LCD					X	141121L18A						
	Laboratory Control Sample	14-11-1242	66	Soil	LCS							X	141118L03				
	Laboratory Control Sample	14-11-1242	775	Soil	LCS	X	141119L01										
	Laboratory Control Sample	14-11-1242	776	Soil	LCS	X	141119L02										
	Laboratory Control Sample	14-11-1242	777	Soil	LCS	X	141119L03										
	Laboratory Control Sample	14-11-1242	1904	Soil	LCS			X	141118L12								
	Laboratory Control Sample	14-11-1242	1908	Soil	LCS			X	141119L12								
	Laboratory Control Sample	14-11-1242	21	Soil	LCS					X	141121L18A						
	Laboratory Control Sample	14-11-1242	2257	Soil	LCS									X	141118L07		
	Method Blank	14-11-1242	5035	Soil	MB											X	E1119MOIB4
	Method Blank	14-11-1242	5036	Soil	MB											X	E1119MOIB5
	Method Blank	14-11-1242	5037	Soil	MB											X	E1119MOIB6
	Method Blank	14-11-1242	5047	Soil	MB											X	E1201MOIB2
	Method Blank	14-11-1242	66	Soil	MB							X	141118L03				
	Method Blank	14-11-1242	775	Soil	MB	X	141119L01										
	Method Blank	14-11-1242	776	Soil	MB	X	141119L02										
	Method Blank	14-11-1242	777	Soil	MB	X	141119L03										
	Method Blank	14-11-1242	1904	Soil	MB			X	141118L12								
	Method Blank	14-11-1242	1908	Soil	MB			X	141119L12								
	Method Blank	14-11-1242	21	Soil	MB					X	141121L18A						
	Method Blank	14-11-1242	2257	Soil	MB									X	141118L07		
11/13/2014	13D-c (1-1.5')	14-11-1242	44	Soil	MS	X	141119L02										
11/11/2014	14-11-0913-1	14-11-1242	1	Soil	MS							X	141118L03				
11/17/2014	14-11-1354-17	14-11-1242	17	Soil	MS			X	141118L12								
11/19/2014	14-11-1560-24	14-11-1242	24	Soil	MS			X	141119L12								
11/13/2014	15C-h (1-1.5')	14-11-1242	84	Soil	MS	X	141119L03										
11/13/2014	7F-f (1-1.5')	14-11-1242	1	Soil	MS	X	141119L01										
11/13/2014	DIESEL AST 2 (1-1.5')	14-11-1242	112	Soil	MS									X	141118L07		
11/13/2014	13D-c (1-1.5')	14-11-1242	44	Soil	MSD	X	141119L02										
11/11/2014	14-11-0913-1	14-11-1242	1	Soil	MSD							X	141118L03				
11/17/2014	14-11-1354-17	14-11-1242	17	Soil	MSD			X	141118L12								
11/19/2014	14-11-1560-24	14-11-1242	24	Soil	MSD			X	141119L12								
11/13/2014	7F-f (1-1.5')	14-11-1242	1	Soil	MSD	X	141119L01										
11/13/2014	DIESEL AST 2 (1-1.5')	14-11-1242	112	Soil	MSD									X	141118L07		
11/13/2014	10F-f	14-11-1242	25	Soil	SDP											X	E1201MOIB2
11/13/2014	13D-c (1-1.5')	14-11-1242	44	Soil	SDP											X	E1119MOIB5

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (EPA 6020)		Pesticides (EPA 8081A)		Herbicides (EPA 8151A)		TPH (TX 1005)		PAHs (EPA 8270C)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch		QC Batch		QC Batch		QC Batch
11/13/2014	15C-h (1-1.5')	14-11-1242	84	Soil	SDP											X	E1119MOIB6
11/13/2014	7F-f (1-1.5')	14-11-1242	1	Soil	SDP											X	E1119MOIB4
Total Number of Analyses Reviewed						65		11		4		6		5		64	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
LCS = Laboratory Control Sample
MB = Method Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
SDP = Sample Duplicate

TABLE 2
SAMPLE PRESERVATION AND HOLDING TIMES - LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Parameters	Analytical Method	Preservation	Required Reporting Limit	Holding Time
Moisture Content	ASTM D-2216	Cool 4 ± 2°C	NA	10 days for solids
Total metals (arsenic, cadmium, lead, and selenium)	EPA 6020	Cool 4 ± 2°C[1] Water: Acidify w/ HNO_3 to pH < 2	TRRP Reporting	180 days
Herbicides	EPA 8151A	Cool 4 ± 2°C	TRRP Reporting	7 days for aqueous; 14 days for solids
Pesticides	EPA 8081A	Cool 4 ± 2°C	TRRP Reporting	7 days for aqueous; 14 days for solids
PAHs	EPA 8270C	Cool 4 ± 2°C	TRRP Reporting	7 days for aqueous; 14 days for solids
TPH	TX 1005	Cool 4 ± 2°C	TRRP Reporting	14 days for solids

Notes: 1) Although not required by method, the workplan for this project specified that samples submitted for metal analyses would be preserved with ice.

TABLE 3
SUMMARY OF ALL QUALIFIED DATA - LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Method	Analyte	QC Batch	Assigned Qualifier	Reason for Qualification
		Work Order	#							
11/13/2014	Diesel AST 2 (1-1.5')	14-11-1242	112	Soil	Inv.	EPA 8270C	PAHs	141118L07	UJL*	Surrogate Recoveries
11/13/2014	10F-f	14-11-1242	25	Soil	Inv.	EPA 8151A	Dinoseb	141121L18A	UJL*	LCS % Recovery

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
QC Batch numbers for laboratory control samples (LCSs) contain an "L", those for matrix spike/matrix spike duplicates (MS/MSDs) contain an "S". Otherwise the numbers are identical.
* All PAHs are below detection levels for sample Diesel AST 2 (1-1.5'). Dinoseb was also not detected in sample 10F-f.

TABLE 4
SAMPLE RESULTS QUALIFIED BASED ON SURROGATE RECOVERIES - LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample	Surrogate Recovery			Qualifier	
	Work Order	#	Type	Surrogate	%R	Review Limits	Detects	Non-Detects
Diesel AST 2 (1-1.5')	14-11-1242	112	Inv.	2-Fluorobiphenyl	51	60	JL	UJL
				Nitrobenzene-d5	44			

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low

TABLE 5
SAMPLE RESULTS QUALIFIED BASED ON LCS RECOVERIES - LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Sample ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery			Qualifier	
	Work Order	#			Analyte	%R	Review Limits	Detects	Non-Detects
099-15-783-21	14-11-1242	---	LCS	141121L18A	Dinoseb	32	60	JL	UJL
			LCSD	141121L18A		30	60	JL	UJL

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Colored fill represents QC Batches that appear in several data packages.

TABLE 6A
SAMPLE RESULTS WITH MS/MSD RECOVERIES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery				Review Limits	Qualifier	
	Work Order	#			Analyte	MS %R	MSD %R	Ave %R		Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD Recoveries						NA	NA	NA

Notes: %R = Percent Recovery
Ave %R = Average of matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
R = Data are Rejected
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Light shaded average recoveries are low.
Dark shaded average recoveries are extremely low.

TABLE 6B
MS/MSD RELATIVE PERCENT DIFFERENCES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14111242
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		QC Batch	Analyte	MS %R	MSD %R	RPD	Review Limits	Qualifier	
	Work Order	#							Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD RPD's.						NA	NA

Notes: %R = Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
UJL = Estimated Non-Detect, Biased Low

TABLE 7
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES (METALS) - LAB REPORT 14-11-1242
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	11C-a (1-1.5')	141113 DUP-1	Absolute Difference	RPD	16B-a (1-1.5')	141113 DUP-3	Absolute Difference	RPD	17C-i (1-1.5')	141113 DUP-5	Absolute Difference	RPD
		14-11-1242-30	14-11-1242-106			14-11-1242-94	14-11-1242-108			14-11-1242-104	14-11-1242-110		
		11/13/2014	11/13/2014			11/13/2014	11/13/2014			11/13/2014	11/13/2014		
Arsenic	1	5.05	7.39	2.34	37.62	10.9	11.1	0.20	1.82	6.27	7.30	1.03	15.18
Cadmium	1	0.426	0.554	0.13	26.12	NA	NA	NC	NC	NA	NA	NC	NC
Lead	1	13.4	13.6	0.20	1.48	NA	NA	NC	NC	NA	NA	NC	NC
Selenium	1	1.84	0.264	1.58	149.81	NA	NA	NC	NC	NA	NA	NC	NC

Notes: RPD = Relative Percent Difference.
MQL = Method Quantitation Limit.
Concentrations for metals reported in mg/Kg.
NC = Not Calculated.
NA = Not Analyzed.
Shaded RPDs are outside of the acceptable range.
Italicized values represent analyte method detection limits used for field duplicate precision calculations.
Shaded RPDs require data to be qualified when:
1) RPD ≥ 50% AND analyte concentrations > 5x MQL.
2a) Analyte concentration < 5x MQL AND absolute difference is ≥ 3x the MQL for INORGANICS.
2b) Analyte concentration < 5x MQL AND absolute difference is ≥ 2x the MQL for ORGANICS.

ATTACHMENT A

CALSCIENCE NELAC/TLAP ACCREDITATION

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704499-14-4
Effective Date: 8/1/2014
Expiration Date: 7/31/2015

Executive Director Texas Commission on Environmental Quality

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

CERTIFIED MAIL

Mr. Larry Lem
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Lem:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

We are also continuing secondary accreditation based on your application and primary NELAP accreditation from the states of Oregon and New York according to the attached Fields of Accreditation. Your laboratory's secondary accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary Accreditation Bodies.

I am enclosing an accreditation certificate and listing of the fields of accreditation. Please review the enclosures for accuracy and completeness.

In the meantime, please contact me by telephone at (512) 239–3754 or electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: ***Air & Emissions***

Method EPA TO-14A

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	NY	5160	10248609
1,1,2,2-Tetrachloroethane	NY	5110	10248609
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248609
1,1,2-Trichloroethane	NY	5165	10248609
1,1-Dichloroethane	NY	4630	10248609
1,1-Dichloroethylene	NY	4640	10248609
1,2,4-Trichlorobenzene	NY	5155	10248609
1,2,4-Trimethylbenzene	NY	5210	10248609
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248609
1,2-Dichlorobenzene	NY	4610	10248609
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248609
1,2-Dichloropropane	NY	4655	10248609
1,3,5-Trimethylbenzene	NY	5215	10248609
1,3-Dichlorobenzene	NY	4615	10248609
1,4-Dichlorobenzene	NY	4620	10248609
Benzene	NY	4375	10248609
Benzyl chloride	NY	5635	10248609
Carbon tetrachloride	NY	4455	10248609
Chlorobenzene	NY	4475	10248609
Chloroethane (Ethyl chloride)	NY	4485	10248609
Chloroform	NY	4505	10248609
cis-1,2-Dichloroethylene	NY	4645	10248609
cis-1,3-Dichloropropene	NY	4680	10248609
Dichlorodifluoromethane (Freon-12)	NY	4625	10248609
Ethylbenzene	NY	4765	10248609
Hexachlorobutadiene	NY	4835	10248609
Methyl bromide (Bromomethane)	NY	4950	10248609
Methyl chloride (Chloromethane)	NY	4960	10248609

Texas Commission on Environmental Quality

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Issue Date: 8/1/2014

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Matrix: *Air & Emissions*

Methylene chloride (Dichloromethane)	NY	4975	10248609
Styrene	NY	5100	10248609
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248609
Toluene	NY	5140	10248609
trans-1,2-Dichloroethylene	NY	4700	10248609
trans-1,3-Dichloropropylene	NY	4685	10248609
Trichloroethene (Trichloroethylene)	NY	5170	10248609
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248609
Vinyl chloride	NY	5235	10248609
Xylene (total)	NY	5260	10248609

Method EPA TO-15

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	NY	5160	10248803
1,1,2,2-Tetrachloroethane	NY	5110	10248803
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248803
1,1,2-Trichloroethane	NY	5165	10248803
1,1-Dichloroethane	NY	4630	10248803
1,1-Dichloroethylene	NY	4640	10248803
1,2,4-Trichlorobenzene	NY	5155	10248803
1,2,4-Trimethylbenzene	NY	5210	10248803
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248803
1,2-Dichlorobenzene	NY	4610	10248803
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248803
1,2-Dichloropropane	NY	4655	10248803
1,3,5-Trimethylbenzene	NY	5215	10248803
1,3-Butadiene	NY	9318	10248803
1,3-Dichlorobenzene	NY	4615	10248803
1,4-Dichlorobenzene	NY	4620	10248803
1,4-Dioxane (1,4-Diethyleneoxide)	NY	4735	10248803
2-Butanone (Methyl ethyl ketone, MEK)	NY	4410	10248803

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Matrix: *Air & Emissions*

Benzene	NY	4375	10248803
Benzyl chloride	NY	5635	10248803
Bromodichloromethane	NY	4395	10248803
Bromoform	NY	4400	10248803
Carbon tetrachloride	NY	4455	10248803
Chlorobenzene	NY	4475	10248803
Chloroethane (Ethyl chloride)	NY	4485	10248803
Chloroform	NY	4505	10248803
cis-1,2-Dichloroethylene	NY	4645	10248803
cis-1,3-Dichloropropene	NY	4680	10248803
Dichlorodifluoromethane (Freon-12)	NY	4625	10248803
Ethylbenzene	NY	4765	10248803
Hexachlorobutadiene	NY	4835	10248803
Methyl bromide (Bromomethane)	NY	4950	10248803
Methyl chloride (Chloromethane)	NY	4960	10248803
Methyl isobutyl ketone (Hexone) (MIBK)	NY	4985	10248803
Methyl tert-butyl ether (MTBE)	NY	5000	10248803
Methylene chloride (Dichloromethane)	NY	4975	10248803
n-Hexane	NY	4855	10248803
Styrene	NY	5100	10248803
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248803
Toluene	NY	5140	10248803
trans-1,2-Dichloroethylene	NY	4700	10248803
trans-1,3-Dichloropropylene	NY	4685	10248803
Trichloroethene (Trichloroethylene)	NY	5170	10248803
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248803
Vinyl acetate	NY	5225	10248803
Vinyl chloride	NY	5235	10248803
Xylene (total)	NY	5260	10248803

Texas Commission on Environmental Quality

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Matrix: ***Non-Potable Water***

Method ASTM D516

Analyte	AB	Analyte ID	Method ID
Sulfate	OR	2000	30002201

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	OR	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	OR	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	OR	1000	10013806
Antimony	OR	1005	10013806
Arsenic	OR	1010	10013806
Barium	OR	1015	10013806
Beryllium	OR	1020	10013806
Boron	OR	1025	10013806
Cadmium	OR	1030	10013806
Calcium	OR	1035	10013806
Chromium	OR	1040	10013806
Cobalt	OR	1050	10013806
Copper	OR	1055	10013806
Iron	OR	1070	10013806
Lead	OR	1075	10013806
Magnesium	OR	1085	10013806
Manganese	OR	1090	10013806
Molybdenum	OR	1100	10013806

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	**T104704499-14-4**
Expiration Date:	**7/31/2015**
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Matrix: ***Non-Potable Water***

Nickel	OR	1105	10013806
Potassium	OR	1125	10013806
Selenium	OR	1140	10013806
Silica as SiO2	OR	1990	10013806
Silver	OR	1150	10013806
Sodium	OR	1155	10013806
Thallium	OR	1165	10013806
Tin	OR	1175	10013806
Vanadium	OR	1185	10013806
Zinc	OR	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	OR	1000	10014605
Antimony	OR	1005	10014605
Arsenic	OR	1010	10014605
Barium	OR	1015	10014605
Beryllium	OR	1020	10014605
Boron	OR	1025	10014605
Cadmium	OR	1030	10014605
Chromium	OR	1040	10014605
Cobalt	OR	1050	10014605
Copper	OR	1055	10014605
Iron	OR	1070	10014605
Lead	OR	1075	10014605
Manganese	OR	1090	10014605
Molybdenum	OR	1100	10014605
Nickel	OR	1105	10014605
Selenium	OR	1140	10014605
Silver	OR	1150	10014605
Thallium	OR	1165	10014605

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Tin	OR	1175	10014605
Titanium	OR	1180	10014605
Vanadium	OR	1185	10014605
Zinc	OR	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	10053006
Fluoride	OR	1730	10053006
Nitrate as N	OR	1810	10053006
Nitrate-nitrite	OR	1820	10053006
Nitrite as N	OR	1840	10053006
Orthophosphate as P	OR	1870	10053006
Sulfate	OR	2000	10053006

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	OR	1540	10053608

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	OR	1515	10063408

Method EPA 351.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Kjeldahl nitrogen - total (TKN)	OR	1795	10065200

Method EPA 365.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10069804
Phosphorus	OR	1910	10069804

Method EPA 365.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10070801
Phosphorus	OR	1910	10070801

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: ***Non-Potable Water***

Method EPA 410.4

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	OR	1565	10077200

Method EPA 420.1

Analyte	AB	Analyte ID	Method ID
Total phenolics	OR	1905	10079400

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204

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Matrix: ***Non-Potable Water***

Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204
Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606

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Matrix: ***Non-Potable Water***

Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606
Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000

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Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000
Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802

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Matrix: *Non-Potable Water*

1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802
1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802

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Matrix: *Non-Potable Water*

4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802
Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromochloropropane	OR	4580	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802

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Matrix: *Non-Potable Water*

Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802
Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	OR	4770	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802

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Matrix: ***Non-Potable Water***

Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802
T-amylmethylether (TAME)	OR	4370	10184802
tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805

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Matrix: *Non-Potable Water*

1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805
2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805

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Matrix: *Non-Potable Water*

4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805
4-Dimethyl aminoazobenzene	OR	6105	10185805
4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805

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Matrix: *Non-Potable Water*

bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805
Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805

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Matrix: ***Non-Potable Water***

Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805
n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method SM 2130 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Turbidity	OR	2055	20042200

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Alkalinity as CaCO3	OR	1505	20045005
Method SM 2340 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20046008
Method SM 2340 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20047001
Method SM 2510 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	OR	1610	20048004
Method SM 2540 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	OR	1950	20004608
Method SM 2540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	OR	1955	20049803
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	OR	1960	20004802
Method SM 2540 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	OR	1965	20005009
Method SM 4500-Cl^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	20084804
Method SM 4500-F^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	20101808
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	20104603

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Issue Date: 8/1/2014

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-NH3 C	Ammonia as N	OR	1515	20023603
SM 4500-NH3 F	Ammonia as N	OR	1515	20023001
SM 4500-NH3 G	Ammonia as N	OR	1515	20023205
SM 4500-NO_2^- B	Nitrite as N	OR	1840	20024004
SM 4500-NO3 E	Nitrate as N	OR	1810	20114209
	Nitrate-nitrite	OR	1820	20114209
	Nitrite as N	OR	1840	20114209
SM 4500-O G	Oxygen, dissolved	OR	1880	20025405
SM 4500-P E	Orthophosphate as P	OR	1870	20025803
SM 4500-$S2^-$ D	Sulfide	OR	2005	20125400
SM 4500-$SO3^-$ B	Sulfite	OR	2015	20026806
SM 5210 B	Biochemical oxygen demand (BOD)	OR	1530	20027401

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Matrix: ***Non-Potable Water***

Carbonaceous BOD, CBOD	OR	1555	20027401
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	OR	1565	20027809
Method SM 5310 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20137206
Method SM 5310 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20139202
Method SM 5520 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	20028802
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	20028802
Method SM 5540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	OR	2025	20144405
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	OR	849	10118806

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204
Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204

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Matrix: ***Solid & Chemical Materials***

Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606
Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606

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Matrix: *Solid & Chemical Materials*

Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000
Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000

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Matrix: ***Solid & Chemical Materials***

Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802
1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802

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Matrix: *Solid & Chemical Materials*

1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802
4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802

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Matrix: *Solid & Chemical Materials*

Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802
Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802

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Matrix: *Solid & Chemical Materials*

Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methanol	OR	4930	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802
Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802

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Matrix: ***Solid & Chemical Materials***

tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805
1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805

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Matrix: ***Solid & Chemical Materials***

2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805
4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805

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Matrix: *Solid & Chemical Materials*

4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805

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Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachlorocyclopentadiene	OR	6285	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805
Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	OR	1615	10198400
pH	OR	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	10199209

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
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Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT B

DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

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WORK ORDER NUMBER: 14-11-1242

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cook-Joyce Inc.

Client Project Name: Grand Park / 13046.01

Attention: Richard Varnell
812 West 11th Street
Austin, TX 78701-2053

Approved for release on 12/02/2014 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-11-1242

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Work Order Narrative

Work Order: 14-11-1242 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/15/14. They were assigned to Work Order 14-11-1242.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 14-11-1242
Project Name: Grand Park / 13046.01
PO Number:
Date/Time Received: 11/15/14 09:00
Number of Containers: 113

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
7F-f (1-1.5')	14-11-1242-1	11/13/14 08:52	1	Solid
7F-f (1.5-2')	14-11-1242-2	11/13/14 08:53	1	Solid
8A-a (1-1.5')	14-11-1242-3	11/13/14 08:29	1	Solid
8A-a (1.5-2')	14-11-1242-4	11/13/14 08:30	1	Solid
8C-a (1-1.5')	14-11-1242-5	11/13/14 08:38	1	Solid
8C-a (1.5-2')	14-11-1242-6	11/13/14 08:39	1	Solid
8F-b (1-1.5')	14-11-1242-7	11/13/14 09:03	1	Solid
8F-b (1.5-2')	14-11-1242-8	11/13/14 09:04	1	Solid
8F-c (1-1.5')	14-11-1242-9	11/13/14 09:12	1	Solid
8F-c (1.5-2')	14-11-1242-10	11/13/14 09:13	1	Solid
8G-c (1-1.5')	14-11-1242-11	11/13/14 09:18	1	Solid
8G-c (1.5-2')	14-11-1242-12	11/13/14 09:19	1	Solid
9B-h (1-1.5')	14-11-1242-13	11/13/14 10:33	1	Solid
9B-h (1.5-2')	14-11-1242-14	11/13/14 10:34	1	Solid
9F-d (1-1.5')	14-11-1242-15	11/13/14 09:30	1	Solid
9F-d (1.5-2')	14-11-1242-16	11/13/14 09:31	1	Solid
9F-e (1-1.5')	14-11-1242-17	11/13/14 09:39	1	Solid
9F-e (1.5-2')	14-11-1242-18	11/13/14 09:40	1	Solid
10C-e (1-1.5')	14-11-1242-19	11/13/14 10:40	1	Solid
10C-e (1.5-2')	14-11-1242-20	11/13/14 10:41	1	Solid
10E-c (1-1.5')	14-11-1242-21	11/13/14 10:20	1	Solid
10E-c (1.5-2')	14-11-1242-22	11/13/14 10:21	1	Solid
10F-e (1-1.5')	14-11-1242-23	11/13/14 09:48	1	Solid
10F-e (1.5-2')	14-11-1242-24	11/13/14 09:49	1	Solid
10F-f	14-11-1242-25	11/13/14 10:07	1	Solid
10F-f (1-1.5')	14-11-1242-26	11/13/14 10:08	1	Solid
10F-f (1.5-2')	14-11-1242-27	11/13/14 10:09	1	Solid
10F-h (1-1.5')	14-11-1242-28	11/13/14 09:55	1	Solid
10F-h (1.5-2')	14-11-1242-29	11/13/14 09:56	1	Solid
11C-a (1-1.5')	14-11-1242-30	11/13/14 10:52	1	Solid
11C-a (1.5-2')	14-11-1242-31	11/13/14 10:53	1	Solid
11E-i (1-1.5')	14-11-1242-32	11/13/14 11:05	1	Solid
11E-i (1.5-2')	14-11-1242-33	11/13/14 11:06	1	Solid
12E-d (1-1.5')	14-11-1242-34	11/13/14 11:39	1	Solid
12E-d (1.5-2')	14-11-1242-35	11/13/14 11:40	1	Solid
12F-e (1-1.5')	14-11-1242-36	11/13/14 11:20	1	Solid
12F-e (1.5-2')	14-11-1242-37	11/13/14 11:21	1	Solid
13B-g (1-1.5')	14-11-1242-38	11/13/14 14:17	1	Solid
13B-g (1.5-2')	14-11-1242-39	11/13/14 14:18	1	Solid
13B-i (1-1.5')	14-11-1242-40	11/13/14 14:10	1	Solid
13B-i (1.5-2')	14-11-1242-41	11/13/14 14:11	1	Solid
13C-h (1-1.5')	14-11-1242-42	11/13/14 13:35	1	Solid

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 14-11-1242
Project Name: Grand Park / 13046.01
PO Number:
Date/Time Received: 11/15/14 09:00
Number of Containers: 113

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
13C-h (1.5-2')	14-11-1242-43	11/13/14 13:36	1	Solid
13D-c (1-1.5')	14-11-1242-44	11/13/14 11:45	1	Solid
13D-c (1.5-2')	14-11-1242-45	11/13/14 11:46	1	Solid
13D-h (1-1.5')	14-11-1242-46	11/13/14 13:27	1	Solid
13D-h (1.5-2')	14-11-1242-47	11/13/14 13:28	1	Solid
13E-h (1-1.5')	14-11-1242-48	11/13/14 11:52	1	Solid
13E-h (1.5-2')	14-11-1242-49	11/13/14 11:53	1	Solid
13F-d (1-1.5')	14-11-1242-50	11/13/14 11:29	1	Solid
13F-d (1.5-2')	14-11-1242-51	11/13/14 11:30	1	Solid
14B-a (1-1.5')	14-11-1242-52	11/13/14 14:21	1	Solid
14B-a (1.5-2')	14-11-1242-53	11/13/14 14:22	1	Solid
14B-g (1-1.5')	14-11-1242-54	11/13/14 14:25	1	Solid
14B-g (1.5-2')	14-11-1242-55	11/13/14 14:26	1	Solid
14C-a (1-1.5')	14-11-1242-56	11/13/14 13:52	1	Solid
14C-a (1.5-2')	14-11-1242-57	11/13/14 13:53	1	Solid
14C-b (1-1.5')	14-11-1242-58	11/13/14 13:47	1	Solid
14C-b (1.5-2')	14-11-1242-59	11/13/14 13:48	1	Solid
14C-c (1-1.5')	14-11-1242-60	11/13/14 13:43	1	Solid
14C-c (1.5-2')	14-11-1242-61	11/13/14 13:44	1	Solid
14C-d (1-1.5')	14-11-1242-62	11/13/14 13:56	1	Solid
14C-d (1.5-2')	14-11-1242-63	11/13/14 13:57	1	Solid
14C-e (1-1.5')	14-11-1242-64	11/13/14 13:58	1	Solid
14C-e (1.5-2')	14-11-1242-65	11/13/14 13:59	1	Solid
14C-f (1-1.5')	14-11-1242-66	11/13/14 14:04	1	Solid
14C-f (1.5-2')	14-11-1242-67	11/13/14 14:05	1	Solid
14E-c (1-1.5')	14-11-1242-68	11/13/14 12:00	1	Solid
14E-c (1.5-2')	14-11-1242-69	11/13/14 12:01	1	Solid
14E-d (1-1.5')	14-11-1242-70	11/13/14 12:23	1	Solid
14E-d (1.5-2')	14-11-1242-71	11/13/14 12:24	1	Solid
14E-i (1-1.5')	14-11-1242-72	11/13/14 12:08	1	Solid
14E-i (1.5-2')	14-11-1242-73	11/13/14 12:09	1	Solid
15B-f (1-1.5')	14-11-1242-74	11/13/14 14:41	1	Solid
15B-f (1.5-2')	14-11-1242-75	11/13/14 14:42	1	Solid
15B-i (1-1.5')	14-11-1242-76	11/13/14 15:06	1	Solid
15B-i (1.5-2')	14-11-1242-77	11/13/14 15:07	1	Solid
15C-a (1-1.5')	14-11-1242-78	11/13/14 14:34	1	Solid
15C-a (1.5-2')	14-11-1242-79	11/13/14 14:35	1	Solid
15C-d (1-1.5')	14-11-1242-80	11/13/14 14:47	1	Solid
15C-d (1.5-2')	14-11-1242-81	11/13/14 14:48	1	Solid
15C-e (1-1.5')	14-11-1242-82	11/13/14 14:53	1	Solid
15C-e (1.5-2')	14-11-1242-83	11/13/14 14:54	1	Solid
15C-h (1-1.5')	14-11-1242-84	11/13/14 15:00	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	14-11-1242
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	11/15/14 09:00
		Number of Containers:	113
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
15C-h (1.5-2')	14-11-1242-85	11/13/14 15:01	1	Solid
15D-a (1-1.5')	14-11-1242-86	11/13/14 15:29	1	Solid
15D-a (1.5-2')	14-11-1242-87	11/13/14 15:30	1	Solid
15D-f (1-1.5')	14-11-1242-88	11/13/14 15:22	1	Solid
15D-f (1.5-2')	14-11-1242-89	11/13/14 15:23	1	Solid
15D-g (1-1.5')	14-11-1242-90	11/13/14 15:15	1	Solid
15D-g (1.5-2')	14-11-1242-91	11/13/14 15:16	1	Solid
15F-a (1-1.5')	14-11-1242-92	11/13/14 12:16	1	Solid
15F-a (1.5-2')	14-11-1242-93	11/13/14 12:17	1	Solid
16B-a (1-1.5')	14-11-1242-94	11/13/14 15:38	1	Solid
16B-a (1.5-2')	14-11-1242-95	11/13/14 15:39	1	Solid
16B-b (1-1.5')	14-11-1242-96	11/13/14 15:49	1	Solid
16B-b (1.5-2')	14-11-1242-97	11/13/14 15:50	1	Solid
16B-c (1-1.5')	14-11-1242-98	11/13/14 15:56	1	Solid
16B-c (1.5-2')	14-11-1242-99	11/13/14 15:57	1	Solid
16C-a (1-1.5')	14-11-1242-100	11/13/14 16:04	1	Solid
16C-a (1.5-2')	14-11-1242-101	11/13/14 16:05	1	Solid
17C-c (1-1.5')	14-11-1242-102	11/13/14 16:23	1	Solid
17C-c (1.5-2')	14-11-1242-103	11/13/14 16:24	1	Solid
17C-i (1-1.5')	14-11-1242-104	11/13/14 16:28	1	Solid
17C-i (1.5-2')	14-11-1242-105	11/13/14 16:29	1	Solid
141113 DUP-1	14-11-1242-106	11/13/14 12:00	1	Solid
141113 DUP-2	14-11-1242-107	11/13/14 12:00	1	Solid
141113 DUP-3	14-11-1242-108	11/13/14 12:00	1	Solid
141113 DUP-4	14-11-1242-109	11/13/14 12:00	1	Solid
141113 DUP-5	14-11-1242-110	11/13/14 12:00	1	Solid
141113 DUP-6	14-11-1242-111	11/13/14 12:00	1	Solid
DIESEL AST 2 (1-1.5')	14-11-1242-112	11/13/14 16:11	1	Solid
DIESEL AST 2 (1.5-2')	14-11-1242-113	11/13/14 16:12	1	Solid

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QC Association Summary

Work Order: 14-11-1242 Page 1 of 3

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
7F-f (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
7F-f (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
8A-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
8A-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
8C-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
8C-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
8F-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
8F-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
8F-b (1-1.5')	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 41	141119S12	141119L12
8F-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
8F-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
8G-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
8G-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
9B-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
9B-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
9F-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
9F-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
9F-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
9F-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
10C-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
10C-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
10E-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
10E-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
10E-c (1-1.5')	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 41	141118S12	141118L12
10E-c (1-1.5')	TX 1005 TPH Soil		TX 1005	GC 50	141118S03	141118L03
10F-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
10F-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
10F-e (1-1.5')	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 41	141118S12	141118L12
10F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1201MOID2	E1201MOIB2
10F-f	EPA 8151A Chlorinated Herbicides		EPA 8151A	GC 40		141121L18A
10F-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
10F-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
11C-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
11C-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
11E-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
11E-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
12E-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
12E-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
12F-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
12F-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
13B-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
13B-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
13B-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
13B-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01
13C-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID4	E1119MOIB4
13C-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S01	141119L01

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
13D-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
13D-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
13D-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
13D-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
13E-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
13E-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
13F-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
13F-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14B-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14B-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14B-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14B-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14C-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14C-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14C-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14C-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14C-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14C-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14C-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14C-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14C-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14C-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14C-f (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14C-f (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14E-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14E-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14E-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14E-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
14E-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
14E-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
15B-f (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
15B-f (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
15B-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
15B-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
15C-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
15C-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
15C-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
15C-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
15C-e (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID5	E1119MOIB5
15C-e (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S02	141119L02
15C-h (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
15C-h (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
15D-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
15D-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
15D-f (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
15D-f (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
15D-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
15D-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
15F-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
15F-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
16B-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
16B-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
16B-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
16B-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
16B-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
16B-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
16C-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
16C-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
17C-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
17C-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
17C-i (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
17C-i (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
141113 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
141113 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
141113 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
141113 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
141113 DUP-5	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
141113 DUP-5	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141119S03	141119L03
DIESEL AST 2 (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1119MOID6	E1119MOIB6
DIESEL AST 2 (1-1.5')	EPA 8270C SIM PAHs		EPA 3545	GC/MS AAA	141118S07	141118L07
DIESEL AST 2 (1-1.5')	TX 1005 TPH Soil		TX 1005	GC 50		141118L03

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-f (1-1.5')	**14-11-1242-1-A**	**11/13/14 08:52**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8A-a (1-1.5')	**14-11-1242-3-A**	**11/13/14 08:29**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8C-a (1-1.5')	**14-11-1242-5-A**	**11/13/14 08:38**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b (1-1.5')	**14-11-1242-7-A**	**11/13/14 09:03**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-c (1-1.5')	**14-11-1242-9-A**	**11/13/14 09:12**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-c (1-1.5')	**14-11-1242-11-A**	**11/13/14 09:18**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.6	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-h (1-1.5')	**14-11-1242-13-A**	**11/13/14 10:33**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-d (1-1.5')	**14-11-1242-15-A**	**11/13/14 09:30**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-e (1-1.5')	**14-11-1242-17-A**	**11/13/14 09:39**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-e (1-1.5')	**14-11-1242-19-A**	**11/13/14 10:40**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c (1-1.5')	**14-11-1242-21-A**	**11/13/14 10:20**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e (1-1.5')	**14-11-1242-23-A**	**11/13/14 09:48**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.4	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 3 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-f	**14-11-1242-25-A**	**11/13/14 10:07**	**Solid**	**N/A**	**12/01/14**	**12/01/14 18:15**	**E1201MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.9	0.100	0.100	0.100	0.100	1.00	BU

