

#### REGION 6 1445 ROSS AVENUE, SUITE 1200 DALLAS, TX 75202-2733

Inspection Date:	March 15 - 10	5, 2010	EPA ID Num	ber: not applicable
Facility Name: Physical Location:		orhood Soil Survey vithin 1 mile of Exide T	<u>Cechnologies</u>	- - -
Mailing Address:	Mr. Ron Patte Assistant City	Manager		_
	6101 Frisco S Frisco, TX 75	quare Blvd.		-
	riisco, 17 /	1034		<u>-</u>
Type of Ownership:	_Federal _S	tate _County <u>X</u> Mun	icipal _Privat	e/Commercial
		and phone number) mith 214-665-7357	_Initials (3): <u>M</u>	1.L.S.
Other Participants: Name		Title		Phone No.
Paul James, US EPA		Inspector		214-665-6445
Ryan Rosser, US EPA	(	Inspector		214-665-2247
Patty Willis, US EPA		Inspector		214-665-8356
Ron Patterson, Frisco		Assistant City Manage	er	972-292-5102
Tim Sanz, Frisco ISD		Env Health & Safety		469-633-6340
Blake Vaughn, Frisco		Director of Maintenan		469-633-6000
		Senior Project Manage	er	214-350-5469
Jason Minter, Southw				214-350-5469
Facility Description: Exide Technologies p	Various publ	lic city-owned properti Texas.	es within appro	oximately 1 mile of the
Generator Status: N _LQG (>1000kg/mo)		kg/mo to 1000kg/mo)	_CESQG (	<100kg/mo) _TSDF
Inspection Type:	XEPA Lead CDI	_State Lead _CSE XSampling _Multi	_CEI i-Media_Othe	r
Reason for Evaluation (01)Follow up (04)Citizen Compla (63)US/Mexico		(02)Case Developm (07)General (65)CAV-US/Mexic		<u>X</u> (03)Sampling (16)CAV
Peer Reviewed by:	Mark	2	Date: 1/20/20	ч

#### **Summary of Inspection:**

On March 15 and 16, 2010, staff from EPA's Hazardous Waste Enforcement Branch and Air/Toxics and Inspection Coordination Branch, collected surface soil samples from thirteen (13) publicly accessible areas within approximately one mile of the Exide facility, as well as one location farther away as a background comparison. The purpose of the sampling was to determine the potential concentration of lead and cadmium in the surface soil to determine if additional investigation of residential areas is warranted and to document if there is a potential threat to human health or the environment from contaminant accumulation in soil due to emissions from the facility. Photographs taken during the sampling event are included in Attachment 1. Representatives from the City of Frisco were present during the sampling event and were provided with split samples.

EPA collected a total of thirty-eight (38) soil samples from the following fourteen (14) locations within in the City of Frisco (See Attachment 2 for a map of approximate sample locations):

Frisco Independent School District (FISD) Child Development Center ZT Acker Special Programs Center and Office Complex Ida Lee Bright Elementary School Frisco High School Downtown Gazebo Gallegos Park First Street Park Frisco Heritage Center Senior Center at Frisco Square Grand Park Oakbrook Park Caddo Trail Frisco Police Headquarters Beavers Bend Park (background sample location)

EPA used sampling procedures recommended in the February 18, 2000, U.S. EPA Environmental Response Team Standard Operating Procedures for soil sampling and in the August 2003 EPA Superfund Lead-Contaminated Residential Sites Handbook. Specifically:

- 1. EPA delineated between one and four 50-square foot sampling squares at defined locations, depending on the size of the area. Each sample square was measured, flagged, and documented with Global Positioning System (GPS) coordinates;
- 2. A 5-point composite sample was collected from each sample square. Each sample was collected using a dedicated disposable plastic scoop, or a dedicated stainless steel trowel depending upon the consistency of the soil. Each composite was composed of 0 1 inch depth aliquots taken from the four corners and center of the sample square. Vegetation was removed prior to collection of the aliquots. The aliquots for each sample were placed into a dedicated resealable plastic bag and homogenized.
- 3. Each sample bag was scanned using a calibrated portable x-ray fluorescence (XRF)

analyzer to determine approximate lead and cadmium concentrations. Lithological data and XRF data were recorded for each sample on a Soil Grid Composite Log (Attachment 3).

- 4. Samples were transferred from the bags into four pre-cleaned 8-oz glass jars using dedicated disposable plastic scoops. Two jars for each sample were provided to the City of Frisco. The other two jars for each sample were labeled, custody-sealed, placed in sealed plastic bags with bubble wrap, placed in coolers with ice at 4° C, maintained under chain-of-custody, and shipped via overnight express service to the EPA laboratory in Houston, Texas.
- 5. All samples were sent to the laboratory; however, samples were designated on the chain of custody to either be analyzed or held. One sample per location was designated for laboratory analysis. For locations with more than one sample collected, the sample with the highest XRF reading was designated for laboratory analysis. In the event that laboratory analytical data differed significantly from the field XRF data, the held samples would be analyzed. Designated samples were analyzed by the laboratory for total lead and cadmium concentrations in both the fine fraction of the soil (i.e. "dust-sized" particles at or less than 250 microns) and in the soil as a whole using EPA approved method 6010 (SW 846 method 6010). Laboratory analytical results are included in Attachment 4.

#### Sample Results:

XRF Field Screening: All of the samples were scanned in the field with the XRF for lead and cadmium. All of the XRF results for both lead and cadmium were below the EPA screening levels for residential soil (which is 400 ppm for lead and 39 ppm for cadmium).

<u>Laboratory Analysis of Fine Fraction</u>: Eighteen (18) samples were sieved for the fine fraction (dust-sized particles) and analyzed by the EPA laboratory in Houston for lead and cadmium concentration. All samples were below the EPA screening level for cadmium in residential soil. Four (4) of the sieved samples exceeded the EPA screening level for lead in residential soil; however, the screening level is based on soil concentrations as a whole, not on sieved or fine fractions of the soil. The fine fraction concentrations are used in determining locations for further evaluation of soil concentrations as a whole. The locations of these samples were in front of the library at the Frisco High School (FSS-HS-003 and FSS-DP-019), in front of the Senior Center (FSS-SC-031), west of the playground at First Street Park (FSS-FS-017), and at Beavers Bend Park (FSS-BG-038; background location). Samples collected from Frisco High School (FSS-HS-003 and FSS-DP-019) were reanalyzed due to differences observed in lead concentrations between the sample and the duplicate sample (FSS-BG-DP-019). The reanalyzed samples again exhibited differences indicating variability in the concentration within the fine fraction. The City of Frisco also had the split samples sieved and analyzed for these four locations. All of the concentrations in the split samples were below EPA screening levels. Analytical results provided by the City of Frisco are included as Attachment 5.

<u>Laboratory Analysis of Whole Soil</u>: Eighteen (18) soil samples (unsieved) were analyzed by the EPA laboratory for total lead and cadmium concentrations. All samples were below the EPA screening level for lead and cadmium in residential soil and were comparable to XRF results

obtained in the field; therefore, the held samples were not analyzed. The Frisco High School samples (FSS-HS-003 and FSS-DP-019) were reanalyzed to verify and confirm the concentrations. The reanalyzed samples were again below the screening levels for lead and cadmium. The City also analyzed the unsieved samples for the four (4) locations mentioned above. The unsieved samples were all below the EPA screening level for lead and cadmium.

#### Summary:

In March 2010, thirty-eight (38) surface soil samples were collected from thirteen (13) publicly accessible areas in Frisco within approximately 1 mile of the Exide Technologies facility, and one area farther from the facility as a background comparison. The purpose of the sampling was to determine the potential concentration of lead and cadmium in the surface soil to determine if additional investigation of residential areas is warranted and to document if there is a potential threat to human health or the environment from lead and cadmium accumulation in soil due to emissions from the facility. Samples were analyzed for lead and cadmium concentrations and compared to EPA human health screening levels for residential soil. Sample results confirmed that concentrations are below regulatory levels of concern and no further testing or remedial action is needed for those areas that were sampled.

## **Summary of Off-site Samples Collected:**

Sample Name	Location	Description
FSS-HS-001	Frisco High School	Band practice field
FSS-HS-002	*Frisco High School	Front of main entrance
FSS-HS-003	Frisco High School	Front of library
FSS-HS-004	Frisco High School	Sports practice field
FSS-IL-005	Ida Lee Bright Elementary	Near playground
FSS-IL-006	Ida Lee Bright Elementary	North field
FSS-IL-007	Ida Lee Bright Elementary	Front of school
FSS-ZT-008	ZT Acker Special Program Center	South field
FSS-ZT-009	ZT Acker Special Program Center	Courtyard
FSS-ZT-010	ZT Acker Special Program Center	Front of school
FSS-CD-011	FISD Child Development Center	SW of playground
FSS-CD-012	FISD Child Development Center	SE of playground
FSS-CD-013	FISD Child Development Center	Near back of school
FSS-DG-014	Downtown Gazebo	SE corner of 4 <sup>th</sup> and Main St.
FSS-GA-015	Gallegos Park	NE portion of park
FSS-GA-016	Gallegos Park	SE portion of park
FSS-FS-017	First Street Park	W of playground
FSS-FS-018	First Street Park	NE of playground
FSS-DP-019	Frisco High School	Duplicate of FSS-HS-003
FSS-DP-020	ZT Acker Special Program Center	Duplicate of FSS-ZT-010
FSS-DP-021	FISD Child Development Center	Duplicate of FSS-CD-013
FSS-DP-022	Downtown Gazebo	Duplicate of FSS-DG-014
FSS-PD-023	Police Station	North field
FSS-PD-024	Police Station	NE field
FSS-CT-025	Caddo Trail	West portion of park
FSS-CT-026	Caddo Trail	NE portion of park
FSS-CT-027	Caddo Trail	North central portion of park
FSS-OP-028	Oakbrook Park	East adjacent to ball field
FSS-OP-029	Oakbrook Park	North adjacent to playground
FSS-OP-030	Oakbrook Park	West portion of park
FSS-SC-031	Senior Center	North of building
FSS-HC-032	Heritage Center	Adjacent to gazebo
FSS-GR-033	Grand Park	NE corner
FSS-GR-034	Grand Park	SE corner
FSS-GR-035	Grand Park	SW of building
FSS-GR-036	Grand Park	West of building
FSS-BG-037	Beavers Bend Park	Background
FSS-BG-038	Beavers Bend Park	Background

Field Screening and Analytical Results for Lead (all values are in parts per million [ppm]):

Sample Name	XRF (mean	Lab (Whole	Lab (Fine	Split Sample	Split Sample
	concentration)	Soil)	Fraction)	(Whole Soil)	(Fine Fraction)
FSS-HS-001	16.85	not analyzed (NA)	NA	NA	NA
FSS-HS-002	16.22	NA	NΛ	NA	NA
FSS-HS-003	18.88	18.3	1100	20.8	21.5
(reanalyzed)		16.3	118		
FSS-HS-004	15.69	NΛ	NA	NA	NA
FSS-IL-005	15.57	NA	NΛ	NA	NA
FSS-IL-006	Not detected	NA	NA	NA	NA
FSS-IL-007	18.33	18.6	216	NA	NΛ
FSS-ZT-008	23.95	NA	NA	NA	NA
FSS-ZT-009	40.98	NΛ	NA	NA	NΛ
FSS-ZT-010	37.87	37.5	156	NA	NA
FSS-CD-011	61.28	NA	NA	NA	NA
FSS-CD-012	69.05	NA	NA	NA	NA
FSS-CD-013	108.43	256	142	NA	NA
FSS-DG-014	28.92	46.8	67.6	NA	NA
FSS-GA-015	52.43	NA	NA	NA	NA
FSS-GA-016	49.49	69.6	200	NA	NA
FSS-FS-017	99.04	144	428	20.3	182
FSS-FS-018	63.20	NA	NA	NA	NA
FSS-DP-019	18.88	16.9	196	22	23.4
(reanalyzed)		18.3	637	(2.27%)	
FSS-DP-020	37.87	39	85	NA	NA
FSS-DP-021	108.43	123	123	NA	NA
FSS-DP-022	28.92	45	54.1	NA	NA
FSS-PD-023	29.36	28.7	66.9	NA	NA
FSS-PD-024	22.10	NA	NA	NA	NA
FSS-CT-025	34.09	27.3	57.8	NA	NA
FSS-CT-026	22.13	NA	NA	NA	NA
FSS-CT-027	21.29	NA	NA	NA	NA
FSS-OP-028	17.04	NA	NA	NA	NA
FSS-OP-029	20.82	NA	NA	NA	NA
FSS-OP-030	28.21	24.6	51.7	NA	NA
FSS-SC-031	26.36	41	453	31	55.2
FSS-HC-032	43.95	37.7	189	NA NA	NA
FSS-GR-033	24.94	NΛ	NA	NA	NΛ
FSS-GR-034	58.59	71.2	224	NA NA	NA
FSS-GR-035	27.92	NA	NA NA	NA	NA
FSS-GR-036	33.70	NA NA	NA NA	NA NA	NA NA
FSS-BG-037	18.52	NΛ	NA NA	NA NA	NA NA
FSS-BG-037	19.62	14.8	545	135	16.4

#### Attachments:

- 1. Photograph Log
- 2. Map of Sample Locations
- 3. Soil Composite Log
- 4. EPA Laboratory Analytical Data and Chain of Custody Records
- 5. City of Frisco Laboratory Analytical Data

Frisco Neighborhood Soil Survey Summary

ATTACHMENT 1

### Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 8:01 AM
City/County: Frisco / Collin County		State: TX
Location: Frisco High School		
Subject: Band practice area on NW side of school. Pink flags denote the grid and composite sample location		

### Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 8:53 AM
City/County: Frisco / Collin County		State: TX
Location: Frisco High School		
Subject: XRF screening of band	practice area sample.	

### Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 8:59 AM
City/County: Frisco / Collin County		State: TX
Location: Frisco High School		
Subject: Front of school. Pink flags denote grid and composite sample locations.		

## Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 10:45 AM	
City/County: Frisco / Collin County		State: TX	
Location: Ida Lee Bright Elementary			
Subject: Playground area east of school.			

## Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 10:45 AM
City/County: Frisco / Collin County		State: TX
Location: Ida Lee Bright Elementary		
Subject: Playground east of school		

### Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 12:23 PM
City/County: Frisco / Collin County		State: TX
Location: ZT Acker Special Prog	gram Center	
Subject: Play field south of build	ling.	

## Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 12:40 PM	
City/County: Frisco / Collin County		State: TX	
Location: ZT Acker Special Program Center			
Subject: Courtyard in center of building.			

## Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 2:08 PM	
City/County: Frisco / Collin County		State: TX	
Location: ZT Acker Special Program Center			
Subject: Front of building.			

## Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 2:09 PM	
City/County: Frisco / Collin County		State: TX	
Location: FISD Child Developme	ent Center		
Subject: Playground south of building.			

### Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 2:10 PM	
City/County: Frisco / Collin County		State: TX	
Location: FISD Child Development Center			
Subject: Sample location south of playground.			

## Official Photograph Log



Photographer: Melissa Smith	Date: 03/15/10	Time: 3:30 PM	
City/County: Frisco / Collin County		State: TX	
Location: Downtown Gazebo			
Subject: Downtown Gazebo sampling location.			

## Official Photograph Log



Photographer: Melissa Smith Date: 03/15/10		Time: 2:10 PM		
City/County: Frisco / Collin County		State: TX	6 ,	
Location: Gallegos Park				
Subject: Sampling grid at the southeast corner of park.				

### Official Photograph Log



Photographer: Melissa Smith Date: 03/15/10		Time: 4:26 PM	
City/County: Frisco / Collin County		State: TX	
Location: First Street Park			
Subject: Playground at First Stre	et Park.		

### Official Photograph Log



Photographer: Melissa Smith Date: 03/16/10		Time: 8:51 AM		
City/County: Frisco / Collin County		State: TX		
Location: Frisco Police Department				
Subject: Labeling sample containers.				

### Official Photograph Log



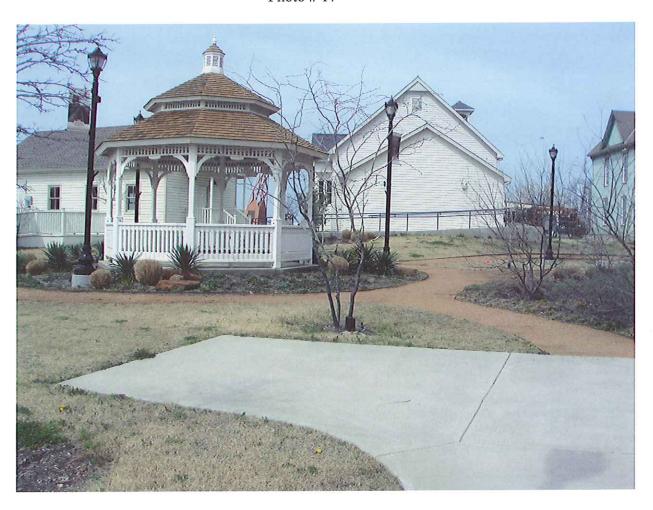
Photographer: Melissa Smith Date: 03/16/10		Time: 10:08 AM	
City/County: Frisco / Collin County		State: TX	
Location: Frisco Police Department			
Subject: Sample area north of police dept. parking lot.			

## Official Photograph Log



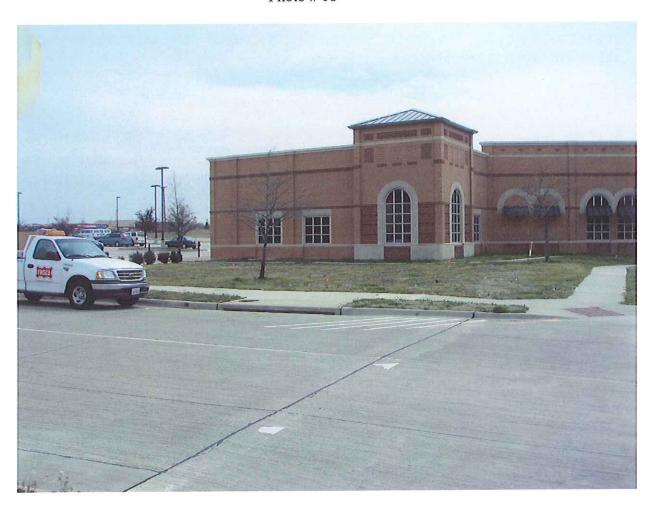
Photographer: Melissa Smith	Date: 03/16/10	Time: 10:09 AM	
City/County: Frisco / Collin County		State: TX	
Location: Frisco Police Department			
Subject: Exide property looking north from police department.			

### Official Photograph Log



Photographer: Melissa Smith	Date: 03/16/10	Time: 2:49 PM		
City/County: Frisco / Collin County		State: TX		
Location: Heritage Center				
Subject: Sample area near gazebo a	Subject: Sample area near gazebo at Heritage Center.			

## Official Photograph Log



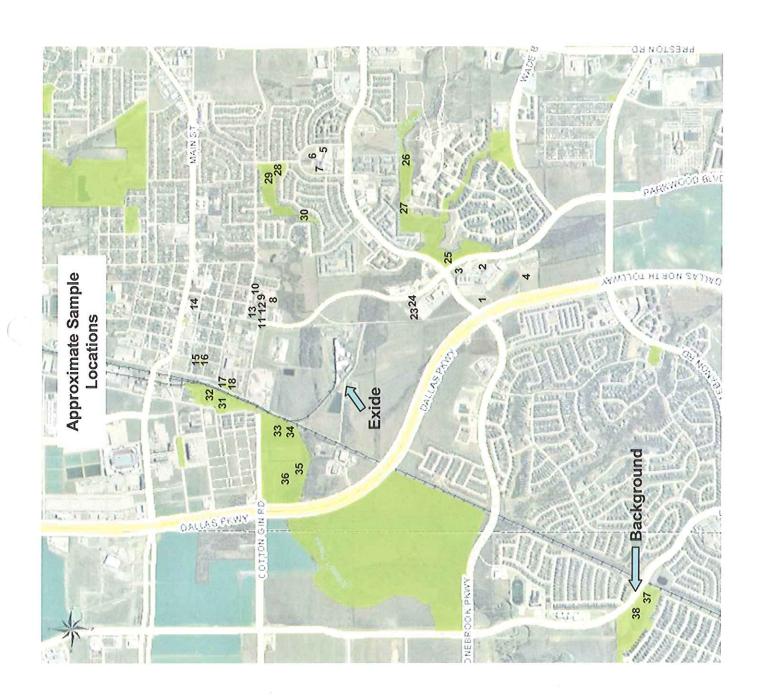
Photographer: Melissa Smith	Date: 03/16/10	Time: 2:49 PM	
City/County: Frisco / Collin County		State: TX	
Location: Senior Center			
Subject: Sample area in front of	Senior Center.		

## Official Photograph Log



Photographer: Melissa Smith	Date: 03/16/10	Time: 3:32 PM		
City/County: Frisco / Collin County		State: TX		
Location: Grand Park				
Subject: Sampling areas on southeast side of park; Exide facility in background.				