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-h (1-1.5')	**14-11-1242-28-A**	**11/13/14 09:55**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-a (1-1.5')	**14-11-1242-30-A**	**11/13/14 10:52**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-i (1-1.5')	**14-11-1242-32-A**	**11/13/14 11:05**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-d (1-1.5')	**14-11-1242-34-A**	**11/13/14 11:39**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-e (1-1.5')	**14-11-1242-36-A**	**11/13/14 11:20**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.6	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-g (1-1.5')	**14-11-1242-38-A**	**11/13/14 14:17**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-i (1-1.5')	**14-11-1242-40-A**	**11/13/14 14:10**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-h (1-1.5')	**14-11-1242-42-A**	**11/13/14 13:35**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-c (1-1.5')	**14-11-1242-44-A**	**11/13/14 11:45**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-h (1-1.5')	**14-11-1242-46-A**	**11/13/14 13:27**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.50	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-h (1-1.5')	**14-11-1242-48-A**	**11/13/14 11:52**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-d (1-1.5')	**14-11-1242-50-A**	**11/13/14 11:29**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14B-a (1-1.5')	**14-11-1242-52-A**	**11/13/14 14:21**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14B-g (1-1.5')	**14-11-1242-54-A**	**11/13/14 14:25**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-a (1-1.5')	**14-11-1242-56-A**	**11/13/14 13:52**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-b (1-1.5')	**14-11-1242-58-A**	**11/13/14 13:47**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-c (1-1.5')	**14-11-1242-60-A**	**11/13/14 13:43**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	10.8	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-d (1-1.5')	**14-11-1242-62-A**	**11/13/14 13:56**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-e (1-1.5')	**14-11-1242-64-A**	**11/13/14 13:58**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.70	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-f (1-1.5')	**14-11-1242-66-A**	**11/13/14 14:04**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14E-c (1-1.5')	**14-11-1242-68-A**	**11/13/14 12:00**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14E-d (1-1.5')	**14-11-1242-70-A**	**11/13/14 12:23**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14E-i (1-1.5')	**14-11-1242-72-A**	**11/13/14 12:08**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.0	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15B-f (1-1.5')	**14-11-1242-74-A**	**11/13/14 14:41**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15B-i (1-1.5')	**14-11-1242-76-A**	**11/13/14 15:06**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-a (1-1.5')	**14-11-1242-78-A**	**11/13/14 14:34**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.60	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-d (1-1.5')	**14-11-1242-80-A**	**11/13/14 14:47**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-e (1-1.5')	**14-11-1242-82-A**	**11/13/14 14:53**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-h (1-1.5')	**14-11-1242-84-A**	**11/13/14 15:00**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	9.10	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15D-a (1-1.5')	**14-11-1242-86-A**	**11/13/14 15:29**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15D-f (1-1.5')	**14-11-1242-88-A**	**11/13/14 15:22**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15D-g (1-1.5')	**14-11-1242-90-A**	**11/13/14 15:15**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15F-a (1-1.5')	**14-11-1242-92-A**	**11/13/14 12:16**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16B-a (1-1.5')	**14-11-1242-94-A**	**11/13/14 15:38**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16B-b (1-1.5')	**14-11-1242-96-A**	**11/13/14 15:49**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.4	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16B-c (1-1.5')	**14-11-1242-98-A**	**11/13/14 15:56**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16C-a (1-1.5')	**14-11-1242-100-A**	**11/13/14 16:04**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17C-c (1-1.5')	**14-11-1242-102-A**	**11/13/14 16:23**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	14.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17C-i (1-1.5')	**14-11-1242-104-A**	**11/13/14 16:28**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141113 DUP-1	**14-11-1242-106-A**	**11/13/14 12:00**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	16.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141113 DUP-3	**14-11-1242-108-A**	**11/13/14 12:00**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.1	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141113 DUP-5	**14-11-1242-110-A**	**11/13/14 12:00**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIESEL AST 2 (1-1.5')	**14-11-1242-112-A**	**11/13/14 16:11**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5035**	**N/A**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:10**	**E1119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5036**	**N/A**	**Solid**	**N/A**	**11/19/14**	**11/19/14 17:40**	**E1119MOIB5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5037**	**N/A**	**Solid**	**N/A**	**11/19/14**	**11/19/14 18:10**	**E1119MOIB6**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5047**	**N/A**	**Solid**	**N/A**	**12/01/14**	**12/01/14 18:15**	**E1201MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: TX 1005
Method: TX 1005
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c (1-1.5')	**14-11-1242-21-A**	**11/13/14 10:20**	**Solid**	**GC 50**	**11/18/14**	**11/19/14 13:55**	**141118L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	59	5.8	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	59	5.8	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	ND	59	5.8	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	100	70-130	
1-Chlorooctadecane	90	70-130	

DIESEL AST 2 (1-1.5')	**14-11-1242-112-A**	**11/13/14 16:11**	**Solid**	**GC 50**	**11/18/14**	**11/19/14 14:14**	**141118L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	61	6.0	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	61	6.0	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	ND	61	6.0	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	86	70-130	
1-Chlorooctadecane	78	70-130	

Method Blank	**099-15-204-66**	**N/A**	**Solid**	**GC 50**	**11/18/14**	**11/19/14 11:42**	**141118L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
TPH Gas/Diesel (C6-C12)	ND	50	4.9	50	4.9	1.00	
TPH Gas/Diesel (C12-C28)	ND	50	4.9	50	4.9	1.00	
TPH Gas/Diesel (C28-C35)	ND	50	4.9	50	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1-Chlorooctane	86	70-130	
1-Chlorooctadecane	80	70-130	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7F-f (1-1.5')	**14-11-1242-1-A**	**11/13/14 08:52**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:59**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	ND	1.20	0.316	1.00	0.264	1.00	

8A-a (1-1.5')	**14-11-1242-3-A**	**11/13/14 08:29**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:42**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.569	1.16	0.307	1.00	0.264	1.00	J

8C-a (1-1.5')	**14-11-1242-5-A**	**11/13/14 08:38**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:44**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	11.0	1.22	0.167	1.00	0.137	1.00	

8F-b (1-1.5')	**14-11-1242-7-A**	**11/13/14 09:03**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:46**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.483	1.29	0.155	1.00	0.120	1.00	J
Lead	17.0	1.29	0.177	1.00	0.137	1.00	

8F-c (1-1.5')	**14-11-1242-9-A**	**11/13/14 09:12**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:48**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.496	1.18	0.141	1.00	0.120	1.00	J
Lead	16.7	1.18	0.161	1.00	0.137	1.00	
Selenium	ND	1.18	0.311	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8G-c (1-1.5')	**14-11-1242-11-A**	**11/13/14 09:18**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:50**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.8	1.17	0.161	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9B-h (1-1.5')	**14-11-1242-13-A**	**11/13/14 10:33**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:52**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	14.0	1.22	0.167	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-d (1-1.5')	**14-11-1242-15-A**	**11/13/14 09:30**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:54**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.6	1.19	0.163	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-e (1-1.5')	**14-11-1242-17-A**	**11/13/14 09:39**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:02**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.612	1.18	0.142	1.00	0.120	1.00	J
Lead	26.9	1.18	0.162	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10C-e (1-1.5')	**14-11-1242-19-A**	**11/13/14 10:40**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:04**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.9	1.18	0.161	1.00	0.137	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c (1-1.5')	**14-11-1242-21-A**	**11/13/14 10:20**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:42**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.513	1.19	0.142	1.00	0.120	1.00	J
Lead	15.1	1.19	0.163	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e (1-1.5')	**14-11-1242-23-A**	**11/13/14 09:48**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:44**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	1.12	1.14	0.137	1.00	0.120	1.00	J
Lead	17.0	1.14	0.157	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-h (1-1.5')	**14-11-1242-28-A**	**11/13/14 09:55**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:46**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	9.16	1.14	0.157	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-a (1-1.5')	**14-11-1242-30-A**	**11/13/14 10:52**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:48**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.05	1.19	0.463	1.00	0.389	1.00	
Cadmium	0.426	1.19	0.143	1.00	0.120	1.00	J
Lead	13.4	1.19	0.163	1.00	0.137	1.00	
Selenium	1.84	1.19	0.314	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11E-i (1-1.5')	**14-11-1242-32-A**	**11/13/14 11:05**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:50**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	7.23	1.09	0.150	1.00	0.137	1.00	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12E-d (1-1.5')	**14-11-1242-34-A**	**11/13/14 11:39**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:52**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.31	1.24	0.484	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-e (1-1.5')	**14-11-1242-36-A**	**11/13/14 11:20**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:54**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	11.6	1.16	0.159	1.00	0.137	1.00	
Selenium	1.24	1.16	0.306	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-g (1-1.5')	**14-11-1242-38-A**	**11/13/14 14:17**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:56**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.73	1.25	0.487	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13B-i (1-1.5')	**14-11-1242-40-A**	**11/13/14 14:10**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 03:58**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.62	1.20	0.467	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13C-h (1-1.5')	**14-11-1242-42-A**	**11/13/14 13:35**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:00**	**141119L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.92	1.21	0.470	1.00	0.389	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-c (1-1.5')	**14-11-1242-44-A**	**11/13/14 11:45**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:38**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.58	1.18	0.457	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13D-h (1-1.5')	**14-11-1242-46-A**	**11/13/14 13:27**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:08**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.24	1.10	0.430	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13E-h (1-1.5')	**14-11-1242-48-A**	**11/13/14 11:52**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:10**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.6	1.20	0.165	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-d (1-1.5')	**14-11-1242-50-A**	**11/13/14 11:29**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:12**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	14.6	1.16	0.159	1.00	0.137	1.00	
Selenium	1.47	1.16	0.306	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14B-a (1-1.5')	**14-11-1242-52-A**	**11/13/14 14:21**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:14**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.94	1.20	0.466	1.00	0.389	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 6 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14B-g (1-1.5')	**14-11-1242-54-A**	**11/13/14 14:25**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:16**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.52	1.14	0.444	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-a (1-1.5')	**14-11-1242-56-A**	**11/13/14 13:52**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:18**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.07	1.24	0.482	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-b (1-1.5')	**14-11-1242-58-A**	**11/13/14 13:47**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:20**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.63	1.13	0.441	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-c (1-1.5')	**14-11-1242-60-A**	**11/13/14 13:43**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:22**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.82	1.12	0.436	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-d (1-1.5')	**14-11-1242-62-A**	**11/13/14 13:56**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:23**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.99	1.18	0.458	1.00	0.389	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-e (1-1.5')	**14-11-1242-64-A**	**11/13/14 13:58**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/22/14 04:25**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.18	1.11	0.431	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14C-f (1-1.5')	**14-11-1242-66-A**	**11/13/14 14:04**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:06**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.68	1.11	0.431	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14E-c (1-1.5')	**14-11-1242-68-A**	**11/13/14 12:00**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:07**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.16	0.452	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14E-d (1-1.5')	**14-11-1242-70-A**	**11/13/14 12:23**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:09**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	22.7	1.23	0.478	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14E-i (1-1.5')	**14-11-1242-72-A**	**11/13/14 12:08**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:11**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.6	1.20	0.469	1.00	0.389	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15B-f (1-1.5')	**14-11-1242-74-A**	**11/13/14 14:41**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:13**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.15	1.15	0.447	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15B-i (1-1.5')	**14-11-1242-76-A**	**11/13/14 15:06**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:15**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.08	1.11	0.431	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-a (1-1.5')	**14-11-1242-78-A**	**11/13/14 14:34**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:17**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.0	1.11	0.431	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-d (1-1.5')	**14-11-1242-80-A**	**11/13/14 14:47**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:19**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.15	0.446	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-e (1-1.5')	**14-11-1242-82-A**	**11/13/14 14:53**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:45**	**141119L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.9	1.14	0.445	1.00	0.389	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 9 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15C-h (1-1.5')	**14-11-1242-84-A**	**11/13/14 15:00**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:40**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.73	1.10	0.428	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15D-a (1-1.5')	**14-11-1242-86-A**	**11/13/14 15:29**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:47**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.38	1.13	0.438	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15D-f (1-1.5')	**14-11-1242-88-A**	**11/13/14 15:22**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:49**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	8.29	1.15	0.448	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15D-g (1-1.5')	**14-11-1242-90-A**	**11/13/14 15:15**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:51**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	9.08	1.14	0.443	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15F-a (1-1.5')	**14-11-1242-92-A**	**11/13/14 12:16**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:53**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	5.08	1.23	0.479	1.00	0.389	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: Grand Park / 13046.01

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16B-a (1-1.5')	**14-11-1242-94-A**	**11/13/14 15:38**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:55**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.18	0.459	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16B-b (1-1.5')	**14-11-1242-96-A**	**11/13/14 15:49**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:57**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.14	0.444	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16B-c (1-1.5')	**14-11-1242-98-A**	**11/13/14 15:56**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 17:59**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.5	1.16	0.451	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16C-a (1-1.5')	**14-11-1242-100-A**	**11/13/14 16:04**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 18:01**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.16	0.452	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17C-c (1-1.5')	**14-11-1242-102-A**	**11/13/14 16:23**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 18:03**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.61	1.17	0.455	1.00	0.389	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17C-i (1-1.5')	**14-11-1242-104-A**	**11/13/14 16:28**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 18:11**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	6.27	1.15	0.448	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141113 DUP-1	**14-11-1242-106-A**	**11/13/14 12:00**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 18:13**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.39	1.19	0.465	1.00	0.389	1.00	
Cadmium	0.554	1.19	0.143	1.00	0.120	1.00	J
Lead	13.6	1.19	0.164	1.00	0.137	1.00	
Selenium	ND	1.19	0.315	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141113 DUP-3	**14-11-1242-108-A**	**11/13/14 12:00**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 18:15**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.1	1.18	0.459	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
141113 DUP-5	**14-11-1242-110-A**	**11/13/14 12:00**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 18:17**	**141119L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	7.30	1.16	0.452	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-775**	**N/A**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:17**	**141119L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-776**	**N/A**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:19**	**141119L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-777**	**N/A**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:21**	**141119L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8F-b (1-1.5')	**14-11-1242-7-A**	**11/13/14 09:03**	**Solid**	**GC 41**	**11/19/14**	**11/20/14 17:43**	**141119L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	6.5	2.0	5.0	1.6	1.00	
Alpha-BHC	ND	6.5	2.1	5.0	1.6	1.00	
Beta-BHC	ND	6.5	1.7	5.0	1.3	1.00	
Chlordane	64	65	21	50	16	1.00	J
4,4'-DDD	ND	6.5	2.1	5.0	1.6	1.00	
4,4'-DDE	6.9	6.5	1.9	5.0	1.5	1.00	
4,4'-DDT	ND	6.5	2.2	5.0	1.7	1.00	
Delta-BHC	ND	6.5	1.7	5.0	1.3	1.00	
Dieldrin	16	6.5	2.1	5.0	1.6	1.00	
Endosulfan I	ND	6.5	1.7	5.0	1.3	1.00	
Endosulfan II	ND	6.5	1.8	5.0	1.4	1.00	
Endosulfan Sulfate	ND	6.5	2.2	5.0	1.7	1.00	
Endrin	ND	6.5	2.3	5.0	1.8	1.00	
Endrin Aldehyde	ND	6.5	1.6	5.0	1.2	1.00	
Gamma-BHC	ND	6.5	2.2	5.0	1.7	1.00	
Heptachlor	ND	6.5	2.1	5.0	1.6	1.00	
Heptachlor Epoxide	ND	6.5	2.3	5.0	1.8	1.00	
Methoxychlor	ND	6.5	2.1	5.0	1.6	1.00	
Toxaphene	ND	130	41	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	70	24-168	
2,4,5,6-Tetrachloro-m-Xylene	50	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10E-c (1-1.5')	**14-11-1242-21-A**	**11/13/14 10:20**	**Solid**	**GC 41**	**11/18/14**	**11/19/14 15:01**	**141118L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	6.0	1.9	5.0	1.6	1.00	
Alpha-BHC	ND	6.0	1.9	5.0	1.6	1.00	
Beta-BHC	ND	6.0	1.6	5.0	1.3	1.00	
Chlordane	ND	60	19	50	16	1.00	
4,4'-DDD	ND	6.0	1.9	5.0	1.6	1.00	
4,4'-DDE	ND	6.0	1.8	5.0	1.5	1.00	
4,4'-DDT	ND	6.0	2.0	5.0	1.7	1.00	
Delta-BHC	ND	6.0	1.5	5.0	1.3	1.00	
Dieldrin	ND	6.0	2.0	5.0	1.6	1.00	
Endosulfan I	ND	6.0	1.6	5.0	1.3	1.00	
Endosulfan II	ND	6.0	1.7	5.0	1.4	1.00	
Endosulfan Sulfate	ND	6.0	2.0	5.0	1.7	1.00	
Endrin	ND	6.0	2.1	5.0	1.8	1.00	
Endrin Aldehyde	ND	6.0	1.5	5.0	1.2	1.00	
Gamma-BHC	ND	6.0	2.1	5.0	1.7	1.00	
Heptachlor	ND	6.0	1.9	5.0	1.6	1.00	
Heptachlor Epoxide	ND	6.0	2.1	5.0	1.8	1.00	
Methoxychlor	ND	6.0	1.9	5.0	1.6	1.00	
Toxaphene	ND	120	38	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	78	24-168	
2,4,5,6-Tetrachloro-m-Xylene	57	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e (1-1.5')	**14-11-1242-23-A**	**11/13/14 09:48**	**Solid**	**GC 41**	**11/18/14**	**11/19/14 15:16**	**141118L12**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.7	1.8	5.0	1.6	1.00	
Alpha-BHC	ND	5.7	1.8	5.0	1.6	1.00	
Beta-BHC	ND	5.7	1.5	5.0	1.3	1.00	
Chlordane	ND	57	19	50	16	1.00	
4,4'-DDD	ND	5.7	1.8	5.0	1.6	1.00	
4,4'-DDE	1.8	5.7	1.7	5.0	1.5	1.00	J
4,4'-DDT	ND	5.7	1.9	5.0	1.7	1.00	
Delta-BHC	ND	5.7	1.5	5.0	1.3	1.00	
Dieldrin	ND	5.7	1.9	5.0	1.6	1.00	
Endosulfan I	ND	5.7	1.5	5.0	1.3	1.00	
Endosulfan II	ND	5.7	1.6	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.7	1.9	5.0	1.7	1.00	
Endrin	ND	5.7	2.0	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.7	1.4	5.0	1.2	1.00	
Gamma-BHC	ND	5.7	2.0	5.0	1.7	1.00	
Heptachlor	ND	5.7	1.8	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.7	2.0	5.0	1.8	1.00	
Methoxychlor	ND	5.7	1.9	5.0	1.6	1.00	
Toxaphene	ND	110	36	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	63	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-1904**	**N/A**	**Solid**	**GC 41**	**11/18/14**	**11/19/14 11:44**	**141118L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.0	1.6	5.0	1.6	1.00	
Alpha-BHC	ND	5.0	1.6	5.0	1.6	1.00	
Beta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Chlordane	ND	50	16	50	16	1.00	
4,4'-DDD	ND	5.0	1.6	5.0	1.6	1.00	
4,4'-DDE	ND	5.0	1.5	5.0	1.5	1.00	
4,4'-DDT	ND	5.0	1.7	5.0	1.7	1.00	
Delta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Dieldrin	ND	5.0	1.6	5.0	1.6	1.00	
Endosulfan I	ND	5.0	1.3	5.0	1.3	1.00	
Endosulfan II	ND	5.0	1.4	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.0	1.7	5.0	1.7	1.00	
Endrin	ND	5.0	1.8	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.0	1.2	5.0	1.2	1.00	
Gamma-BHC	ND	5.0	1.7	5.0	1.7	1.00	
Heptachlor	ND	5.0	1.6	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.0	1.8	5.0	1.8	1.00	
Methoxychlor	ND	5.0	1.6	5.0	1.6	1.00	
Toxaphene	ND	100	32	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	120	24-168	
2,4,5,6-Tetrachloro-m-Xylene	107	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Grand Park / 13046.01			Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-1908**	**N/A**	**Solid**	**GC 41**	**11/19/14**	**11/20/14 11:38**	**141119L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.0	1.6	5.0	1.6	1.00	
Alpha-BHC	ND	5.0	1.6	5.0	1.6	1.00	
Beta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Chlordane	ND	50	16	50	16	1.00	
4,4'-DDD	ND	5.0	1.6	5.0	1.6	1.00	
4,4'-DDE	ND	5.0	1.5	5.0	1.5	1.00	
4,4'-DDT	ND	5.0	1.7	5.0	1.7	1.00	
Delta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Dieldrin	ND	5.0	1.6	5.0	1.6	1.00	
Endosulfan I	ND	5.0	1.3	5.0	1.3	1.00	
Endosulfan II	ND	5.0	1.4	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.0	1.7	5.0	1.7	1.00	
Endrin	ND	5.0	1.8	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.0	1.2	5.0	1.2	1.00	
Gamma-BHC	ND	5.0	1.7	5.0	1.7	1.00	
Heptachlor	ND	5.0	1.6	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.0	1.8	5.0	1.8	1.00	
Methoxychlor	ND	5.0	1.6	5.0	1.6	1.00	
Toxaphene	ND	100	32	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	120	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-f	**14-11-1242-25-A**	**11/13/14 10:07**	**Solid**	**GC 40**	**11/21/14**	**11/24/14 17:22**	**141121L18A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	290	84	250	73	1.00	
Dicamba	ND	11	1.4	10	1.2	1.00	
MCPP	ND	11000	3600	10000	3200	1.00	
MCPA	ND	11000	2400	10000	2100	1.00	
Dichlorprop	ND	110	19	100	17	1.00	
2,4-D	ND	110	16	100	14	1.00	
2,4,5-TP (Silvex)	ND	11	2.7	10	2.3	1.00	
2,4,5-T	ND	11	1.3	10	1.1	1.00	
2,4-DB	ND	110	18	100	16	1.00	
Dinoseb	ND	57	5.8	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	75	30-150	

Method Blank	099-15-783-21	N/A	Solid	GC 40	11/21/14	11/24/14 16:59	141121L18A

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Dalapon	ND	250	73	250	73	1.00	
Dicamba	ND	10	1.2	10	1.2	1.00	
MCPP	ND	10000	3200	10000	3200	1.00	
MCPA	ND	10000	2100	10000	2100	1.00	
Dichlorprop	ND	100	17	100	17	1.00	
2,4-D	ND	100	14	100	14	1.00	
2,4,5-TP (Silvex)	ND	10	2.3	10	2.3	1.00	
2,4,5-T	ND	10	1.1	10	1.1	1.00	
2,4-DB	ND	100	16	100	16	1.00	
Dinoseb	ND	50	5.1	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	96	30-150	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIESEL AST 2 (1-1.5')	**14-11-1242-112-A**	**11/13/14 16:11**	**Solid**	**GC/MS AAA**	**11/18/14**	**11/19/14 14:42**	**141118L07**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Naphthalene	ND	0.024	0.0073	0.020	0.0060	1.00	
2-Methylnaphthalene	ND	0.024	0.0044	0.020	0.0036	1.00	
1-Methylnaphthalene	ND	0.024	0.0048	0.020	0.0040	1.00	
Acenaphthylene	ND	0.024	0.0037	0.020	0.0030	1.00	
Acenaphthene	ND	0.024	0.0044	0.020	0.0036	1.00	
Fluorene	ND	0.024	0.0036	0.020	0.0029	1.00	
Phenanthrene	ND	0.024	0.0024	0.020	0.0020	1.00	
Anthracene	ND	0.024	0.0020	0.020	0.0016	1.00	
Fluoranthene	ND	0.024	0.0024	0.020	0.0020	1.00	
Pyrene	ND	0.024	0.0024	0.020	0.0020	1.00	
Benzo (a) Anthracene	ND	0.024	0.0038	0.020	0.0031	1.00	
Chrysene	ND	0.024	0.0028	0.020	0.0023	1.00	
Benzo (k) Fluoranthene	ND	0.024	0.0034	0.020	0.0028	1.00	
Benzo (b) Fluoranthene	ND	0.024	0.0025	0.020	0.0020	1.00	
Benzo (a) Pyrene	ND	0.024	0.0025	0.020	0.0020	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.024	0.0026	0.020	0.0021	1.00	
Dibenz (a,h) Anthracene	ND	0.024	0.0025	0.020	0.0021	1.00	
Benzo (g,h,i) Perylene	ND	0.024	0.0023	0.020	0.0019	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	51	22-130	
Nitrobenzene-d5	44	20-145	
p-Terphenyl-d14	66	33-147	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-2257**	**N/A**	**Solid**	**GC/MS AAA**	**11/18/14**	**11/19/14 14:19**	**141118L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Naphthalene	ND	0.020	0.0060	0.020	0.0060	1.00	
2-Methylnaphthalene	ND	0.020	0.0036	0.020	0.0036	1.00	
1-Methylnaphthalene	ND	0.020	0.0040	0.020	0.0040	1.00	
Acenaphthylene	ND	0.020	0.0030	0.020	0.0030	1.00	
Acenaphthene	ND	0.020	0.0036	0.020	0.0036	1.00	
Fluorene	ND	0.020	0.0029	0.020	0.0029	1.00	
Phenanthrene	ND	0.020	0.0020	0.020	0.0020	1.00	
Anthracene	ND	0.020	0.0016	0.020	0.0016	1.00	
Fluoranthene	ND	0.020	0.0020	0.020	0.0020	1.00	
Pyrene	ND	0.020	0.0020	0.020	0.0020	1.00	
Benzo (a) Anthracene	ND	0.020	0.0031	0.020	0.0031	1.00	
Chrysene	ND	0.020	0.0023	0.020	0.0023	1.00	
Benzo (k) Fluoranthene	ND	0.020	0.0028	0.020	0.0028	1.00	
Benzo (b) Fluoranthene	ND	0.020	0.0020	0.020	0.0020	1.00	
Benzo (a) Pyrene	ND	0.020	0.0020	0.020	0.0020	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0021	0.020	0.0021	1.00	
Dibenz (a,h) Anthracene	ND	0.020	0.0021	0.020	0.0021	1.00	
Benzo (g,h,i) Perylene	ND	0.020	0.0019	0.020	0.0019	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	22-130	
Nitrobenzene-d5	55	20-145	
p-Terphenyl-d14	81	33-147	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: TX 1005
Method: TX 1005

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-0913-1	**Sample**	**Solid**	**GC 50**	**11/18/14**	**11/19/14 13:39**	**141118S03**
14-11-0913-1	**Matrix Spike**	**Solid**	**GC 50**	**11/18/14**	**11/19/14 11:59**	**141118S03**
14-11-0913-1	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**11/18/14**	**11/19/14 12:16**	**141118S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH Gas/Diesel (C6-C35) Total	120.0	400.0	495.0	94	499.0	95	75-125	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
7F-f (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:59**	**141119S01**
7F-f (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:29**	**141119S01**
7F-f (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:31**	**141119S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.784	25.00	32.82	108	32.06	105	72-132	2	0-13	
Cadmium	ND	25.00	24.99	100	24.64	99	85-121	1	0-12	
Lead	11.84	25.00	37.69	103	36.65	99	62-134	3	0-23	
Selenium	ND	25.00	27.98	112	26.93	108	54-132	4	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
13D-c (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:38**	**141119S02**
13D-c (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:41**	**141119S02**
13D-c (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:43**	**141119S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.596	25.00	28.34	91	28.48	92	72-132	0	0-13	
Lead	7.425	25.00	32.43	100	31.78	97	62-134	2	0-23	
Selenium	ND	25.00	20.81	83	20.98	84	54-132	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15C-h (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 16:40**	**141119S03**
15C-h (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:47**	**141119S03**
15C-h (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:49**	**141119S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.842	25.00	31.86	92	33.02	97	72-132	4	0-13	
Cadmium	ND	25.00	24.33	97	25.44	102	85-121	4	0-12	
Lead	8.812	25.00	33.50	99	35.99	109	62-134	7	0-23	
Selenium	ND	25.00	20.93	84	22.59	90	54-132	8	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Grand Park / 13046.01			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1354-17	**Sample**	**Solid**	**GC 41**	**11/18/14**	**11/19/14 13:15**	**141118S12**
14-11-1354-17	**Matrix Spike**	**Solid**	**GC 41**	**11/18/14**	**11/19/14 11:59**	**141118S12**
14-11-1354-17	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**11/18/14**	**11/19/14 12:14**	**141118S12**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.86	79	22.30	89	50-135	12	0-25	
Alpha-BHC	ND	25.00	20.24	81	19.69	79	50-135	3	0-25	
Beta-BHC	ND	25.00	18.06	72	18.32	73	50-135	1	0-25	
4,4'-DDD	ND	25.00	21.77	87	22.07	88	50-135	1	0-25	
4,4'-DDE	ND	25.00	23.24	93	22.83	91	50-135	2	0-25	
4,4'-DDT	ND	25.00	20.96	84	20.79	83	50-135	1	0-25	
Delta-BHC	ND	25.00	20.03	80	20.13	81	50-135	0	0-25	
Dieldrin	ND	25.00	19.81	79	19.98	80	50-135	1	0-25	
Endosulfan I	ND	25.00	18.61	74	18.76	75	50-135	1	0-25	
Endosulfan II	ND	25.00	19.76	79	19.85	79	50-135	0	0-25	
Endosulfan Sulfate	ND	25.00	20.20	81	20.22	81	50-135	0	0-25	
Endrin	ND	25.00	22.24	89	22.55	90	50-135	1	0-25	
Endrin Aldehyde	ND	25.00	17.91	72	17.72	71	50-135	1	0-25	
Gamma-BHC	ND	25.00	21.47	86	21.08	84	50-135	2	0-25	
Heptachlor	ND	25.00	20.48	82	21.21	85	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	19.12	76	19.12	76	50-135	0	0-25	
Methoxychlor	ND	25.00	20.22	81	20.90	84	50-135	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Grand Park / 13046.01			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1560-24	**Sample**	**Solid**	**GC 41**	**11/19/14**	**11/20/14 15:25**	**141119S12**
14-11-1560-24	**Matrix Spike**	**Solid**	**GC 41**	**11/19/14**	**11/20/14 17:13**	**141119S12**
14-11-1560-24	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**11/19/14**	**11/20/14 17:28**	**141119S12**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.18	77	19.03	76	50-135	1	0-25	
Alpha-BHC	ND	25.00	19.59	78	18.33	73	50-135	7	0-25	
Beta-BHC	ND	25.00	16.27	65	15.60	62	50-135	4	0-25	
4,4'-DDD	ND	25.00	18.63	75	17.15	69	50-135	8	0-25	
4,4'-DDE	ND	25.00	20.18	81	18.40	74	50-135	9	0-25	
4,4'-DDT	ND	25.00	18.59	74	16.74	67	50-135	10	0-25	
Delta-BHC	ND	25.00	19.10	76	17.91	72	50-135	6	0-25	
Dieldrin	ND	25.00	17.05	68	15.81	63	50-135	8	0-25	
Endosulfan I	ND	25.00	16.37	65	15.22	61	50-135	7	0-25	
Endosulfan II	ND	25.00	17.17	69	16.01	64	50-135	7	0-25	
Endosulfan Sulfate	ND	25.00	17.43	70	16.20	65	50-135	7	0-25	
Endrin	ND	25.00	19.86	79	18.57	74	50-135	7	0-25	
Endrin Aldehyde	ND	25.00	15.21	61	13.78	55	50-135	10	0-25	
Gamma-BHC	ND	25.00	19.97	80	18.62	74	50-135	7	0-25	
Heptachlor	ND	25.00	18.69	75	17.32	69	50-135	8	0-25	
Heptachlor Epoxide	ND	25.00	17.74	71	16.21	65	50-135	9	0-25	
Methoxychlor	ND	25.00	15.47	62	14.03	56	50-135	10	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: Grand Park / 13046.01			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
DIESEL AST 2 (1-1.5')	**Sample**	**Solid**	**GC/MS AAA**	**11/18/14**	**11/19/14 14:42**	**141118S07**
DIESEL AST 2 (1-1.5')	**Matrix Spike**	**Solid**	**GC/MS AAA**	**11/18/14**	**11/19/14 13:33**	**141118S07**
DIESEL AST 2 (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**11/18/14**	**11/19/14 13:56**	**141118S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.2000	0.1638	82	0.1536	77	20-150	6	0-33	
2-Methylnaphthalene	ND	0.2000	0.1683	84	0.1545	77	29-137	9	0-31	
1-Methylnaphthalene	ND	0.2000	0.1673	84	0.1557	78	34-136	7	0-29	
Acenaphthylene	ND	0.2000	0.1534	77	0.1316	66	29-131	15	0-32	
Acenaphthene	ND	0.2000	0.1543	77	0.1321	66	29-137	15	0-28	
Fluorene	ND	0.2000	0.1534	77	0.1365	68	36-132	12	0-27	
Phenanthrene	ND	0.2000	0.1361	68	0.1008	50	20-144	30	0-27	4
Anthracene	ND	0.2000	0.1399	70	0.1242	62	26-134	12	0-27	
Fluoranthene	ND	0.2000	0.1469	73	0.1323	66	20-151	10	0-26	
Pyrene	ND	0.2000	0.1427	71	0.1288	64	20-150	10	0-32	
Benzo (a) Anthracene	ND	0.2000	0.1441	72	0.1005	50	24-150	36	0-24	4
Chrysene	ND	0.2000	0.1430	71	0.1275	64	25-145	11	0-28	
Benzo (k) Fluoranthene	ND	0.2000	0.1501	75	0.1295	65	28-148	15	0-26	
Benzo (b) Fluoranthene	ND	0.2000	0.1346	67	0.1216	61	21-153	10	0-26	
Benzo (a) Pyrene	ND	0.2000	0.1341	67	0.1081	54	29-149	22	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.2000	0.1550	77	0.1540	77	20-154	1	0-25	
Dibenz (a,h) Anthracene	ND	0.2000	0.1466	73	0.1297	65	20-132	12	0-26	
Benzo (g,h,i) Perylene	ND	0.2000	0.1543	77	0.1385	69	20-148	11	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
7F-f (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**11/19/14 00:00**	**11/24/14 15:59**	**141119S01**
7F-f (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**11/19/14 00:00**	**11/24/14 15:33**	**141119S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.784	25.00	33.00	109	75-125	
Cadmium	ND	25.00	25.57	102	75-125	
Lead	11.84	25.00	37.16	101	75-125	
Selenium	ND	25.00	25.65	103	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
13D-c (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**11/19/14 00:00**	**11/24/14 16:38**	**141119S02**
13D-c (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**11/19/14 00:00**	**11/24/14 15:45**	**141119S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.596	25.00	30.03	98	75-125	
Lead	7.425	25.00	32.87	102	75-125	
Selenium	ND	25.00	23.43	94	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15C-h (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**11/19/14 00:00**	**11/24/14 16:40**	**141119S03**
15C-h (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**11/19/14 00:00**	**11/24/14 15:51**	**141119S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.842	25.00	35.50	107	75-125	
Cadmium	ND	25.00	25.74	103	75-125	
Lead	8.812	25.00	35.75	108	75-125	
Selenium	ND	25.00	23.91	96	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
7F-f (1-1.5')	**Sample**	**Solid**	**N/A**	**11/19/14 00:00**	**11/19/14 17:10**	**E1119MOID4**
7F-f (1-1.5')	**Sample Duplicate**	**Solid**	**N/A**	**11/19/14 00:00**	**11/19/14 17:10**	**E1119MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	16.50	16.40	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
13D-c (1-1.5')	**Sample**	**Solid**	**N/A**	**11/19/14 00:00**	**11/19/14 17:40**	**E1119MOID5**
13D-c (1-1.5')	**Sample Duplicate**	**Solid**	**N/A**	**11/19/14 00:00**	**11/19/14 17:40**	**E1119MOID5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	14.90	14.70	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15C-h (1-1.5')	**Sample**	**Solid**	**N/A**	**11/19/14 00:00**	**11/19/14 18:10**	**E1119MOID6**
15C-h (1-1.5')	**Sample Duplicate**	**Solid**	**N/A**	**11/19/14 00:00**	**11/19/14 18:10**	**E1119MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	9.100	9.500	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
10F-f	**Sample**	**Solid**	**N/A**	**12/01/14 00:00**	**12/01/14 18:15**	**E1201MOID2**
10F-f	**Sample Duplicate**	**Solid**	**N/A**	**12/01/14 00:00**	**12/01/14 18:15**	**E1201MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	12.90	12.20	6	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	TX 1005
		Method:	TX 1005
Project: Grand Park / 13046.01			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-204-66	**LCS**	**Solid**	**GC 50**	**11/18/14**	**11/19/14 11:23**	**141118L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH Gas/Diesel (C6-C35) Total	400.0	394.0	98	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-775	**LCS**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 21:18**	**141119L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.86	107	80-120	
Cadmium	25.00	25.50	102	80-120	
Lead	25.00	26.78	107	80-120	
Selenium	25.00	25.62	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-776	**LCS**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:25**	**141119L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.79	107	80-120	
Lead	25.00	26.31	105	80-120	
Selenium	25.00	25.75	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-777	**LCS**	**Solid**	**ICP/MS 04**	**11/19/14**	**11/24/14 15:27**	**141119L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.56	106	80-120	
Cadmium	25.00	25.92	104	80-120	
Lead	25.00	26.99	108	80-120	
Selenium	25.00	25.96	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Grand Park / 13046.01			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-1904	**LCS**	**Solid**	**GC 41**	**11/18/14**	**11/19/14 11:29**	**141118L12**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	25.25	101	50-135	36-149	
Alpha-BHC	25.00	26.51	106	50-135	36-149	
Beta-BHC	25.00	21.49	86	50-135	36-149	
4,4'-DDD	25.00	26.82	107	50-135	36-149	
4,4'-DDE	25.00	25.45	102	50-135	36-149	
4,4'-DDT	25.00	25.46	102	50-135	36-149	
Delta-BHC	25.00	24.65	99	50-135	36-149	
Dieldrin	25.00	26.04	104	50-135	36-149	
Endosulfan I	25.00	25.59	102	50-135	36-149	
Endosulfan II	25.00	25.56	102	50-135	36-149	
Endosulfan Sulfate	25.00	27.13	109	50-135	36-149	
Endrin	25.00	27.12	108	50-135	36-149	
Endrin Aldehyde	25.00	21.27	85	50-135	36-149	
Gamma-BHC	25.00	27.59	110	50-135	36-149	
Heptachlor	25.00	26.47	106	50-135	36-149	
Heptachlor Epoxide	25.00	24.32	97	50-135	36-149	
Methoxychlor	25.00	25.28	101	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Grand Park / 13046.01			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-1908	**LCS**	**Solid**	**GC 41**	**11/19/14**	**11/20/14 16:57**	**141119L12**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	24.97	100	50-135	36-149	
Alpha-BHC	25.00	25.86	103	50-135	36-149	
Beta-BHC	25.00	18.83	75	50-135	36-149	
4,4'-DDD	25.00	27.56	110	50-135	36-149	
4,4'-DDE	25.00	29.01	116	50-135	36-149	
4,4'-DDT	25.00	28.00	112	50-135	36-149	
Delta-BHC	25.00	24.11	96	50-135	36-149	
Dieldrin	25.00	25.47	102	50-135	36-149	
Endosulfan I	25.00	24.51	98	50-135	36-149	
Endosulfan II	25.00	24.56	98	50-135	36-149	
Endosulfan Sulfate	25.00	26.59	106	50-135	36-149	
Endrin	25.00	25.99	104	50-135	36-149	
Endrin Aldehyde	25.00	23.80	95	50-135	36-149	
Gamma-BHC	25.00	26.72	107	50-135	36-149	
Heptachlor	25.00	26.03	104	50-135	36-149	
Heptachlor Epoxide	25.00	23.47	94	50-135	36-149	
Methoxychlor	25.00	27.35	109	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-783-21	**LCS**	**Solid**	**GC 40**	**11/21/14**	**11/24/14 16:12**	**141121L18A**
099-15-783-21	**LCSD**	**Solid**	**GC 40**	**11/21/14**	**11/24/14 16:36**	**141121L18A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Dalapon	1000	791.3	79	701.0	70	30-150	12	0-30	
Dicamba	40.00	33.90	85	28.90	72	30-150	16	0-30	
MCPP	40000	35250	88	28430	71	30-150	21	0-30	
MCPA	40000	41590	104	32990	82	30-150	23	0-30	
Dichlorprop	400.0	381.8	95	317.9	79	30-150	18	0-30	
2,4-D	400.0	373.0	93	305.5	76	30-130	20	0-30	
2,4,5-TP (Silvex)	40.00	39.00	98	30.90	77	30-150	23	0-30	
2,4,5-T	40.00	49.20	123	38.40	96	30-130	25	0-30	
2,4-DB	400.0	468.8	117	443.5	111	30-130	6	0-30	
Dinoseb	200.0	64.20	32	60.80	30	10-150	5	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: Grand Park / 13046.01			Page 8 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-06-010-2257	**LCS**	**Solid**	**GC/MS AAA**	**11/18/14**	**11/19/14 13:10**	**141118L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.2000	0.1750	87	51-129	38-142	
2-Methylnaphthalene	0.2000	0.1875	94	50-127	37-140	
1-Methylnaphthalene	0.2000	0.1850	92	54-132	41-145	
Acenaphthylene	0.2000	0.1782	89	50-123	38-135	
Acenaphthene	0.2000	0.1762	88	53-125	41-137	
Fluorene	0.2000	0.1799	90	55-127	43-139	
Phenanthrene	0.2000	0.1620	81	50-122	38-134	
Anthracene	0.2000	0.1651	83	50-132	36-146	
Fluoranthene	0.2000	0.1738	87	55-127	43-139	
Pyrene	0.2000	0.1712	86	50-134	36-148	
Benzo (a) Anthracene	0.2000	0.1669	83	50-133	36-147	
Chrysene	0.2000	0.1634	82	51-129	38-142	
Benzo (k) Fluoranthene	0.2000	0.1675	84	49-150	32-167	
Benzo (b) Fluoranthene	0.2000	0.1599	80	50-142	35-157	
Benzo (a) Pyrene	0.2000	0.1558	78	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.2000	0.1629	81	50-148	34-164	
Dibenz (a,h) Anthracene	0.2000	0.1687	84	50-133	36-147	
Benzo (g,h,i) Perylene	0.2000	0.1780	89	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-11-1242 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	722	N/A	1
EPA 6020	EPA 3050B	598	ICP/MS 04	1
EPA 8081A	EPA 3545	842	GC 41	1
EPA 8151A	EPA 8151A	944	GC 40	1
EPA 8270C SIM PAHs	EPA 3545	907	GC/MS AAA	1
TX 1005	TX 1005	262	GC 50	1