ATTACHMENT 2



ATTACHMENT 3

Grid/Node ID: FSS-HS-001

			Field [	Data			
Project	t: Frisco Neighbo	rhood Soil Survey			Page	1	of
Location	: Frisco, Texas				Date:		15 , 2010
Site/Area	: Frisco High	School			Start Time:		12 , 2010
	Band Pract	ice Field			Finish Time:		
					Avg Top Depth:		Feet
Notes	S				Avg Bottom Depth:		Feet
					Sampler 1:	Melissa	
					Sampler 2:		
					GPS Operator:		
					XRF Operator:		
			Samp	ole Method: _	Five-point Compo		
			GPS D	ata		and the second	
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DOP:			_		9		
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exture: GVL:		SUB RND NA	Cementation:	NOW SLT	MOD WEL NA		
	20% F ANG	SUB RND NA	Strength:	NOG / COH			
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ORG:	<u>1D</u> %		Observed:	STN SHN	ODR PRD NA _		
			Other:				
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Trial 2	23 ND	29					
Trial 3	16 ND						
Trial 4	14 ND						
Trial 5	ND ND	100	Send to Lab?	Mac last		1 225	
_	1		Cond to Lab?	yes-hold	Tag Number		
				V		6-3032	110

Grid/Node ID: FSS- HS-002

			Field Da	nta			
Project	: Frisco Neighborh	nood Soil Survey		and the second	Page		i
Location					Date		2010
Site/Area	Freisco AlbHS	SCHOOL			Start Time		2010
	FRONT OF		MAIN BOTO	20)	Finish Time		
	1				Avg Top Depth		Feet
Notes					Avg Bottom Depth		Feet
					Sampler 1		
					Sampler 2		
					GPS Operator:		
					XRF Operator:	Paul James,	
			Sample	Method:		oosite / 0-0.25 ft bg	
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		Lit	thological	Data			
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	10 % F ANG SI	UB RND (NA)	Strength:	NOC / COH	FIRM-MOD		
SLT/CLY:			Upper Contact:	SHP GRD	DIF SME (NA)		
ORG:	10 %		Observed:	STN SHN	ODR PRD (NA)		
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Trial 2	14 ND					- 1	
Trial 3	20 ND	-					
Trial 4	21 ND						
Trial 5	13 ND	i i	Send to Lab?	nes-hold	Tag Numbe	r: 6-303274	Ī
				J	76°	1. 202 271	

Grid/Node ID: FSS-HS-003

	<b>医</b> 基础 1000000000000000000000000000000000000			Field D	ata			
Project	t: Frisco Neigh	borhood So	l Survey	CHICAGO INC. MANAGEMENT		Page	e l of	1
Location					Date:			
Site/Area	: FRISCO	HIGH S	(00/0)		Start Time:		2010	
	IN FRO			DE LITRA	194	Finish Time:		
		,				Avg Top Depth:		Feet
Notes	s					Avg Bottom Depth:		Feet
						Sampler 1:		
						Sampler 2:		
	-					GPS Operator:		
							Paul James	
				Sampl	e Method:	Five-point Comp		
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DOP:								
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			Li	thologica	I Data			
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Color:	MUN GSA		-7	Plasticity:		To make	From grid composi	ite
Coloration:	ONI MTD VAR ST	N		Moisture:	_	WET SAT NA	grid composi	10.
Texture: GVL:	%ANG	S SUB RNI	NA C	Cementation:		MOD WEL NA		
		SUB RNI	(NA)	Strength:		LOOSE-SOFT		
SLT/CLY:				Upper Contact:	SHP GRD	DIF SME (NA)		
ORG:	10 %			Observed:	STN SHN	ODR PRD (NA)		
				Other:				
NAME OF THE OWNER.		20 K 30 S 20 S 2	VDE	Corosal	<b>B</b> 2			William Co.
80年記念於極望			VICE	Screening	ig Data		<b>建筑是"各型"</b> 。	
	Pb Cd		Notes:					
	(PPM) (PPM)	-						
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Trial 2	20 NO	1						8
Trial 3	17 ND	1						
Trial 4	14 ND							
Trial 5	23 ND	]		Send to Lab?	nes	Tag Numbe	r: 6-30327	3
					J		6-30377	

Grid/Node ID: FSS-HS-004

经验证据		Field Data		MARK AND
Project:	Frisco Neighborhood Soil	The second secon	Page	1 of 1
Location:	Frisco, Texas		Date:	March , 2010
Site/Area:	FRISCO HIGH S	CHOOL		09 S5
_	PRACTICE FIE		Finish Time:	10:05
			Avg Top Depth:	Feet
Notes			Avg Bottom Depth:	Feet
-			Sampler 1:	Melissa Smith
			Sampler 2:	Ryan Rosser
			GPS Operator:	Patricia Willis
				Paul James, P.G.
		Sample Metho	od: Five-point Compo	site / 0-0.25 ft bgs.
		GPS Data		
Lat		Notes:		
Long:				
DOP:				
Color: MUI	%	Plasticity: NON  Moisture: DRY  NA Cementation: NON  NA Strength: NOC  Upper Contact: SHP	MOD POR NA NO	OTES: rom grid composite.
		XRF Screening Da		
Trial 1 Trial 2 Trial 3	Pb Cd PM) (PPM)  JD N'D  LO N'D  N'D ND  N'D ND  JD ND  JD ND  JD ND	Send to Lab?		6-303268

Grid/Node ID: Fss-IL-005

				Field D	ata				
Project:	Frisco Neighbo	orhood Soil S	Survey			THE PERSON NAMED IN	Page	1 0	f I
Location:	Frisco, Texas	ic.					Date:		
Site/Area:	IDA LEE	BRIGH'	T	ELem.			Start Time:		
_	FLAY GA	ZONND	AR	EA.			Finish Time:	11:00	
_						A	Avg Top Depth:	X	Feet
Notes_						Avg	Bottom Depth:	0.4	Feet
-				-			Sampler 1:	Melissa Sm	nith
-							Sampler 2:	Ryan Ross	er
_							GPS Operator:	Patricia Wil	lis
_							XRF Operator:	Paul James	s, P.G.
ENGINEER AND ENGINEER PARK				Samp	le Method: _	F	ive-point Comp	osite / 0-0.25 ft l	ogs.
<b>大学是</b> 2年18				GPS Da	ata				
Lat_			1	Notes:					LANCTON BOOK OF THE PARTY OF TH
Long:_									
DOP:_									
			1 :4	halasiss	10 (	No. of Contract			
Material: N	latural Fill Uncertain	2000年100000	LI	hologica					
	_ /	BROWN		Sorting:	WEL MOD			NOTES:	
	NI MTD VAR STN			Plasticity:	NON LOW		-	From grid compos	ite.
Texture: GVL:		SUB RND	NA	Moisture:	DRY MST		-		
76 SND: 9		SUB RND		Cementation: Strength:	NON SLT		WEL NA -		
SLT/CLY: H		OOD TIND		Upper Contact:	NOC/ COH	25 E C 2 C 2 E C 2			
ORG:				Observed:			_		
-				Other:	STN SHN	ODR I	- NA		
									-
			XRF	Screening	ng Data				
	Pb Cd		Notes:						
1	(PPM) (PPM)		i. <del>-</del>						
Trial 1	UN UN				10				
Trial 2	ND ND								
Trial 3	ND ND								.).
Trial 4	ND ND		_						
Trial 5	16 ND		5	Send to Lab?	yes-hold	d	Tag Number	: 6-303269	7
					J			10-302210	

Grid/Node ID: FSS-1L-006

			Field I	Data	<b>建筑企业</b>	<b>多相外</b> 的数据	
Project:	Frisco Neighb	orhood Soil Surv	THE RESERVE THE PARTY OF THE PA	ACAM TO BE SEEN TO THE SEE SEE	Page	of	
Location:	Frisco, Texas				Date:		2010
Site/Area:	IDA (BE	T3R1647	ELEN		Start Time:	1/:00	, 2010
	NonTH				Finish Time:	11:18	
					Avg Top Depth:	1.10	Feet
Notes	<del></del>				Avg Bottom Depth:		Feet
					Sampler 1:	Melissa Sm	ith
					Sampler 2:	Ryan Rosse	
-					GPS Operator:	Patricia Will	is
-					XRF Operator:	Paul James	, P.G.
			Sam	ple Method:	Five-point Compo	site / 0-0.25 ft b	gs.
			GPS D	ata	CARL WILLIAM CONTROL OF THE PARTY OF THE PAR		
Lat_	227		Notes:				
Long: _							
DOP:				1			
	<b>直接位</b> 南 (《建图》图		Lithologic	al Data			
	Natural Fill Uncertain		Sorting:	WEL MOD	POR NA	OTES:	
	MUNIGSA TAN		Plasticity:			rom grid composi	ite.
Texture: GVL:	JNI MTD VAR STN		Moisture:	-	WET SAT NA		11
SND:		SUB RND NA	Cementation		MOD WEL NA		
SLT/CLY: 7		SUB RND NA	Strength:	MOC JCOH	_		3
ORG:			Upper Contac		DIF SME (NA)		
ono	<del>/0</del> /*		Observed:	STN SHN	ODR PRD NA _		
			Other:				
		XF	RF Screeni	ing Data			1110
Γ	Pb Cd	Not			A DECEMBER OF THE PROPERTY OF	2010 1911 1814 See 18	<b>多数发展</b>
	(PPM) (PPM)	Not	es				
Trial 1	ND ND						
Trial 2	NO NI						
Trial 3	ND ND						
Trial 4	an aa						
Trial 5	an as		Send to Lab?	yeshold	Tag Number	6-30326	7
	9			Jane		6-30326	

Grid/Node ID: FSS-IL-007

						Field Da	ata				
Projec	t: Fri	sco Neighb	orhood	l Soil St	ırvey	ALK DESCRIPTION OF THE PROPERTY OF THE PARTY	200 CAN 100 CA		Page		of
Location	n: <i>Fri</i>	sco, Texas							Date	4	, 2010
Site/Area	a:	A LEE	75/	2161-	17	ELE.			Start Time:		: Zo
		RONT				DOL			Finish Time:		: 35
								A	vg Top Depth:		Feet
Note	s								Bottom Depth:		Feet
									Sampler 1:	Melissa	
									Sampler 2:		
								G	SPS Operator:	Patricia	Willis
								>	(RF Operator:	Paul Ja	mes, P.G.
						Sample	e Method: _	Fi	ve-point Comp	osite / 0-0.2	5 ft bgs.
				0 000		GPS Da	ta				
La	t					Notes:			AND DESCRIPTION OF THE PARTY OF		
Long	:										
DOP											
				Wood and the			III TO THE TAXABLE PROPERTY OF TAX				
SET TO THE					Li	thological	Data				A Marie Control
Material:		ill Uncertain				Sorting:	WEL MO	D POR	NA .	NOTES:	
Color:		DARK		Nr.		Plasticity:	NON LOV	V MED	HGH NA	From grid co	mposite.
Coloration:		VAR STN				Moisture:	DRY (MST		ACCOUNT TOURS		
exture: GVL:	%			RND N		Cementation:	(NON SLT				
SLT/CLY:		F_ANG	SUB	RND N	IA.	Strength:	NOC/COF	1	-	110	
	10%					Upper Contact:	SHP GRE		7		
ONG.	10 %					Observed:	STN SHN	ODR P	RD (NA)		
	Electrical designation of the second					Other:					
				)	KRF	Screenin	g Data				
*	Pb	Cd	All to Describing Street				9				
9	(PPM)	(PPM)		,	lotes:						
Trial 1	17	ND									
Trial 2	ND	ND									
Trial 3	15	ND									
Trial 4	17	ND			8						
Trial 5	24	DU				Sand to Late	14.00			1 200	2/-2
L		141				Send to Lab?	yes_		Tag Number		
							-			10-202	7107

Grid/Node ID: FSS-ZT-008

					Field D	ata	がはた			
Project	t: Fri	isco Neighb	orhood !	Soil Survey	i ioia D	ata				
Location		sco, Texas	omood (	Jon Gurvey			-	Page		_ of _/
Site/Area			VEY1	(DS)	AL TAKE	MM (537	-	Date:	100	15 , 2010
		DUTH 7			AL PROGR	gari cen	BC	Start Time:		:48
		WIH	TEL!	<i>.</i>			-0	Finish Time:		:50
Notes	s							Avg Top Depth:		Feet
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							. A	vg Bottom Depth:		Feet
	-							Sampler 1:	Meliss	a Smith
	-		,					Sampler 2:	Ryan I	Rosser
								GPS Operator:	Patrici	a Willis
								XRF Operator:	Paul Ja	ames, P.G.
BEI STEIN BEI WAR ON AN AN AN AN	No.				Samp	le Method:		Five-point Comp	osite / 0-0.	25 ft bgs.
					GPS Da	ata				
Lat	t				Notes:		MINISTRATION INCO			
Long:										
DOP:										
				Li	thologica	I Data				
Material:	Natural F	ill Uncertain			Sorting:	WEL MO	DD (PO	R NA	NOTES:	TOTAL STATE OF THE
Color:	MUN GSA	Der. T	ROW	$\sim$	Plasticity:		1	( -	From grid co	omposito
Coloration:	UNI MTD	(VAR) STN			Moisture:			T SAT NA	r rom gna co	mposite.
Texture: GVL:	%	ANG	SUB R	RND NA	Cementation:			WEL NA		
SND:	%	ANG	SUB R	ND NA	Strength:	NOC (CC				
SLT/CLY:	80 %				Upper Contact			SME (NA)		
ORG:	% OS				Observed:			PRD (NA)		
	De Tres with the				Other:	0111	V ODI	- FRD (NA)	Chinese (Co. C.	
	LEAST SERVICE		William Shear							-
				XRF	Screenii	ng Data				Sales at Marie
	Pb	Cd		Notes:						
	(PPM)	(PPM)		Notes.						
Trial 1	ND	ND								
Trial 2	ND	ND								
Trial 3	2.8	ND		0						
Trial 4	20	DIX								
Trial 5	NN	No			0 11 1	tree La	1		1 0:=	
L	,,,)	INO			Send to Lab?	yes-not	7	Tag Number		
						U			10-303	3265

Grid/Node ID: FSS-ZT-009

					Field [	Data			<b>第二十二</b>		
Project	:Fris	sco Neighbo	orhood Soil Sui	rvey			F	Page	1	of !	Michigan
Location	:Fris	sco, Texas						Date:	March	15,2010	
Site/Area	Z.T	. ACHER	SPECIAL	P	rooram	CEMER	Start T	ime:	15:30		
		COURT	- YARD				Finish T	ime:	12:35		
	K					E	Avg Top De	pth:		Feet	
Notes	·						Avg Bottom De	pth:		Feet	
							Sample	er 1: _	Melissa	Smith	
				*			Sample	er 2: _	Ryan Ro	osser	
							GPS Opera	ator:	Patricia	Willis	
							XRF Opera	ator:_	Paul Jar	nes, P.G.	
					Sam	ple Method:	Five-point C	ompos	site / 0-0.25	ft bgs.	
				1151	GPS D	ata			17 A NO. 17		
Lat					Notes:				and the second second second		mee
Long:											_
DOP:											_
				Lit	hologic	al Data					
Material:	Natural Fi	Uncertain			Sorting:		DD (POR) NA	N	OTES:	MIST SUIS OLS	200
Color: (	MUN GSA	TSROV	<b>N</b>		Plasticity:	NON CO	W MED HGH NA	F	rom grid con	nposite.	
Coloration:	UNI MTD	VAR STN			Moisture:	DRY (MS	WET SAT NA				_
Texture: GVL:	%	ANG	SUB RND N	A	Cementation	NON SL	T MOD WEL NA				-
	<u>30</u> %	7 ANG	SUB RND N	A)	Strength:	NOC / CO	H FIRM				_
SLT/CLY:					Upper Contac	t: SHP GR	D DIF SME NA				
ORG:	<b>50</b> %				Observed:	STN SH	ODR PRD (NA)		-1		_
	•				Other:						
			X	RF	Screen	ing Data					
[	Pb	Cd		otes:			THE RESERVE OF THE PARTY OF THE	Manager Sec.	ATT WE WATER TO THE WATER		
	(PPM)	(PPM)		otes							_
Trial 1	39	ND									-
Trial 2	42	ND		-							_
Trial 3	4	ND		-				-			_
Trial 4	37	NO		-							-
Trial 5	45	ND			Send to Lab?	u-hola	Top No.	b	1.202	2/.0	-
_						J voice	rag Nu	iiiiber:	10-303		-

Grid/Node ID: FSS-ZT-QO

			Field D	ata		<b>公司在100</b> 0000000000000000000000000000000000
Project:	Frisco Neigh	borhood Soil Sun	The second secon		Pa	go of
Location:	Frisco, Texas				Dat	
Site/Area:	TZ AGYA	PED GPE	CIAL PROGRA	m CEATE	Start Tim	
-	- IN FROM	T OF T	FACILITY	(1) CO/O/C	Finish Tim	
					Avg Top Dept	
Notes					Avg Bottom Dept	
				3	Sampler	
-					Sampler	
_					GPS Operato	
_						or: Paul James, P.G.
			Sampl	e Method:		nposite / 0-0.25 ft bgs.
	<b>医黎默克茨</b>		GPS Da	nta		
Lat	O TO SECURE OF THE PROPERTY OF		Notes:			
Long:					2	
DOP:						
E-HOUSE SECTION WITH THE PARTY						
	CM		Lithologica	I Data	是投资的对方可数 第一次	
Material:	latural Fill Uncerta	in .	Sorting:	THE RESIDENCE OF THE PERSON NAMED IN	D POR(NA)	NOTES:
Color:	TUN GSA DRX	TSROWN	Plasticity:		W (MED)HGH NA	From grid composite.
	MTD VAR ST	N	Moisture:		T WET SAT NA	. Tem grid composite.
Texture: GVL: _	%ANC	SUB RND NA	Cementation:		MOD WEL NA	
SND: 1		S SUB RND (NA	Strength:	NOC (CO	FIRM	
SLT/CLY:			Upper Contact:	SHP GRE	D DIF SME NA	
ORG:	10 %		Observed:	STN SHN	ODR PRD NA	
			Other:	N. and and an artist of the second		
		Y	RF Screenin	- D-4-	AND THE STREET, MICH.	
ALF STACKS AND STACKS	PROPERTY AND ADDRESS OF THE PARTY OF THE PAR		vi Screenii	ig Data		
	Pb Cd	No	tes:			
_	(PPM) (PPM)					
Trial 1	25 ND				21	
Trial 2	51 NO		11.			
Trial 3	44 ND					
Trial 5	30 ND	-	-	*	2.	
illai 5	3 ND		Send to Lab?	1xes	Tag Numb	per: <u>6-3</u> 03258
				U		10-202200

Grid/Node ID: FSS-TZ-011

			Field D	Data		<b>国的现在分</b> 类
Project	: Frisco Neighb	orhood Soil Sur	vey		Page	) of \
Location	: Frisco, Texas				Date:	
Site/Area	FSS-CD-	011			Start Time:	
	_ SW Play	ground			Finish Time:	. 25
					Avg Top Depth:	
Notes					Avg Bottom Depth:	
	-				Sampler 1:	
					Sampler 2:	
					GPS Operator:	
					XRF Operator:	Paul James, P.G.
			Samı	ple Method: _		osite / 0-0.25 ft bgs.
	<b>建</b> 化设置金融的		GPS D	ata		
Lat			The second secon	Carlin Control of the		
Long:						
DOP:						
Secretaria de la composição de la compos						
			Lithologica	al Data		
	Natural Fill Uncertain		Sorting:	WEL MOI	POR (NA)	NOTES:
	MUDIGSA DRK B		Plasticity:	NON LOV		From grid composite.
Coloration: (	UNI)MTD VAR STA	ı	Moisture:	DRY MST	WET SAT NA	
Texture: GVL:	%ANG	SUB RND NA	Cementation:	_	MOD WEL NA	
SND:	10 % F ANG	SUB RND NA	Strength:	NOC (COF		1)
SLT/CLY:	80 %		Upper Contac	t: SHP GRD	DIF SME NA	
ORG:	10 %		Observed:		ODR PRD NA	
			Other:		-	
	PROPERTY AND RESIDENCE					
		X	RF Screeni	ng Data		
	Pb Cd	No	otes:			
	(PPM) (PPM)					
Trial 1	82 ND					-
Trial 2	52 ND					
Trial 3	56 ND					
Trial 4	49 ND					
Trial 5	(08 ND		Send to Lab?	1000 1001	7	1 2020-
	WU IND		Send to Lab?	148-nol	Tag Number	:6-303256
				U		1203757

Grid/Node ID: FSS-10-12

			Field D	ata				
Project:	Frisco Neighbo	orhood Soil Survey				Page	of	ARMER SERV
Location:	Frisco, Texas					Date:	-	2010
Site/Area:	CHILD I	DE VELOP ME	NT CER	TEZ		Start Time:	1423	
-	SOUTHE	EAST CO	RNER F	RAY GRO	CNU	Finish Time:	1440	
_						Avg Top Depth:		Feet
Notes_					Av	g Bottom Depth:		Feet
_						Sampler 1:	Melissa Sm	ith
_						Sampler 2:	Ryan Rosse	ər
-	Y-					GPS Operator:	Patricia Will	is
_						XRF Operator:	Paul James	, P.G.
CONTRACTOR OF THE			Samp	le Method:		Five-point Compo	osite / 0-0.25 ft b	gs.
			GPS Da	ata				A STATE OF
			Notes:					ens to a post and
Long: _								
DOP:_								
		a a same	4111-	1.5	SERVICE	**************************************		
Material: N	atural Fill Uncertain		thologica	The state of the s				
		FROWN	Sorting:	WEL MO	100000		NOTES:	
	NI) MTD VAR STN	· IZEVN	Plasticity:	0.00			From grid composi	te.
Texture: GVL:		SUB RND (NA	Moisture: Cementation:			SAT NA		
SND: /		SUB RND (NA)	Strength:	NOC /CO		WEL NA		
SLT/CLY: 8			Upper Contact	$\sim$				
ORG:	0 %		Observed:			PRD (NA)		
3 <del>1.1.1.</del>			Other:	OTH OTH	ODK	- LYD (NA		
		XRF	Screenii	ng Data				
	Pb Cd	Notes:						*
	(PPM) (PPM)							
Trial 1	80 N/D							
Trial 2	76 ND							
Trial 3	79 ND	*						
Trial 4	GO ND					*!		
Trial 5	50 ND		Send to Lab?	hes-hold	d	Tag Number	6-303254	
				0 6			10-303755	