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Glossary of Terms and Qualifiers

Work Order: 14-11-1242 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CJI Supplemental Chain of Custody Form

14-11-1242

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
1		7F-f (1-1.5')	10/13/2014	852	Soil	1	4° C				X							
2		7F-f (1.5-2')	10/13/2014	853	Soil	1	4° C											HOLD
3		8A-a (1-1.5')	10/13/2014	829	Soil	1	4° C				X							
4		8A-a (1.5-2')	10/13/2014	830	Soil	1	4° C											HOLD
5		8C-a (1-1.5')	10/13/2014	838	Soil	1	4° C			X								
6		8C-a (1.5-2')	10/13/2014	839	Soil	1	4° C											HOLD
7		8F-b (1-1.5')	10/13/2014	903	Soil	2	4° C		X	X						X		
8		8F-b (1.5-2')	10/13/2014	904	Soil	2	4° C											HOLD
9		8F-c (1-1.5')	10/13/2014	912	Soil	1	4° C		X	X	X							
10		8F-c (1.5-2')	10/13/2014	913	Soil	1	4° C											HOLD
11		8G-c (1-1.5')	10/13/2014	918	Soil	1	4° C			X								
12		8G-c (1.5-2')	10/13/2014	919	Soil	1	4° C											HOLD
13		9B-h (1-1.5')	10/13/2014	1033	Soil	1	4° C			X								
14		9B-h (1.5-2')	10/13/2014	1034	Soil	1	4° C											HOLD
15		9F-d (1-1.5')	10/13/2014	930	Soil	1	4° C			X								
16		9F-d (1.5-2')	10/13/2014	931	Soil	1	4° C											HOLD
17		9F-e (1-1.5')	10/13/2014	939	Soil	1	4° C		X	X								
18		9F-e (1.5-2')	10/13/2014	940	Soil	1	4° C											HOLD
19		10C-e (1-1.5')	10/13/2014	1040	Soil	1	4° C			X								
20		10C-e (1.5-2')	10/13/2014	1041	Soil	1	4° C											HOLD
21		10E-c (1-1.5')	10/13/2014	1020	Soil	3	4° C		X	X			X			X		
22		10E-c (1.5-2')	10/13/2014	1021	Soil	3	4° C											HOLD
23		10F-e (1-1.5')	10/13/2014	948	Soil	2	4° C		X	X						X		
24		10F-e (1.5-2')	10/13/2014	949	Soil	2	4° C											HOLD
25		10F-f	10/13/2014	1007	Soil	1	4° C										X	
26		10F-f (1-1.5')	10/13/2014	1008	Soil	1	4° C											HOLD
27		10F-f (1.5-2')	10/13/2014	1009	Soil	1	4° C											HOLD
28		10F-h (1-1.5')	10/13/2014	955	Soil	1	4° C			X								
29		10F-h (1.5-2')	10/13/2014	956	Soil	1	4° C											HOLD
30		11C-a (1-1.5')	10/13/2014	1052	Soil	1	4° C	X	X	X	X							
31		11C-a (1.5-2')	10/13/2014	1053	Soil	1	4° C											HOLD
32		11E-i (1-1.5')	10/13/2014	1105	Soil	1	4° C			X								
33		11E-i (1.5-2')	10/13/2014	1106	Soil	1	4° C											HOLD
34		12E-d (1-1.5')	10/13/2014	1139	Soil	1	4° C	X										
35		12E-d (1.5-2')	10/13/2014	1140	Soil	1	4° C											HOLD
36		12F-e (1-1.5')	10/13/2014	1120	Soil	1	4° C			X	X							
37		12F-e (1.5-2')	10/13/2014	1121	Soil	1	4° C											HOLD

Signature

11/5/14 0900

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CJI Supplemental Chain of Custody Form

1242

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
38		13B-g (1-1.5')	10/13/2014	1417	Soil	1	4° C	X										
39		13B-g (1.5-2')	10/13/2014	1418	Soil	1	4° C											HOLD
40		13B-i (1-1.5')	10/13/2014	1410	Soil	1	4° C	X										
41		13B-i (1.5-2')	10/13/2014	1411	Soil	1	4° C											HOLD
42		13C-h (1-1.5')	10/13/2014	1335	Soil	1	4° C	X										
43		13C-h (1.5-2')	10/13/2014	1336	Soil	1	4° C											HOLD
44		13D-c (1-1.5')	10/13/2014	1145	Soil	1	4° C	X										
45		13D-c (1.5-2')	10/13/2014	1146	Soil	1	4° C											HOLD
46		13D-h (1-1.5')	10/13/2014	1327	Soil	1	4° C	X										
47		13D-h (1.5-2')	10/13/2014	1328	Soil	1	4° C											HOLD
48		13E-h (1-1.5')	10/13/2014	1152	Soil	1	4° C			X								
49		13E-h (1.5-2')	10/13/2014	1153	Soil	1	4° C											HOLD
50		13F-d (1-1.5')	10/13/2014	1129	Soil	1	4° C			X	X							
51		13F-d (1.5-2')	10/13/2014	1130	Soil	1	4° C											HOLD
52		14B-a (1-1.5')	10/13/2014	1421	Soil	1	4° C	X										
53		14B-a (1.5-2')	10/13/2014	1422	Soil	1	4° C											HOLD
54		14B-g (1-1.5')	10/13/2014	1425	Soil	1	4° C	X										
55		14B-g (1.5-2')	10/13/2014	1426	Soil	1	4° C											HOLD
56		14C-a (1-1.5')	10/13/2014	1352	Soil	1	4° C	X										
57		14C-a (1.5-2')	10/13/2014	1353	Soil	1	4° C											HOLD
58		14C-b (1-1.5')	10/13/2014	1347	Soil	1	4° C	X										
59		14C-b (1.5-2')	10/13/2014	1348	Soil	1	4° C											HOLD
60		14C-c (1-1.5')	10/13/2014	1343	Soil	1	4° C	X										
61		14C-c (1.5-2')	10/13/2014	1344	Soil	1	4° C											HOLD
62		14C-d (1-1.5')	10/13/2014	1356	Soil	1	4° C	X										
63		14C-d (1.5-2')	10/13/2014	1357	Soil	1	4° C											HOLD
64		14C-e (1-1.5')	10/13/2014	1358	Soil	1	4° C	X										
65		14C-e (1.5-2')	10/13/2014	1359	Soil	1	4° C											HOLD
66		14C-f (1-1.5')	10/13/2014	1404	Soil	1	4° C	X										
67		14C-f (1.5-2')	10/13/2014	1405	Soil	1	4° C											HOLD
68		14E-c (1-1.5')	10/13/2014	1200	Soil	1	4° C	X										
69		14E-c (1.5-2')	10/13/2014	1201	Soil	1	4° C											HOLD
70		14E-d (1-1.5')	10/13/2014	1223	Soil	1	4° C	X										
71		14E-d (1.5-2')	10/13/2014	1224	Soil	1	4° C											HOLD
72		14E-i (1-1.5')	10/13/2014	1208	Soil	1	4° C	X										
73		14E-i (1.5-2')	10/13/2014	1209	Soil	1	4° C											HOLD
74		15B-f (1-1.5')	10/13/2014	1441	Soil	1	4° C	X										
75		15B-f (1.5-2')	10/13/2014	1442	Soil	1	4° C											HOLD

Signature

11/14/2014

11/15/14 0900

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CJI Supplemental Chain of Custody Form

1242

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
76		15B-i (1-1.5')	10/13/2014	1506	Soil	1	4° C	X										
77		15B-i (1.5-2')	10/13/2014	1507	Soil	1	4° C											HOLD
78		15C-a (1-1.5')	10/13/2014	1434	Soil	1	4° C	X										
79		15C-a (1.5-2')	10/13/2014	1435	Soil	1	4° C											HOLD
80		15C-d (1-1.5')	10/13/2014	1447	Soil	1	4° C	X										
81		15C-d (1.5-2')	10/13/2014	1448	Soil	1	4° C											HOLD
82		15C-e (1-1.5')	10/13/2014	1453	Soil	1	4° C	X										
83		15C-e (1.5-2')	10/13/2014	1454	Soil	1	4° C											HOLD
84		15C-h (1-1.5')	10/13/2014	1500	Soil	1	4° C	X										
85		15C-h (1.5-2')	10/13/2014	1501	Soil	1	4° C											HOLD
86		15D-a (1-1.5')	10/13/2014	1529	Soil	1	4° C	X										
87		15D-a (1.5-2')	10/13/2014	1530	Soil	1	4° C											HOLD
88		15D-f (1-1.5')	10/13/2014	1522	Soil	1	4° C	X										
89		15D-f (1.5-2')	10/13/2014	1523	Soil	1	4° C											HOLD
90		15D-g (1-1.5')	10/13/2014	1515	Soil	1	4° C	X										
91		15D-g (1.5-2')	10/13/2014	1516	Soil	1	4° C											HOLD
92		15F-a (1-1.5')	10/13/2014	1216	Soil	1	4° C	X										
93		15F-a (1.5-2')	10/13/2014	1217	Soil	1	4° C											HOLD
94		16B-a (1-1.5')	10/13/2014	1538	Soil	1	4° C	X										
95		16B-a (1.5-2')	10/13/2014	1539	Soil	1	4° C											HOLD
96		16B-b (1-1.5')	10/13/2014	1549	Soil	1	4° C	X										
97		16B-b (1.5-2')	10/13/2014	1550	Soil	1	4° C											HOLD
98		16B-c (1-1.5')	10/13/2014	1556	Soil	1	4° C	X										
99		16B-c (1.5-2')	10/13/2014	1557	Soil	1	4° C											HOLD
100		16C-a (1-1.5')	10/13/2014	1604	Soil	1	4° C	X										
101		16C-a (1.5-2')	10/13/2014	1605	Soil	1	4° C											HOLD
102		17C-c (1-1.5')	10/13/2014	1623	Soil	1	4° C	X										
103		17C-c (1.5-2')	10/13/2014	1624	Soil	1	4° C											HOLD
104		17C-i (1-1.5')	10/13/2014	1628	Soil	1	4° C	X										
105		17C-i (1.5-2')	10/13/2014	1629	Soil	1	4° C											HOLD
106		141113 DUP-1	10/13/2014	1200	Soil	1	4° C	X	X	X	X							
107		141113 DUP-2	10/13/2014	1200	Soil	1	4° C											HOLD
108		141113 DUP-3	10/13/2014	1200	Soil	1	4° C	X										
109		141113 DUP-4	10/13/2014	1200	Soil	1	4° C											HOLD
110		141113 DUP-5	10/13/2014	1200	Soil	1	4° C	X										
111		141113 DUP-6	10/13/2014	1200	Soil	1	4° C											HOLD
112		DIESEL AST 2 (1-1.5')	10/13/2014	1611	Soil	1	4° C						X		X			
113		DIESEL AST 2 (1.5-2')	10/13/2014	1612	Soil	1	4° C											HOLD

Signature

ECI 4/15/14 0900

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COOK-JOYCE, INC.
812 WEST 11TH ST.

AUSTIN, TX 78701
UNITED STATES US

CAD: 6995729/SSF01521
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO CALSCIENCE ENVIORNMENTAL LAB

7440 LINCOLN WAY

GARDEN GROVE CA 92841

(000) 000-0000 REF:
INV:
PO: DEPT:

FedEx Express

J142214092381en

TRK# 0201 7718 6231 0413

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO APVA

DSR
92841
CA-US SNA

ORIGIN ID:ADSA (512) 474-8097
KEVIN ASHLEY
COOK-JOYCE, INC.
812 WEST 11TH ST.

AUSTIN, TX 78701
UNITED STATES US

SHIP DATE: 14NOV14
ACTWGT: 7.0 LB
DIMS: 24x13x

BILL TH

TO CALSCIENCE ENVIORNME

7440 LINCOLN WAY

GARDEN GROVE CA 9284

(000) 000-0000 REF:
INV:
PO: DEPT:

RT 137

FZ 1242

1 12:00

Fe

TRK# 0201 7718 6228 9208

SATURDAY 1
PRIORITY OVERN

XO APVA

9
CA-US

AUSTIN, TX 78701
UNITED STATES US

TO CALSCIENCE ENVIORNMENTAL LAB

7440 LINCOLN WAY

GARDEN GROVE CA 92841

(000) 000-0000 REF:
INV:
PO: DEPT:

FedEx Express

J142214092381en

TRK# 0201 7718 6224 6514

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO APVA

DSR
92841
CA-US SNA

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CJI Supplemental Chain of Custody Form

1-34

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	

Notes:

HOLD = Extract for pesticides, then hold.

HOLD = Extract for herbicides, then hold.

Please provide preliminary data for completed analyses (i.e., do not wait to complete herbicide analyses to report other data).

11/14/2014

Signature

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WORK ORDER #: 14-11-1 2 4 2

SAMPLE RECEIPT FORM

Cooler 1 of 3

CLIENT: Cook Joyce

DATE: 11/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.2 °C (CF) = 3.0 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: SUZ

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SUZ

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: SUZ

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: SUZ

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Reseaiable Bag **E:** Envelope Reviewed by: SUZ

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: SUZ

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WORK ORDER #: 14-11-1 2 4 2

SAMPLE RECEIPT FORM

Cooler 2 of 3

CLIENT: Cook-Joyce

DATE: 11/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** SDZ

CUSTODY SEALS INTACT:

☒ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** SDZ

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present **Checked by:** 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☒
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☐	☐	☒
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☒
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☒4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SDZ

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** SDZ

Preservative: h: HCL n: HNO_3 **na$_2$**:$Na_2S_2O_3$ **na**: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure **znna**: $ZnAc_2$+NaOH f: Filtered **Scanned by:** SDZ

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WORK ORDER #: 14-11-[1][2][4][2]

SAMPLE RECEIPT FORM

Cooler 3 of 3

CLIENT: Cook - Joyce

DATE: 11/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** SDZ

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** SDZ

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** SDZ

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SDZ

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** SDZ

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** SDZ

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Calscience TRRP Data Package
Signature Page

Work Order #: **14-11-1242**

Project Name/Number: **Grand Park / 13046.01**

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  b) Dilution factors,
  c) Preparation methods,
  d) Cleanup methods, and
  e) If required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate control limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  d) The laboratory's LCS QC limits.
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits.
- ☒ R8 Laboratory Analytical Duplicates (if applicable) Recovery and Precision, including:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
- ☒ R9 Method Quantitation Limit (MQL) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

Release Statement: "I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the Laboratory Review Checklist and/or Case Narrative provided with the analytical report. I affirm, to the best of my knowledge, that all problems/anomalies observed by this laboratory that might affect the quality of the data have been identified in the Laboratory Review Checklist and/or Case Narrative, and that no information or data has been knowingly withheld that would affect the quality of the data."

Don Burley		**12/02/14**
Name	Signature	Date

Project Manager
Title

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

Laboratory Name: Eurofins Calscience, Inc.	LRC Date: 12/02/14
Project Name: Grand Park / 13046.01	Laboratory Work Order Number: 14-11-1242
Reviewer Name: Don Burley	Prep Batch Number(s): 141119L01, 141119L02, 141119L03; E1119MOIB4, E1119MOIB5, E1119MOIB6, E1201MOIB2; 141118L03; 141118L12, 141119L12; 141118L07; 141121L18

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	**OI**	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report or case narrative?	X				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding time?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were %moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		1) Were all COCs included in the LCS?			X		1
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?		X			2
		2) Were MS/MSD analyzed at the appropriate frequency?		X			3
		3) Were associated MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?		X			4
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC, ER, or case narrative?	X				
		2) Were all necessary corrective actions performed for the reported data?			X		
		3) If requested, is the justification for elevated SDLs documented?			X		

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

ER#[5]	Description
1	EPA 8081A Pesticides - Chlordane and Toxaphene were not included in the LCS.
2	EPA 8081A Pesticides - Chlordane and Toxaphene were not included in the MS/MSD.
3	EPA 8151A Chlorinated Herbicides - There was insufficient sample mass for MS/MSD.
4	EPA 8270C SIM PAH MS/MSD batch 141118S07: The Phenanthrene and Benzo (a) Anthracene RPDs were out of control due to suspected matrix interference.

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV and CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analytes within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12)**					
		1) Were the raw data (e.g. chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

		1) Were percent recoveries within method QC limits?	X				
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITION**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**PROFICIENCY TEST REPORTS**					
		1) Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCS?			X		
S12	**OI**	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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TEXAS REGISTERED ENGINEERING FIRM F-883

DATA USABILITY SUMMARY

GRAND PARK SITE – LAB REPORT 14-11-1242 SUPPLEMENTAL REPORT 1

JANUARY 2015

Prepared for:

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas

Prepared by:

Cook-Joyce, Inc.
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A	CALSCIENCE NELAC/TLAP ACCREDITATION
B	DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

1.0 INTRODUCTION

Cook-Joyce, Inc. (CJI) reviewed one analytical data package for samples of environmental media collected at the Grand Park Site in Frisco, Texas. Work at the site was done on behalf of the City of Frisco, which owns the property being evaluated for potential impacts. CJI collected the subject samples in November 2014. All analyses were performed in accordance with the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) and meet Texas Risk Reduction Program (TRRP) requirements. This Data Usability Summary (DUS) was prepared to document the usability of the data in supporting site closure under TRRP.

The Texas Commission on Environmental Quality (TCEQ) document, *Review and Reporting of COC Concentration Data (RG-366/TRRP-13)*, describes the procedures for reviewing and reporting data to ensure they are of sufficient and documented quality, as required by 30 §TAC 350.54. These procedures embody the default objectives for levels of quality control, documentation, and data review that apply to all data generated on or after 1 February 2003 for TRRP compliance, unless alternative project objectives are established prior to sample collection. CJI reviewed the data described herein for conformance with TRRP-13 criteria and any project-specific quality objectives. Any derivations from these criteria are discussed in this DUS.

The following laboratory submittals and field data were examined:

- The laboratory reportable data as identified by TRRP-13;
- The laboratory review checklists (LRCs), associated exception reports and supporting data;
- The laboratory electronic data deliverable (EDD); and
- The field notes from the sampling events.

Samples were analyzed by Calscience, and results were provided to CJI on 22 December 2014 in analytical package 14-11-1242S1 (supplemental report). At the time of data analysis, Calscience was NELAC accredited under the TCEQ's Texas Laboratory Accreditation Program (TLAP) for subject matrices, methods, and analytical parameters, except as may be qualified in this DUS. A copy of Calscience's TLAP certification that is coincident with the sample analyses addressed in this DUS is provided as Attachment A to this Data Usability Summary (DUS).

2.0 INTENDED USE OF DATA

The Grand Park site (the Site) is comprised of currently cultivated farmland, unused pasture, and surface water bodies (Stewart Creek and its tributaries). Grand Park is enrolled in the Voluntary Cleanup Program (VCP) as site number 2592 to evaluate and remediate impacts to the Site from a neighboring and upstream property known as the former Exide Battery Recycling Facility. Impacts that may have resulted from the historical uses of the Site are also being evaluated.

As documented in Section 1 of this DUS and in Table 1, CJI collected 5 discrete soil samples for vertical delineation purposes across portions of the Grand Park Site in November 2014. The following analyses were requested for chemicals of concern (COCs):

- ASTM D-2216 (M) – Moisture content of a solid.
- EPA 6020 – Inductively coupled plasma-mass spectrometry of a solid.

Specific metals analyzed under EPA 6020 included arsenic, cadmium, and selenium. All of these analytes and methods are recognized fields of accreditation for solid and chemical materials under TCEQ's NELAC certification of Calscience.

2.1 DATA REVIEWED

Table 1 summarizes the sample analyses that were reviewed for this DUS and provides the field identification number of each sample, cross referenced to the laboratory identification number, sample collection date, sample type, analysis performed, and quality control batch numbers. The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and, when provided, case narratives, all of which were included in this review. The LRCs, associated ERs, and analytical reports received from the laboratory are provided in Attachment B to this DUS.

Field data were reviewed to verify that appropriate procedures were used during collection of samples. All reportable data to be provided by the analytical laboratory, as identified in TRRP-13, were reviewed for completeness and conformance with quantitative QC criteria, where applicable, including preservation/holding times, instrument calibrations, blank recovery, internal standard and surrogate recoveries, laboratory control sample (LCS) results and reproducibilities, matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities, and field duplicate precision.

2.2 PROJECT OBJECTIVES

The overall project objective is to achieve closure of the Grand Park Site through the TCEQ. This DUS evaluates the quality of analytical data provided in the laboratory package identified in Section 1.0 and Table 1. These data represent a discrete portion of the Site and will be used to identify and delineate any environmental impacts in this portion of the Site.

Data review was conducted to identify any potential impacts on sample analytical results as a result of field and/or analytical laboratory activities and ensure that the data are suitable for its use in accordance with TRRP. Quantitative review criteria for each QC parameter were based on laboratory procedure and analytical method requirements and/or TRRP-13 guidance, and these criteria are documented in the summary tables included herein and in the QC summary report section of the analytical data report(s) in Appendix B. No project-specific review criteria were necessary or developed for this project.

3.0 DATA REVIEW RESULTS

3.1 GENERAL DATA PACKAGE REVIEW

Laboratory reports were evaluated for consistency of sample identification labels and laboratory analysis as listed on the COC. In addition, they were reviewed against the TRRP-13 requirements. The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDDs contain all sample results in an acceptable format. The hardcopy laboratory reports and the EDDs include a result, method detection limit (MDL), adjusted method quantitation limit (MQL), which is also referred to as the sample quantitation limit (SQL)[1], and the sample-specific detection limit (SDL)[2] for each analysis. The SDL is that value below which the COC cannot be reliably detected.

In accordance with TRRP requirements, a laboratory defines "non-detect" results as less than the value of the SDL.[3] "Estimated" results are typically "J" qualified by the laboratory; results are estimated rather than quantified when a compound is determined to be present at a concentration less than the SQL, but greater than the SDL.

3.1.1 Appropriate Reporting

Results for metals are reported in milligrams per kilogram (mg/Kg) and have been dry weight corrected. Non-detects are reported using the SDL as specified in TRRP, and detects between the SDL and the SQL are reported as estimated concentrations with a laboratory J-flag.

None of the samples required dilution due to the high concentration of an analyte or matrix interferences. There were no elevated reporting limits for "non-detects".

---

[1] The SQL represents the MQL adjusted for moisture and sample size. The MQL is defined in §350.4(54) as "The lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory."

[2] The SDL is defined as the MDL adjusted to reflect sample-specific factors such as sample characteristics, sample preparation, and analytical adjustments. The MDL is "the minimum concentration of a COC the laboratory would measure and report with 99% confidence that the analyte concentration is greater than zero and is determined for each COC in a reagent matrix."

[3] Certain laboratories may assign a "U" qualifier to non-detect results. For clarity, CJI does not include laboratory assigned "U" qualifiers in our data tables. Instead, "U" qualified data are represented as "<" the SDL.

3.1.2 Chain-of-Custody Procedures

Proper sample custody procedures confirm that the integrity of the samples was maintained. Each cooler containing the samples addressed in this report was shipped to Calscience following these procedures. All samples were labeled correctly, and the appropriate analytical tests were performed by the laboratory.

3.1.3 Holding Times and Preservation

Samples were collected and placed into laboratory supplied containers. After collection in laboratory supplied containers, all samples were immediately placed in an ice-filled cooler and maintained on ice until their receipt by the analytical laboratory. The laboratory measured the temperature blank in each cooler upon its receipt; none of the data were qualified based on receiving temperature. CJI also compared the date of sample collection to the date of sample analysis to identify any samples that did not meet sample holding requirements. Based on our review, all samples reviewed for this DUS were analyzed within their appropriate holding times. Preservation and hold time requirements are provided in Table 2.

3.1.4 Blanks

Field and trip blanks were not collected or analyzed during sampling activities associated with this DUS. Samples were collected using single-use, disposable hand trowels, therefore, equipment blanks were not warranted.

3.1.5 Quality Control Sample Spikes

TRRP-13 requires that the laboratory's quality control samples, such as laboratory control samples (LCSs), laboratory control sample duplicates (LCSDs), matrix spikes (MSs), and matrix spike duplicates (MSDs), be spiked with all of the analytes reported by the laboratory. An exception to this rule is when an analyte is comprised of multiple compounds. Polychlorinated biphenyls (PCBs) are an example for this type of analyte.

Based on CJI's review, the quality control samples for total metals were spiked with all of the analytes reported by the laboratory.

3.2 ANALYTICAL RESULTS

Laboratory analyses are divided into QC batches, in which samples are prepared for analysis (e.g. extractions). Each QC batch includes appropriate QC samples required for analysis – such as matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples (LCS). This information was provided by the laboratory in the analytical packages. Each sample ID and analysis performed is listed with its associated QC batch in Table 1 of this DUS.

Each qualified analyte and sample qualification rationale is listed in Table 3 of this DUS. Further details on data qualifications are discussed in the following subsections.

3.2.1 Calibrations

According to the LRCs, initial and continuing calibration data met method requirements in all cases. No data were qualified due to initial or continuing calibration issues.

3.2.2 Lab Blanks

Laboratory QC results and provided LRCs were reviewed to identify any COC concentrations exceeding the MDL in required method blanks. There were no samples in which detection of blank constituents resulted in sample qualification.

3.2.3 Surrogate Recoveries

When applicable, surrogate recovery data are used to evaluate potential bias in the analytical results for each sample that could have been introduced by the preparatory procedures and/or the analysis. Surrogates are typically used in organic analyses and were not used for the metal analyses evaluated in this DUS. Table 4 lists any data qualifications based on surrogate recoveries.

3.2.4 Laboratory Control Samples/Laboratory Control Sample Duplicates

Laboratory Control Samples (LCSs) are generated to evaluate the accuracy of the analytical method and the laboratory's performance. Laboratory Control Sample Duplicates (LCSDs) may also be analyzed to evaluate the laboratory's precision.

If LCS recoveries are above specifications, then results generally are estimated high (JH). If recoveries are below specifications, then results generally are qualified as estimated low (JL). If

recoveries are below 30% for metals or 10% for organics, then results are estimated low or rejected (R).

All of the analytes reported by the laboratory were spiked in the LCSs. According to the LRCs and based on the data provided in the reports and EDDs, the recoveries of all of the spiked compounds were within the recovery control limits developed by the laboratory. In addition to the comparison to the laboratory specified control limits, CJI also compared the data to TRRP-13 review standards (a standardized control limit of 70-130% for metals). No data were qualified due to LCS percent recoveries when compared to TRRP-13 control limits. Table 5 lists any data qualifications based on LCS recoveries.

An LCSD sample was not analyzed by Calscience for this report, therefore, there are no data qualifications based on LCS/LCSD relative percent differences.

3.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix Spike/Matrix Spike Duplicates (MS/MSDs) were used to evaluate the impact of the sample matrix on analytical recoveries. MS/MSD recoveries were used to assist in sample qualification in connection with other data quality indicators. In general, sample results were not qualified on MS/MSD recovery data alone. LCS recoveries were also checked, and these were used to support MS/MSD data qualification. In cases where no other precision data could be evaluated (i.e. the absence of field duplicate samples), the data were qualified based on MS/MSD reproducibilities alone.

MS/MSD recoveries were compared to both laboratory control limits and TRRP-13 review criteria for metals (70% - 130%, but not less than 30%). MS/MSD relative percent differences were also compared to both laboratory control limits and TRRP-13 review criteria (acceptable within 30% for metals).

MS/MSD Spike Accuracy

MS/MSD recoveries were typically reported within acceptance criteria in the data packages reviewed for this DUS. Table 6A lists any data qualifications based on MS/MSD recoveries. MS/MSD recoveries were acceptable for all analytes.

MS/MSD Spike Precision

MS/MSD reproducibilities were reported within acceptance criteria in the data packages reviewed for this DUS. MS/MSD relative percent differences (RPDs) were compared to both laboratory control limits and TRRP-13 review criteria. There were no sample qualifications based on MS/MSD reproducibilities. Table 6B lists any data qualifications based on MS/MSD RPDs.