Grid/Node ID: FSS-CD-13

			Field [	Data			
Project:	Frisco Neighbo	orhood Soil Surv	ey	A CONTRACTOR OF THE PARTY OF TH	Page	1 0	of 1
Location:	Frisco, Texas				Date:	March 15	
Site/Area:	CHILD D	EV, CEN	TER		Start Time:	1442	
· ·	NEAR T	BULDINE	2		Finish Time:		
_					Avg Top Depth:	_	Feet
Notes					Avg Bottom Depth:	` `	Feet
					Sampler 1:	Melissa Sn	nith
					Sampler 2:	Ryan Ross	ser
					GPS Operator:	Patricia Wi	illis
					XRF Operator:	Paul Jame	s, P.G.
			Samı	ole Method: _	Five-point Compo	site / 0-0.25 ft	bgs.
			GPS D	ata			
Lat			Notes:			AND AND IN SECURIOR SEC.	
Long:							
DOP:							
			Lithologica	al Data			
\	ura Fill Uncertain	1	Sorting:			NOTES:	
	N GSA TARK	NEOMIN	Plasticity:	NON LOV		rom grid compo	site.
Coloration: UNI Texture: GVL:	MTD VAR STN		Moisture:		WET SAT NA		
SND: 10		SUB RND NA	Cementation:	1200	MOD WEL NA		
SLT/CLY: 70		SUB RND NA	Strength:	(MAK /COI			
ORG: 7/	-		Upper Contac		DIF SME (NA)		
0110.11	2 70		Observed:		ODR PRD (A)		
			Other: S	OME FI	4 IN MIX	-	
	<b>新疆</b> 建大型	XF	RF Screeni	ng Data			
	Pb Cd	Not			DESCRIPTION OF THE PROPERTY OF		
(P	PPM) (PPM)	1100					
Trial 1	din so		-				
Trial 2	DN PC						
Trial 3	OB ND						
Trial 4	31 ND						
	36						
Trial 5	75 ND		Send to Lab?	nes	Tag Number	6-30325	3

Grid/Node ID: FSS-D9-014

					Field D	ata			12 14 14 14 14
Projec	t: Fn	isco Neighb	orhood S	oil Survey			Page		
Location		sco, Texas				<del>17 </del>	Page Date:		
Site/Area	: D	ONN	TOW	N G	AZERO		Start Time:		
		474	MA	-		EMER	Finish Time:	10	
		,		-	200	3461	Avg Top Depth:		
Notes	s						Avg Bottom Depth:		Feet
							Sampler 1:		Feet
							Sampler 2:		
							GPS Operator:		
					8		XRF Operator:		
					Samp	le Method:	Five-point Comp		
				10 - 30 ord	GPS Da		Service point compe	STATE OF STA	ys.
Lat	t		POLICE STRUCTURE		THE RESERVE OF THE PARTY OF	ata			
Long:									
DOP:					_				
					_				
				Li	thologica	I Data			医动脉形型
Material:	Natural F	Uncertair	ľ		Sorting:		POR NA	NOTES:	
Color:	MUN GSA	_Boh	IN		Plasticity:			From grid compos	eite
Coloration:	UNI MTD	VAR STN			Moisture:		WET SAT NA	rom grid compos	ne.
Texture: GVL:	%	ANG	SUB RM	ND NA	Cementation:		MOD WEL NA		
	10%	ANG	SUB RM	ND NA	Strength:	NOC / COH			
SLT/CLY:					Upper Contact	: SHP GRD	DIF SME NA		
ORG:	10%				Observed:	STN SHN	ODR PRD WA		
					Other:	MOS TLY	MULCH .		
				YRE	Screenin	an Dota			(SWATSHIELD)
	D.			Vivi	ocieeiiii	iy Data			東國歌
	Pb (PPM)	Cd		Notes:					
Trial 1	7.9	(PPM)				1			
Trial 2	70	ND							
Trial 3	22	NA NA							
Trial 4	37	100							
Trial 5	75	77						. 0 -	
·······•L	25				Send to Lab?	yes	Tag Number	6-30325	0
						U		6-30325	1

Grid/Node ID: FSS-GA-015

					Field Da	ata					
Project	:Frisc	o Neighb	orhood Soil S	urvey			CANCEL SECURITY	CHES CHANGE WITH A CAN	Page	of	1
Location	:Frisc	o, Texas							Date:	March 15	2010
Site/Area	_ G/	ALLE	605	PA	RK		37	Star	t Time:	1540	
	N	ORTH	Por	7100	1			Finis	h Time:	1555	
			EAST X	8/				Avg Top	Depth:		Feet
Notes			9	$\checkmark$				Avg Bottom	Depth:		Feet
	January 1			4				San	pler 1:	Melissa Smi	th
	1							San	pler 2:	Ryan Rosse	r
								GPS Op	erator:	Patricia Willi	s
								XRF Op	erator:	Paul James,	P.G.
Management					Sample	e Metho	od:	Five-poir	t Compo	site / 0-0.25 ft b	gs.
					GPS Da	ta				<b>《</b> A A A A A A A A A A A A A A A A A A A	
Lat					Notes:					Action to the state of the state of	
Long:					Territoria.						
DOP:											
		PTV-STREETS STREET		NAME OF THE OWNER, OWNE			STORES HARRINGS AND A				
				Lit	thological	l Data	a				
Material:	Natural Pill			4.1	Sorting:	WEL	MOD	POR (NA)	1	NOTES:	
Color:	MUN GSA_		k Bear	VIC	Plasticity:		0		_	rom grid composi	te.
Coloration:	UNI MTD				Moisture:			NET SAT NA	_		
Texture: GVL:	<del></del>		SUB RND		Cementation:			STIFF	۹ _		
SLT/CLY:		ANG	SUB RND	NA	Strength:	NOC /		-	_		
	15 %				Upper Contact:			DIF SME NA	, –		
Onto.	72.				Observed:	STN	SHN C	DDR PRD (NA	) -		
					Other:						
				XRF	Screenin	g Da	ita				
1	Pb	Cd		Notes:			THE PROPERTY OF THE PARTY OF TH	ON THE RESERVE OF THE PARTY OF	SALIS COLUMN	TO BE SHOULD BE THE SHOOT OF THE SHOT OF THE SHOOT OF THE SHOOT OF THE SHOOT OF THE SHOOT OF THE SHOT OF THE SHOT OF THE SHOT OF THE SHOOT OF THE SHOT OF THE SHOOT OF THE SHOT OF TH	RECORDER COS
	(PPM)	(PPM)		Notes.							
Trial 1	410	ND							-		
Trial 2	54	ND		,							
Trial 3	50	ND							4 "		
Trial 4	59	ND		10.							
Trial 5	54	ND			Send to Lab?	yihi	old	Tag	Number	10-303248	3

Grid/Node ID: FSS-GA-06

		Field Data		
Project	t: Frisco Neighborhood Soil Survey	THE RESIDENCE OF THE PROPERTY OF THE PARTY O	Page	1 of /
Location	n: Frisco, Texas		Date:	March   5 , 2010
Site/Area	" GALLEGO FAR	K	Start Time:	1600
	SOUTH BAST POR	27100	- Finish Time:	1(015
			Avg Top Depth:	Feet
Notes	5		Avg Bottom Depth:	Feet
			Sampler 1:	Melissa Smith
			Sampler 2:	Ryan Rosser
			GPS Operator:	Patricia Willis
			XRF Operator:	Paul James, P.G.
		Sample Method:	Five-point Compos	site / 0-0.25 ft bgs.
		GPS Data		
Lat		Notes:		
Long:		_		
DOP:		_		
		:41-1-: 15 (		
Material:	1	ithological Data		
Color:	Matural Fill Uncertain  (MUN) GSA 12, Recwy			OTES:
Coloration:	UNI MTD VAR STN	THE STATE OF THE S		rom grid composite.
exture: GVL:	%ANG SUB RND NA		WET SAT NA _	
SND:			T MOD WEL NA	
SLT/CLY:		Strength: NOC / CO	J	
	15 %		D DIF SME (NA)	
		Other:	N ODR PRD NA _	
			30	
	XR	F Screening Data		
2.	Pb Cd Notes	s:		
2.75	(PPM) (PPM)			
Trial 1	ZG ND			
Trial 2	52 ND			
Trial 3	St ND			
Trial 4	500 ND			
Trial 5	60 ND	Send to Lab?	Tag Number:	6-303246
		0		10-203742

Grid/Node ID: FSS-FS-OT

					Field	Data		190014000000000		
Project	t: Fri:	sco Neighb	orhood	Soil Surve				Page		of 1
Location	100000	sco, Texas						Date		_
Site/Area	: FI	RST (	STR	REET	PARK			Start Time	. 1	10
	_ w	EST	OF		MY GROW	IND.		Finish Time	- 11	50
								Avg Top Depth	- 10	Feet
Notes	5							Avg Bottom Depth		Feet
								Sampler 1	: Melissa S	
								Sampler 2	Ryan Ro	
								GPS Operator	Patricia V	Villis
								XRF Operator:	Paul Jam	es, P.G. S
					Sar	nple Meth	od:	Five-point Comp		
					GPS	Data		1000 A		
Lat	t				Notes:		SOUND CONTRACTOR		AND DESIGNATION OF	
Long:										
DOP:										
	MUN GSA  UNI MTD	VAR STN ANG ANG	ISRO I SUB	rnd na	Sorting: Plasticity: Moisture: Cementatio Strength: Upper Cont Observed:	WEL NON DRY NON NOC act: SHP	MOD LOW MST SLT COM GRD	POR NA MED HGH NA WET SAT NA MOD WEL NA DIF SME NA	NOTES: From grid comp	osite.
	10 %				Observed:			ODR PRD (NA)	211 11	<del></del>
PATRICIA STATE	100 MINE 200	TO SERVICE AND ADDRESS OF	British to you			NOT		RACE FRAG. OF	CALECH	B
		可是自		XF	RF Screen	ning Da	ata			
Trial 1 Trial 2 Trial 3 Trial 4 Trial 5	Pb (PPM) 94 11 59 84 127	Cd (PPM)  ND  ND  ND		Note						
11141 5	101	MD			Send to Lab	? yes	_	Tag Numbe	10-30324	

Grid/Node ID: FSS-FS-018

		Field Data		
Project:	Frisco Neighborhood Soil S	Survey	Page	1 of )
Location:	Frisco, Texas		Date:	March \ \ , 2010
Site/Area:	<b>*</b>		— Start Time:	1(055
			 Finish Time:	1705
	<u></u>		Avg Top Depth:	Feet
Notes	FIRST STREE	7 PARK	Avg Bottom Depth:	¬ Feet
	NE CORNER		Sampler 1:	Melissa Smith
			Sampler 2:	Ryan Rosser
			GPS Operator:	Patricia Willis
-			XRF Operator:	Paul James, P.G.
WARRING CONTROL BATTER	Ministration and a second and a	Sample Method	: Five-point Compo	site / 0-0.25 ft bgs.
		GPS Data		
Lat_		Notes:	to the contract which are a long to the contract of	
Long: _				
DOP: _				
Color: (N Coloration: L Texture: GVL:		Plasticity: NON L  Moisture: DRY M  NA Cementation: NOC C  Upper Contact: SHP G	OW MED HGH NA F IST WET SAT NA LT MOD WEL NA	IOTES:
		XRF Screening Data	ā	
Trial 1 Trial 2 Trial 3 Trial 4 Trial 5	Ph C4	Send to Lab?	Tag Number:	Lu-303243

Grid/Node ID: FSS-PD-023

				Field I	Data		<b>的是各种的是是的。但是</b> 如
Project	: Frisco Neigh	borhood Soil S	urvey			_ Pag	e \ of \
Location	: Frisco, Texas	s				Date	
Site/Area:	POLICE	STATION				- Start Time	
	NOR-7+	1 FIELD	OF	STAT	100	- Finish Time	
						- Avg Top Depth	
Notes						Avg Bottom Depth	
			1			Sampler 1	
							: Ryan Rosser
						GPS Operator	
		-	-			XRF Operator	
				Samı	ple Method:	Five-point Comp	posite / 0-0.25 ft bgs.
				GPS D	ata	· 数据的数据	
Lat		WOLLD SERVICE SERVICES		Notes:			
Long:							
DOP:				-			
Coloration:  Texture: GVL:  SND:  SLT/CLY:	30 % FMC AND	1	DRK) NA NA	Sorting:  Plasticity:  Moisture:  Cementation:  Strength:  Upper Contact  Observed:  Other:	DRY MS NOW SL NOC /CC st: SHP GR STN SH	MED HIGH NA  TO WET SAT NA  TO MOD WEL NA  TO DIF SME CA  NO ODR PRD (NA  TRACE FRAGMEN	NOTES:  From grid composite.
			XRF	Screeni			- 3 - 1 - 0 - 2 - 0 - 1 - 1 - 1
	Pb Cd	7			ng Date		<b>了</b> 就是"阿拉特要你是
	(PPM) (PPM)		Notes:	_			
Trial 1	ZZ ND	1	-				
Trial 2	25 ND	1	( <del>-</del>				
Trial 3	36 ND	1	-				
Trial 4	33 NO		-				
Trial 5	33 ND		-		10		100000
	331 112	I		Send to Lab?	1	Tag Numbe	6-303241 MCS 6-303240 MCS
=						lo-	-303 181

6-303181 6-303180

Grid/Node ID: FSS-PD-024

				Field Da	ata				
Project:	Frisco Neighbo	orhood Soil S	Survey			F	Page	1 0	of \
Location:	Frisco, Texas					T-1	ate:	March 16	
Site/Area:_	Police	570	TIO	J		Start T	ime:	1006	
	FIELD	NE		STATIO	no	Finish T	ime:	10 05	
_						Avg Top De	pth:		Feet
Notes _						Avg Bottom De	pth:		Feet
·						Sample	er 1:	Melissa Sr	nith
_						Sample	er 2:	Ryan Ross	ser
						GPS Opera	ator:	Patricia Wi	
_						XRF Opera	tor:	Paul Jame	
				Sampl	e Method:	Five-point C	ompos	ite / 0-0.25 ft	bgs.
				GPS Da	ita		177 Miles		
Lat_				Notes:		NAME OF TAXABLE PARTY.	SON EVEN THAN THE EVEN	ALLEY ALLEY HER ALLEY AL	Lacontocent
Long: _									
DOP:									
	·								
<b>经</b> 表现			Li	thologica	I Data				AL THE SE
	atural Fill Uncertain			Sorting:	WEL M	OD POR (NA)	NO	OTES:	
	UN GSA DOZK		0	Plasticity:	NON (	W MED HGH NA	Fr	om grid compo	site.
	NI MITD VAR STN			Moisture:	DRY M	WET SAT NA	_		
Texture: GVL:			NA	Cementation:	NON SI	T MOD WEL NA	_		
SND:	_	SUB RND	NA	Strength:	NOC /	OH) FIRM			
SLT/CLY: 7				Upper Contact:	SHP GF	D DIF SME NA			0
org: Z	<u>O</u> %			Observed:	STN SH	N ODR PRD (NA			
				Other:			311		
			XRF	Screening	na Data			ALTA CARA	
THE RESERVE OF THE PERSON OF T	Pb Cd				ig Dun				
1,	(PPM) (PPM)		Notes:						
Trial 1	17 ND		,						
Trial 2	1-0		,						
-	28 ND								
Triol 4									
Trial 5	710 ND				1				
illai 5	22 ND			Send to Lab?	hold	Tag Nu	mber:	10-30318	2
							L	-30318	3

Grid/Node ID: F55- CT- 025

			1	Field D	ata				Marin or
Project:	Frisco Neighb	orhood Soil Si		- HAUNGESTANDED	E.C. Detaup Total 1942		Page	( of	F )
Location:	Frisco, Texas					7.0	Date:	March   6	
Site/Area:	CADD	OTRA	ال			Start 7	_	1037	, 2010
		PORT		PAF	315	Finish 1	-	1050	
	<u>Warrantee</u>					Avg Top De	-	1020	Feet
Notes						Avg Bottom De	-	_	Feet
						Sampl	-	Melissa Sm	
						Sampl		Ryan Rosse	
						GPS Oper	-		
						XRF Oper	-		
				Samp	le Method:		-	site / 0-0.25 ft b	
				GPS Da	ata			Market William	gs.
Lat				Notes:	ala				
Long:				iotes					
DOP:				-					
				-					
Color: (Coloration: Texture: GVL: SND: SLT/CLY:	6 % Z ANG	SUB RND N	So Pla Mo NA Cel IA Str Up Ob:		WEL MO NON LO DRY MS NOO CO SHP GRI STN SHN	D DIF SME NA	-	OTES: rom grid composi	ite.
		)	(RFS	creenir	ng Data				And The
Trial 1 Trial 2 Trial 3 Trial 4 Trial 5	Pb Cd (PPM) (PPM) 25 ND 41 ND 28 ND 43 ND 34 ND		Sen	d to Lab?	<u>_N</u>	Tag Nu	ımber:	10-303181	4
Trial 4			Sen	d to Lab?	<u>h</u> _	Tag Nu		6-303189	

Grid/Node ID: FSS- CT-026

<b>然是影</b> 然	Field	Data		
Project		- utu	P	
Location			Page	of
Site/Area	CADDO TRAIL PARK		Date: _ Start Time:	March 1 € , 2010
	N-EAST PORTION OF PARK		Finish Time:	1110
			Avg Top Depth:	
Notes	3		Avg Bottom Depth:	Feet Feet
			Sampler 1:	Melissa Smith
			_	Ryan Rosser
			GPS Operator:	Patricia Willis
			XRF Operator:	Paul James, P.G.
	Sam	ple Method:		site / 0-0.25 ft bgs.
	GPS D	)ata		The same and the same
Lat		utu	<b>》於自然是於於於其語的人</b>	<b>公是於私門</b> 於取為50
Long:				
DOP:				
	Lithologic	al Data		
Material:	Natural Fill Uncertain Sorting:	WEL MO	D POR (NA) N	IOTES:
	MUN GSA DR . BROWN Plasticity:		, –	rom grid composite.
	UNI MTD VAR STN Moisture:		TWET SAT NA	Jan San Jan San San San San San San San San San S
Texture: GVL:	% ANG SUB RND NA Cementation	: (NON SLT	MOD WEL NA	
	20 % 12 ANG SUB RND NA Strength:	NOC COL	DLOOSE	
SLT/CLY:	opper conta	ct: SHP GRD	DIF SME NA	
ORG:	10 % Observed:	STN SHN	ODR PRD NA	
	Other:			
	XRF Screen	ina Data	Electric Color Color	
[	Ph Cd	ing Data		
	Pb         Cd         Notes:           (PPM)         (PPM)			
Trial 1				
Trial 2				
Trial 3	ND ND			
Trial 4				
Trial 5	27 10	hall		
	Send to Lab?	11010	Tag Number:	6-303186
			1	0-303187

Grid/Node ID: T5S-CT-027

		Field Data		
Project	: Frisco Neighborhood Soil Survey	/	Page	l of \
Location	: Frisco, Texas		Date:	March 16, 2010
Site/Area	CADDO TRAIL P	Ara	Start Time:	11:27
	NORTH-CENTER	PORTON OF PAR	Finish Time:	11:36
			Avg Top Depth:	Feet
Notes			Avg Bottom Depth:	Feet
			Sampler 1:	Melissa Smith
			Sampler 2:	Ryan Rosser
			GPS Operator:	Patricia Willis
			XRF Operator:	Paul James, P.G.
		Sample Method:	Five-point Compo	site / 0-0.25 ft bgs.
		GPS Data		
Lat		Notes:	7.47.41.8	
Long:				
DOP:				
CANE TANK		:41 -1 : 15 /		
Material:		ithological Data		
	MUN GSA ROWN		_	NOTES:
Coloration:	MUN GSA ROWN UNI MTD VAR STN		and the second s	From grid composite.
Texture: GVL:	**		WET SAT NA	
	M F ANG SUB RND NA		T MOD WEL NA	
SLT/CLY:	Table 1	Strength: Not / CO	<i></i>	
ORG:	7.		~ -	
(200.50 <b>5</b> 0)		Observed: STN SH Other:	N ODR PRD (A) -	
Y MEN AND	XR	F Screening Data		
	Pb Cd Notes	s:		
	(PPM) (PPM)			
Trial 1	21 ND			
Trial 2	ZIO NO			
Trial 3	17 ND			
Trial 4	25 ND			
Trial 5	BND	Send to Lab? 100	Tag Number:	6-303188
	e e e e e e e e e e e e e e e e e e e		-	10-303189