3.2.6 Post Digestion Spikes

Post digestion spikes (PDSs) were performed for metals analyses in each data package. All PDS recoveries were within laboratory (75%-125%) and TRRP-13 (70%-130%) control limits.

3.2.7 Detectability Check Sample

A detectability check sample (DCS) is a reagent matrix spiked by the laboratory with analytes near, or within two or three times, the calculated MDL and carried through the sample preparation procedures for the analysis. DCSs are used to test the lab's ability to detect analytes concentrations near the MQL. DCSs were not performed for the subject data. Calscience's MDLs are adjusted and supported by the analysis of annual MDL/RL verifications per NELAC requirements. Some of the MDLs (including those for the EPA 6020 Metals) are also supported by quarterly LOD/LOQ verifications per Department of Defense requirements.

3.2.8 Laboratory Duplicates

Duplicate analysis for moisture content was performed on 1 sample analyzed for this project. The RPD for the result of the duplicate analysis when compared with the original met the laboratory's control limits of 0-10%. No data are qualified based on laboratory duplicate data.

3.2.9 Adequacy of MQLs and SDLs

MQLs and, where applicable, SDLs were compared to the constituent specific, critical protective concentration limits (PCLs) for a residential site with an affected property that is between 0.5 and 30 acres in size (or the background values, if greater than the critical PCLs) to evaluate whether the laboratory was able to achieve sufficiently low limits. The critical PCLs/background values comprise the assessment targets and represent the Levels of Required Performance (LORPs).

These comparisons were primarily made because sample specific interferences or elevated COC concentrations may affect the laboratory's ability to detect or quantify a COC below the LORP. In addition, concentrations of certain chemical parameters in environmental media cannot be quantified using currently-available analytical technologies.

All MQLs in the data packages addressed herein were below their respective LORPs for the requested analytes.

3.2.10 Field Precision

Field duplicates were not collected for any of the samples associated with this DUS.

3.3 FIELD PROCEDURES/RECORDS

Samples were collected according to CJI's standard operating procedures (SOPs). Field notes documenting sample collection activities were also reviewed. No data qualification was required based on field procedures or field records.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In general, the data quality was good. Critical samples collected for comparison to risk based PCLs to identify any exceedances or trends were usable and no data gaps were identified. Any specific data quality issues are identified in the text of this document.

To address the issues identified during data review recommendations for future monitoring at this site include:

- MS/MSDs should continue to be analyzed on samples from this Site so that matrix effects can be evaluated.
- In general, analytical results from all reviewed samples are usable for their intended purpose, and sampling should continue as conducted.

Kevin Lonseth		1/29/15
Data Reviewer	Signature	Date

TABLES

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 14111242S1
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (EPA 6020)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch
11/13/2014	10F-e (1.5-2')	14-11-1242	24	Soil	Inv.	X	141217L05	X	E1216MOIB2
11/13/2014	11C-a (1.5-2')	14-11-1242	31	Soil	Inv.	X	141217L05	X	E1216MOIB2
11/13/2014	12F-e (1.5-2')	14-11-1242	37	Soil	Inv.	X	141217L05	X	E1216MOIB2
11/13/2014	13F-d (1.5-2')	14-11-1242	51	Soil	Inv.	X	141217L05	X	E1216MOIB2
11/13/2014	14E-d (1.5-2')	14-11-1242	71	Soil	Inv.	X	141217L05	X	E1216MOIB2
	Method Blank	14-11-1242	5081	Soil	MB			X	E1216MOIB2
	Method Blank	14-11-1242	806	Soil	MB	X	141217L05		
10/22/14	14-10-2039-100	14-11-1242	100	Soil	NC			X	E1216MOIB2
10/22/14	14-10-2039-100	14-11-1242	100	Soil	SDP			X	E1216MOIB2
12/15/14	14-12-1567-49	14-11-1242	49	Soil	MS	X	141217L05		
12/15/14	14-12-1567-49	14-11-1242	49	Soil	MSD	X	141217L05		
	Laboratory Control Sample	14-11-1242	806	Soil	LCS	X	141217L05		
Total Number of Analyses Reviewed						9		8	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
LCS = Laboratory Control Sample
MB = Method Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
SDP = Sample Duplicate

TABLE 2
SAMPLE PRESERVATION AND HOLDING TIMES - LAB REPORT 14111242S1
GRAND PARK, FRISCO, TEXAS

Parameters	Analytical Method	Preservation	Required Reporting Limit	Holding Time
Moisture Content	ASTM D-2216	Cool 4 ± 2°C	NA	10 days for solids
Total metals (arsenic, cadmium, lead, and selenium)	EPA 6020	Cool 4 ± 2°C[1] Water: Acidify w/ HNO_3 to pH < 2	TRRP Reporting	180 days

Notes: 1) Although not required by method, the workplan for this project specified that samples submitted for metal analyses would be preserved with ice.

TABLE 3
SUMMARY OF ALL QUALIFIED DATA - LAB REPORT 14111242S1
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Method	Analyte	QC Batch	Assigned Qualifier	Reason for Qualification
		Work Order	#							
NA	NA	NA		Soil	No Data Qualification					

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
QC Batch numbers for laboratory control samples (LCSs) contain an "L", those for matrix spike/matrix spike duplicates (MS/MSDs) contain an "S". Otherwise the numbers are identical.

TABLE 4
SAMPLE RESULTS QUALIFIED BASED ON SURROGATE RECOVERIES - LAB REPORT 14111242S1
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample	Surrogate Recovery			Qualifier	
	Work Order	#	Type	Surrogate	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on Surrogate Recoveries			NA	NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low

TABLE 5
SAMPLE RESULTS QUALIFIED BASED ON LCS RECOVERIES - LAB REPORT 14111242S1
GRAND PARK, FRISCO, TEXAS

Sample ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery			Qualifier	
	Work Order	#			Analyte	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on LCS Recoveries					NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Colored fill represents QC Batches that appear in several data packages.

TABLE 6A
SAMPLE RESULTS WITH MS/MSD RECOVERIES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14111242S1
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery				Review Limits	Qualifier	
	Work Order	#			Analyte	MS %R	MSD %R	Ave %R		Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD Recoveries						NA	NA	NA

Notes: %R = Percent Recovery
Ave %R = Average of matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
R = Data are Rejected
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Light shaded average recoveries are low.
Dark shaded average recoveries are extremely low.

TABLE 6B
MS/MSD RELATIVE PERCENT DIFFERENCES OUTSIDE OF CONTROL LIMITS - LAB REPORT 14111242S1
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		QC Batch	Analyte	MS %R	MSD %R	RPD	Review Limits	Qualifier	
	Work Order	#							Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD RPD's.						NA	NA

Notes: %R = Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
UJL = Estimated Non-Detect, Biased Low

ATTACHMENT A

CALSCIENCE NELAC/TLAP ACCREDITATION

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704499-14-4
Effective Date: 8/1/2014
Expiration Date: 7/31/2015

Executive Director Texas Commission on Environmental Quality

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

CERTIFIED MAIL

Mr. Larry Lem
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Lem:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

We are also continuing secondary accreditation based on your application and primary NELAP accreditation from the states of Oregon and New York according to the attached Fields of Accreditation. Your laboratory's secondary accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary Accreditation Bodies.

I am enclosing an accreditation certificate and listing of the fields of accreditation. Please review the enclosures for accuracy and completeness.

In the meantime, please contact me by telephone at (512) 239–3754 or electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
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Matrix: ***Air & Emissions***

Method EPA TO-14A

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	NY	5160	10248609
1,1,2,2-Tetrachloroethane	NY	5110	10248609
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248609
1,1,2-Trichloroethane	NY	5165	10248609
1,1-Dichloroethane	NY	4630	10248609
1,1-Dichloroethylene	NY	4640	10248609
1,2,4-Trichlorobenzene	NY	5155	10248609
1,2,4-Trimethylbenzene	NY	5210	10248609
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248609
1,2-Dichlorobenzene	NY	4610	10248609
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248609
1,2-Dichloropropane	NY	4655	10248609
1,3,5-Trimethylbenzene	NY	5215	10248609
1,3-Dichlorobenzene	NY	4615	10248609
1,4-Dichlorobenzene	NY	4620	10248609
Benzene	NY	4375	10248609
Benzyl chloride	NY	5635	10248609
Carbon tetrachloride	NY	4455	10248609
Chlorobenzene	NY	4475	10248609
Chloroethane (Ethyl chloride)	NY	4485	10248609
Chloroform	NY	4505	10248609
cis-1,2-Dichloroethylene	NY	4645	10248609
cis-1,3-Dichloropropene	NY	4680	10248609
Dichlorodifluoromethane (Freon-12)	NY	4625	10248609
Ethylbenzene	NY	4765	10248609
Hexachlorobutadiene	NY	4835	10248609
Methyl bromide (Bromomethane)	NY	4950	10248609
Methyl chloride (Chloromethane)	NY	4960	10248609

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Matrix: *Air & Emissions*

Methylene chloride (Dichloromethane)	NY	4975	10248609
Styrene	NY	5100	10248609
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248609
Toluene	NY	5140	10248609
trans-1,2-Dichloroethylene	NY	4700	10248609
trans-1,3-Dichloropropylene	NY	4685	10248609
Trichloroethene (Trichloroethylene)	NY	5170	10248609
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248609
Vinyl chloride	NY	5235	10248609
Xylene (total)	NY	5260	10248609

Method EPA TO-15

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	NY	5160	10248803
1,1,2,2-Tetrachloroethane	NY	5110	10248803
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248803
1,1,2-Trichloroethane	NY	5165	10248803
1,1-Dichloroethane	NY	4630	10248803
1,1-Dichloroethylene	NY	4640	10248803
1,2,4-Trichlorobenzene	NY	5155	10248803
1,2,4-Trimethylbenzene	NY	5210	10248803
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248803
1,2-Dichlorobenzene	NY	4610	10248803
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248803
1,2-Dichloropropane	NY	4655	10248803
1,3,5-Trimethylbenzene	NY	5215	10248803
1,3-Butadiene	NY	9318	10248803
1,3-Dichlorobenzene	NY	4615	10248803
1,4-Dichlorobenzene	NY	4620	10248803
1,4-Dioxane (1,4-Diethyleneoxide)	NY	4735	10248803
2-Butanone (Methyl ethyl ketone, MEK)	NY	4410	10248803

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Matrix: *Air & Emissions*

Benzene	NY	4375	10248803
Benzyl chloride	NY	5635	10248803
Bromodichloromethane	NY	4395	10248803
Bromoform	NY	4400	10248803
Carbon tetrachloride	NY	4455	10248803
Chlorobenzene	NY	4475	10248803
Chloroethane (Ethyl chloride)	NY	4485	10248803
Chloroform	NY	4505	10248803
cis-1,2-Dichloroethylene	NY	4645	10248803
cis-1,3-Dichloropropene	NY	4680	10248803
Dichlorodifluoromethane (Freon-12)	NY	4625	10248803
Ethylbenzene	NY	4765	10248803
Hexachlorobutadiene	NY	4835	10248803
Methyl bromide (Bromomethane)	NY	4950	10248803
Methyl chloride (Chloromethane)	NY	4960	10248803
Methyl isobutyl ketone (Hexone) (MIBK)	NY	4985	10248803
Methyl tert-butyl ether (MTBE)	NY	5000	10248803
Methylene chloride (Dichloromethane)	NY	4975	10248803
n-Hexane	NY	4855	10248803
Styrene	NY	5100	10248803
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248803
Toluene	NY	5140	10248803
trans-1,2-Dichloroethylene	NY	4700	10248803
trans-1,3-Dichloropropylene	NY	4685	10248803
Trichloroethene (Trichloroethylene)	NY	5170	10248803
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248803
Vinyl acetate	NY	5225	10248803
Vinyl chloride	NY	5235	10248803
Xylene (total)	NY	5260	10248803

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Matrix: ***Non-Potable Water***

Method ASTM D516

Analyte	AB	Analyte ID	Method ID
Sulfate	OR	2000	30002201

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	OR	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	OR	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	OR	1000	10013806
Antimony	OR	1005	10013806
Arsenic	OR	1010	10013806
Barium	OR	1015	10013806
Beryllium	OR	1020	10013806
Boron	OR	1025	10013806
Cadmium	OR	1030	10013806
Calcium	OR	1035	10013806
Chromium	OR	1040	10013806
Cobalt	OR	1050	10013806
Copper	OR	1055	10013806
Iron	OR	1070	10013806
Lead	OR	1075	10013806
Magnesium	OR	1085	10013806
Manganese	OR	1090	10013806
Molybdenum	OR	1100	10013806

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Matrix: ***Non-Potable Water***

Nickel	OR	1105	10013806
Potassium	OR	1125	10013806
Selenium	OR	1140	10013806
Silica as SiO2	OR	1990	10013806
Silver	OR	1150	10013806
Sodium	OR	1155	10013806
Thallium	OR	1165	10013806
Tin	OR	1175	10013806
Vanadium	OR	1185	10013806
Zinc	OR	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	OR	1000	10014605
Antimony	OR	1005	10014605
Arsenic	OR	1010	10014605
Barium	OR	1015	10014605
Beryllium	OR	1020	10014605
Boron	OR	1025	10014605
Cadmium	OR	1030	10014605
Chromium	OR	1040	10014605
Cobalt	OR	1050	10014605
Copper	OR	1055	10014605
Iron	OR	1070	10014605
Lead	OR	1075	10014605
Manganese	OR	1090	10014605
Molybdenum	OR	1100	10014605
Nickel	OR	1105	10014605
Selenium	OR	1140	10014605
Silver	OR	1150	10014605
Thallium	OR	1165	10014605

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Matrix: ***Non-Potable Water***

Tin	OR	1175	10014605
Titanium	OR	1180	10014605
Vanadium	OR	1185	10014605
Zinc	OR	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	10053006
Fluoride	OR	1730	10053006
Nitrate as N	OR	1810	10053006
Nitrate-nitrite	OR	1820	10053006
Nitrite as N	OR	1840	10053006
Orthophosphate as P	OR	1870	10053006
Sulfate	OR	2000	10053006

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	OR	1540	10053608

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	OR	1515	10063408

Method EPA 351.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Kjeldahl nitrogen - total (TKN)	OR	1795	10065200

Method EPA 365.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10069804
Phosphorus	OR	1910	10069804

Method EPA 365.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10070801
Phosphorus	OR	1910	10070801

Texas Commission on Environmental Quality

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Matrix: ***Non-Potable Water***

Method EPA 410.4

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	OR	1565	10077200

Method EPA 420.1

Analyte	AB	Analyte ID	Method ID
Total phenolics	OR	1905	10079400

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204

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Matrix: ***Non-Potable Water***

Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204
Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606

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Matrix: ***Non-Potable Water***

Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606
Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000

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Matrix: ***Non-Potable Water***

Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000
Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802

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Matrix: *Non-Potable Water*

1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802
1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802

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Matrix: *Non-Potable Water*

4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802
Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromochloropropane	OR	4580	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802

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Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
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Matrix: *Non-Potable Water*

Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802
Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	OR	4770	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802

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Matrix: ***Non-Potable Water***

Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802
T-amylmethylether (TAME)	OR	4370	10184802
tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805

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Matrix: *Non-Potable Water*

1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805
2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805

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Matrix: *Non-Potable Water*

4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805
4-Dimethyl aminoazobenzene	OR	6105	10185805
4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805

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Matrix: *Non-Potable Water*

bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805
Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805

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Matrix: ***Non-Potable Water***

Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805
n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method SM 2130 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Turbidity	OR	2055	20042200

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Alkalinity as CaCO3	OR	1505	20045005
Method SM 2340 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20046008
Method SM 2340 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20047001
Method SM 2510 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	OR	1610	20048004
Method SM 2540 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	OR	1950	20004608
Method SM 2540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	OR	1955	20049803
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	OR	1960	20004802
Method SM 2540 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	OR	1965	20005009
Method SM 4500-Cl^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	20084804
Method SM 4500-F^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	20101808
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	20104603

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-NH3 C	Ammonia as N	OR	1515	20023603
SM 4500-NH3 F	Ammonia as N	OR	1515	20023001
SM 4500-NH3 G	Ammonia as N	OR	1515	20023205
SM 4500-NO_2^- B	Nitrite as N	OR	1840	20024004
SM 4500-NO3 E	Nitrate as N	OR	1810	20114209
	Nitrate-nitrite	OR	1820	20114209
	Nitrite as N	OR	1840	20114209
SM 4500-O G	Oxygen, dissolved	OR	1880	20025405
SM 4500-P E	Orthophosphate as P	OR	1870	20025803
SM 4500-$S2^-$ D	Sulfide	OR	2005	20125400
SM 4500-$SO3^-$ B	Sulfite	OR	2015	20026806
SM 5210 B	Biochemical oxygen demand (BOD)	OR	1530	20027401

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Matrix: ***Non-Potable Water***

Carbonaceous BOD, CBOD	OR	1555	20027401
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	OR	1565	20027809
Method SM 5310 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20137206
Method SM 5310 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20139202
Method SM 5520 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	20028802
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	20028802
Method SM 5540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	OR	2025	20144405
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	OR	849	10118806

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204
Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204

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Matrix: ***Solid & Chemical Materials***

Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606
Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606

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Matrix: *Solid & Chemical Materials*

Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000
Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000

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Matrix: ***Solid & Chemical Materials***

Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802
1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802
4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802

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Matrix: *Solid & Chemical Materials*

Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802
Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802

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Garden Grove, CA 92841-1427

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Matrix: *Solid & Chemical Materials*

Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methanol	OR	4930	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802
Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802

Texas Commission on Environmental Quality

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7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: ***Solid & Chemical Materials***

tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805
1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805

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Matrix: ***Solid & Chemical Materials***

2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805
4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805

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Matrix: *Solid & Chemical Materials*

4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805

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Garden Grove, CA 92841-1427

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Matrix: ***Solid & Chemical Materials***

Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachlorocyclopentadiene	OR	6285	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805
Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805

Texas Commission on Environmental Quality

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Matrix: ***Solid & Chemical Materials***

n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	OR	1615	10198400
pH	OR	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	10199209

Texas Commission on Environmental Quality

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Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT B

DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

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Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 14-11-1242

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cook-Joyce Inc.

Client Project Name: Grand Park / 13046.01

Attention: Richard Varnell
812 West 11th Street
Austin, TX 78701-2053

Approved for release on 12/22/2014 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-11-1242

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Work Order Narrative

Work Order: 14-11-1242 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/15/14. They were assigned to Work Order 14-11-1242.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	Cook-Joyce Inc.	Work Order:	14-11-1242
	812 West 11th Street	Project Name:	Grand Park / 13046.01
	Austin, TX 78701-2053	PO Number:	
		Date/Time Received:	11/15/14 09:00
		Number of Containers:	113
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
10F-e (1.5-2')	14-11-1242-24	11/13/14 09:49	1	Solid
11C-a (1.5-2')	14-11-1242-31	11/13/14 10:53	1	Solid
12F-e (1.5-2')	14-11-1242-37	11/13/14 11:21	1	Solid
13F-d (1.5-2')	14-11-1242-51	11/13/14 11:30	1	Solid
14E-d (1.5-2')	14-11-1242-71	11/13/14 12:24	1	Solid

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QC Association Summary

Work Order: 14-11-1242 Page 1 of 1

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
10F-e (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1216MOID2	E1216MOIB2
10F-e (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141217S05	141217L05
11C-a (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1216MOID2	E1216MOIB2
11C-a (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141217S05	141217L05
12F-e (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1216MOID2	E1216MOIB2
12F-e (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141217S05	141217L05
13F-d (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1216MOID2	E1216MOIB2
13F-d (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141217S05	141217L05
14E-d (1.5-2')	ASTM D-2216 (M) Moisture Content		N/A	N/A	E1216MOID2	E1216MOIB2
14E-d (1.5-2')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	141217S05	141217L05

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e (1.5-2')	**14-11-1242-24-A**	**11/13/14 09:49**	**Solid**	**N/A**	**12/16/14**	**12/16/14 18:20**	**E1216MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	8.80	0.100	0.100	0.100	0.100	1.00	BU

11C-a (1.5-2')	**14-11-1242-31-A**	**11/13/14 10:53**	**Solid**	**N/A**	**12/16/14**	**12/16/14 18:20**	**E1216MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.4	0.100	0.100	0.100	0.100	1.00	BU

12F-e (1.5-2')	**14-11-1242-37-A**	**11/13/14 11:21**	**Solid**	**N/A**	**12/16/14**	**12/16/14 18:20**	**E1216MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.6	0.100	0.100	0.100	0.100	1.00	BU

13F-d (1.5-2')	**14-11-1242-51-A**	**11/13/14 11:30**	**Solid**	**N/A**	**12/16/14**	**12/16/14 18:20**	**E1216MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.6	0.100	0.100	0.100	0.100	1.00	BU

14E-d (1.5-2')	**14-11-1242-71-A**	**11/13/14 12:24**	**Solid**	**N/A**	**12/16/14**	**12/16/14 18:20**	**E1216MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.7	0.100	0.100	0.100	0.100	1.00	BU

Method Blank	**099-05-014-5081**	**N/A**	**Solid**	**N/A**	**12/16/14**	**12/16/14 18:20**	**E1216MOIB2**

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10F-e (1.5-2')	**14-11-1242-24-A**	**11/13/14 09:49**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/18/14 00:51**	**141217L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.460	1.10	0.131	1.00	0.120	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
11C-a (1.5-2')	**14-11-1242-31-A**	**11/13/14 10:53**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/18/14 00:53**	**141217L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.668	1.18	0.312	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
12F-e (1.5-2')	**14-11-1242-37-A**	**11/13/14 11:21**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/18/14 00:55**	**141217L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.528	1.16	0.306	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13F-d (1.5-2')	**14-11-1242-51-A**	**11/13/14 11:30**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/18/14 00:57**	**141217L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	1.10	1.14	0.302	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14E-d (1.5-2')	**14-11-1242-71-A**	**11/13/14 12:24**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/18/14 00:58**	**141217L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.2	1.22	0.473	1.00	0.389	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-806**	**N/A**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/17/14 23:20**	**141217L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-12-1567-49	**Sample**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/17/14 23:18**	**141217S05**
14-12-1567-49	**Matrix Spike**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/17/14 22:57**	**141217S05**
14-12-1567-49	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/17/14 23:01**	**141217S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	25.00	25.36	101	26.72	107	72-132	5	0-13	
Cadmium	ND	25.00	26.48	106	26.54	106	85-121	0	0-12	
Selenium	ND	25.00	24.87	99	24.96	100	54-132	0	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 11/15/14
Work Order: 14-11-1242
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-12-1567-49	**Sample**	**Solid**	**ICP/MS 04**	**12/17/14 00:00**	**12/17/14 23:18**	**141217S05**
14-12-1567-49	**PDS**	**Solid**	**ICP/MS 04**	**12/17/14 00:00**	**12/17/14 22:59**	**141217S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	25.00	25.60	102	75-125	
Cadmium	ND	25.00	26.23	105	75-125	
Selenium	ND	25.00	24.01	96	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-10-2039-100	**Sample**	**Solid**	**N/A**	**12/16/14 00:00**	**12/16/14 18:20**	**E1216MOID2**
14-10-2039-100	**Sample Duplicate**	**Solid**	**N/A**	**12/16/14 00:00**	**12/16/14 18:20**	**E1216MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	12.20	12.50	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	11/15/14
812 West 11th Street		Work Order:	14-11-1242
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-806	**LCS**	**Solid**	**ICP/MS 04**	**12/17/14**	**12/17/14 23:24**	**141217L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.44	106	80-120	
Cadmium	25.00	25.86	103	80-120	
Selenium	25.00	25.48	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-11-1242 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	689	N/A	1
EPA 6020	EPA 3050B	598	ICP/MS 04	1

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Glossary of Terms and Qualifiers

Work Order: 14-11-1242 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Donald Burley

From: Varnell, Richard <Richard.Varnell@cook-joyce.com>
Sent: Friday, December 12, 2014 10:39 AM
To: Donald Burley
Cc: Lonseth, Kevin; Ashley, Kevin; Wheatley, Wade
Subject: Additional analyses

Hi Don,

Can you analyze some additional samples for us? They are samples you are currently holding. They are:

CJI Sample ID	Laboratory ID Number		Requested Analyses
10F-a (1.5-2)	14-11-1877	34	cd, pb
10F-e (1.5-2)	14-11-1242	24	cd
11C-a (1.5-2)	14-11-1242	31	se
12F-e (1.5-2)	14-11-1242	37	se
13F-d (1.5-2)	14-11-1242	51	se
14E-d (1.5-2)	14-11-1242	71	as
7L-a (1.5-2')	14-10-2039	100	cd, pb, se
8G-a (P3) (1.5-2')	14-10-2039	62	pb
8H-a (P3) (1.5-2')	14-10-2039	66	cd, pb, se
8J-a (1.5-2')	14-10-2039	68	cd, pb, se
9G-a (1.5-2')	14-10-2039	64	pb
9H-a (1.5-2')	14-10-2039	70	cd, pb, se
9I-a (1.5-2')	14-10-2039	94	cd, pb, se
10G-a (1.5-2')	14-10-2039	90	cd, pb
10H-a (1.5-2')	14-10-2039	92	cd, pb, se
11H-a (1.5-2')	14-10-2039	88	as,pb
12G-a (1.5-2')	14-10-2039	56	cd, pb
12H-a (1.5-2')	14-10-2039	84	cd, pb
13G-a (1.5-2')	14-10-2039	58	cd, pb, se
13H-a (1.5-2')	14-10-2039	82	cd, pb, se
14F-a (1.5-2')	14-10-2039	54	as,se
14H-a (1.5-2')	14-10-2039	80	cd, pb, se
15F-c (1.5-2')	14-10-2039	50	as
15G-a (1.5-2')	14-10-2039	78	cd, pb, se
15H-a (1.5-2')	14-10-2039	76	cd, pb, se
16H-a (1.5-2')	14-10-2039	44	cd, pb
16I-a (1.5-2')	14-10-2039	72	cd, pb

Its fine to just report all of these in a new report.

Richard (RD) Varnell

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CJI Supplemental Chain of Custody Form

14-11-1242

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
1		7F-f (1-1.5')	10/13/2014	852	Soil	1	4° C				X							
2		7F-f (1.5-2')	10/13/2014	853	Soil	1	4° C											HOLD
3		8A-a (1-1.5')	10/13/2014	829	Soil	1	4° C				X							
4		8A-a (1.5-2')	10/13/2014	830	Soil	1	4° C											HOLD
5		8C-a (1-1.5')	10/13/2014	838	Soil	1	4° C			X								
6		8C-a (1.5-2')	10/13/2014	839	Soil	1	4° C											HOLD
7		8F-b (1-1.5')	10/13/2014	903	Soil	2	4° C		X	X						X		
8		8F-b (1.5-2')	10/13/2014	904	Soil	2	4° C											HOLD
9		8F-c (1-1.5')	10/13/2014	912	Soil	1	4° C		X	X	X							
10		8F-c (1.5-2')	10/13/2014	913	Soil	1	4° C											HOLD
11		8G-c (1-1.5')	10/13/2014	918	Soil	1	4° C			X								
12		8G-c (1.5-2')	10/13/2014	919	Soil	1	4° C											HOLD
13		9B-h (1-1.5')	10/13/2014	1033	Soil	1	4° C			X								
14		9B-h (1.5-2')	10/13/2014	1034	Soil	1	4° C											HOLD
15		9F-d (1-1.5')	10/13/2014	930	Soil	1	4° C			X								
16		9F-d (1.5-2')	10/13/2014	931	Soil	1	4° C											HOLD
17		9F-e (1-1.5')	10/13/2014	939	Soil	1	4° C		X	X								
18		9F-e (1.5-2')	10/13/2014	940	Soil	1	4° C											HOLD
19		10C-e (1-1.5')	10/13/2014	1040	Soil	1	4° C			X								
20		10C-e (1.5-2')	10/13/2014	1041	Soil	1	4° C											HOLD
21		10E-c (1-1.5')	10/13/2014	1020	Soil	3	4° C		X	X			X			X		
22		10E-c (1.5-2')	10/13/2014	1021	Soil	3	4° C											HOLD
23		10F-e (1-1.5')	10/13/2014	948	Soil	2	4° C		X	X						X		
24		10F-e (1.5-2')	10/13/2014	949	Soil	2	4° C											HOLD
25		10F-f	10/13/2014	1007	Soil	1	4° C										X	
26		10F-f (1-1.5')	10/13/2014	1008	Soil	1	4° C											HOLD
27		10F-f (1.5-2')	10/13/2014	1009	Soil	1	4° C											HOLD
28		10F-h (1-1.5')	10/13/2014	955	Soil	1	4° C			X								
29		10F-h (1.5-2')	10/13/2014	956	Soil	1	4° C											HOLD
30		11C-a (1-1.5')	10/13/2014	1052	Soil	1	4° C	X	X	X	X							
31		11C-a (1.5-2')	10/13/2014	1053	Soil	1	4° C											HOLD
32		11E-i (1-1.5')	10/13/2014	1105	Soil	1	4° C			X								
33		11E-i (1.5-2')	10/13/2014	1106	Soil	1	4° C											HOLD
34		12E-d (1-1.5')	10/13/2014	1139	Soil	1	4° C	X										
35		12E-d (1.5-2')	10/13/2014	1140	Soil	1	4° C											HOLD
36		12F-e (1-1.5')	10/13/2014	1120	Soil	1	4° C			X	X							
37		12F-e (1.5-2')	10/13/2014	1121	Soil	1	4° C											HOLD

11/14/2014

Signature

11/5/14 0900

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CJI Supplemental Chain of Custody Form

1242

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
38		13B-g (1-1.5')	10/13/2014	1417	Soil	1	4° C	X										
39		13B-g (1.5-2')	10/13/2014	1418	Soil	1	4° C											HOLD
40		13B-i (1-1.5')	10/13/2014	1410	Soil	1	4° C	X										
41		13B-i (1.5-2')	10/13/2014	1411	Soil	1	4° C											HOLD
42		13C-h (1-1.5')	10/13/2014	1335	Soil	1	4° C	X										
43		13C-h (1.5-2')	10/13/2014	1336	Soil	1	4° C											HOLD
44		13D-c (1-1.5')	10/13/2014	1145	Soil	1	4° C	X										
45		13D-c (1.5-2')	10/13/2014	1146	Soil	1	4° C											HOLD
46		13D-h (1-1.5')	10/13/2014	1327	Soil	1	4° C	X										
47		13D-h (1.5-2')	10/13/2014	1328	Soil	1	4° C											HOLD
48		13E-h (1-1.5')	10/13/2014	1152	Soil	1	4° C			X								
49		13E-h (1.5-2')	10/13/2014	1153	Soil	1	4° C											HOLD
50		13F-d (1-1.5')	10/13/2014	1129	Soil	1	4° C			X	X							
51		13F-d (1.5-2')	10/13/2014	1130	Soil	1	4° C											HOLD
52		14B-a (1-1.5')	10/13/2014	1421	Soil	1	4° C	X										
53		14B-a (1.5-2')	10/13/2014	1422	Soil	1	4° C											HOLD
54		14B-g (1-1.5')	10/13/2014	1425	Soil	1	4° C	X										
55		14B-g (1.5-2')	10/13/2014	1426	Soil	1	4° C											HOLD
56		14C-a (1-1.5')	10/13/2014	1352	Soil	1	4° C	X										
57		14C-a (1.5-2')	10/13/2014	1353	Soil	1	4° C											HOLD
58		14C-b (1-1.5')	10/13/2014	1347	Soil	1	4° C	X										
59		14C-b (1.5-2')	10/13/2014	1348	Soil	1	4° C											HOLD
60		14C-c (1-1.5')	10/13/2014	1343	Soil	1	4° C	X										
61		14C-c (1.5-2')	10/13/2014	1344	Soil	1	4° C											HOLD
62		14C-d (1-1.5')	10/13/2014	1356	Soil	1	4° C	X										
63		14C-d (1.5-2')	10/13/2014	1357	Soil	1	4° C											HOLD
64		14C-e (1-1.5')	10/13/2014	1358	Soil	1	4° C	X										
65		14C-e (1.5-2')	10/13/2014	1359	Soil	1	4° C											HOLD
66		14C-f (1-1.5')	10/13/2014	1404	Soil	1	4° C	X										
67		14C-f (1.5-2')	10/13/2014	1405	Soil	1	4° C											HOLD
68		14E-c (1-1.5')	10/13/2014	1200	Soil	1	4° C	X										
69		14E-c (1.5-2')	10/13/2014	1201	Soil	1	4° C											HOLD
70		14E-d (1-1.5')	10/13/2014	1223	Soil	1	4° C	X										
71		14E-d (1.5-2')	10/13/2014	1224	Soil	1	4° C											HOLD
72		14E-i (1-1.5')	10/13/2014	1208	Soil	1	4° C	X										
73		14E-i (1.5-2')	10/13/2014	1209	Soil	1	4° C											HOLD
74		15B-f (1-1.5')	10/13/2014	1441	Soil	1	4° C	X										
75		15B-f (1.5-2')	10/13/2014	1442	Soil	1	4° C											HOLD

Signature

11/11/14 0900

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CJI Supplemental Chain of Custody Form

1242

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	
76		15B-i (1-1.5')	10/13/2014	1506	Soil	1	4° C	X										
77		15B-i (1.5-2')	10/13/2014	1507	Soil	1	4° C											HOLD
78		15C-a (1-1.5')	10/13/2014	1434	Soil	1	4° C	X										
79		15C-a (1.5-2')	10/13/2014	1435	Soil	1	4° C											HOLD
80		15C-d (1-1.5')	10/13/2014	1447	Soil	1	4° C	X										
81		15C-d (1.5-2')	10/13/2014	1448	Soil	1	4° C											HOLD
82		15C-e (1-1.5')	10/13/2014	1453	Soil	1	4° C	X										
83		15C-e (1.5-2')	10/13/2014	1454	Soil	1	4° C											HOLD
84		15C-h (1-1.5')	10/13/2014	1500	Soil	1	4° C	X										
85		15C-h (1.5-2')	10/13/2014	1501	Soil	1	4° C											HOLD
86		15D-a (1-1.5')	10/13/2014	1529	Soil	1	4° C	X										
87		15D-a (1.5-2')	10/13/2014	1530	Soil	1	4° C											HOLD
88		15D-f (1-1.5')	10/13/2014	1522	Soil	1	4° C	X										
89		15D-f (1.5-2')	10/13/2014	1523	Soil	1	4° C											HOLD
90		15D-g (1-1.5')	10/13/2014	1515	Soil	1	4° C	X										
91		15D-g (1.5-2')	10/13/2014	1516	Soil	1	4° C											HOLD
92		15F-a (1-1.5')	10/13/2014	1216	Soil	1	4° C	X										
93		15F-a (1.5-2')	10/13/2014	1217	Soil	1	4° C											HOLD
94		16B-a (1-1.5')	10/13/2014	1538	Soil	1	4° C	X										
95		16B-a (1.5-2')	10/13/2014	1539	Soil	1	4° C											HOLD
96		16B-b (1-1.5')	10/13/2014	1549	Soil	1	4° C	X										
97		16B-b (1.5-2')	10/13/2014	1550	Soil	1	4° C											HOLD
98		16B-c (1-1.5')	10/13/2014	1556	Soil	1	4° C	X										
99		16B-c (1.5-2')	10/13/2014	1557	Soil	1	4° C											HOLD
100		16C-a (1-1.5')	10/13/2014	1604	Soil	1	4° C	X										
101		16C-a (1.5-2')	10/13/2014	1605	Soil	1	4° C											HOLD
102		17C-c (1-1.5')	10/13/2014	1623	Soil	1	4° C	X										
103		17C-c (1.5-2')	10/13/2014	1624	Soil	1	4° C											HOLD
104		17C-i (1-1.5')	10/13/2014	1628	Soil	1	4° C	X										
105		17C-i (1.5-2')	10/13/2014	1629	Soil	1	4° C											HOLD
106		141113 DUP-1	10/13/2014	1200	Soil	1	4° C	X	X	X	X							
107		141113 DUP-2	10/13/2014	1200	Soil	1	4° C											HOLD
108		141113 DUP-3	10/13/2014	1200	Soil	1	4° C	X										
109		141113 DUP-4	10/13/2014	1200	Soil	1	4° C											HOLD
110		141113 DUP-5	10/13/2014	1200	Soil	1	4° C	X										
111		141113 DUP-6	10/13/2014	1200	Soil	1	4° C											HOLD
112		DIESEL AST 2 (1-1.5')	10/13/2014	1611	Soil	1	4° C						X		X			
113		DIESEL AST 2 (1.5-2')	10/13/2014	1612	Soil	1	4° C											HOLD

Signature

ECI 4/15/14 0900

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COOK-JOYCE, INC.
812 WEST 11TH ST.