Grid/Node ID: FSS-08-028

		Field Data		
Projec	t: Frisco Neighborhood Soil Survey		Page	of
Location	n: Frisco, Texas		Date:	March   6 , 2010
Site/Area	" CAKBROOK PARK		Start Time:	1247
4	EAST SIDENTO	T PARK	Finish Time:	1310
	AD JACENT TO	BALL FIELD	Avg Top Depth:	Feet
Note	s		Avg Bottom Depth:	+3 Feet
			Sampler 1:	Melissa Smith
			Sampler 2:	Ryan Rosser
			GPS Operator:	Patricia Willis
		11	XRF Operator:	Paul James, P.G.
		Sample Method:	Five-point Compo	
		GPS Data		
La	t	Notes:		
Long				
DOP	:			
	12 N. P. V. M. S. C. T. G. C.			
Mark States	Li	ithological Data		
Material:	Natural Fill Uncertain	Sorting: WEL MO	D POR WAZ N	IOTES:
Color:	MUNGSA BROWN	Plasticity: NON (6)	7 -	rom grid composite.
Coloration:	UNI MTD VAR STN	Moisture: DRY MS	WET SAT NA	
Texture: GVL:	% ANG SUB RND A	Cementation: NON SLT	MOD WEL NA	
	10% F ANG SUB RND ON	Strength: NOC CO	Louse	
SLT/CLY:		Upper Contact: SHP GRE	DIF SME NAS	
ORG:	<u>30</u> %	Observed: STN SHN	ODR PRD MA	
		Other:		0
	YPI	Screening Data		
		Screening Data		
	Pb Cd Notes:			
	(PPM) (PPM)			
Trial 1	22 ND			
Trial 2	12 ND			
Trial 3	ND ND			
Trial 4	17 ND			
Trial 5	ND ND	Send to Lab?	Tag Number:	6-303191
		send to Lab? AOLD KNOT enough volu	^	19
	P	knot enough volu	me for	
		2 jans.		
		100		

Grid/Node ID: FSS-OP-029

Project: Frisco Neighborhood Soil Survey  Location: Frisco, Texas  Site/Area: CAKTROOK PARK  North SIDE - ADJACENT TO  Peet  Notes  Notes  Avg Top Depth: Feet  Avg Bottom Depth: Feet  Sampler 1: Melissa Smith  Sampler 2: Ryan Rosser  GPS Operator: Patricia Willis  XRF Operator: Paul James, P.G.  Sample Method: Five-point Composite / 0-0 25 ft bgs
Location: Frisco, Texas  Site/Area: March , 2010  NOTTH SIDE - ADJACENT TO Finish Time: IS 24  PLAY GROUND Avg Top Depth: Feet  Notes Sampler 1: Melissa Smith  Sampler 2: Ryan Rosser  GPS Operator: Patricia Willis  XRF Operator: Paul James, P.G.
Site/Area: CAKTROOK PARK  NORTH SIDE - ADJACENT TO PLAY GROUNT  Notes  Start Time: IJ 20  Finish Time: IJ 24  Avg Top Depth: Feet  Avg Bottom Depth: Feet  Sampler 1: Melissa Smith  Sampler 2: Ryan Rosser  GPS Operator: Patricia Willis  XRF Operator: Paul James, P.G.
Notes  No
Notes Avg Bottom Depth: Feet Sampler 1: Melissa Smith Sampler 2: Ryan Rosser GPS Operator: Patricia Willis XRF Operator: Paul James, P.G.
Sampler 1: Melissa Smith  Sampler 2: Ryan Rosser  GPS Operator: Patricia Willis  XRF Operator: Paul James, P.G.
Sampler 2: Ryan Rosser  GPS Operator: Patricia Willis  XRF Operator: Paul James, P.G.
GPS Operator: Patricia Willis XRF Operator: Paul James, P.G.
XRF Operator: Paul James, P.G.
Sample Method: Five point Comparity (0.005 K)
Sample Method: Five-point Composite / 0-0.25 ft bgs.
GPS Data
Lat Notes:
Long:
DOP:
Lithological Data
Material: Natural Fill Uncertain Sorting: WEL MOD POR NA NOTES:
Color: MUN GSA DAKE TROWN Plasticity: NON LOW MED (HGH) NA From grid composite.
Coloration: UNI MTD VAR STN Moisture: DRY MST WET SAT NA
Texture: GVL: % ANG SUB RND NA Cementation: NON SLT MOD WEL NA
SND: 1 % ANG SUB RND NA Strength: NOC/ COH) STIFT
SLT/CLY: 50 % Upper Contact: SHP GRD DIF SME (A)
ORG: 10 % Observed: STN SHN ODR PRD WA)
Other:
VDE C
XRF Screening Data
Pb Cd Notes:
(PPM) (PPM)
Trial 1 18 ND
Trial 2 ND ND
Trial 3 ND ND
Trial 4 24 ND
Trial 5 ND ND Send to Lab? 100 Tag Number: 10-303 192
1ag Number: (7-50)5 14 &

Grid/Node ID: PSS-07-030

			Field D	ata			
Project:	Frisco Neighb	orhood Soil Surve	/		Page	7 01	: )
Location:	Frisco, Texas				Date:	March 16	
Site/Area:	OFKBRO	OK PAR	K		Start Time:	1330	,
-	WEST-	SIDE	,		Finish Time:	1335	
-					Avg Top Depth:		Feet
Notes _					Avg Bottom Depth:		Feet
n					Sampler 1:	Melissa Sm	ith
-					Sampler 2:	Ryan Rosse	er
<del>-</del>					GPS Operator:	Patricia Will	lis
-	- K				XRF Operator:	Paul James	, P.G.
			Samp	le Method: _	Five-point Compo	site / 0-0.25 ft b	gs.
			GPS Da	ata	i de como de la como d		
Lat_			Notes:		-	A SOCIETY OF THE PARTY OF THE P	
Long: _			_				
DOP: _	2		_				
Material: N			ithologica	The second secon			
	atural Fill Uncertain		Sorting:	WEL MOD	~ ( /	NOTES:	
	M MTD VAR STN	The state of the s	Plasticity:	( ) ( )	_	rom grid compos	ite.
Texture: GVL:			Moisture:	DRY WST	WET SAT NA		
SND: \		SUB RND NA	Cementation:		MOD WEL NA		
SLT/CLY: 7		SUB RND NA	Strength:	-1	FIRM		
ORG:			Upper Contact	7-	DIF SME NA _		
			Observed: Other:	_	ODR PRD NA		
No expenses and execution	S476 NSS 2 2276	Construction of the Constr	Other:	IRACE	CALECTE NO	18-	
		XR	F Screenii	ng Data	<b>对现在是一个</b>		HS IN
	Pb Cd	Notes					
	(PPM) (PPM)						
Trial 1	28 ND						
Trial 2	7) ND						
Trial 3	32 ND						
Trial 4	28 ND						
Trial 5	31 ND		Send to Lab?	W5	Tag Number	6-30319	1
				7	· ag Hamber	10-30319	

Grid/Node ID: FSS-SC-031

					Field Da	ata			
Projec	t: Frisc	co Neighbo	orhood	Soil Survey			Pa	ge	of
Location		co, Texas					Dat		<b>+</b> 1
Site/Area	: FRI	500	SE	NOR	CENTER	?	Start Tim	e: 12	
							Finish Tim	e: \ L	137
							Avg Top Dept	h:	Feet
Note	s						Avg Bottom Dept	h:	Feet
							Sampler	1: Melis	ssa Smith
							Sampler	2: Ryar	n Rosser
	-						GPS Operato	r: Patri	icia Willis
							XRF Operato	r: Paul	James, P.G.
					Sample	Method:	Five-point Con	nposite / 0-	0.25 ft bgs.
					GPS Da	ta			
La	t				Notes:			ANNA MENINGER	
Long									¥ :
DOP									
Marie and Marie and	ATA STATE OF STREET	2012				0			
				L	thological	Data			
Material:	Wateral Fill			1	Sorting:	WEL MO	DD POR NA	NOTES:	
Color:	MUN GSA_			OWN	Plasticity:	NON LO	W MED HGH NA	From grid	l composite.
Coloration:	UNI MTD				Moisture:	1	WET SAT NA		_
Texture: GVL:				RND NA	Cementation:		T MOD WEL NA		
SND:		ANG	SUB	RND NA	Strength:	NOC CO	D STIFF		
SLT/CLY:					Upper Contact:	SHP GR	D DIF SME (A)		
ORG:	10%				Observed:	STN SH	N ODR PRD (A)		
					Other:				
		<b>建</b> 加速	10 to	XRE	Screenin	g Data			
WHITE VANCEUPE OF MANAGEMENT	Pb	Cd				g Data		國國 经营港	
	(PPM)	(PPM)		Notes	:				
Trial 1	20								
Trial 2	31	ND							
Trial 3	7(.	ND							
Trial 4	72	ND			-				
Trial 5	22	NO				100			
	20	ND			Send to Lab?	KS	Tag Numl	ber: <u>4-3</u> (	
						$\bigcirc$		6-30	3197

Grid/Node ID: FSS-HC-032

	Field Data		
Project	: Frisco Neighborhood Soil Survey	Page	\ of \
Location	: Frisco, Texas	Date:	March 16, 2010
Site/Area	HERRTINGE CENTER	Start Time:	1437
	NEXT TO GAZEBSZ	Finish Time:	1447
		Avg Top Depth:	Feet
Notes		Avg Bottom Depth:	Feet
		Sampler 1:	Melissa Smith
		Sampler 2:	Ryan Rosser
		GPS Operator:	Patricia Willis
		XRF Operator:	Paul James, P.G.
	Sample Method:	Five-point Compos	site / 0-0.25 ft bgs.
	GPS Data		
Lat	Notes:	The second secon	
Long:			
DOP:			
Metarial	Lithological Data		5
Material: Color:	X 45- 11		NOTES:
Coloration: (			From grid composite.
Texture: GVL:		ST WET SAT NA	
	Color (NOIN) SE	T MOD WEL NA	
SLT/CLY:	000	S7188 _	
	10	RD DIF SME (NA)	
	Observed: STN SH Other:	N ODR PRD NA _	
	-		
	XRF Screening Data		
	Pb Cd Notes:		
	(PPM) (PPM)		
Trial 1	49 ND		
Trial 2	34 ND		
Trial 3	41 ND		
Trial 4	52 ND		
Trial 5	45 ND Send to Lab? WS	Tag Number:	6-303198
		(0.00)	6-303199