AUSTIN, TX 78701
UNITED STATES US

CAD: 6985729/SSF01521
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO CALSCIENCE ENVIORNMENTAL LAB

7440 LINCOLN WAY

GARDEN GROVE CA 92841

(000) 000-0000 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0201 7718 6231 0413

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO APVA

DSR
92841
CA-US SNA

ORIGIN ID:ADSA (512) 474-8097
KEVIN ASHLEY
COOK-JOYCE, INC.
812 WEST 11TH ST.

AUSTIN, TX 78701
UNITED STATES US

SHIP DATE: 14NOV14
ACTWGT: 48.0 LB
DIMS: 24x13x

BILL TH

TO CALSCIENCE ENVIORNME

7440 LINCOLN WAY

GARDEN GROVE CA 9284

(000) 000-0000 REF:
INV:
PO: DEPT:

RT 137

FZ 1242

1 12:00

Fe

TRK# 0201 7718 6228 9208

SATURDAY 1
PRIORITY OVERN

XO APVA

9
CA-US

AUSTIN, TX 78701
UNITED STATES US

TO CALSCIENCE ENVIORNMENTAL LAB

7440 LINCOLN WAY

GARDEN GROVE CA 92841

(000) 000-0000 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0201 7718 6224 6514

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO APVA

DSR
92841
CA-US SNA

CJI Supplemental Chain of Custody Form

1-34

#	Lab Number	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses										Notes
								As	Cd	Pb	Se	Cr	TPH	BTEX	PAHs	Pesti-cides	Herbi-cides	

Notes:

HOLD = Extract for pesticides, then hold.

HOLD = Extract for herbicides, then hold.

Please provide preliminary data for completed analyses (i.e., do not wait to complete herbicide analyses to report other data).

11/14/2014

Signature

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WORK ORDER #: 14-11-1 2 4 2

SAMPLE RECEIPT FORM

Cooler 1 of 3

CLIENT: Cook Joyce

DATE: 11/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.2 °C (CF) = 3.0 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: SO2

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SO2

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: SO2

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: SO2

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Reseaiable Bag **E:** Envelope Reviewed by: SO2

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: SO2

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WORK ORDER #: 14-11-1 2 4 2

SAMPLE RECEIPT FORM

Cooler 2 of 3

CLIENT: Cook-Joyce

DATE: 11/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** SOL

CUSTODY SEALS INTACT:

☒ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** SOL

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present **Checked by:** 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☒
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☐	☐	☒
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☒
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☒4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 836

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 862

Preservative: h: HCL n: HNO_3 **na$_2$**:$Na_2S_2O_3$ **na**: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure **znna**: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 862

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WORK ORDER #: 14-11-[1][2][4][2]

SAMPLE RECEIPT FORM

Cooler 2 of 3

CLIENT: Cook - Joyce

DATE: 11/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** SDZ

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** SDZ

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** SDZ

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SDZ

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** SDZ

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** SDZ

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Calscience TRRP Data Package
Signature Page

Work Order #: **14-11-1242_s1**

Project Name/Number: **Grand Park / 13046.01**

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  b) Dilution factors,
  c) Preparation methods,
  d) Cleanup methods, and
  e) If required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate control limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  d) The laboratory's LCS QC limits.
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits.
- ☒ R8 Laboratory Analytical Duplicates (if applicable) Recovery and Precision, including:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
- ☒ R9 Method Quantitation Limit (MQL) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

Release Statement: "I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the Laboratory Review Checklist and/or Case Narrative provided with the analytical report. I affirm, to the best of my knowledge, that all problems/anomalies observed by this laboratory that might affect the quality of the data have been identified in the Laboratory Review Checklist and/or Case Narrative, and that no information or data has been knowingly withheld that would affect the quality of the data."

Don Burley		**12/22/14**
Name	Signature	Date

Project Manager
Title

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

Laboratory Name: Eurofins Calscience, Inc.	LRC Date: 12/22/14
Project Name: Grand Park / 13046.01	Laboratory Work Order Number: 14-11-1242_s1
Reviewer Name: Don Burley	Prep Batch Number(s): 141217L05; E1216MOIB2

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	**OI**	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report or case narrative?	X				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding time?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were %moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		1) Were all COCs included in the LCS?	X				

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?			X		
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were associated MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC, ER, or case narrative?	X				
		2) Were all necessary corrective actions performed for the reported data?			X		
		3) If requested, is the justification for elevated SDLs documented?			X		

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV and CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analytes within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12)**					
		1) Were the raw data (e.g. chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

		1) Were percent recoveries within method QC limits?	X				
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITION**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**PROFICIENCY TEST REPORTS**					
		1) Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCS?			X		
S12	**OI**	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

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Laboratory Review Checklist
Reportable Data / Supporting Data / Exception Reports

ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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DATA USABILITY SUMMARY

GRAND PARK SITE – LAB REPORT 15-01-1030

FEBRUARY 2015

Prepared for:

City of Frisco
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Prepared by:

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ATTACHMENTS

ATTACHMENT	
A	CALSCIENCE NELAC/TLAP ACCREDITATION
B	DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

1.0 INTRODUCTION

Cook-Joyce, Inc. (CJI) reviewed one analytical data package for samples of environmental media collected at the Grand Park Site in Frisco, Texas. Work at the site was done on behalf of the City of Frisco, which owns the property being evaluated for potential impacts. CJI collected the subject samples in January 2015. All analyses were performed in accordance with the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) and meet Texas Risk Reduction Program (TRRP) requirements. This Data Usability Summary (DUS) was prepared to document the usability of the data in supporting site closure under TRRP.

The Texas Commission on Environmental Quality (TCEQ) document, *Review and Reporting of COC Concentration Data (RG-366/TRRP-13)*, describes the procedures for reviewing and reporting data to ensure they are of sufficient and documented quality, as required by 30 §TAC 350.54. These procedures embody the default objectives for levels of quality control, documentation, and data review that apply to all data generated on or after 1 February 2003 for TRRP compliance, unless alternative project objectives are established prior to sample collection. CJI reviewed the data described herein for conformance with TRRP-13 criteria and any project-specific quality objectives. Any derivations from these criteria are discussed in this DUS.

The following laboratory submittals and field data were examined:

- The laboratory reportable data as identified by TRRP-13;
- The laboratory review checklists (LRCs), associated exception reports and supporting data;
- The laboratory electronic data deliverable (EDD); and
- The field notes from the sampling events.

Samples were analyzed by Calscience, and results were provided to CJI on 26 January 2015 in analytical package 15-01-1030. At the time of data analysis, Calscience was NELAC accredited under the TCEQ's Texas Laboratory Accreditation Program (TLAP) for subject matrices, methods, and analytical parameters, except as may be qualified in this DUS. A copy of Calscience's TLAP certification that is coincident with the sample analyses addressed in this DUS is provided as Attachment A to this Data Usability Summary (DUS).

2.0 INTENDED USE OF DATA

The Grand Park site (the Site) is comprised of recently cultivated farmland, unused pasture, and surface water bodies (Stewart Creek and its tributaries). Grand Park is enrolled in the Voluntary Cleanup Program (VCP) as site number 2592 to evaluate and remediate impacts to the Site from a neighboring and upstream property known as the former Exide Battery Recycling Facility. Impacts that may have resulted from the historical uses of the Site are also being evaluated.

As documented in Section 1 of this DUS and in Table 1, CJI collected 55 discrete soil samples and 8 field duplicates of those samples across portions of the Grand Park Site in January 2015. The following analyses were requested for chemicals of concern (COCs):

- ASTM D-2216 (M) – Moisture content of a solid.
- EPA 6020 – Inductively coupled plasma-mass spectrometry of a solid.
- EPA 8081A – Organochlorine pesticides by gas chromatography.

Specific metals analyzed under EPA 6020 included arsenic, cadmium, lead, and selenium. Select samples were also analyzed for pesticides. One equipment blank was also collected and analyzed for the metals specified above. All of these analytes and methods are recognized fields of accreditation for solid and chemical materials under TCEQ's NELAC certification of Calscience.

2.1 DATA REVIEWED

Table 1 summarizes the sample analyses that were reviewed for this DUS and provides the field identification number of each sample, cross referenced to the laboratory identification number, sample collection date, sample type, analysis performed, and quality control batch numbers. The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and, when provided, case narratives, all of which were included in this review. The LRCs, associated ERs, and analytical reports received from the laboratory are provided in Attachment B to this DUS.

Field data were reviewed to verify that appropriate procedures were used during collection of samples. All reportable data to be provided by the analytical laboratory, as identified in TRRP-13, were reviewed for completeness and conformance with quantitative QC criteria, where applicable, including preservation/holding times, instrument calibrations, blank recovery, internal

standard and surrogate recoveries, laboratory control sample (LCS) results and reproducibilities, matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities, and field duplicate precision.

2.2 PROJECT OBJECTIVES

The overall project objective is to achieve closure of the Grand Park Site through the TCEQ. This DUS evaluates the quality of analytical data provided in the laboratory package identified in Section 1.0 and Table 1. These data represent a discrete portion of the Site and will be used to identify and delineate any environmental impacts in this portion of the Site.

Data review was conducted to identify any potential impacts on sample analytical results as a result of field and/or analytical laboratory activities and ensure that the data are suitable for its use in accordance with TRRP. Quantitative review criteria for each QC parameter were based on laboratory procedure and analytical method requirements and/or TRRP-13 guidance, and these criteria are documented in the summary tables included herein and in the QC summary report section of the analytical data report(s) in Appendix B. No project-specific review criteria were necessary or developed for this project.

3.0 DATA REVIEW RESULTS

3.1 GENERAL DATA PACKAGE REVIEW

Laboratory reports were evaluated for consistency of sample identification labels and laboratory analysis as listed on the COC. In addition, they were reviewed against the TRRP-13 requirements. The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDDs contain all sample results in an acceptable format. The hardcopy laboratory reports and the EDDs include a result, method detection limit (MDL), adjusted method quantitation limit (MQL), which is also referred to as the sample quantitation limit (SQL)[1], and the sample-specific detection limit (SDL)[2] for each analysis. The SDL is that value below which the COC cannot be reliably detected.

In accordance with TRRP requirements, a laboratory defines "non-detect" results as less than the value of the SDL.[3] "Estimated" results are typically "J" qualified by the laboratory; results are estimated rather than quantified when a compound is determined to be present at a concentration less than the SQL, but greater than the SDL.

3.1.1 Appropriate Reporting

Soil results are reported on a dry weight basis. Metals results are reported in milligrams per kilogram (mg/Kg). Pesticides are reported in micrograms per kilogram (µg/Kg). The aqueous equipment blank sample analyzed for metals was reported in milligrams per liter (mg/L). Non-detects are reported using the SDL as specified in TRRP, and detects between the SDL and the SQL are reported as estimated concentrations with a laboratory J-flag.

None of the samples required dilution due to the high concentration of an analyte or matrix interferences. There were no elevated reporting limits for "non-detects".

---

[1] The SQL represents the MQL adjusted for moisture and sample size. The MQL is defined in §350.4(54) as "The lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory."

[2] The SDL is defined as the MDL adjusted to reflect sample-specific factors such as sample characteristics, sample preparation, and analytical adjustments. The MDL is "the minimum concentration of a COC the laboratory would measure and report with 99% confidence that the analyte concentration is greater than zero and is determined for each COC in a reagent matrix."

[3] Certain laboratories may assign a "U" qualifier to non-detect results. For clarity, CJI does not include laboratory assigned "U" qualifiers in our data tables. Instead, "U" qualified data are represented as "<" the SDL.

3.1.2 Chain-of-Custody Procedures

Proper sample custody procedures confirm that the integrity of the samples was maintained. Each cooler containing samples addressed in this report was shipped to Calscience following these procedures. All samples were labeled correctly, and the appropriate analytical tests were performed by the laboratory.

3.1.3 Holding Times and Preservation

Samples were collected and placed into laboratory supplied containers. After collection in laboratory supplied containers, all samples were immediately placed in an ice-filled cooler and maintained on ice until their receipt by the analytical laboratory. The laboratory measured the temperature blank in each cooler upon its receipt; none of the data were qualified based on receiving temperature. CJI also compared the date of sample collection to the date of sample analysis to identify any samples that did not meet sample holding requirements. Based on our review, all samples reviewed for this DUS were analyzed within their appropriate holding times. Preservation and hold time requirements are provided in Table 2.

3.1.4 Blanks

Field and trip blanks were not collected or analyzed during sampling activities associated with this DUS. One equipment blank was collected off of the hand auger used for vertical delineation sample collection. The sample was analyzed for arsenic, cadmium, lead, and selenium. All results were below detection levels for the equipment blank.

3.1.5 Quality Control Sample Spikes

TRRP-13 requires that the laboratory's quality control samples, such as laboratory control samples (LCSs), laboratory control sample duplicates (LCSDs), matrix spikes (MSs), and matrix spike duplicates (MSDs), be spiked with all of the analytes reported by the laboratory. An exception to this rule is when an analyte is comprised of multiple compounds. Polychlorinated biphenyls (PCBs) are an example for this type of analyte.

Based on CJI's review, the quality control samples for total metals were spiked with all of the analytes reported by the laboratory. However, the LCSs for pesticide analyses were not. Nineteen

(19) analytes were reported for method 8081A; only 17 of those analytes appear as spikes in the LCSs. The 2 analytes that were not spiked are chlordane and toxaphene.

Chlordane and toxaphene are "multi-peak" compounds similar to PCBs. Both are comprised of hundreds of constituents. When analyzing for these types of compounds, TRRP-13 states that, "the LCS must be spiked with standards that represent the range and characteristics of the COCs for the project." CJI has concluded that the other pesticide spikes meet this criterion.

3.2 ANALYTICAL RESULTS

Laboratory analyses are divided into QC batches, in which samples are prepared for analysis (e.g. extractions). Each QC batch includes appropriate QC samples required for analysis – such as matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples (LCS). This information was provided by the laboratory in the analytical packages. Each sample ID and analysis performed is listed with its associated QC batch in Table 1 of this DUS.

Each qualified analyte and sample qualification rationale is listed in Table 3 of this DUS. Further details on data qualifications are discussed in the following subsections.

3.2.1 Calibrations

According to the LRCs, initial and continuing calibration data met method requirements in all cases. No data were qualified due to initial or continuing calibration issues.

3.2.2 Lab Blanks

Laboratory QC results and provided LRCs were reviewed to identify any COC concentrations exceeding the MDL in required method blanks. There were no samples in which detection of blank constituents resulted in sample qualification.

3.2.3 Surrogate Recoveries

When applicable, surrogate recovery data are used to evaluate potential bias in the analytical results for each sample that could have been introduced by the preparatory procedures and/or the analysis. Surrogates are typically used in organic analyses and were not used for the metal analyses evaluated in this DUS. Each sample, standard, and method blank was spiked with the appropriate surrogates. According to the LRCs and based on the data provided in the reports and

EDDs, all surrogate recoveries were within surrogate recovery control limits (between 60 and 140% per TRRP-13) except where noted below. Table 4 lists any data qualifications based on surrogate recoveries.

- Pesticide results for samples 9F-f and 150112 DUP-1 are qualified due to surrogate recoveries being below specifications Detected results are qualified with a JL, and non-detects are qualified with a UJL.

3.2.4 Laboratory Control Samples/Laboratory Control Sample Duplicates

Laboratory Control Samples (LCSs) are generated to evaluate the accuracy of the analytical method and the laboratory's performance. Laboratory Control Sample Duplicates (LCSDs) may also be analyzed to evaluate the laboratory's precision.

If LCS recoveries are above specifications, then results generally are estimated high (JH). If recoveries are below specifications, then results generally are qualified as estimated low (JL). If recoveries are below 30% for metals or 10% for organics, then results are estimated low or rejected (R).

All of the analytes reported by the laboratory were spiked in the LCSs (with the exception of the two pesticides chlordane and toxaphene). According to the LRCs and based on the data provided in the reports and EDDs, the recoveries of all of the spiked compounds were within the recovery control limits developed by the laboratory. In addition to the comparison to the laboratory specified control limits, CJI also compared the data to TRRP-13 review standards (a standardized control limit of 70-130% for metals and 60-140% for organics). No data were qualified due to LCS percent recoveries when compared to TRRP-13 control limits. Table 5 lists any data qualifications based on LCS recoveries.

An LCSD sample was not analyzed by Calscience, therefore, there was no data qualification based on LCS/LCSD relative percent differences.

3.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix Spike/Matrix Spike Duplicates (MS/MSDs) were used to evaluate the impact of the sample matrix on analytical recoveries. MS/MSD recoveries were used to assist in sample qualification in connection with other data quality indicators. In general, sample results were not qualified on

MS/MSD recovery data alone. LCS recoveries were also checked, and these were used to support MS/MSD data qualification. In cases where no other precision data could be evaluated (i.e. the absence of field duplicate samples), the data were qualified based on MS/MSD reproducibilities alone.

MS/MSD recoveries were compared to both laboratory control limits and TRRP-13 review criteria for metals (70% - 130%, but not less than 30%) and for organics (60% - 140%, but not less than 10%). MS/MSD relative percent differences were also compared to both laboratory control limits and TRRP-13 review criteria (acceptable within 30% for metals and 40% for organics).

MS/MSD Spike Accuracy

MS/MSD recoveries were typically reported within acceptance criteria in the data packages reviewed for this DUS. Table 6A lists any data qualifications based on MS/MSD recoveries. MS/MSD recoveries outside control limits and the reasoning behind data qualification or non-qualification based on these recoveries are discussed below.

- For QC Batch 150119S05, the MS taken from 19G-a (1-1.5') had lead recoveries that were above control limits. Lead recoveries were within control limits for the associated MSD and LCS samples, therefore, no data are qualified based on recoveries from this MS samples.
- For QC Batch 150119S11, the MS and MSD taken from laboratory sample 15-01-0932-26 for the pesticide endrin aldehyde had recoveries that were below control limits. Endrin aldehyde recoveries were within control limits for the associated LCS sample. Therefore, there are no data qualifications based on these MS/MSD recoveries.
- MS/MSD recoveries were acceptable for all other analyses.

MS/MSD Spike Precision

MS/MSD reproducibilities were reported within acceptance criteria in the data packages reviewed for this DUS. MS/MSD relative percent differences (RPDs) were compared to both laboratory control limits and TRRP-13 review criteria. Table 6B lists any data qualifications based on MS/MSD RPDs. MS/MSD reproducibilities outside control limits and the reasoning behind data qualification or non-qualification based on these reproducibilities are discussed below.

- The arsenic RPD for sample 21H-a (1-1.5') was outside the laboratory's control limit, but was within TRRP-13 criteria. Therefore, there are no arsenic qualifications based on MS/MSD reproducibilities.

3.2.6 Post Digestion Spikes

Post digestion spikes (PDSs) were performed for metals analyses in each data package. All PDS recoveries were within laboratory (75%-125%) and TRRP-13 (70%-130%) control limits.

3.2.7 Detectability Check Sample

A detectability check sample (DCS) is a reagent matrix spiked by the laboratory with analytes near, or within two or three times, the calculated MDL and carried through the sample preparation procedures for the analysis. DCSs are used to test the lab's ability to detect analytes concentrations near the MQL. DCSs were not performed for the subject data. Calscience's MDLs are adjusted and supported by the analysis of annual MDL/RL verifications per NELAC requirements. Some of the MDLs (including those for the EPA 6020 Metals) are also supported by quarterly LOD/LOQ verifications per Department of Defense requirements.

3.2.8 Laboratory Duplicates

Duplicate analysis for moisture content was performed on 4 samples analyzed for this project. The RPD for the result of the duplicate analysis when compared with the original met the laboratory's control limits of 0-10%. No data are qualified based on laboratory duplicate data.

3.2.9 Adequacy of MQLs and SDLs

MQLs and, where applicable, SDLs were compared to the constituent specific, critical protective concentration limits (PCLs) for a residential site with an affected property that is between 0.5 and 30 acres in size (or the background values, if greater than the critical PCLs) to evaluate whether the laboratory was able to achieve sufficiently low limits. The critical PCLs/background values comprise the assessment targets and represent the Levels of Required Performance (LORPs).

These comparisons were primarily made because sample specific interferences or elevated COC concentrations may affect the laboratory's ability to detect or quantify a COC below the LORP. In addition, concentrations of certain chemical parameters in environmental media cannot be quantified using currently-available analytical technologies.

All MQLs in the data packages addressed herein were below their respective LORPs for the requested analytes.

3.2.10 Field Precision

Field duplicate precision was reviewed in sample sets where they were obtained. Field duplicate samples were collected at the locations listed below. Analytical results of the original sample and the duplicate sample are compared in Tables 7A and 7B.

- 9F-f / 150112 DUP-1
- 18L-a (1-1.5') / 150113 DUP-1
- 19H-a (1-1.5') / 150113 DUP-3
- 17M-f (1-1.5') / 150114 DUP-1
- 18L-d (1-1.5') / 150114 DUP-3
- 18L-g (1-1.5') / 150114 DUP-5
- 8N-a (1-1.5') / 150115 DUP-1
- 18O-a (1-1.5') / 150115 DUP-3

Reproducibility is calculated by dividing the difference of the two duplicate analytical results (R1 – R2) by the average of the two results, then multiplying by 100 to obtain a percentage, as shown in

the equation below. The acceptable range of reproducibility for metal analyses is 0 to 50% and for organic analyses is 0 to 40%.

$$\text{Reproducibility} = \frac{[R1 - R2]}{\left[(R1 + R2)/2\right]} \times 100$$

A comparison of the reproducibilities for the sample/duplicate sets described above is provided in Tables 7A and 7B. Based on the comparisons provided in these tables, all of the reproducibilities for sample / field duplicate pairs are acceptable.

3.3 FIELD PROCEDURES/RECORDS

Samples were collected according to CJI's standard operating procedures (SOPs). Field notes documenting sample collection activities were also reviewed. No data qualification was required based on field procedures or field records.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In genaral, the data quality was good. Critical samples collected for comparison to risk based PCLs to idantify any exceedances or trends were usable and no data gaps were identified. Any specific data quality issues are identifiad in the text of this document.

To address tha issues identified during data review recommendations for future monitoring at this site include:

- MS/MSDs should continue to be analyzed on samples from this Sita so that matrix affects can be evaluated.
- In genaral, analytical results from all reviewed samples are usable for their intended purpose, and sampling should continua as conducted.

Kevin Lonseth		1/29/2015
Data Reviewer	Signature	Date

TABLES

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES -
LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Pesticides (EPA 8081A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch
1/12/2015	150112 DUP-1	15-01-1030	107	Solid	FD	X	150119L06	X	150119L11	X	F0119MOIB3
1/13/2015	150113 DUP-1	15-01-1030	108	Solid	FD	X	150119L06			X	F0119MOIB3
1/13/2015	150113 DUP-3	15-01-1030	110	Solid	FD	X	150119L06			X	F0119MOIB3
1/14/2015	150114 DUP-1	15-01-1030	112	Solid	FD	X	150119L06			X	F0119MOIB3
1/14/2015	150114 DUP-3	15-01-1030	114	Solid	FD	X	150119L06			X	F0119MOIB3
1/14/2015	150114 DUP-5	15-01-1030	116	Solid	FD	X	150119L06			X	F0119MOIB4
1/15/2015	150115 DUP-1	15-01-1030	118	Solid	FD	X	150119L06			X	F0119MOIB4
1/15/2015	150115 DUP-3	15-01-1030	120	Solid	FD	X	150119L06			X	F0119MOIB4
1/13/2015	10H-b (1-1.5')	15-01-1030	19	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/15/2015	10I-b (1-1.5')	15-01-1030	21	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/13/2015	10K-b (1-1.5')	15-01-1030	23	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/13/2015	10M-a (1-1.5')	15-01-1030	25	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/13/2015	13O-a (1-1.5')	15-01-1030	27	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/13/2015	13O-c (1-1.5')	15-01-1030	29	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/14/2015	14F-b (1-1.5')	15-01-1030	31	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/15/2015	15R-a (1-1.5')	15-01-1030	33	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/14/2015	16G-b (1-1.5')	15-01-1030	35	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/14/2015	16L-g (1-1.5')	15-01-1030	95	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/15/2015	16Q-b (1-1.5')	15-01-1030	37	Solid	Inv.	X	150119L04			X	F0119MOIB2
1/14/2015	17H-a (1-1.5')	15-01-1030	39	Solid	Inv.	X	150119L04			X	F0119MOIB2
1/14/2015	17H-b (1-1.5')	15-01-1030	41	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/13/2015	17J-b (1-1.5')	15-01-1030	43	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/13/2015	17M-a (1-1.5')	15-01-1030	45	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/14/2015	17M-c (1-1.5')	15-01-1030	105	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/14/2015	17M-d (1-1.5')	15-01-1030	97	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/14/2015	17M-f (1-1.5')	15-01-1030	99	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/14/2015	18G-a (1-1.5')	15-01-1030	47	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/14/2015	18H-a (1-1.5')	15-01-1030	49	Solid	Inv.	X	150119L04			X	F0119MOIB2
1/13/2015	18L-a (1-1.5')	15-01-1030	51	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/14/2015	18L-d (1-1.5')	15-01-1030	101	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/14/2015	18L-g (1-1.5')	15-01-1030	103	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/13/2015	18M-a (1-1.5')	15-01-1030	53	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/15/2015	18O-a (1-1.5')	15-01-1030	55	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/15/2015	18P-a (1-1.5')	15-01-1030	57	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/14/2015	19G-a (1-1.5')	15-01-1030	59	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/13/2015	19H-a (1-1.5')	15-01-1030	61	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/15/2015	19P-b (1-1.5')	15-01-1030	63	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/14/2015	20G-a (1-1.5')	15-01-1030	65	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/13/2015	20H-a (1-1.5')	15-01-1030	67	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/13/2015	20H-b (1-1.5')	15-01-1030	69	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/15/2015	20O-b (1-1.5')	15-01-1030	71	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/15/2015	20P-a (1-1.5')	15-01-1030	73	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/14/2015	21E-a (P4) (1-1.5')	15-01-1030	75	Solid	Inv.	X	150119L05			X	F0119MOIB2
1/14/2015	21F-a (1-1.5')	15-01-1030	77	Solid	Inv.	X	150119L05			X	F0119MOIB3
1/14/2015	21G-a (1-1.5')	15-01-1030	79	Solid	Inv.	X	150119L05			X	F0119MOIB3
1/13/2015	21H-a (1-1.5')	15-01-1030	81	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/13/2015	21I-a (1-1.5')	15-01-1030	83	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/14/2015	22F-a (1-1.5')	15-01-1030	85	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/14/2015	23E-a (1-1.5')	15-01-1030	87	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/15/2015	23N-b (1-1.5')	15-01-1030	89	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/15/2015	25M-a (1-1.5')	15-01-1030	91	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/15/2015	25N-a (1-1.5')	15-01-1030	93	Solid	Inv.	X	150119L06			X	F0119MOIB3
1/12/2015	7B-d (w)	15-01-1030	4	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/14/2015	8I-a (P3) (1-1.5')	15-01-1030	5	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/13/2015	8K-a (1-1.5')	15-01-1030	7	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/13/2015	8M-a (1-1.5')	15-01-1030	9	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/15/2015	8N-a (1-1.5')	15-01-1030	11	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/12/2015	9F-c	15-01-1030	1	Solid	Inv.			X	150119L11	X	F0119MOIB1
1/12/2015	9F-d	15-01-1030	2	Solid	Inv.			X	150119L11	X	F0119MOIB1
1/12/2015	9F-f	15-01-1030	3	Solid	Inv.			X	150119L11	X	F0119MOIB1
1/13/2015	9J-a (1-1.5')	15-01-1030	13	Solid	Inv.	X	150119L04			X	F0119MOIB1

TABLE 1
SUMMARY OF SAMPLE IDENTIFICATION, ANALYSES PERFORMED, AND QUALITY CONTROL BATCHES - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Metals (6020)		Pesticides (EPA 8081A)		Moisture (D-2216)	
		Work Order	#				QC Batch		QC Batch		QC Batch
1/13/2015	9K-a (1-1.5')	15-01-1030	15	Solid	Inv.	X	150119L04			X	F0119MOIB1
1/13/2015	9N-a (1-1.5')	15-01-1030	17	Solid	Inv.	X	150119L04			X	F0119MOIB1
	Laboratory Control Sample	15-01-1030	844	Solid	LCS	X	150119L04				
	Laboratory Control Sample	15-01-1030	845	Solid	LCS	X	150119L05				
	Laboratory Control Sample	15-01-1030	846	Solid	LCS	X	150119L06				
	Laboratory Control Sample	15-01-1030	1992	Solid	LCS			X	150119L11		
	Method Blank	15-01-1030	844	Solid	MB	X	150119L04				
	Method Blank	15-01-1030	845	Solid	MB	X	150119L05				
	Method Blank	15-01-1030	846	Solid	MB	X	150119L06				
	Method Blank	15-01-1030	1992	Solid	MB			X	150119L11		
	Method Blank	15-01-1030	5141	Solid	MB					X	F0119MOIB4
	Method Blank	15-01-1030	5142	Solid	MB					X	F0119MOIB1
	Method Blank	15-01-1030	5143	Solid	MB					X	F0119MOIB2
	Method Blank	15-01-1030	5144	Solid	MB					X	F0119MOIB3
1/16/2015	15-01-0932-26	15-01-1030	26	Solid	MS			X	150119L11		
1/14/2015	19G-a (1-1.5')	15-01-1030	59	Solid	MS	X	150119L05				
1/13/2015	21H-a (1-1.5')	15-01-1030	81	Solid	MS	X	150119L06				
1/13/2015	8M-a (1-1.5')	15-01-1030	9	Solid	MS	X	150119L04				
1/16/2015	15-01-0932-26	15-01-1030	26	Solid	MSD			X	150119L11		
1/14/2015	19G-a (1-1.5')	15-01-1030	59	Solid	MSD	X	150119L05				
1/13/2015	21H-a (1-1.5')	15-01-1030	81	Solid	MSD	X	150119L06				
1/13/2015	8M-a (1-1.5')	15-01-1030	9	Solid	MSD	X	150119L04				
1/14/2015	150114 DUP-5	15-01-1030	116	Solid	SDP					X	F0119MOIB4
1/15/2015	16Q-b (1-1.5')	15-01-1030	37	Solid	SDP					X	F0119MOIB2
1/14/2015	21F-a (1-1.5')	15-01-1030	77	Solid	SDP					X	F0119MOIB3
1/12/2015	9F-c	15-01-1030	1	Solid	SDP					X	F0119MOIB1
Total Number of Analyses Reviewed						72		8		71	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
LCS = Laboratory Control Sample
MB = Method Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
SDP = Sample Duplicate (Laboratory)

TABLE 2
SAMPLE PRESERVATION AND HOLDING TIMES - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Parameters	Analytical Method	Preservation	Required Reporting Limit	Holding Time
Moisture Content	ASTM D-2216	Cool 4 ± 2°C	NA	10 days for solids
Total metals (arsenic, cadmium, lead, and selenium)	EPA 6020	Cool 4 ± 2°C[1] Water: Acidify w/ HNO_3 to pH < 2	TRRP Reporting	180 days
Pesticides	EPA 8081A	Cool 4 ± 2°C	TRRP Reporting	7 days for aqueous; 14 days for solids

Notes: 1) Although not required by method, the workplan for this project specified that samples submitted for metal analyses would be preserved with ice.

TABLE 3
SUMMARY OF ALL QUALIFIED DATA - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Date Sample Collected	Field ID	Laboratory ID		Matrix	Sample Type	Method	Analyte	QC Batch	Assigned Qualifier	Reason for Qualification
		Work Order	#							
1/12/2015	9F-f	15-01-1030	3	Soil	Inv.	EPA 8081A	4,4'-DDD	150119L11	JL	Low Surrogate Recoveries
							4,4'-DDE		UJL	
							4,4'-DDT		UJL	
							Aldrin		UJL	
							Alpha-BHC		UJL	
							Beta-BHC		UJL	
							Chlordane		UJL	
							Delta-BHC		UJL	
							Dieldrin		UJL	
							Endosulfan I		UJL	
							Endosulfan II		UJL	
							Endosulfan Sulfate		UJL	
							Endrin		UJL	
							Endrin Aldehyde		UJL	
							Gamma-BHC		UJL	
							Heptachlor		UJL	
							Heptachlor Epoxide		UJL	
							Methoxychlor		UJL	
							Toxaphene		UJL	

Notes: QC = Quality Control
Inv. = Investigation Sample
FD = Field Duplicate
QC Batch numbers for laboratory control samples (LCSs) contain an "L", those for matrix spike/matrix spike duplicates (MS/MSDs) contain an "S". Otherwise the numbers are identical.

TABLE 4
SAMPLE RESULTS QUALIFIED BASED ON SURROGATE RECOVERIES - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample	Surrogate Recovery			Qualifier	
	Work Order	#	Type	Surrogate	%R	Review Limits	Detects	Non-Detects
9F-f	15-01-1030	3	Inv.	Decachlorobiphenyl	55	60-140%	JL	UJL
				2,4,5,6-Tetrachloro-m-Xylene	49			

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low

TABLE 5
SAMPLE RESULTS QUALIFIED BASED ON LCS RECOVERIES - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Sample ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery			Qualifier	
	Work Order	#			Analyte	%R	Review Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on LCS Recoveries					NA	NA

Notes: %R = Percent Recovery
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Colored fill represents QC Batches that appear in several data packages.

TABLE 6A
SAMPLE RESULTS WITH MS/MSD RECOVERIES OUTSIDE OF CONTROL LIMITS - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		Sample Type	QC Batch	Spike Recovery				Review Limits	Qualifier	
	Work Order	#			Analyte	MS %R	MSD %R	Ave %R		Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD Recoveries						NA	NA	NA

Notes: %R = Percent Recovery
Ave %R = Average of matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
R = Data are Rejected
JL = Estimated Result, Biased Low
UJL = Estimated Non-Detect, Biased Low
Light shaded average recoveries are low.
Dark shaded average recoveries are extremely low.

TABLE 6B
MS/MSD RELATIVE PERCENT DIFFERENCES OUTSIDE OF CONTROL LIMITS - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Field ID	Laboratory ID		QC Batch	Analyte	MS	MSD	RPD	Review	Qualifier	
	Work Order	#			%R	%R		Limits	Detects	Non-Detects
NA	NA		No Data Qualifed on MS/MSD RPD's.						NA	NA

Notes: %R = Matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries.
UJL = Estimated Non-Detect, Biased Low

TABLE 7A
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES (METALS) - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

CONSTITUENTS	MQL	18L-a (1-1.5')	150113 DUP-1	Absolute Difference	RPD	19H-a (1-1.5')	150113 DUP-3	Absolute Difference	RPD
		15-01-1030	15-01-1030-108			1/14/2015	1/14/2015-110		
		1/13/2015	1/13/2015			1/13/2015	1/13/2015		
Arsenic	1	11.8	11.5	0.30	2.58	NA	NA	NC	NC
Cadmium	1	NA	NA	NC	NC	2.03	2.20	0.17	8.04
Lead	1	NA	NA	NC	NC	67.9	72.6	4.70	6.69
Selenium	1	NA	NA	NC	NC	NA	NA	NC	NC

CONSTITUENTS	MQL	17M-f (1-1.5')	150114 DUP-1	Absolute Difference	RPD	18L-d (1-1.5')	150114 DUP-3	Absolute Difference	RPD	18L-g (1-1.5')	150114 DUP-5	Absolute Difference	RPD
		15-01-1030	15-01-1030-112			15-01-1030	15-01-1030-114			15-01-1030	15-01-1030-116		
		1/14/2015	1/14/2015			1/14/2015	1/14/2015			1/14/2015	1/14/2015		
Arsenic	1	12.50	11.8	0.70	5.76	13.4	10.6	2.80	23.33	10.5	10.4	0.10	0.96
Cadmium	1	NA	NA	NC	NC	NA	NA	NC	NC	NA	NA	NC	NC
Lead	1	NA	NA	NC	NC	NA	NA	NC	NC	NA	NA	NC	NC
Selenium	1	NA	NA	NC	NC	NA	NA	NC	NC	NA	NA	NC	NC

CONSTITUENTS	MQL	8N-a (1-1.5')	150115 DUP-1	Absolute Difference	RPD	18O-a (1-1.5')	150115 DUP-3	Absolute Difference	RPD
		15-01-1030	15-01-1030-118			15-01-1030	15-01-1030-120		
		1/15/2015	1/15/2015			1/15/2015	1/15/2015		
Arsenic	1	NA	NA	NC	NC	NA	NA	NC	NC
Cadmium	1	NA	NA	NC	NC	NA	NA	NC	NC
Lead	1	15.2	16.5	1.30	8.20	NA	NA	NC	NC
Selenium	1	NA	NA	NC	NC	*0.360*	0.892	0.53	84.98

Notes: RPD = Relative Percent Difference.
MQL = Method Quantitation Limit.
Concentrations for metals reported in mg/Kg.
NC = Not Calculated.
NA = Not Analyzed.
Shaded RPDs are outside of the acceptable range.
Italicized values represent analyte method detection limits used for field duplicate precision calculations.
Shaded RPDs require data to be qualified when:
1) RPD ≥ 50% AND analyte concentrations > 5x MQL.
2a) Analyte concentration < 5x MQL AND absolute difference is ≥ 3x the MQL for INORGANICS.
2b) Analyte concentration < 5x MQL AND absolute difference is ≥ 2x the MQL for ORGANICS.

TABLE 7B
COMPARISON OF ANALYTICAL RESULTS WITH FIELD DUPLICATES (OTHER ANALYTES) - LAB REPORT 15011030
GRAND PARK, FRISCO, TEXAS

Constituent	MQL	9F-f	150112 DUP-1	Absolute Difference	RPD
Sample Collection Date		1/12/2015	1/12/2015		
Laboratory ID Number		15-01-1030-3	15-01-1030-107		
PESTICIDES (ug/kg)					
4,4'-DDD	5.0	4.6	<1.6	NC	NC
4,4'-DDE	5.0	<1.5	2.1	NC	NC
4,4'-DDT	5.0	<1.7	<1.7	NC	NC
Aldrin	5.0	<1.6	<1.6	NC	NC
Alpha-BHC	5.0	<1.6	<1.6	NC	NC
Beta-BHC	5.0	<1.3	<1.3	NC	NC
Chlordane	50	<16	<16	NC	NC
Delta-BHC	5.0	<1.3	<1.3	NC	NC
Dieldrin	5.0	<1.6	<1.6	NC	NC
Endosulfan I	5.0	<1.3	<1.3	NC	NC
Endosulfan II	5.0	<1.4	<1.4	NC	NC
Endosulfan Sulfate	5.0	<1.7	<1.7	NC	NC
Endrin	5.0	<1.8	<1.8	NC	NC
Endrin Aldehyde	5.0	<1.2	<1.2	NC	NC
Gamma-BHC	5.0	<1.7	<1.7	NC	NC
Heptachlor	5.0	<1.6	<1.6	NC	NC
Heptachlor Epoxide	5.0	<1.8	<1.8	NC	NC
Methoxychlor	5.0	<1.6	<1.6	NC	NC
Toxaphene	100	<32	<32	NC	NC

Notes:

RPD = Relative Percent Difference.

MQL = Method Quantitation Limit.

Concentrations for metals reported in mg/Kg.

NC = Not Calculated.

NA = Not Analyzed.

Bold values are detections, shaded RPD's are outside of the acceptable range.

Italicized values represent analyte method detection limits used for field duplicate precision calculations.

Shaded RPD's require data to be qualified when:

1) RPD ≥ 50% AND analyte concentrations > 5x MQL.

2a) Analyte concentration < 5x MQL AND absolute difference is ≥ 3x the MQL for INORGANICS.

2b) Analyte concentration < 5x MQL AND absolute difference is ≥ 2x the MQL for ORGANICS.

ATTACHMENT A

CALSCIENCE NELAC/TLAP ACCREDITATION

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704499-14-4
Effective Date: 8/1/2014
Expiration Date: 7/31/2015

Executive Director Texas Commission on Environmental Quality

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

CERTIFIED MAIL

Mr. Larry Lem
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Lem:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

We are also continuing secondary accreditation based on your application and primary NELAP accreditation from the states of Oregon and New York according to the attached Fields of Accreditation. Your laboratory's secondary accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary Accreditation Bodies.

I am enclosing an accreditation certificate and listing of the fields of accreditation. Please review the enclosures for accuracy and completeness.

In the meantime, please contact me by telephone at (512) 239–3754 or electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4
Expiration Date: 7/31/2015
Issue Date: 8/1/2014

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Air & Emissions***

Method EPA TO-14A

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	NY	5160	10248609
1,1,2,2-Tetrachloroethane	NY	5110	10248609
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248609
1,1,2-Trichloroethane	NY	5165	10248609
1,1-Dichloroethane	NY	4630	10248609
1,1-Dichloroethylene	NY	4640	10248609
1,2,4-Trichlorobenzene	NY	5155	10248609
1,2,4-Trimethylbenzene	NY	5210	10248609
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248609
1,2-Dichlorobenzene	NY	4610	10248609
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248609
1,2-Dichloropropane	NY	4655	10248609
1,3,5-Trimethylbenzene	NY	5215	10248609
1,3-Dichlorobenzene	NY	4615	10248609
1,4-Dichlorobenzene	NY	4620	10248609
Benzene	NY	4375	10248609
Benzyl chloride	NY	5635	10248609
Carbon tetrachloride	NY	4455	10248609
Chlorobenzene	NY	4475	10248609
Chloroethane (Ethyl chloride)	NY	4485	10248609
Chloroform	NY	4505	10248609
cis-1,2-Dichloroethylene	NY	4645	10248609
cis-1,3-Dichloropropene	NY	4680	10248609
Dichlorodifluoromethane (Freon-12)	NY	4625	10248609
Ethylbenzene	NY	4765	10248609
Hexachlorobutadiene	NY	4835	10248609
Methyl bromide (Bromomethane)	NY	4950	10248609
Methyl chloride (Chloromethane)	NY	4960	10248609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

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Matrix: *Air & Emissions*

Methylene chloride (Dichloromethane)	NY	4975	10248609
Styrene	NY	5100	10248609
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248609
Toluene	NY	5140	10248609
trans-1,2-Dichloroethylene	NY	4700	10248609
trans-1,3-Dichloropropylene	NY	4685	10248609
Trichloroethene (Trichloroethylene)	NY	5170	10248609
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248609
Vinyl chloride	NY	5235	10248609
Xylene (total)	NY	5260	10248609

Method EPA TO-15

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	NY	5160	10248803
1,1,2,2-Tetrachloroethane	NY	5110	10248803
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY	5195	10248803
1,1,2-Trichloroethane	NY	5165	10248803
1,1-Dichloroethane	NY	4630	10248803
1,1-Dichloroethylene	NY	4640	10248803
1,2,4-Trichlorobenzene	NY	5155	10248803
1,2,4-Trimethylbenzene	NY	5210	10248803
1,2-Dibromoethane (EDB, Ethylene dibromide)	NY	4585	10248803
1,2-Dichlorobenzene	NY	4610	10248803
1,2-Dichloroethane (Ethylene dichloride)	NY	4635	10248803
1,2-Dichloropropane	NY	4655	10248803
1,3,5-Trimethylbenzene	NY	5215	10248803
1,3-Butadiene	NY	9318	10248803
1,3-Dichlorobenzene	NY	4615	10248803
1,4-Dichlorobenzene	NY	4620	10248803
1,4-Dioxane (1,4-Diethyleneoxide)	NY	4735	10248803
2-Butanone (Methyl ethyl ketone, MEK)	NY	4410	10248803

Texas Commission on Environmental Quality

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Expiration Date: 7/31/2015
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Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427

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Matrix: *Air & Emissions*

Benzene	NY	4375	10248803
Benzyl chloride	NY	5635	10248803
Bromodichloromethane	NY	4395	10248803
Bromoform	NY	4400	10248803
Carbon tetrachloride	NY	4455	10248803
Chlorobenzene	NY	4475	10248803
Chloroethane (Ethyl chloride)	NY	4485	10248803
Chloroform	NY	4505	10248803
cis-1,2-Dichloroethylene	NY	4645	10248803
cis-1,3-Dichloropropene	NY	4680	10248803
Dichlorodifluoromethane (Freon-12)	NY	4625	10248803
Ethylbenzene	NY	4765	10248803
Hexachlorobutadiene	NY	4835	10248803
Methyl bromide (Bromomethane)	NY	4950	10248803
Methyl chloride (Chloromethane)	NY	4960	10248803
Methyl isobutyl ketone (Hexone) (MIBK)	NY	4985	10248803
Methyl tert-butyl ether (MTBE)	NY	5000	10248803
Methylene chloride (Dichloromethane)	NY	4975	10248803
n-Hexane	NY	4855	10248803
Styrene	NY	5100	10248803
Tetrachloroethylene (Perchloroethylene)	NY	5115	10248803
Toluene	NY	5140	10248803
trans-1,2-Dichloroethylene	NY	4700	10248803
trans-1,3-Dichloropropylene	NY	4685	10248803
Trichloroethene (Trichloroethylene)	NY	5170	10248803
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	NY	5175	10248803
Vinyl acetate	NY	5225	10248803
Vinyl chloride	NY	5235	10248803
Xylene (total)	NY	5260	10248803

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Matrix: ***Non-Potable Water***

Method ASTM D516

Analyte	AB	Analyte ID	Method ID
Sulfate	OR	2000	30002201

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	OR	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	OR	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	OR	1000	10013806
Antimony	OR	1005	10013806
Arsenic	OR	1010	10013806
Barium	OR	1015	10013806
Beryllium	OR	1020	10013806
Boron	OR	1025	10013806
Cadmium	OR	1030	10013806
Calcium	OR	1035	10013806
Chromium	OR	1040	10013806
Cobalt	OR	1050	10013806
Copper	OR	1055	10013806
Iron	OR	1070	10013806
Lead	OR	1075	10013806
Magnesium	OR	1085	10013806
Manganese	OR	1090	10013806
Molybdenum	OR	1100	10013806

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Matrix: ***Non-Potable Water***

Nickel	OR	1105	10013806
Potassium	OR	1125	10013806
Selenium	OR	1140	10013806
Silica as SiO2	OR	1990	10013806
Silver	OR	1150	10013806
Sodium	OR	1155	10013806
Thallium	OR	1165	10013806
Tin	OR	1175	10013806
Vanadium	OR	1185	10013806
Zinc	OR	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	OR	1000	10014605
Antimony	OR	1005	10014605
Arsenic	OR	1010	10014605
Barium	OR	1015	10014605
Beryllium	OR	1020	10014605
Boron	OR	1025	10014605
Cadmium	OR	1030	10014605
Chromium	OR	1040	10014605
Cobalt	OR	1050	10014605
Copper	OR	1055	10014605
Iron	OR	1070	10014605
Lead	OR	1075	10014605
Manganese	OR	1090	10014605
Molybdenum	OR	1100	10014605
Nickel	OR	1105	10014605
Selenium	OR	1140	10014605
Silver	OR	1150	10014605
Thallium	OR	1165	10014605

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Matrix: ***Non-Potable Water***

Tin	OR	1175	10014605
Titanium	OR	1180	10014605
Vanadium	OR	1185	10014605
Zinc	OR	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	10053006
Fluoride	OR	1730	10053006
Nitrate as N	OR	1810	10053006
Nitrate-nitrite	OR	1820	10053006
Nitrite as N	OR	1840	10053006
Orthophosphate as P	OR	1870	10053006
Sulfate	OR	2000	10053006

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	OR	1540	10053608

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	OR	1515	10063408

Method EPA 351.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Kjeldahl nitrogen - total (TKN)	OR	1795	10065200

Method EPA 365.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10069804
Phosphorus	OR	1910	10069804

Method EPA 365.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	OR	1870	10070801
Phosphorus	OR	1910	10070801

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Matrix: ***Non-Potable Water***

Method EPA 410.4

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	OR	1565	10077200

Method EPA 420.1

Analyte	AB	Analyte ID	Method ID
Total phenolics	OR	1905	10079400

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204

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Matrix: ***Non-Potable Water***

Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204
Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606

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Matrix: ***Non-Potable Water***

Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606
Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000

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Matrix: ***Non-Potable Water***

Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000
Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802

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Matrix: *Non-Potable Water*

1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802
1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802

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Matrix: *Non-Potable Water*

4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802
Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromochloropropane	OR	4580	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802

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Matrix: *Non-Potable Water*

Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802
Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	OR	4770	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802

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Matrix: ***Non-Potable Water***

Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802
T-amylmethylether (TAME)	OR	4370	10184802
tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805

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Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

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Matrix: *Non-Potable Water*

1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805
2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805

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Matrix: *Non-Potable Water*

4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805
4-Dimethyl aminoazobenzene	OR	6105	10185805
4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805

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Matrix: *Non-Potable Water*

bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805
Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805

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Matrix: ***Non-Potable Water***

Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805
n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method SM 2130 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Turbidity	OR	2055	20042200

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Alkalinity as CaCO3	OR	1505	20045005
Method SM 2340 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20046008
Method SM 2340 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total hardness as CaCO3	OR	1755	20047001
Method SM 2510 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	OR	1610	20048004
Method SM 2540 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	OR	1950	20004608
Method SM 2540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	OR	1955	20049803
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	OR	1960	20004802
Method SM 2540 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	OR	1965	20005009
Method SM 4500-Cl^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	OR	1575	20084804
Method SM 4500-F^- C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	20101808
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	20104603

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-NH3 C	Ammonia as N	OR	1515	20023603
SM 4500-NH3 F	Ammonia as N	OR	1515	20023001
SM 4500-NH3 G	Ammonia as N	OR	1515	20023205
SM 4500-NO_2^- B	Nitrite as N	OR	1840	20024004
SM 4500-NO3 E	Nitrate as N	OR	1810	20114209
	Nitrate-nitrite	OR	1820	20114209
	Nitrite as N	OR	1840	20114209
SM 4500-O G	Oxygen, dissolved	OR	1880	20025405
SM 4500-P E	Orthophosphate as P	OR	1870	20025803
SM 4500-$S2^-$ D	Sulfide	OR	2005	20125400
SM 4500-$SO3^-$ B	Sulfite	OR	2015	20026806
SM 5210 B	Biochemical oxygen demand (BOD)	OR	1530	20027401

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Matrix: ***Non-Potable Water***

Carbonaceous BOD, CBOD	OR	1555	20027401
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	OR	1565	20027809
Method SM 5310 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20137206
Method SM 5310 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	OR	2040	20139202
Method SM 5520 B			
Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	OR	1803	20028802
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	OR	10220	20028802
Method SM 5540 C			
Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	OR	2025	20144405
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	OR	849	10118806

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10155609
Arsenic	OR	1010	10155609
Barium	OR	1015	10155609
Beryllium	OR	1020	10155609
Cadmium	OR	1030	10155609
Chromium	OR	1040	10155609
Cobalt	OR	1050	10155609
Copper	OR	1055	10155609
Lead	OR	1075	10155609
Molybdenum	OR	1100	10155609
Nickel	OR	1105	10155609
Selenium	OR	1140	10155609
Silver	OR	1150	10155609
Thallium	OR	1165	10155609
Vanadium	OR	1185	10155609
Zinc	OR	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Antimony	OR	1005	10156204
Arsenic	OR	1010	10156204
Barium	OR	1015	10156204
Beryllium	OR	1020	10156204
Cadmium	OR	1030	10156204
Chromium	OR	1040	10156204
Cobalt	OR	1050	10156204
Copper	OR	1055	10156204

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Matrix: ***Solid & Chemical Materials***

Lead	OR	1075	10156204
Molybdenum	OR	1100	10156204
Nickel	OR	1105	10156204
Selenium	OR	1140	10156204
Silver	OR	1150	10156204
Thallium	OR	1165	10156204
Vanadium	OR	1185	10156204
Zinc	OR	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	OR	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	OR	9369	10173601
Gasoline range organics (GRO)	OR	9408	10173601

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	OR	7355	10178606
4,4'-DDE	OR	7360	10178606
4,4'-DDT	OR	7365	10178606
Aldrin	OR	7025	10178606
alpha-BHC (alpha-Hexachlorocyclohexane)	OR	7110	10178606
alpha-Chlordane	OR	7240	10178606
beta-BHC (beta-Hexachlorocyclohexane)	OR	7115	10178606
Chlordane (tech.)	OR	7250	10178606
Chlorobenzilate	OR	7260	10178606
delta-BHC (delta-Hexachlorocyclohexane)	OR	7105	10178606
Dieldrin	OR	7470	10178606

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Matrix: *Solid & Chemical Materials*

Endosulfan I	OR	7510	10178606
Endosulfan II	OR	7515	10178606
Endosulfan sulfate	OR	7520	10178606
Endrin	OR	7540	10178606
Endrin aldehyde	OR	7530	10178606
Endrin ketone	OR	7535	10178606
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	OR	7120	10178606
gamma-Chlordane	OR	7245	10178606
Heptachlor	OR	7685	10178606
Heptachlor epoxide	OR	7690	10178606
Hexachlorobenzene	OR	6275	10178606
Methoxychlor	OR	7810	10178606
Toxaphene (Chlorinated camphene)	OR	8250	10178606

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	OR	8880	10179007
Aroclor-1221 (PCB-1221)	OR	8885	10179007
Aroclor-1232 (PCB-1232)	OR	8890	10179007
Aroclor-1242 (PCB-1242)	OR	8895	10179007
Aroclor-1248 (PCB-1248)	OR	8900	10179007
Aroclor-1254 (PCB-1254)	OR	8905	10179007
Aroclor-1260 (PCB-1260)	OR	8910	10179007
PCBs (total)	OR	8870	10179007

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Atrazine	OR	7065	10182000
Azinphos-methyl (Guthion)	OR	7075	10182000
Carbophenothion	OR	7220	10182000
Chlorpyrifos (Dursban)	OR	7300	10182000
Chlorpyrifos-methyl	OR	7305	10182000
Demeton-o	OR	7395	10182000

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Matrix: ***Solid & Chemical Materials***

Demeton-s	OR	7385	10182000
Diazinon	OR	7410	10182000
Famphur	OR	7580	10182000
Malathion	OR	7770	10182000
Methyl parathion (Parathion, methyl)	OR	7825	10182000
Mevinphos	OR	7850	10182000
Naled	OR	7905	10182000
Parathion, ethyl	OR	7955	10182000
Phorate	OR	7985	10182000
Ronnel	OR	8110	10182000
Simazine	OR	8125	10182000
Sulfotepp	OR	8155	10182000

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	OR	8655	10183207
2,4-D	OR	8545	10183207
2,4-DB	OR	8560	10183207
4-Nitrophenol	OR	6500	10183207
Dalapon	OR	8555	10183207
Dicamba	OR	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	OR	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	OR	8620	10183207
MCPA	OR	7775	10183207
MCPP	OR	7780	10183207
Silvex (2,4,5-TP)	OR	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	OR	5105	10184802
1,1,1-Trichloroethane	OR	5160	10184802
1,1,2,2-Tetrachloroethane	OR	5110	10184802
1,1,2-Trichloroethane	OR	5165	10184802

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Matrix: *Solid & Chemical Materials*

1,1-Dichloroethane	OR	4630	10184802
1,1-Dichloroethylene	OR	4640	10184802
1,1-Dichloropropene	OR	4670	10184802
1,2,3,4-Diepoxybutane	OR	4710	10184802
1,2,3-Trichlorobenzene	OR	5150	10184802
1,2,3-Trichloropropane	OR	5180	10184802
1,2,4-Trichlorobenzene	OR	5155	10184802
1,2,4-Trimethylbenzene	OR	5210	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	OR	4585	10184802
1,2-Dichlorobenzene	OR	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	OR	4635	10184802
1,2-Dichloropropane	OR	4655	10184802
1,3,5-Trimethylbenzene	OR	5215	10184802
1,3-Dichloro-2-propanol	OR	4690	10184802
1,3-Dichlorobenzene	OR	4615	10184802
1,3-Dichloropropane	OR	4660	10184802
1,4-Dichlorobenzene	OR	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	OR	4735	10184802
2,2-Dichloropropane	OR	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	OR	4410	10184802
2-Chloroethyl vinyl ether	OR	4500	10184802
2-Chlorotoluene	OR	4535	10184802
2-Hexanone (MBK)	OR	4860	10184802
2-Methylaniline (o-Toluidine)	OR	5145	10184802
2-Nitropropane	OR	5020	10184802
2-Picoline (2-Methylpyridine)	OR	5050	10184802
3-Chloropropionitrile	OR	4530	10184802
4-Chlorotoluene	OR	4540	10184802
4-Methyl-2-pentanone (MIBK)	OR	4995	10184802
Acetone (2-Propanone)	OR	4315	10184802

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Matrix: *Solid & Chemical Materials*

Acetonitrile	OR	4320	10184802
Acrolein (Propenal)	OR	4325	10184802
Acrylonitrile	OR	4340	10184802
Allyl alcohol	OR	4350	10184802
Allyl chloride (3-Chloropropene)	OR	4355	10184802
Benzene	OR	4375	10184802
Benzyl chloride	OR	5635	10184802
Bromoacetone	OR	4380	10184802
Bromobenzene	OR	4385	10184802
Bromochloromethane	OR	4390	10184802
Bromodichloromethane	OR	4395	10184802
Bromoform	OR	4400	10184802
Carbon disulfide	OR	4450	10184802
Carbon tetrachloride	OR	4455	10184802
Chloral hydrate	OR	4460	10184802
Chlorobenzene	OR	4475	10184802
Chlorodibromomethane	OR	4575	10184802
Chloroethane (Ethyl chloride)	OR	4485	10184802
Chloroform	OR	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	OR	4525	10184802
cis-1,2-Dichloroethylene	OR	4645	10184802
cis-1,3-Dichloropropene	OR	4680	10184802
cis-1,4-Dichloro-2-butene	OR	4600	10184802
Crotonaldehyde	OR	4545	10184802
Dibromofluoromethane	OR	4590	10184802
Dibromomethane (Methylene bromide)	OR	4595	10184802
Dichlorodifluoromethane (Freon-12)	OR	4625	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	OR	4745	10184802
Ethyl acetate	OR	4755	10184802
Ethyl methacrylate	OR	4810	10184802

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NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704499-14-4

Eurofins Calscience, Inc.

Expiration Date: 7/31/2015

7440 Lincoln Way
Garden Grove, CA 92841-1427

Issue Date: 8/1/2014

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Matrix: *Solid & Chemical Materials*

Ethylbenzene	OR	4765	10184802
Ethylene oxide	OR	4795	10184802
Hexachlorobutadiene	OR	4835	10184802
Hexachloroethane	OR	4840	10184802
Iodomethane (Methyl iodide)	OR	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	OR	4875	10184802
Isopropylbenzene (Cumene)	OR	4900	10184802
Malononitrile	OR	4920	10184802
Methacrylonitrile	OR	4925	10184802
Methanol	OR	4930	10184802
Methyl bromide (Bromomethane)	OR	4950	10184802
Methyl chloride (Chloromethane)	OR	4960	10184802
Methyl methacrylate	OR	4990	10184802
Methyl tert-butyl ether (MTBE)	OR	5000	10184802
Methylene chloride (Dichloromethane)	OR	4975	10184802
Naphthalene	OR	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	OR	4425	10184802
n-Butylbenzene	OR	4435	10184802
Nitrobenzene	OR	5015	10184802
n-Nitrosodi-n-butylamine	OR	5025	10184802
n-Propylamine	OR	5085	10184802
n-Propylbenzene	OR	5090	10184802
Paraldehyde	OR	5030	10184802
Pentachloroethane	OR	5035	10184802
Pentafluorobenzene	OR	5040	10184802
Propargyl alcohol	OR	5070	10184802
Propionitrile (Ethyl cyanide)	OR	5080	10184802
Pyridine	OR	5095	10184802
sec-Butylbenzene	OR	4440	10184802
Styrene	OR	5100	10184802

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Matrix: ***Solid & Chemical Materials***

tert-Butyl alcohol	OR	4420	10184802
tert-Butylbenzene	OR	4445	10184802
Tetrachloroethylene (Perchloroethylene)	OR	5115	10184802
Toluene	OR	5140	10184802
trans-1,2-Dichloroethylene	OR	4700	10184802
trans-1,3-Dichloropropylene	OR	4685	10184802
trans-1,4-Dichloro-2-butene	OR	4605	10184802
Trichloroethene (Trichloroethylene)	OR	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	OR	5175	10184802
Vinyl acetate	OR	5225	10184802
Vinyl chloride	OR	5235	10184802
Xylene (total)	OR	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	OR	6715	10185805
1,2,4-Trichlorobenzene	OR	5155	10185805
1,2-Dichlorobenzene	OR	4610	10185805
1,2-Dinitrobenzene	OR	6155	10185805
1,2-Diphenylhydrazine	OR	6220	10185805
1,3-Dichlorobenzene	OR	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	OR	6160	10185805
1,4-Dichlorobenzene	OR	4620	10185805
1,4-Dinitrobenzene	OR	6165	10185805
1,4-Naphthoquinone	OR	6420	10185805
1,4-Phenylenediamine	OR	6630	10185805
1-Acetyl-2-thiourea	OR	5520	10185805
1-Chloronaphthalene	OR	5790	10185805
1-Naphthylamine	OR	6425	10185805
2,3,4,6-Tetrachlorophenol	OR	6735	10185805
2,4,5-Trichlorophenol	OR	6835	10185805

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Matrix: ***Solid & Chemical Materials***

2,4,6-Trichlorophenol	OR	6840	10185805
2,4-Diaminotoluene	OR	5880	10185805
2,4-Dichlorophenol	OR	6000	10185805
2,4-Dimethylphenol	OR	6130	10185805
2,4-Dinitrophenol	OR	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	OR	6185	10185805
2,4-Toluene diisocyanate	OR	9636	10185805
2,6-Dichlorophenol	OR	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	OR	6190	10185805
2-Acetylaminofluorene	OR	5515	10185805
2-Chloronaphthalene	OR	5795	10185805
2-Chlorophenol	OR	5800	10185805
2-Cyclohexyl-4,6-dinitrophenol	OR	5865	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	OR	6360	10185805
2-Methylaniline (o-Toluidine)	OR	5145	10185805
2-Methylnaphthalene	OR	6385	10185805
2-Methylphenol (o-Cresol)	OR	6400	10185805
2-Naphthylamine	OR	6430	10185805
2-Nitroaniline	OR	6460	10185805
2-Nitrophenol	OR	6490	10185805
2-Picoline (2-Methylpyridine)	OR	5050	10185805
3,3'-Dimethoxybenzidine	OR	6100	10185805
3-Methylcholanthrene	OR	6355	10185805
3-Methylphenol (m-Cresol)	OR	6405	10185805
3-Nitroaniline	OR	6465	10185805
4-Aminobiphenyl	OR	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	OR	5660	10185805
4-Chloro-3-methylphenol	OR	5700	10185805
4-Chloroaniline	OR	5745	10185805
4-Chlorophenyl phenylether	OR	5825	10185805

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Matrix: *Solid & Chemical Materials*

4-Methylphenol (p-Cresol)	OR	6410	10185805
4-Nitroaniline	OR	6470	10185805
4-Nitrophenol	OR	6500	10185805
5-Nitro-o-toluidine	OR	6570	10185805
7,12-Dimethylbenz(a) anthracene	OR	6115	10185805
a-a-Dimethylphenethylamine	OR	6125	10185805
Acenaphthene	OR	5500	10185805
Acenaphthylene	OR	5505	10185805
Acetophenone	OR	5510	10185805
Aniline	OR	5545	10185805
Anthracene	OR	5555	10185805
Aramite	OR	5560	10185805
Benzenethiol (Thiophenol)	OR	6750	10185805
Benzidine	OR	5595	10185805
Benzo(a)anthracene	OR	5575	10185805
Benzo(a)pyrene	OR	5580	10185805
Benzo(b)fluoranthene	OR	5585	10185805
Benzo(g,h,i)perylene	OR	5590	10185805
Benzo(k)fluoranthene	OR	5600	10185805
Benzoic acid	OR	5610	10185805
Benzyl alcohol	OR	5630	10185805
bis(2-Chloroethoxy)methane	OR	5760	10185805
bis(2-Chloroethyl) ether	OR	5765	10185805
bis(2-Chloroisopropyl) ether	OR	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	OR	6255	10185805
Butyl benzyl phthalate	OR	5670	10185805
Carbazole	OR	5680	10185805
Chrysene	OR	5855	10185805
Dibenz(a,h) anthracene	OR	5895	10185805
Dibenz(a,j) acridine	OR	5900	10185805

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Matrix: ***Solid & Chemical Materials***

Dibenzo(a,e) pyrene	OR	5890	10185805
Dibenzofuran	OR	5905	10185805
Diethyl phthalate	OR	6070	10185805
Diethyl sulfate	OR	6080	10185805
Diethylstilbestrol	OR	6075	10185805
Dihydrosafrole	OR	6090	10185805
Dimethyl phthalate	OR	6135	10185805
Di-n-butyl phthalate	OR	5925	10185805
Di-n-octyl phthalate	OR	6200	10185805
Diphenylamine	OR	6205	10185805
Ethyl carbamate (Urethane)	OR	6250	10185805
Ethyl methanesulfonate	OR	6260	10185805
Fluoranthene	OR	6265	10185805
Fluorene	OR	6270	10185805
Hexachlorobenzene	OR	6275	10185805
Hexachlorobutadiene	OR	4835	10185805
Hexachlorocyclopentadiene	OR	6285	10185805
Hexachloroethane	OR	4840	10185805
Hexachlorophene	OR	6290	10185805
Hexachloropropene	OR	6295	10185805
Indeno(1,2,3-cd) pyrene	OR	6315	10185805
Isophorone	OR	6320	10185805
Isosafrole	OR	6325	10185805
Maleic anhydride	OR	6335	10185805
Methyl methanesulfonate	OR	6375	10185805
Naphthalene	OR	5005	10185805
Nicotine	OR	6450	10185805
Nitrobenzene	OR	5015	10185805
n-Nitrosodiethylamine	OR	6525	10185805
n-Nitrosodimethylamine	OR	6530	10185805

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Matrix: ***Solid & Chemical Materials***

n-Nitrosodi-n-butylamine	OR	5025	10185805
n-Nitrosodi-n-propylamine	OR	6545	10185805
n-Nitrosodiphenylamine	OR	6535	10185805
n-Nitrosomethylethylamine	OR	6550	10185805
n-Nitrosomorpholine	OR	6555	10185805
n-Nitrosopiperidine	OR	6560	10185805
n-Nitrosopyrrolidine	OR	6565	10185805
Pentachlorobenzene	OR	6590	10185805
Pentachloronitrobenzene (PCNB)	OR	6600	10185805
Pentachlorophenol	OR	6605	10185805
Phenacetin	OR	6610	10185805
Phenanthrene	OR	6615	10185805
Phenol	OR	6625	10185805
Phthalic anhydride	OR	6640	10185805
Pronamide (Kerb)	OR	6650	10185805
Propylthiouracil	OR	6660	10185805
Pyrene	OR	6665	10185805
Pyridine	OR	5095	10185805
Resorcinol	OR	6680	10185805
Safrole	OR	6685	10185805
Strychnine	OR	6695	10185805

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	OR	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	OR	1615	10198400
pH	OR	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Fluoride	OR	1730	10199209

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Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT B

DATA REVIEW CHECKLISTS AND ANALYTICAL REPORTS

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WORK ORDER NUMBER: 15-01-1030

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cook-Joyce Inc.

Client Project Name: Grand Park / 13046.01

Attention: Richard Varnell
812 West 11th Street
Austin, TX 78701-2053

Approved for release on 01/26/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 15-01-1030

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Work Order Narrative

Work Order: 15-01-1030 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/17/15. They were assigned to Work Order 15-01-1030.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 15-01-1030
Project Name: Grand Park / 13046.01
PO Number:
Date/Time Received: 01/17/15 09:30
Number of Containers: 122

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
9F-c	15-01-1030-1	01/12/15 15:00	1	Solid
9F-d	15-01-1030-2	01/12/15 15:13	1	Solid
9F-f	15-01-1030-3	01/12/15 15:20	1	Solid
7B-d (w)	15-01-1030-4	01/12/15 15:30	1	Solid
8I-a (P3) (1-1.5')	15-01-1030-5	01/14/15 14:20	1	Solid
8I-a (P3) (1.5-2')	15-01-1030-6	01/14/15 14:20	1	Solid
8K-a (1-1.5')	15-01-1030-7	01/13/15 10:10	1	Solid
8K-a (1.5-2')	15-01-1030-8	01/13/15 10:10	1	Solid
8M-a (1-1.5')	15-01-1030-9	01/13/15 09:45	1	Solid
8M-a (1.5-2')	15-01-1030-10	01/13/15 09:45	1	Solid
8N-a (1-1.5')	15-01-1030-11	01/15/15 07:56	1	Solid
8N-a (1.5-2')	15-01-1030-12	01/15/15 07:56	1	Solid
9J-a (1-1.5')	15-01-1030-13	01/13/15 10:22	1	Solid
9J-a (1.5-2')	15-01-1030-14	01/13/15 10:22	1	Solid
9K-a (1-1.5')	15-01-1030-15	01/13/15 10:50	1	Solid
9K-a (1.5-2')	15-01-1030-16	01/13/15 10:50	1	Solid
9N-a (1-1.5')	15-01-1030-17	01/13/15 09:10	1	Solid
9N-a (1.5-2')	15-01-1030-18	01/13/15 09:10	1	Solid
10H-b (1-1.5')	15-01-1030-19	01/13/15 11:55	1	Solid
10H-b (1.5-2')	15-01-1030-20	01/13/15 11:55	1	Solid
10I-b (1-1.5')	15-01-1030-21	01/15/15 07:36	1	Solid
10I-b (1.5-2')	15-01-1030-22	01/15/15 07:36	1	Solid
10K-b (1-1.5')	15-01-1030-23	01/13/15 11:18	1	Solid
10K-b (1.5-2')	15-01-1030-24	01/13/15 11:18	1	Solid
10M-a (1-1.5')	15-01-1030-25	01/13/15 08:47	1	Solid
10M-a (1.5-2')	15-01-1030-26	01/13/15 08:47	1	Solid
13O-a (1-1.5')	15-01-1030-27	01/13/15 13:23	1	Solid
13O-a (1.5-2')	15-01-1030-28	01/13/15 13:23	1	Solid
13O-c (1-1.5')	15-01-1030-29	01/13/15 13:07	1	Solid
13O-c (1.5-2')	15-01-1030-30	01/13/15 13:07	1	Solid
14F-b (1-1.5')	15-01-1030-31	01/14/15 13:40	1	Solid
14F-b (1.5-2')	15-01-1030-32	01/14/15 13:40	1	Solid
15R-a (1-1.5')	15-01-1030-33	01/15/15 13:15	1	Solid
15R-a (1.5-2')	15-01-1030-34	01/15/15 13:15	1	Solid
16G-b (1-1.5')	15-01-1030-35	01/14/15 12:57	1	Solid
16G-b (1.5-2')	15-01-1030-36	01/14/15 12:57	1	Solid
16Q-b (1-1.5')	15-01-1030-37	01/15/15 09:30	1	Solid
16Q-b (1.5-2')	15-01-1030-38	01/15/15 09:30	1	Solid
17H-a (1-1.5')	15-01-1030-39	01/14/15 12:40	1	Solid
17H-a (1.5-2')	15-01-1030-40	01/14/15 12:40	1	Solid
17H-b (1-1.5')	15-01-1030-41	01/14/15 11:20	1	Solid
17H-b (1.5-2')	15-01-1030-42	01/14/15 11:20	1	Solid

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Sample Summary

Client: Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Work Order: 15-01-1030
Project Name: Grand Park / 13046.01
PO Number:
Date/Time Received: 01/17/15 09:30
Number of Containers: 122

Attn: Richard Varnell

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
17J-b (1-1.5')	15-01-1030-43	01/13/15 14:48	1	Solid
17J-b (1.5-2')	15-01-1030-44	01/13/15 14:48	1	Solid
17M-a (1-1.5')	15-01-1030-45	01/13/15 13:55	1	Solid
17M-a (1.5-2')	15-01-1030-46	01/13/15 13:55	1	Solid
18G-a (1-1.5')	15-01-1030-47	01/14/15 10:40	1	Solid
18G-a (1.5-2')	15-01-1030-48	01/14/15 10:40	1	Solid
18H-a (1-1.5')	15-01-1030-49	01/14/15 11:06	1	Solid
18H-a (1.5-2')	15-01-1030-50	01/14/15 11:06	1	Solid
18L-a (1-1.5')	15-01-1030-51	01/13/15 14:30	1	Solid
18L-a (1.5-2')	15-01-1030-52	01/13/15 14:30	1	Solid
18M-a (1-1.5')	15-01-1030-53	01/13/15 14:13	1	Solid
18M-a (1.5-2')	15-01-1030-54	01/13/15 14:13	1	Solid
18O-a (1-1.5')	15-01-1030-55	01/15/15 08:35	1	Solid
18O-a (1.5-2')	15-01-1030-56	01/15/15 08:35	1	Solid
18P-a (1-1.5')	15-01-1030-57	01/15/15 08:52	1	Solid
18P-a (1.5-2')	15-01-1030-58	01/15/15 08:52	1	Solid
19G-a (1-1.5')	15-01-1030-59	01/14/15 10:23	1	Solid
19G-a (1.5-2')	15-01-1030-60	01/14/15 10:23	1	Solid
19H-a (1-1.5')	15-01-1030-61	01/13/15 15:20	1	Solid
19H-a (1.5-2')	15-01-1030-62	01/13/15 15:20	1	Solid
19P-b (1-1.5')	15-01-1030-63	01/15/15 09:53	1	Solid
19P-b (1.5-2')	15-01-1030-64	01/15/15 09:53	1	Solid
20G-a (1-1.5')	15-01-1030-65	01/14/15 10:07	1	Solid
20G-a (1.5-2')	15-01-1030-66	01/14/15 10:07	1	Solid
20H-a (1-1.5')	15-01-1030-67	01/13/15 15:50	1	Solid
20H-a (1.5-2')	15-01-1030-68	01/13/15 15:50	1	Solid
20H-b (1-1.5')	15-01-1030-69	01/13/15 16:12	1	Solid
20H-b (1.5-2')	15-01-1030-70	01/13/15 16:12	1	Solid
20O-b (1-1.5')	15-01-1030-71	01/15/15 10:39	1	Solid
20O-b (1.5-2')	15-01-1030-72	01/15/15 10:39	1	Solid
20P-a (1-1.5')	15-01-1030-73	01/15/15 10:20	1	Solid
20P-a (1.5-2')	15-01-1030-74	01/15/15 10:20	1	Solid
21E-a (P4) (1-1.5')	15-01-1030-75	01/14/15 08:57	1	Solid
21E-a (P4) (1.5-2')	15-01-1030-76	01/14/15 08:57	1	Solid
21F-a (1-1.5')	15-01-1030-77	01/14/15 09:15	1	Solid
21F-a (1.5-2')	15-01-1030-78	01/14/15 09:15	1	Solid
21G-a (1-1.5')	15-01-1030-79	01/14/15 08:32	1	Solid
21G-a (1.5-2')	15-01-1030-80	01/14/15 08:32	1	Solid
21H-a (1-1.5')	15-01-1030-81	01/13/15 16:26	1	Solid
21H-a (1.5-2')	15-01-1030-82	01/13/15 16:26	1	Solid
21I-a (1-1.5')	15-01-1030-83	01/13/15 16:40	1	Solid
21I-a (1.5-2')	15-01-1030-84	01/13/15 16:40	1	Solid

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Sample Summary

Client:	Cook-Joyce Inc. 812 West 11th Street Austin, TX 78701-2053	Work Order:	15-01-1030
		Project Name:	Grand Park / 13046.01
		PO Number:	
		Date/Time Received:	01/17/15 09:30
		Number of Containers:	122
Attn:	Richard Varnell		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
22F-a (1-1.5')	15-01-1030-85	01/14/15 09:35	1	Solid
22F-a (1.5-2')	15-01-1030-86	01/14/15 09:35	1	Solid
23E-a (1-1.5')	15-01-1030-87	01/14/15 07:55	1	Solid
23E-a (1.5-2')	15-01-1030-88	01/14/15 07:55	1	Solid
23N-b (1-1.5')	15-01-1030-89	01/15/15 14:45	1	Solid
23N-b (1.5-2')	15-01-1030-90	01/15/15 14:45	1	Solid
25M-a (1-1.5')	15-01-1030-91	01/15/15 14:30	1	Solid
25M-a (1.5-2')	15-01-1030-92	01/15/15 14:30	1	Solid
25N-a (1-1.5')	15-01-1030-93	01/15/15 14:17	1	Solid
25N-a (1.5-2')	15-01-1030-94	01/15/15 14:17	1	Solid
16L-g (1-1.5')	15-01-1030-95	01/14/15 14:50	1	Solid
16L-g (1.5-2')	15-01-1030-96	01/14/15 14:50	1	Solid
17M-d (1-1.5')	15-01-1030-97	01/14/15 15:10	1	Solid
17M-d (1.5-2')	15-01-1030-98	01/14/15 15:10	1	Solid
17M-f (1-1.5')	15-01-1030-99	01/14/15 15:20	1	Solid
17M-f (1.5-2')	15-01-1030-100	01/14/15 15:20	1	Solid
18L-d (1-1.5')	15-01-1030-101	01/14/15 15:35	1	Solid
18L-d (1.5-2')	15-01-1030-102	01/14/15 15:35	1	Solid
18L-g (1-1.5')	15-01-1030-103	01/14/15 16:00	1	Solid
18L-g (1.5-2')	15-01-1030-104	01/14/15 16:00	1	Solid
17M-c (1-1.5')	15-01-1030-105	01/14/15 16:15	1	Solid
17M-c (1.5-2')	15-01-1030-106	01/14/15 16:15	1	Solid
150112 DUP-1	15-01-1030-107	01/12/15 12:00	1	Solid
150113 DUP-1	15-01-1030-108	01/13/15 12:00	1	Solid
150113 DUP-2	15-01-1030-109	01/13/15 12:00	1	Solid
150113 DUP-3	15-01-1030-110	01/13/15 12:00	1	Solid
150113 DUP-4	15-01-1030-111	01/13/15 12:00	1	Solid
150114 DUP-1	15-01-1030-112	01/14/15 12:00	1	Solid
150114 DUP-2	15-01-1030-113	01/14/15 12:00	1	Solid
150114 DUP-3	15-01-1030-114	01/14/15 12:00	1	Solid
150114 DUP-4	15-01-1030-115	01/14/15 12:00	1	Solid
150114 DUP-5	15-01-1030-116	01/14/15 12:00	1	Solid
150114 DUP-6	15-01-1030-117	01/14/15 12:00	1	Solid
150115 DUP-1	15-01-1030-118	01/15/15 12:00	1	Solid
150115 DUP-2	15-01-1030-119	01/15/15 12:00	1	Solid
150115 DUP-3	15-01-1030-120	01/15/15 12:00	1	Solid
150115 DUP-4	15-01-1030-121	01/15/15 12:00	1	Solid
Equipment Blank	15-01-1030-122	01/15/15 13:00	1	Aqueous

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QC Association Summary

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
9F-c	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
9F-c	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 41	150119S11	150119L11
9F-d	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
9F-d	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 41	150119S11	150119L11
9F-f	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
9F-f	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 41	150119S11	150119L11
7B-d (w)	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
7B-d (w)	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
8I-a (P3) (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
8I-a (P3) (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
8K-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
8K-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
8M-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
8M-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
8N-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
8N-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
9J-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
9J-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
9K-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
9K-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
9N-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
9N-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
10H-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
10H-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
10I-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
10I-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
10K-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
10K-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
10M-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
10M-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
13O-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
13O-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
13O-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
13O-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
14F-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
14F-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
15R-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
15R-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
16G-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID1	F0119MOIB1
16G-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
16Q-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
16Q-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
17H-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
17H-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
17H-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
17H-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
17J-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
17J-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
17M-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
17M-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
18G-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
18G-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
18H-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
18H-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S04	150119L04
18L-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
18L-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
18M-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
18M-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
18O-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
18O-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
18P-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
18P-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
19G-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
19G-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
19H-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
19H-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
19P-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
19P-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
20G-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
20G-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
20H-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
20H-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
20H-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
20H-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
20O-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
20O-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
20P-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
20P-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
21E-a (P4) (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID2	F0119MOIB2
21E-a (P4) (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
21F-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
21F-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
21G-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
21G-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S05	150119L05
21H-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
21H-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
21I-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
21I-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
22F-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
22F-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
23E-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
23E-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06

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Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
23N-b (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
23N-b (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
25M-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
25M-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
25N-a (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
25N-a (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
16L-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
16L-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
17M-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
17M-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
17M-f (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
17M-f (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
18L-d (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
18L-d (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
18L-g (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
18L-g (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
17M-c (1-1.5')	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
17M-c (1-1.5')	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
150112 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
150112 DUP-1	EPA 8081A Organochlorine Pesticides		EPA 3545	GC 41	150119S11	150119L11
150113 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
150113 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
150113 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
150113 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
150114 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
150114 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
150114 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID3	F0119MOIB3
150114 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
150114 DUP-5	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID4	F0119MOIB4
150114 DUP-5	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
150115 DUP-1	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID4	F0119MOIB4
150115 DUP-1	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
150115 DUP-3	ASTM D-2216 (M) Moisture Content		N/A	N/A	F0119MOID4	F0119MOIB4
150115 DUP-3	EPA 6020 ICP/MS Metals		EPA 3050B	ICP/MS 04	150119S06	150119L06
Equipment Blank	EPA 6020 ICP/MS Metals		EPA 3020A Total	ICP/MS 04	150119S02	150119L02

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-c	**15-01-1030-1-A**	**01/12/15 15:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	23.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-d	**15-01-1030-2-A**	**01/12/15 15:13**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	26.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-f	**15-01-1030-3-A**	**01/12/15 15:20**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	29.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-d (w)	**15-01-1030-4-A**	**01/12/15 15:30**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	27.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8I-a (P3) (1-1.5')	**15-01-1030-5-A**	**01/14/15 14:20**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8K-a (1-1.5')	**15-01-1030-7-A**	**01/13/15 10:10**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	33.7	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8M-a (1-1.5')	**15-01-1030-9-A**	**01/13/15 09:45**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8N-a (1-1.5')	**15-01-1030-11-A**	**01/15/15 07:56**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9J-a (1-1.5')	**15-01-1030-13-A**	**01/13/15 10:22**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9K-a (1-1.5')	**15-01-1030-15-A**	**01/13/15 10:50**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9N-a (1-1.5')	**15-01-1030-17-A**	**01/13/15 09:10**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10H-b (1-1.5')	**15-01-1030-19-A**	**01/13/15 11:55**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.8	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10I-b (1-1.5')	**15-01-1030-21-A**	**01/15/15 07:36**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10K-b (1-1.5')	**15-01-1030-23-A**	**01/13/15 11:18**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10M-a (1-1.5')	**15-01-1030-25-A**	**01/13/15 08:47**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13O-a (1-1.5')	**15-01-1030-27-A**	**01/13/15 13:23**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13O-c (1-1.5')	**15-01-1030-29-A**	**01/13/15 13:07**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14F-b (1-1.5')	**15-01-1030-31-A**	**01/14/15 13:40**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.4	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15R-a (1-1.5')	**15-01-1030-33-A**	**01/15/15 13:15**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16G-b (1-1.5')	**15-01-1030-35-A**	**01/14/15 12:57**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16Q-b (1-1.5')	**15-01-1030-37-A**	**01/15/15 09:30**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	32.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17H-a (1-1.5')	**15-01-1030-39-A**	**01/14/15 12:40**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17H-b (1-1.5')	**15-01-1030-41-A**	**01/14/15 11:20**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17J-b (1-1.5')	**15-01-1030-43-A**	**01/13/15 14:48**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.6	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17M-a (1-1.5')	**15-01-1030-45-A**	**01/13/15 13:55**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	24.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18G-a (1-1.5')	**15-01-1030-47-A**	**01/14/15 10:40**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18H-a (1-1.5')	**15-01-1030-49-A**	**01/14/15 11:06**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18L-a (1-1.5')	**15-01-1030-51-A**	**01/13/15 14:30**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18M-a (1-1.5')	**15-01-1030-53-A**	**01/13/15 14:13**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.2	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18O-a (1-1.5')	**15-01-1030-55-A**	**01/15/15 08:35**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	26.6	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18P-a (1-1.5')	**15-01-1030-57-A**	**01/15/15 08:52**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
19G-a (1-1.5')	**15-01-1030-59-A**	**01/14/15 10:23**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
19H-a (1-1.5')	**15-01-1030-61-A**	**01/13/15 15:20**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
19P-b (1-1.5')	**15-01-1030-63-A**	**01/15/15 09:53**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	15.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20G-a (1-1.5')	**15-01-1030-65-A**	**01/14/15 10:07**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20H-a (1-1.5')	**15-01-1030-67-A**	**01/13/15 15:50**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	23.1	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20H-b (1-1.5')	**15-01-1030-69-A**	**01/13/15 16:12**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.0	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20O-b (1-1.5')	**15-01-1030-71-A**	**01/15/15 10:39**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20P-a (1-1.5')	**15-01-1030-73-A**	**01/15/15 10:20**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21E-a (P4) (1-1.5')	**15-01-1030-75-A**	**01/14/15 08:57**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	13.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21F-a (1-1.5')	**15-01-1030-77-A**	**01/14/15 09:15**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21G-a (1-1.5')	**15-01-1030-79-A**	**01/14/15 08:32**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.0	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
		Units:	%
Project: Grand Park / 13046.01			Page 8 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21H-a (1-1.5')	**15-01-1030-81-A**	**01/13/15 16:26**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21I-a (1-1.5')	**15-01-1030-83-A**	**01/13/15 16:40**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	12.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
22F-a (1-1.5')	**15-01-1030-85-A**	**01/14/15 09:35**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	11.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
23E-a (1-1.5')	**15-01-1030-87-A**	**01/14/15 07:55**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	18.1	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
23N-b (1-1.5')	**15-01-1030-89-A**	**01/15/15 14:45**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	23.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
25M-a (1-1.5')	**15-01-1030-91-A**	**01/15/15 14:30**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.2	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
25N-a (1-1.5')	**15-01-1030-93-A**	**01/15/15 14:17**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16L-g (1-1.5')	**15-01-1030-95-A**	**01/14/15 14:50**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	17.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17M-d (1-1.5')	**15-01-1030-97-A**	**01/14/15 15:10**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	24.6	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17M-f (1-1.5')	**15-01-1030-99-A**	**01/14/15 15:20**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.5	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18L-d (1-1.5')	**15-01-1030-101-A**	**01/14/15 15:35**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18L-g (1-1.5')	**15-01-1030-103-A**	**01/14/15 16:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.3	0.100	0.100	0.100	0.100	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17M-c (1-1.5')	**15-01-1030-105-A**	**01/14/15 16:15**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	23.9	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150112 DUP-1	**15-01-1030-107-A**	**01/12/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	27.3	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150113 DUP-1	**15-01-1030-108-A**	**01/13/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150113 DUP-3	**15-01-1030-110-A**	**01/13/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	19.8	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150114 DUP-1	**15-01-1030-112-A**	**01/14/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	21.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150114 DUP-3	**15-01-1030-114-A**	**01/14/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.0	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150114 DUP-5	**15-01-1030-116-A**	**01/14/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.4	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150115 DUP-1	**15-01-1030-118-A**	**01/15/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	20.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150115 DUP-3	**15-01-1030-120-A**	**01/15/15 12:00**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	22.7	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5142**	**N/A**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5143**	**N/A**	**Solid**	**N/A**	**01/19/15**	**01/19/15 10:00**	**F0119MOIB2**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5144**	**N/A**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB3**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-5141**	**N/A**	**Solid**	**N/A**	**01/19/15**	**01/19/15 18:00**	**F0119MOIB4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Moisture	ND	0.100	0.100	0.100	0.100	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3020A Total
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Equipment Blank	**15-01-1030-122-A**	**01/15/15 13:00**	**Aqueous**	**ICP/MS 04**	**01/19/15**	**01/22/15 16:14**	**150119L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	0.00100	0.000386	0.00100	0.000386	1.00	
Cadmium	ND	0.00100	0.000128	0.00100	0.000128	1.00	
Lead	ND	0.00100	0.0000898	0.00100	0.0000898	1.00	
Selenium	ND	0.00100	0.000168	0.00100	0.000168	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-4659**	**N/A**	**Aqueous**	**ICP/MS 04**	**01/19/15**	**01/20/15 02:24**	**150119L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	0.00100	0.000386	0.00100	0.000386	1.00	
Cadmium	ND	0.00100	0.000128	0.00100	0.000128	1.00	
Lead	ND	0.00100	0.0000898	0.00100	0.0000898	1.00	
Selenium	ND	0.00100	0.000168	0.00100	0.000168	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 1 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
7B-d (w)	**15-01-1030-4-A**	**01/12/15 15:30**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:47**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.6	1.37	0.534	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8I-a (P3) (1-1.5')	**15-01-1030-5-A**	**01/14/15 14:20**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:49**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.7	1.26	0.490	1.00	0.389	1.00	
Cadmium	0.722	1.26	0.151	1.00	0.120	1.00	J
Lead	15.6	1.26	0.172	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8K-a (1-1.5')	**15-01-1030-7-A**	**01/13/15 10:10**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:51**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.771	1.51	0.181	1.00	0.120	1.00	J
Lead	18.2	1.51	0.207	1.00	0.137	1.00	
Selenium	0.582	1.51	0.398	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8M-a (1-1.5')	**15-01-1030-9-A**	**01/13/15 09:45**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:40**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	10.3	1.23	0.169	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
8N-a (1-1.5')	**15-01-1030-11-A**	**01/15/15 07:56**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:53**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	15.2	1.26	0.172	1.00	0.137	1.00	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Grand Park / 13046.01			Page 2 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9J-a (1-1.5')	**15-01-1030-13-A**	**01/13/15 10:22**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:55**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.790	1.23	0.147	1.00	0.120	1.00	J
Lead	23.2	1.23	0.169	1.00	0.137	1.00	
Selenium	0.387	1.23	0.325	1.00	0.264	1.00	B,J

9K-a (1-1.5')	**15-01-1030-15-A**	**01/13/15 10:50**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:57**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	15.0	1.24	0.170	1.00	0.137	1.00	

9N-a (1-1.5')	**15-01-1030-17-A**	**01/13/15 09:10**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:59**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	12.9	1.23	0.169	1.00	0.137	1.00	

10H-b (1-1.5')	**15-01-1030-19-A**	**01/13/15 11:55**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:07**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.505	1.28	0.153	1.00	0.120	1.00	J
Lead	12.5	1.28	0.175	1.00	0.137	1.00	

10I-b (1-1.5')	**15-01-1030-21-A**	**01/15/15 07:36**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:10**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	16.9	1.25	0.172	1.00	0.137	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10K-b (1-1.5')	**15-01-1030-23-A**	**01/13/15 11:18**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:12**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.5	1.27	0.174	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
10M-a (1-1.5')	**15-01-1030-25-A**	**01/13/15 08:47**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:14**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.3	1.28	0.176	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13O-a (1-1.5')	**15-01-1030-27-A**	**01/13/15 13:23**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:16**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	16.8	1.27	0.174	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
13O-c (1-1.5')	**15-01-1030-29-A**	**01/13/15 13:07**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:18**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	15.9	1.28	0.176	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
14F-b (1-1.5')	**15-01-1030-31-A**	**01/14/15 13:40**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:20**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	19.8	1.26	0.489	1.00	0.389	1.00	
Cadmium	1.91	1.26	0.151	1.00	0.120	1.00	
Lead	68.8	1.26	0.172	1.00	0.137	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
15R-a (1-1.5')	**15-01-1030-33-A**	**01/15/15 13:15**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:22**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	ND	1.29	0.340	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16G-b (1-1.5')	**15-01-1030-35-A**	**01/14/15 12:57**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:24**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.525	1.25	0.150	1.00	0.120	1.00	J
Lead	12.7	1.25	0.171	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16Q-b (1-1.5')	**15-01-1030-37-A**	**01/15/15 09:30**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:26**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.4	1.48	0.575	1.00	0.389	1.00	
Lead	18.4	1.48	0.203	1.00	0.137	1.00	
Selenium	0.479	1.48	0.390	1.00	0.264	1.00	B,J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17H-a (1-1.5')	**15-01-1030-39-A**	**01/14/15 12:40**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:51**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.578	1.22	0.147	1.00	0.120	1.00	J
Lead	12.9	1.22	0.168	1.00	0.137	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17H-b (1-1.5')	**15-01-1030-41-A**	**01/14/15 11:20**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:53**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.699	1.16	0.139	1.00	0.120	1.00	J
Lead	24.8	1.16	0.159	1.00	0.137	1.00	
Selenium	0.670	1.16	0.306	1.00	0.264	1.00	J

17J-b (1-1.5')	**15-01-1030-43-A**	**01/13/15 14:48**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:55**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	13.5	1.24	0.171	1.00	0.137	1.00	

17M-a (1-1.5')	**15-01-1030-45-A**	**01/13/15 13:55**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:57**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.9	1.32	0.514	1.00	0.389	1.00	

18G-a (1-1.5')	**15-01-1030-47-A**	**01/14/15 10:40**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 23:59**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.521	1.22	0.147	1.00	0.120	1.00	J
Lead	11.7	1.22	0.168	1.00	0.137	1.00	

18H-a (1-1.5')	**15-01-1030-49-A**	**01/14/15 11:06**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:02**	**150119L04**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.670	1.25	0.149	1.00	0.120	1.00	J
Lead	23.2	1.25	0.171	1.00	0.137	1.00	

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18L-a (1-1.5')	**15-01-1030-51-A**	**01/13/15 14:30**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:04**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.8	1.30	0.505	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18M-a (1-1.5')	**15-01-1030-53-A**	**01/13/15 14:13**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:06**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.1	1.29	0.500	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18O-a (1-1.5')	**15-01-1030-55-A**	**01/15/15 08:35**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:08**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	ND	1.36	0.360	1.00	0.264	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18P-a (1-1.5')	**15-01-1030-57-A**	**01/15/15 08:52**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:10**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	17.1	1.21	0.166	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
19G-a (1-1.5')	**15-01-1030-59-A**	**01/14/15 10:23**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:42**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.613	1.27	0.152	1.00	0.120	1.00	J
Lead	11.4	1.27	0.174	1.00	0.137	1.00	
Selenium	0.581	1.27	0.334	1.00	0.264	1.00	J

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
19H-a (1-1.5')	**15-01-1030-61-A**	**01/13/15 15:20**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:18**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	2.03	1.24	0.149	1.00	0.120	1.00	
Lead	67.9	1.24	0.170	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
19P-b (1-1.5')	**15-01-1030-63-A**	**01/15/15 09:53**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:20**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.621	1.18	0.141	1.00	0.120	1.00	J
Lead	28.5	1.18	0.161	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20G-a (1-1.5')	**15-01-1030-65-A**	**01/14/15 10:07**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:22**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.600	1.28	0.154	1.00	0.120	1.00	J
Lead	20.9	1.28	0.176	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20H-a (1-1.5')	**15-01-1030-67-A**	**01/13/15 15:50**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:24**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	1.87	1.30	0.156	1.00	0.120	1.00	
Lead	66.7	1.30	0.178	1.00	0.137	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20H-b (1-1.5')	**15-01-1030-69-A**	**01/13/15 16:12**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:27**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.632	1.23	0.148	1.00	0.120	1.00	J
Lead	16.7	1.23	0.169	1.00	0.137	1.00	
Selenium	0.502	1.23	0.326	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20O-b (1-1.5')	**15-01-1030-71-A**	**01/15/15 10:39**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:29**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	1.04	1.30	0.155	1.00	0.120	1.00	J
Selenium	0.465	1.30	0.342	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
20P-a (1-1.5')	**15-01-1030-73-A**	**01/15/15 10:20**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:31**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.439	1.28	0.337	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21E-a (P4) (1-1.5')	**15-01-1030-75-A**	**01/14/15 08:57**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:33**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.582	1.16	0.139	1.00	0.120	1.00	J
Lead	17.3	1.16	0.158	1.00	0.137	1.00	
Selenium	0.702	1.16	0.305	1.00	0.264	1.00	J

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21F-a (1-1.5')	**15-01-1030-77-A**	**01/14/15 09:15**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:35**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.457	1.21	0.145	1.00	0.120	1.00	J
Lead	12.1	1.21	0.166	1.00	0.137	1.00	
Selenium	0.460	1.21	0.320	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21G-a (1-1.5')	**15-01-1030-79-A**	**01/14/15 08:32**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 00:37**	**150119L05**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	14.4	1.28	0.499	1.00	0.389	1.00	
Cadmium	0.390	1.28	0.154	1.00	0.120	1.00	J
Lead	15.0	1.28	0.176	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21H-a (1-1.5')	**15-01-1030-81-A**	**01/13/15 16:26**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:45**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.545	1.15	0.138	1.00	0.120	1.00	J
Lead	16.3	1.15	0.157	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
21I-a (1-1.5')	**15-01-1030-83-A**	**01/13/15 16:40**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:02**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.500	1.14	0.137	1.00	0.120	1.00	J
Lead	13.8	1.14	0.157	1.00	0.137	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
22F-a (1-1.5')	**15-01-1030-85-A**	**01/14/15 09:35**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:04**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.707	1.13	0.136	1.00	0.120	1.00	J
Lead	26.5	1.13	0.155	1.00	0.137	1.00	
Selenium	0.761	1.13	0.299	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
23E-a (1-1.5')	**15-01-1030-87-A**	**01/14/15 07:55**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:06**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.481	1.22	0.146	1.00	0.120	1.00	J
Lead	15.5	1.22	0.167	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
23N-b (1-1.5')	**15-01-1030-89-A**	**01/15/15 14:45**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:08**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	18.2	1.31	0.180	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
25M-a (1-1.5')	**15-01-1030-91-A**	**01/15/15 14:30**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:10**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	0.569	1.27	0.152	1.00	0.120	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
25N-a (1-1.5')	**15-01-1030-93-A**	**01/15/15 14:17**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:12**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	4.30	1.26	0.151	1.00	0.120	1.00	
Lead	111	1.26	0.172	1.00	0.137	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
16L-g (1-1.5')	**15-01-1030-95-A**	**01/14/15 14:50**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:14**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.9	1.22	0.474	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17M-d (1-1.5')	**15-01-1030-97-A**	**01/14/15 15:10**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:17**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.8	1.33	0.516	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17M-f (1-1.5')	**15-01-1030-99-A**	**01/14/15 15:20**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:19**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	12.5	1.27	0.496	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18L-d (1-1.5')	**15-01-1030-101-A**	**01/14/15 15:35**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:21**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	13.4	1.29	0.501	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
18L-g (1-1.5')	**15-01-1030-103-A**	**01/14/15 16:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:29**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.5	1.25	0.488	1.00	0.389	1.00	

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SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
17M-c (1-1.5')	**15-01-1030-105-A**	**01/14/15 16:15**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 14:24**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.776	1.31	0.347	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150113 DUP-1	**15-01-1030-108-A**	**01/13/15 12:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:33**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.5	1.28	0.497	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150113 DUP-3	**15-01-1030-110-A**	**01/13/15 12:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:35**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Cadmium	2.20	1.25	0.150	1.00	0.120	1.00	
Lead	72.6	1.25	0.171	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150114 DUP-1	**15-01-1030-112-A**	**01/14/15 12:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:37**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	11.8	1.27	0.495	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150114 DUP-3	**15-01-1030-114-A**	**01/14/15 12:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:39**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.6	1.28	0.499	1.00	0.389	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150114 DUP-5	**15-01-1030-116-A**	**01/14/15 12:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:41**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	10.4	1.29	0.502	1.00	0.389	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150115 DUP-1	**15-01-1030-118-A**	**01/15/15 12:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 01:44**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Lead	16.5	1.26	0.173	1.00	0.137	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150115 DUP-3	**15-01-1030-120-A**	**01/15/15 12:00**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 14:26**	**150119L06**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Selenium	0.892	1.29	0.342	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-844**	**N/A**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:32**	**150119L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	0.308	1.00	0.264	1.00	0.264	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-845**	**N/A**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:34**	**150119L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-846**	**N/A**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:36**	**150119L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Arsenic	ND	1.00	0.389	1.00	0.389	1.00	
Cadmium	ND	1.00	0.120	1.00	0.120	1.00	
Lead	ND	1.00	0.137	1.00	0.137	1.00	
Selenium	ND	1.00	0.264	1.00	0.264	1.00	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-c	**15-01-1030-1-A**	**01/12/15 15:00**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 16:13**	**150119L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	6.5	2.1	5.0	1.6	1.00	
Alpha-BHC	ND	6.5	2.1	5.0	1.6	1.00	
Beta-BHC	ND	6.5	1.7	5.0	1.3	1.00	
Chlordane	ND	65	21	50	16	1.00	
4,4'-DDD	7.1	6.5	2.1	5.0	1.6	1.00	
4,4'-DDE	2.4	6.5	2.0	5.0	1.5	1.00	J
4,4'-DDT	ND	6.5	2.2	5.0	1.7	1.00	
Delta-BHC	ND	6.5	1.7	5.0	1.3	1.00	
Dieldrin	ND	6.5	2.2	5.0	1.6	1.00	
Endosulfan I	ND	6.5	1.7	5.0	1.3	1.00	
Endosulfan II	ND	6.5	1.8	5.0	1.4	1.00	
Endosulfan Sulfate	ND	6.5	2.2	5.0	1.7	1.00	
Endrin	ND	6.5	2.3	5.0	1.8	1.00	
Endrin Aldehyde	ND	6.5	1.6	5.0	1.2	1.00	
Gamma-BHC	ND	6.5	2.3	5.0	1.7	1.00	
Heptachlor	ND	6.5	2.1	5.0	1.6	1.00	
Heptachlor Epoxide	ND	6.5	2.3	5.0	1.8	1.00	
Methoxychlor	ND	6.5	2.1	5.0	1.6	1.00	
Toxaphene	ND	130	41	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-d	**15-01-1030-2-A**	**01/12/15 15:13**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 16:28**	**150119L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	6.8	2.1	5.0	1.6	1.00	
Alpha-BHC	ND	6.8	2.2	5.0	1.6	1.00	
Beta-BHC	ND	6.8	1.8	5.0	1.3	1.00	
Chlordane	ND	68	22	50	16	1.00	
4,4'-DDD	ND	6.8	2.2	5.0	1.6	1.00	
4,4'-DDE	ND	6.8	2.0	5.0	1.5	1.00	
4,4'-DDT	ND	6.8	2.3	5.0	1.7	1.00	
Delta-BHC	ND	6.8	1.7	5.0	1.3	1.00	
Dieldrin	ND	6.8	2.3	5.0	1.6	1.00	
Endosulfan I	ND	6.8	1.8	5.0	1.3	1.00	
Endosulfan II	ND	6.8	1.9	5.0	1.4	1.00	
Endosulfan Sulfate	ND	6.8	2.3	5.0	1.7	1.00	
Endrin	ND	6.8	2.4	5.0	1.8	1.00	
Endrin Aldehyde	ND	6.8	1.7	5.0	1.2	1.00	
Gamma-BHC	ND	6.8	2.4	5.0	1.7	1.00	
Heptachlor	ND	6.8	2.2	5.0	1.6	1.00	
Heptachlor Epoxide	ND	6.8	2.4	5.0	1.8	1.00	
Methoxychlor	ND	6.8	2.2	5.0	1.6	1.00	
Toxaphene	ND	140	43	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
9F-f	**15-01-1030-3-A**	**01/12/15 15:20**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 16:43**	**150119L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	7.1	2.2	5.0	1.6	1.00	
Alpha-BHC	ND	7.1	2.3	5.0	1.6	1.00	
Beta-BHC	ND	7.1	1.9	5.0	1.3	1.00	
Chlordane	ND	71	23	50	16	1.00	
4,4'-DDD	4.6	7.1	2.2	5.0	1.6	1.00	J
4,4'-DDE	ND	7.1	2.1	5.0	1.5	1.00	
4,4'-DDT	ND	7.1	2.4	5.0	1.7	1.00	
Delta-BHC	ND	7.1	1.8	5.0	1.3	1.00	
Dieldrin	ND	7.1	2.3	5.0	1.6	1.00	
Endosulfan I	ND	7.1	1.9	5.0	1.3	1.00	
Endosulfan II	ND	7.1	2.0	5.0	1.4	1.00	
Endosulfan Sulfate	ND	7.1	2.4	5.0	1.7	1.00	
Endrin	ND	7.1	2.5	5.0	1.8	1.00	
Endrin Aldehyde	ND	7.1	1.7	5.0	1.2	1.00	
Gamma-BHC	ND	7.1	2.5	5.0	1.7	1.00	
Heptachlor	ND	7.1	2.3	5.0	1.6	1.00	
Heptachlor Epoxide	ND	7.1	2.5	5.0	1.8	1.00	
Methoxychlor	ND	7.1	2.3	5.0	1.6	1.00	
Toxaphene	ND	140	45	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	55	24-168	
2,4,5,6-Tetrachloro-m-Xylene	49	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
150112 DUP-1	**15-01-1030-107-A**	**01/12/15 12:00**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 17:49**	**150119L11**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	6.9	2.2	5.0	1.6	1.00	
Alpha-BHC	ND	6.9	2.2	5.0	1.6	1.00	
Beta-BHC	ND	6.9	1.8	5.0	1.3	1.00	
Chlordane	ND	69	22	50	16	1.00	
4,4'-DDD	ND	6.9	2.2	5.0	1.6	1.00	
4,4'-DDE	2.1	6.9	2.1	5.0	1.5	1.00	J
4,4'-DDT	ND	6.9	2.3	5.0	1.7	1.00	
Delta-BHC	ND	6.9	1.8	5.0	1.3	1.00	
Dieldrin	ND	6.9	2.3	5.0	1.6	1.00	
Endosulfan I	ND	6.9	1.8	5.0	1.3	1.00	
Endosulfan II	ND	6.9	1.9	5.0	1.4	1.00	
Endosulfan Sulfate	ND	6.9	2.3	5.0	1.7	1.00	
Endrin	ND	6.9	2.5	5.0	1.8	1.00	
Endrin Aldehyde	ND	6.9	1.7	5.0	1.2	1.00	
Gamma-BHC	ND	6.9	2.4	5.0	1.7	1.00	
Heptachlor	ND	6.9	2.2	5.0	1.6	1.00	
Heptachlor Epoxide	ND	6.9	2.4	5.0	1.8	1.00	
Methoxychlor	ND	6.9	2.2	5.0	1.6	1.00	
Toxaphene	ND	140	44	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	55	24-168	
2,4,5,6-Tetrachloro-m-Xylene	47	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Analytical Report

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Grand Park / 13046.01			Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-1992**	**N/A**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 12:10**	**150119L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	SDL	SMDL	MQL	MDL	DF	Qualifiers
Aldrin	ND	5.0	1.6	5.0	1.6	1.00	
Alpha-BHC	ND	5.0	1.6	5.0	1.6	1.00	
Beta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Chlordane	ND	50	16	50	16	1.00	
4,4'-DDD	ND	5.0	1.6	5.0	1.6	1.00	
4,4'-DDE	ND	5.0	1.5	5.0	1.5	1.00	
4,4'-DDT	ND	5.0	1.7	5.0	1.7	1.00	
Delta-BHC	ND	5.0	1.3	5.0	1.3	1.00	
Dieldrin	ND	5.0	1.6	5.0	1.6	1.00	
Endosulfan I	ND	5.0	1.3	5.0	1.3	1.00	
Endosulfan II	ND	5.0	1.4	5.0	1.4	1.00	
Endosulfan Sulfate	ND	5.0	1.7	5.0	1.7	1.00	
Endrin	ND	5.0	1.8	5.0	1.8	1.00	
Endrin Aldehyde	ND	5.0	1.2	5.0	1.2	1.00	
Gamma-BHC	ND	5.0	1.7	5.0	1.7	1.00	
Heptachlor	ND	5.0	1.6	5.0	1.6	1.00	
Heptachlor Epoxide	ND	5.0	1.8	5.0	1.8	1.00	
Methoxychlor	ND	5.0	1.6	5.0	1.6	1.00	
Toxaphene	ND	100	32	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	95	25-145	

Return to Contents

SDL = sample detection limit (adjusted RL). SMDL = sample method detection limit (adjusted MDL). MQL = method quantitation limit (unadjusted RL). MDL = method detection limit (unadjusted MDL)

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-0851-4	**Sample**	**Aqueous**	**ICP/MS 04**	**01/19/15**	**01/20/15 23:23**	**150119S02**
15-01-0851-4	**Matrix Spike**	**Aqueous**	**ICP/MS 04**	**01/19/15**	**01/20/15 02:51**	**150119S02**
15-01-0851-4	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 04**	**01/19/15**	**01/20/15 02:55**	**150119S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	0.001661	0.1000	0.09917	98	0.1047	103	73-127	5	0-11	
Cadmium	ND	0.1000	0.09247	92	0.09618	96	84-114	4	0-8	
Lead	ND	0.1000	0.09610	96	0.09722	97	79-121	1	0-10	
Selenium	ND	0.1000	0.09671	97	0.1040	104	59-125	7	0-12	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
8M-a (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:40**	**150119S04**
8M-a (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:44**	**150119S04**
8M-a (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:46**	**150119S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	13.61	25.00	37.23	94	35.84	89	72-132	4	0-13	
Cadmium	ND	25.00	26.41	106	26.43	106	85-121	0	0-12	
Lead	8.305	25.00	34.09	103	32.75	98	62-134	4	0-23	
Selenium	ND	25.00	23.33	93	22.51	90	54-132	4	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19G-a (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:42**	**150119S05**
19G-a (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 13:47**	**150119S05**
19G-a (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 13:49**	**150119S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.676	25.00	31.92	89	36.38	107	72-132	13	0-13	
Cadmium	ND	25.00	28.56	114	27.91	112	85-121	2	0-12	
Lead	8.977	25.00	42.93	136	41.01	128	62-134	5	0-23	3
Selenium	ND	25.00	26.64	107	28.13	113	54-132	5	0-14	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.
812 West 11th Street
Austin, TX 78701-2053

Project: Grand Park / 13046.01

Date Received: 01/17/15
Work Order: 15-01-1030
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
21H-a (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 22:45**	**150119S06**
21H-a (1-1.5')	**Matrix Spike**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 13:53**	**150119S06**
21H-a (1-1.5')	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/20/15 13:55**	**150119S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.538	25.00	33.53	96	38.68	117	72-132	14	0-13	4
Cadmium	ND	25.00	27.88	112	29.39	118	85-121	5	0-12	
Lead	14.22	25.00	46.03	127	43.77	118	62-134	5	0-23	
Selenium	ND	25.00	25.00	100	26.97	108	54-132	8	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Grand Park / 13046.01			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-0932-26	**Sample**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 14:11**	**150119S11**
15-01-0932-26	**Matrix Spike**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 12:25**	**150119S11**
15-01-0932-26	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 12:40**	**150119S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	23.81	95	23.35	93	50-135	2	0-25	
Alpha-BHC	ND	25.00	21.63	87	20.08	80	50-135	7	0-25	
Beta-BHC	ND	25.00	27.61	110	26.16	105	50-135	5	0-25	
4,4'-DDD	ND	25.00	25.43	102	25.08	100	50-135	1	0-25	
4,4'-DDE	ND	25.00	24.82	99	24.48	98	50-135	1	0-25	
4,4'-DDT	ND	25.00	23.15	93	21.91	88	50-135	6	0-25	
Delta-BHC	ND	25.00	23.40	94	23.23	93	50-135	1	0-25	
Dieldrin	ND	25.00	24.75	99	24.23	97	50-135	2	0-25	
Endosulfan I	ND	25.00	24.97	100	24.76	99	50-135	1	0-25	
Endosulfan II	ND	25.00	24.06	96	23.78	95	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	24.15	97	23.63	95	50-135	2	0-25	
Endrin	ND	25.00	24.70	99	23.67	95	50-135	4	0-25	
Endrin Aldehyde	ND	25.00	11.68	47	11.99	48	50-135	3	0-25	3
Gamma-BHC	ND	25.00	22.23	89	20.57	82	50-135	8	0-25	
Heptachlor	ND	25.00	24.53	98	24.03	96	50-135	2	0-25	
Heptachlor Epoxide	ND	25.00	22.37	89	21.99	88	50-135	2	0-25	
Methoxychlor	ND	25.00	24.18	97	23.34	93	50-135	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-01-0851-4	**Sample**	**Aqueous**	**ICP/MS 04**	**01/19/15 00:00**	**01/20/15 23:23**	**150119S02**
15-01-0851-4	**PDS**	**Aqueous**	**ICP/MS 04**	**01/19/15 00:00**	**01/20/15 15:11**	**150119S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.001661	0.1000	0.09515	93	75-125	
Cadmium	ND	0.1000	0.09631	96	75-125	
Lead	ND	0.1000	0.09938	99	75-125	
Selenium	ND	0.1000	0.09290	93	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
8M-a (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**01/19/15 00:00**	**01/19/15 22:40**	**150119S04**
8M-a (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**01/19/15 00:00**	**01/19/15 21:48**	**150119S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	13.61	25.00	36.43	91	75-125	
Cadmium	ND	25.00	27.45	110	75-125	
Lead	8.305	25.00	33.31	100	75-125	
Selenium	ND	25.00	23.09	92	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
19G-a (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**01/19/15 00:00**	**01/19/15 22:42**	**150119S05**
19G-a (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**01/19/15 00:00**	**01/20/15 13:51**	**150119S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.676	125.0	145.4	109	75-125	
Cadmium	ND	125.0	134.3	107	75-125	
Lead	8.977	125.0	152.4	115	75-125	
Selenium	ND	125.0	141.2	113	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
21H-a (1-1.5')	**Sample**	**Solid**	**ICP/MS 04**	**01/19/15 00:00**	**01/19/15 22:45**	**150119S06**
21H-a (1-1.5')	**PDS**	**Solid**	**ICP/MS 04**	**01/19/15 00:00**	**01/20/15 13:57**	**150119S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.538	125.0	135.7	101	75-125	
Cadmium	ND	125.0	124.5	100	75-125	
Lead	14.22	125.0	144.7	104	75-125	
Selenium	ND	125.0	132.0	106	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
9F-c	**Sample**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 18:00**	**F0119MOID1**
9F-c	**Sample Duplicate**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 18:00**	**F0119MOID1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	23.90	26.10	9	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
16Q-b (1-1.5')	**Sample**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 10:00**	**F0119MOID2**
16Q-b (1-1.5')	**Sample Duplicate**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 10:00**	**F0119MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	32.30	30.60	5	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
21F-a (1-1.5')	**Sample**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 18:00**	**F0119MOID3**
21F-a (1-1.5')	**Sample Duplicate**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 18:00**	**F0119MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	17.40	17.50	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Grand Park / 13046.01			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
150114 DUP-5	**Sample**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 18:00**	**F0119MOID4**
150114 DUP-5	**Sample Duplicate**	**Solid**	**N/A**	**01/19/15 00:00**	**01/19/15 18:00**	**F0119MOID4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	22.40	22.20	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
096-06-003-4659	**LCS**	**Aqueous**	**ICP/MS 04**	**01/19/15**	**01/20/15 02:44**	**150119L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.1000	0.1085	109	80-120	
Cadmium	0.1000	0.1038	104	80-120	
Lead	0.1000	0.1020	102	80-120	
Selenium	0.1000	0.1081	108	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-844	**LCS**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:38**	**150119L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.68	107	80-120	
Cadmium	25.00	26.45	106	80-120	
Lead	25.00	26.17	105	80-120	
Selenium	25.00	25.72	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-845	**LCS**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:40**	**150119L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.18	105	80-120	
Cadmium	25.00	25.88	104	80-120	
Lead	25.00	25.18	101	80-120	
Selenium	25.00	24.74	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Grand Park / 13046.01			Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-846	**LCS**	**Solid**	**ICP/MS 04**	**01/19/15**	**01/19/15 21:42**	**150119L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	25.69	103	80-120	
Cadmium	25.00	26.68	107	80-120	
Lead	25.00	24.61	98	80-120	
Selenium	25.00	25.13	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cook-Joyce Inc.		Date Received:	01/17/15
812 West 11th Street		Work Order:	15-01-1030
Austin, TX 78701-2053		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Grand Park / 13046.01			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-1992	**LCS**	**Solid**	**GC 41**	**01/19/15**	**01/21/15 11:55**	**150119L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	24.11	96	50-135	36-149	
Alpha-BHC	25.00	22.07	88	50-135	36-149	
Beta-BHC	25.00	26.02	104	50-135	36-149	
4,4'-DDD	25.00	24.55	98	50-135	36-149	
4,4'-DDE	25.00	24.63	99	50-135	36-149	
4,4'-DDT	25.00	24.08	96	50-135	36-149	
Delta-BHC	25.00	23.91	96	50-135	36-149	
Dieldrin	25.00	25.20	101	50-135	36-149	
Endosulfan I	25.00	24.78	99	50-135	36-149	
Endosulfan II	25.00	24.15	97	50-135	36-149	
Endosulfan Sulfate	25.00	24.19	97	50-135	36-149	
Endrin	25.00	24.03	96	50-135	36-149	
Endrin Aldehyde	25.00	23.86	95	50-135	36-149	
Gamma-BHC	25.00	22.98	92	50-135	36-149	
Heptachlor	25.00	25.18	101	50-135	36-149	
Heptachlor Epoxide	25.00	22.32	89	50-135	36-149	
Methoxychlor	25.00	24.65	99	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-01-1030 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	687	N/A	1
EPA 6020	EPA 3020A Total	776	ICP/MS 04	1
EPA 6020	EPA 3050B	776	ICP/MS 04	1
EPA 8081A	EPA 3545	669	GC 41	1

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Glossary of Terms and Qualifiers

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Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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15-01-1030

#	Lab No.	CJI Field ID	Date	Time	Matrix	# Con	Preser-vative	Analyses							Notes
								As	Cd	Pb	Se	Cr	Pesti-cides	Herbi-cides	
1		9F-c	1/12/15	1500	Soil	1	4° C						X		
2		9F-d	1/12/15	1513	Soil	1	4° C						X		
3		9F-f	1/12/15	1520	Soil	1	4° C						X		
4		7B-d (w)	1/12/15	1530	Soil	1	4° C	X							
5		8I-a (P3) (1-1.5')	1/14/15	1420	Soil	1	4° C	X	X	X					
6		8I-a (P3) (1.5-2')	1/14/15	1420	Soil	1	4° C								HOLD
7		8K-a (1-1.5')	1/13/15	1010	Soil	1	4° C		X	X	X				
8		8K-a (1.5-2')	1/13/15	1010	Soil	1	4° C								HOLD
9		8M-a (1-1.5')	1/13/15	945	Soil	1	4° C			X					
10		8M-a (1.5-2')	1/13/15	945	Soil	1	4° C								HOLD
11		8N-a (1-1.5')	1/15/15	756	Soil	1	4° C			X					
12		8N-a (1.5-2')	1/15/15	756	Soil	1	4° C								HOLD
13		9J-a (1-1.5')	1/13/15	1022	Soil	1	4° C		X	X	X				
14		9J-a (1.5-2')	1/13/15	1022	Soil	1	4° C								HOLD
15		9K-a (1-1.5')	1/13/15	1050	Soil	1	4° C			X					
16		9K-a (1.5-2')	1/13/15	1050	Soil	1	4° C								HOLD
17		9N-a (1-1.5')	1/13/15	910	Soil	1	4° C			X					
18		9N-a (1.5-2')	1/13/15	910	Soil	1	4° C								HOLD
19		10H-b (1-1.5')	1/13/15	1155	Soil	1	4° C		X	X					
20		10H-b (1.5-2')	1/13/15	1155	Soil	1	4° C								HOLD
21		10I-b (1-1.5')	1/15/15	736	Soil	1	4° C			X					
22		10I-b (1.5-2')	1/15/15	736	Soil	1	4° C								HOLD
23		10K-b (1-1.5')	1/13/15	1118	Soil	1	4° C			X					
24		10K-b (1.5-2')	1/13/15	1118	Soil	1	4° C								HOLD
25		10M-a (1-1.5')	1/13/15	847	Soil	1	4° C			X					
26		10M-a (1.5-2')	1/13/15	847	Soil	1	4° C								HOLD
27		13O-a (1-1.5')	1/13/15	1323	Soil	1	4° C			X					
28		13O-a (1.5-2')	1/13/15	1323	Soil	1	4° C								HOLD
29		13O-c (1-1.5')	1/13/15	1307	Soil	1	4° C			X					
30		13O-c (1.5-2')	1/13/15	1307	Soil	1	4° C								HOLD
31		14F-b (1-1.5')	1/14/15	1340	Soil	1	4° C	X	X	X					
32		14F-b (1.5-2')	1/14/15	1340	Soil	1	4° C								HOLD
33		15R-a (1-1.5')	1/15/15	1315	Soil	1	4° C				X				
34		15R-a (1.5-2')	1/15/15	1315	Soil	1	4° C								HOLD
35		16G-b (1-1.5')	1/14/15	1257	Soil	1	4° C		X	X					
36		16G-b (1.5-2')	1/14/15	1257	Soil	1	4° C								HOLD
37		16Q-b (1-1.5')	1/15/15	930	Soil	1	4° C	X		X	X				
38		16Q-b (1.5-2')	1/15/15	930	Soil	1	4° C								HOLD
39		17H-a (1-1.5')	1/14/15	1240	Soil	1	4° C		X	X					
40		17H-a (1.5-2')	1/14/15	1240	Soil	1	4° C								HOLD
41		17H-b (1-1.5')	1/14/15	1120	Soil	1	4° C		X	X	X				
42		17H-b (1.5-2')	1/14/15	1120	Soil	1	4° C								HOLD
43		17J-b (1-1.5')	1/13/15	1448	Soil	1	4° C			X					
44		17J-b (1.5-2')	1/13/15	1448	Soil	1	4° C								HOLD
45		17M-a (1-1.5')	1/13/15	1355	Soil	1	4° C	X							
46		17M-a (1.5-2')	1/13/15	1355	Soil	1	4° C								HOLD
47		18G-a (1-1.5')	1/14/15	1040	Soil	1	4° C		X	X					
48		18G-a (1.5-2')	1/14/15	1040	Soil	1	4° C								HOLD
49		18H-a (1-1.5')	1/14/15	1106	Soil	1	4° C		X	X					
50		18H-a (1.5-2')	1/14/15	1106	Soil	1	4° C								HOLD
51		18L-a (1-1.5')	1/13/15	1430	Soil	1	4° C	X							
52		18L-a (1.5-2')	1/13/15	1430	Soil	1	4° C								HOLD
53		18M-a (1-1.5')	1/13/15	1413	Soil	1	4° C	X							
54		18M-a (1.5-2')	1/13/15	1413	Soil	1	4° C								HOLD
55		18O-a (1-1.5')	1/15/15	835	Soil	1	4° C				X				

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56		18O-a (1.5-2')	1/15/15	835	Soil	1	4° C								HOLD
57		18P-a (1-1.5')	1/15/15	852	Soil	1	4° C			X					
58		18P-a (1.5-2')	1/15/15	852	Soil	1	4° C								HOLD
59		19G-a (1-1.5')	1/14/15	1023	Soil	1	4° C		X	X	X				
60		19G-a (1.5-2')	1/14/15	1023	Soil	1	4° C								HOLD
61		19H-a (1-1.5')	1/13/15	1520	Soil	1	4° C		X	X					
62		19H-a (1.5-2')	1/13/15	1520	Soil	1	4° C								HOLD
63		19P-b (1-1.5')	1/15/15	953	Soil	1	4° C		X	X					
64		19P-b (1.5-2')	1/15/15	953	Soil	1	4° C								HOLD
65		20G-a (1-1.5')	1/14/15	1007	Soil	1	4° C		X	X					
66		20G-a (1.5-2')	1/14/15	1007	Soil	1	4° C								HOLD
67		20H-a (1-1.5')	1/13/15	1550	Soil	1	4° C		X	X					
68		20H-a (1.5-2')	1/13/15	1550	Soil	1	4° C								HOLD
69		20H-b (1-1.5')	1/13/15	1612	Soil	1	4° C		X	X	X				
70		20H-b (1.5-2')	1/13/15	1612	Soil	1	4° C								HOLD
71		20O-b (1-1.5')	1/15/15	1039	Soil	1	4° C		X		X				
72		20O-b (1.5-2')	1/15/15	1039	Soil	1	4° C								HOLD
73		20P-a (1-1.5')	1/15/15	1020	Soil	1	4° C				X				
74		20P-a (1.5-2')	1/15/15	1020	Soil	1	4° C								HOLD
75		21E-a (P4) (1-1.5')	1/14/15	857	Soil	1	4° C		X	X	X				
76		21E-a (P4) (1.5-2')	1/14/15	857	Soil	1	4° C								HOLD
77		21F-a (1-1.5')	1/14/15	915	Soil	1	4° C		X	X	X				
78		21F-a (1.5-2')	1/14/15	915	Soil	1	4° C								HOLD
79		21G-a (1-1.5')	1/14/15	832	Soil	1	4° C	X	X	X					
80		21G-a (1.5-2')	1/14/15	832	Soil	1	4° C								HOLD
81		21H-a (1-1.5')	1/13/15	1626	Soil	1	4° C		X	X					
82		21H-a (1.5-2')	1/13/15	1626	Soil	1	4° C								HOLD
83		21I-a (1-1.5')	1/13/15	1640	Soil	1	4° C		X	X					
84		21I-a (1.5-2')	1/13/15	1640	Soil	1	4° C								HOLD
85		22F-a (1-1.5')	1/14/15	935	Soil	1	4° C		X	X	X				
86		22F-a (1.5-2')	1/14/15	935	Soil	1	4° C								HOLD
87		23E-a (1-1.5')	1/14/15	755	Soil	1	4° C		X	X					
88		23E-a (1.5-2')	1/14/15	755	Soil	1	4° C								HOLD
89		23N-b (1-1.5')	1/15/15	1445	Soil	1	4° C			X					
90		23N-b (1.5-2')	1/15/15	1445	Soil	1	4° C								HOLD
91		25M-a (1-1.5')	1/15/15	1430	Soil	1	4° C		X						
92		25M-a (1.5-2')	1/15/15	1430	Soil	1	4° C								HOLD
93		25N-a (1-1.5')	1/15/15	1417	Soil	1	4° C		X	X					
94		25N-a (1.5-2')	1/15/15	1417	Soil	1	4° C								HOLD
95		16L-g (1-1.5')	1/14/15	1450	Soil	1	4° C	X							
96		16L-g (1.5-2')	1/14/15	1450	Soil	1	4° C								HOLD
97		17M-d (1-1.5')	1/14/15	1510	Soil	1	4° C	X							
98		17M-d (1.5-2')	1/14/15	1510	Soil	1	4° C								HOLD
99		17M-f (1-1.5')	1/14/15	1520	Soil	1	4° C	X							
100	##	17M-f (1.5-2')	1/14/15	1520	Soil	1	4° C								HOLD
101	##	18L-d (1-1.5')	1/14/15	1535	Soil	1	4° C	X							
102	##	18L-d (1.5-2')	1/14/15	1535	Soil	1	4° C								HOLD
103	##	18L-g (1-1.5')	1/14/15	1600	Soil	1	4° C	X							
104	##	18L-g (1.5-2')	1/14/15	1600	Soil	1	4° C								HOLD
105	##	17M-c (1-1.5')	1/14/15	1615	Soil	1	4° C				X				
106	##	17M-c (1.5-2')	1/14/15	1615	Soil	1	4° C								HOLD
107	##	150112 DUP-1	1/12/15	1200	Soil	1	4° C						X		
108	##	150113 DUP-1	1/13/15	1200	Soil	1	4° C	X							
109	##	150113 DUP-2	1/13/15	1200	Soil	1	4° C								HOLD
110	##	150113 DUP-3	1/13/15	1200	Soil	1	4° C		X	X					
111	##	150113 DUP-4	1/13/15	1200	Soil	1	4° C								HOLD
112	##	150114 DUP-1	1/14/15	1200	Soil	1	4° C	X							
113	##	150114 DUP-2	1/14/15	1200	Soil	1	4° C								HOLD
114	##	150114 DUP-3	1/14/15	1200	Soil	1	4° C	X							

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115	##		150114 DUP-4	1/14/15	1200	Soil	1	4° C								HOLD
116	##		150114 DUP-5	1/14/15	1200	Soil	1	4° C	X							
117	##		150114 DUP-6	1/14/15	1200	Soil	1	4° C								HOLD
118	##		150115 DUP-1	1/15/15	1200	Soil	1	4° C			X					
119	##		150115 DUP-2	1/15/15	1200	Soil	1	4° C								HOLD
120	##		150115 DUP-3	1/15/15	1200	Soil	1	4° C				X				
121	##		150115 DUP-4	1/15/15	1200	Soil	1	4° C								HOLD
122	##		Equipment Blank	1/15/15	1300	Water	1	4° C	X	X	X	X				

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ORIGIN ID:ADSA (714) 895-5494
CALSCIENCE ENVIRONMENTAL LAB
7440 LINCOLN WAY
GARDEN GROVE, CA 928411427
UNITED STATES US

SHIP DATE: 16JAN15
ACTWGT: 55.0 LB MAN
CAD: /OFFC1522
DIMS: 24x14x13 IN
BILL SENDER

TO
CALSCIENCE LABORTORIES
7440 LINCOLN WAY
GARDEN GROVE CA 92841
(123) 456-8790 REF:
INV:
PO: DEPT:

FedEx Express

1 of 3
TRK# 0215 8062 6417 8636
MASTER
XO APVA

SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

(123) 456-8790 REF:
INV:
PO: DEPT:

FedEx Express

3 of 3
MPS# 0681 7801 6852 2508
Mstr# 8062 6417 8636
0215
XO APVA

SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

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1030

FedEx Express

2 of 3
MPS# 0681 7801 6852 2493
Mstr# 8062 6417 8636
0215
XO APVA

SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

1. FedEx will not be responsible f
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WORK ORDER #: 15-01-1030

SAMPLE RECEIPT FORM

Cooler 1 of 3

CLIENT: Cook-Joyce DATE: 01/17/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C + 0.2 °C (CF) = 3.2 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: SO2

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SO2

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: SO2

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** (-122) ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: SO2

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 965

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 965

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WORK ORDER #: 15-01-1030

SAMPLE RECEIPT FORM

Cooler 2 of 3

CLIENT: Cook - Joyce

DATE: 01/17/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** SOZ

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** SOZ

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** SOZ

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SOZ

Container: **C**: Clear **A**: Amber **P**: Plastic **G**: Glass **J**: Jar **B**: Bottle **Z**: Ziploc/Resealable Bag **E**: Envelope **Reviewed by:** 965

Preservative: **h**: HCL **n**: HNO_3 **na$_2$**: $Na_2S_2O_3$ **na**: NaOH **p**: H_3PO_4 **s**: H_2SO_4 **u**: Ultra-pure **znna**: $ZnAc_2$+NaOH **f**: Filtered **Scanned by:** 965

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WORK ORDER #: 15-01-1030

SAMPLE RECEIPT FORM

Cooler 3 of 3

CLIENT: Cook - Joyce

DATE: 01/17/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C + 0.2 °C (CF) = 3.4 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: SOL

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SOL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: SOL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: SOL 965

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: _____

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 965

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Calscience TRRP Data Package
Signature Page

Work Order #: **15-01-1030**

Project Name/Number: **Grand Park / 13046.01**

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) Dilution factors,
  - c) Preparation methods,
  - d) Cleanup methods, and
  - e) If required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate control limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits.
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits.
- ☒ R8 Laboratory Analytical Duplicates (if applicable) Recovery and Precision, including:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- ☒ R9 Method Quantitation Limit (MQL) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

Release Statement: "I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the Laboratory Review Checklist and/or Case Narrative provided with the analytical report. I affirm, to the best of my knowledge, that all problems/anomalies observed by this laboratory that might affect the quality of the data have been identified in the Laboratory Review Checklist and/or Case Narrative, and that no information or data has been knowingly withheld that would affect the quality of the data."

Don Burley		**01/26/15**
Name	Signature	Date

Project Manager
Title

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Laboratory Review Checklist
ortable Data / Supporting Data / Exception Reports

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Laboratory Name: Eurofins Calscience, Inc.	LRC Date: 01/26/15
Project Name: Grand Park / 13046.01	Laboratory Work Order Number: 15-01-1030
Reviewer Name: Don Burley	Prep Batch Number(s): 150119L02, 150119L04, 150119L05

150119L06; 150119L11; F0119MOIB1, F0119MOIB2, F0119MOIB3, F0119MOIB4

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	**OI**	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report or case narrative?	X				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding time?	X				
		2) Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were %moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations <MQL?	X				

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R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		1) Were all COCs included in the LCS?		X			1
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
R6	**OI**	**LABORATORY CONTROL SAMPES (LCS)**					
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?		X			2
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were associated MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		4) Were MS/MSD RPDs within laboratory QC limits?		X			4
R8	**OI**	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs)**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC, ER, or case narrative?	X				
		2) Were all necessary corrective actions performed for the reported data?			X		
		3) If requested, is the justification for elevated SDLs documented?			X		

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ER#[5]	Description
1	EPA 8081A - Chlordane and Toxaphene were not included in the LCS.
2	EPA 8081A - Chlordane and Toxaphene were not included in the MS/MSD.
3	EPA 6020 MS/MSD batch 150119S05: Lead MS recovery was out of control due to suspected matrix interference. The associated LCS recovery was in control.
	EPA 8081A MS/MSD batch 150119S11: Endrin Aldehyde MS/MSD recoveries were out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	EPA 6020 MS/MSD batch 150119S06: Arsenic RPD was out of control due to suspected matrix interference.

From: TCEQ publication RG-366/TRRP-13

1 Items identified by the letter “R” should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable)

3 NA = Not applicable

4 NR = Not reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked)

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#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV and CCV)**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analytes within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	**O**	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	**O**	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12)**					
		1) Were the raw data (e.g. chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?	X				

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S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITION**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**PROFICIENCY TEST REPORTS**					
		1) Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCS?			X		
S12	**OI**	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs)**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

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ER#[5]	Description

From: TCEQ publication RG-366/TRRP-13

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APPENDIX 13

PHOTOGRAPHIC DOCUMENTATION

SITE PHOTOGRAPHS
GRAND PARK PRAA 2
FRISCO, TEXAS

Photo 1 – View of PRAA 2 site north end along Cotton Gin Road, looking east.

Photo 2 – Sample collection in the east-central portion of PRAA 2.

Photo 3 – View of PRAA 2 looking southwest from the PRAA 1 site.

Photo 4 – Photograph showing PRAA 2 site looking north.

Photo 5 – View of dry pond on western side of PRAA 2 near Legacy Drive.

Photo 6 – View of old hay bales located within the PRAA 2 site.

Photo 7 – View of monitoring well GP-MW-7 within PRAA 2.

APPENDIX 14

STANDARD OPERATING PROCEDURES

PARTIAL RESPONSE ACTION AREA 2 INVESTIGATION PROCEDURES

The PRAA 2 site investigation activities were conducted per the Grand Park APA Workplan approved by the TCEQ on 28 March 2014.

Sample Collection Procedures

CJI used the following sample collection procedures while performing the PRAA 2 field work:

- CJI used AutoCAD™ to derive northings and eastings for each of the previously proposed sample locations in PRAA 2.

- Those locations were loaded into a survey-grade Trimble "GeoXH" 6000 series GPS unit. This GPS unit was used to locate each sample location in the field.

- Once the general location for each sample was located, CJI placed the GPS unit on the ground next to the sample location and collected a minimum of 60 independent GPS measurements. Those measurements were post processed and provide each sample location with a minimum accuracy of ±1 meter.

- While one member in each 2-person sampling crew was collecting the GPS measurements, the second would don new disposable, nitrile or latex gloves and collect a sample of surface soil using a single use, disposable plastic sampling trowel. The maximum depth of each sample was approximately 3 inches deep. Once each laboratory supplied sample jar was filled, it was closed, labeled, placed in a sealed ziplock bag, and then placed in an ice-filled cooler. After the sample was collected, a flag labeled with the sample name was driven into the ground to mark the location.

- Vertical delineation samples were collected using a Geoprobe rig. Using new, disposable nitrile gloves, laboratory supplied sample jars were filled, closed, labeled, placed in a sealed ziplock bag, and then placed in an ice-filled cooler. After these samples were collected, the flag was re-driven into the ground to keep the marked location.

- The samples were kept on ice and maintained under chain-of-custody (COC) procedures. Sample coolers were shipped to the analytical laboratory for analysis on a weekly basis.

APPENDIX 16

REFERENCE LIST

REFERENCES

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Banks Environmental Data*, Water Well Report, Grand Park, 7275 Dallas Parkway, Frisco, Texas, 75034, Collin/Denton County*, May 28, 2014.

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Federal Emergency Management Agency (FEMA), Flood *Insurance Rate Map for Denton County*, 2011.

Letter from Mr. Gary Beyer (TCEQ) to Mr. Matt Love (Exide), *Comments to the Affected Property Assessment Report (APAR) and the Tier 2 Screening Level Ecological Risk Assessment (SLERA) for the Former Operating Plant, dated July 9, 2013, Request for a Revised APAR, Exide Recycling Facility, 7471 5th Street, Frisco, TX 75034-5047*, dated 8 October 2013.

Letter from Mr. Gary Beyer (TCEQ) to Mr. Matt Love (Exide), *Conditional Approval of Response to TCEQ and EPA Comments on Affected Property Assessment Report (APAR) and Tier 2 Screening Level Ecological Risk Assessment for the Former Operating Plant, dated October 29, 2013, Exide Recycling Facility, 7471 5th Street, Frisco, TX 75034-5047*, dated 19 November 2013*.*

Pastor, Behling & Wheeler, LLC, *Affected Property Assessment Report, Exide Frisco Recycling Facility, 7471 South 5th Street, Frisco, Texas 75034-5047*, May 2014.

Pastor, Behling & Wheeler, LLC, *Affected Property Assessment Report, Exide Technologies Undeveloped Buffer Property, Frisco, Collin County, Texas*, 1 April 2014.

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