### Grid/Node ID: 155-98-033

					the state of the s	Field Da	ita			
Project	:Fris	co Neighbo	orhood	d Soil	Survey			The state of the s	Page	e   of
Location		co, Texas							Date	11.
Site/Area	:E	RANT	>_	P	ATZK	>			Start Time:	
	^	JE CI	RH	JEF	2				Finish Time:	1520
								Av	g Top Depth:	
Notes								Avg Bo	ottom Depth:	Feet
									Sampler 1:	Melissa Smith
									Sampler 2:	Ryan Rosser
								GI	PS Operator:	Patricia Willis
								XI	RF Operator:	Paul James, P.G.
						Sample	Method:	Five	e-point Comp	osite / 0-0.25 ft bgs.
						GPS Dat	ta			
Lat						Notes:				THE PARTY OF THE P
Long:										
DOP:										
Market Street		N. F								
	<b>利达</b>		GIVE S		LI	thological	Data	是是情報	<b>经过股户</b>	
Material: Color:		II Uncertain				Sorting:	WEL MOI	POR N	A	NOTES:
		\/AD_0711				Plasticity:	NON LOV			From grid composite.
Texture: GVL:		VAR STN				Moisture:	DRY MST		5000	
SND:		ANG ANG				Cementation:	NON SLT		SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PER	
SLT/CLY:		ANG	SUB	KND	NA	Strength:	NOC / COF			
	%					Upper Contact:	SHP GRD		13	
J.1.5.						Observed:	STN SHN	ODR PR	D NA	
Disposition of the second		WW.110/10/2007				Other:		7,		
					XRF	Screenin	g Data			
	Pb	Cd			Notes:		***************************************		W-00000 AUTO-00000 ECOLUMN 2.00	
	(PPM)	(PPM)			motoo.					
Trial 1	31	ND			5					
Trial 2	19	ND					-	-		
Trial 3	18	ND				*				
Trial 4	28	ND								
Trial 5	30	ND				Send to Lab?	nold		Tag Numbe	r: <u>lo-303200</u>
	_	_					-			6-303201

Grid/Node ID: FSS-GR-034

		Field Data		
Project	: Frisco Neighborhood Soil Survey		Page	of
Location	:Frisco, Texas		Date:	March , 2010
Site/Area	GRAND PAR	K	Start Time:	15 75
	SE CORNEY	2	Finish Time:	1527
			Avg Top Depth:	→ Feet
Notes			Avg Bottom Depth:	Feet
			Sampler 1:	Melissa Smith
			Sampler 2:	Ryan Rosser
			GPS Operator:	Patricia Willis
			XRF Operator:	Paul James, P.G.
		Sample Method:	Five-point Compo	site / 0-0.25 ft bgs.
	的情况。在是特殊的特色的	GPS Data		<b>深处中华的</b>
Lat		Notes:		AND THE PROPERTY OF THE PROPER
Long:				
DOP:				
		W-1 1 15 1		
	and the second s	thological Data		
Material:	Natural Fill Uncertain  MUN GSA DR. BROWN		- C31 C	NOTES:
Color: Coloration:	MUNGSA DR. ISRONN  (UNI) MTD VAR STN	>	_	From grid composite.
Texture: GVL:	% ANG SUB RND NA	Moisture: DRY MS Cementation: NON SL	_	
	10 % F ANG SUB RND NA	-	T MOD WEL NA _	
SLT/CLY:			D DIF SME NA	
	3D %		N ODR PRO WA	
		Other: SILTY LC		
es Agricologica de la compania				
	XRI	Screening Data		
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Trial 3	76 ND			
Trial 4	54 ND			
Trial 5	59 ND	Send to Lab?	Tag Number	:10-303702
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Grid/Node ID: FSS-GR-035

		1000				Field Da	ata	100		<b>张斯敦教育</b>	M. St.	
Project	t: Fris	sco Neighb	orhood	Soil S	Survey				Page		of	
Location		sco, Texas						-	Date:		_	2010
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	e								Sampler 2:	Ryan F	Rosse	er
									GPS Operator:	Patricia	a Will.	is
									XRF Operator:	Paul Ja	imes,	P.G.
						Sample	Method:		Five-point Comp	osite / 0-0.2	25 ft b	gs.
						GPS Da	ta		<b>基础图</b>		11030	(188) (S.)
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						Other:						
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	Pb	Cd					g Date					
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Grid/Node ID: FSS-GR-036

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Project	: Frisco Neighb	orhood Soil S	Survey	i loiei b	464		Page 1		
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Trial 2	47 NO								
Trial 3	24 ND		_						
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Trial 5	34 ND		-	Send to Lab?	hold		Tag Numba	r:6-3037	2/2/0
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Grid/Node ID: <u>Fss-B6-037</u>

					Field Da	ata			
Project	t:Fris	co Neighb	orhood Soil	Survey			Pag	е	of
Location	: Fris	sco, Texas					Date		, 2010
Site/Area	:15	EAVER	es B	END	PARK		Start Time	167	
		SACK	GROU	Qu			Finish Time		
							Avg Top Depth		Feet
Notes	S						Avg Bottom Depth	1;	Feet
	7						Sampler 1	: Melissa	Smith
							Sampler 2	: Ryan Ro	osser
							<b>GPS Operator</b>	: Patricia \	Willis
				-			XRF Operator	: Paul Jan	nes, P.G.
Internation of the Control of the Co					Sample	e Method: _	Five-point Com	oosite / 0-0.25	ft bgs.
					GPS Da	ta			
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Coloration:	MUN GSA UNI MTD				Plasticity:		MED HGH NA	From grid com	posite.
Texture: GVL:		COLOR COLOR	SUB RND		Moisture:		WET SAT NA		
	10 %		SUB RND		Cementation:		MOD WEL NA		
SLT/CLY:		777/100	SUBS KND	NA	Strength:	NOC / COA			
ORG:					Upper Contact:		DIF SME (NA)		
	<u></u> "				Observed: Other:	SIN SHN	ODR PRD (NA)		
					Other:				
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	Pb	Cd		Notes:				AND DESCRIPTIONS OF THE PARTY O	DEPOSIT DE LA CONTRACTA DE LA
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Trial 2	ND	ND							
Trial 3	ND	ND		2			-		
Trial 4	ND	ND							
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(XX)	18					Harret		10-303	100

Grid/Node ID: FSS-BG-038

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Project:	Fri	sco Neighb	orhood Soil	Survey			Pa	GO.		of	
Location:		sco, Texas					Dat		March	, 201	0
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		ACTION	-GROV				Finish Tim	-	16		
							Avg Top Dept	-		Fee	et
Notes						10	Avg Bottom Dept	-		Fee	
							Sampler	1:	Melissa	Smith	
							Sampler		Ryan Ro		
							GPS Operato	or:	Patricia	Willis	
9							XRF Operato	or:	Paul Jan	nes, P.G	<del>.</del>
					Samp	le Method:	Five-point Con	nposit	e / 0-0.25	ft bgs.	
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	an trans	ard Nata	The state of the s	Li	thologica	al Data					
		ill Uncertain	1		Sorting:	WEL MC	DD POR (NA)	NO	TES:		
	MUN GSA				Plasticity:	NON LO	W MED HGH NA	Froi	m grid com	posite.	
	_	VAR STA			Moisture:	DRY MS	WET SAT NA				
Texture: GVL: _	%	+ ANG			Cementation:	NON SL	T MOD WEL NA				
-	<u>75</u> %	FM ANG	SOB RND	NA	Strength:	NOC (CO	B FIRM		3	<u>ti</u>	
SLT/CLY: _					Upper Contac	t: SHP GR	D DIF SME (A)				
ORG:	<del>10</del> %	5%			Observed:	STN SHI	ODR PRD (NA)	200			
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	Pb	Cd		Notes:							
	(PPM)	(PPM)									
Trial 1	22	ND									
Trial 2	ND	ND									
Trial 3	10	ND									_
Trial 4	17	ND									
Trial 5	24	NO			Send to Lab?	WS	Tag Numl	ber: (/	1-3037	209	_
		911					500 65 <del>4 -</del> 00.007(20,57 97		7/2		_

ATTACHMENT 4

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



### Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

### **Final Analytical Report**

Analyses included in this report:

Metals ICP 6010B Solids, Dry Weight Metals ICP 6010B (No Dry Wt)

### **Report Narrative**

Sample Management:

Even numbered samples were dried and sieved (250 micron) prior to digestion and analysis.

Metals ICP: Batch B0C3105:

MS1/MSD1/MS4/MSD4: Cadmium spike recoveries are low; the results are qualified and may be biased low.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin

Region 6 Laboratory Manager

David Neleigh

Region 6 Laboratory Branch Chief

# WANTED STATES

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

### Sample Receipt and Disposal

Site Name: Frisco Neighborhood Soil Survey	Project Number: 10RCRA127	
Data Management Coordinator: Christy Warren	4 68/10	
Data Managemen Coordinator Signature	Date	
Date Transmitted: 4 28/10		
Please have the U.S. EPA Project Manager/Officer call the l comments or questions.	Data Management Coordinator at 3-213	37 for any
Please sign and date this form below and return it with any	comments to:	•
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS  Muna Sulland Received by and Date	<u>4 , 10</u>	
Comments:		
The laboratory routinely disposes of samples 90 days after a hold these samples in custody longer than 90 days, please si		u have a need to
Muliona Smh Signature Da	<u>\$/19/10</u>	
Please provide a reason for holding:		
Due to variations in the	data, ana addition	ral Samples
analyses may be needed until a final determine addl analyses.	ation is made rego	erding



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
3	1003016-01	Solid	3/15/10 9:40	03/18/10 08:55
3	1003016-02	Solid	3/15/10 9:40	03/18/10 08:55
7	1003016-03	Solid	3/15/10 11:35	03/18/10 08:55
7	1003016-04	Solid	3/15/10 11:35	03/18/10 08:55
10	1003016-05	Solid	3/15/10 14:05	03/18/10 08:55
10	1003016-06	Solid	3/15/10 14:05	03/18/10 08:55
13	1003016-07	Solid	3/15/10 15:00	03/18/10 08:55
13	1003016-08	Solid	3/15/10 15:00	03/18/10 08:55
14	1003016-09	Solid,	3/15/10 15:25	03/18/10 08:55
14	1003016-10	Solid	3/15/10 15:25	03/18/10 08:55
16	1003016-11	Solid	3/15/10 16:15	03/18/10 08:55
16	1003016-12	Solid	3/15/10 16:15	03/18/10 08:55
17	1003016-13	Solid	3/15/10 16:50	03/18/10 08:55
17	1003016-14	Solid	3/15/10 16:50	03/18/10 08:55
19	1003016-15	Solid	3/15/10 9:40	03/18/10 08:55
19	1003016-16	Solid	3/15/10 9:40	03/18/10 08:55
20	1003016-17	Solid	3/15/10 14:05	03/18/10 08:55
20	1003016-18	Solid	3/15/10 14:05	03/18/10 08:55
21	1003016-19	Solid	3/15/10 15:00	03/18/10 08:55
21	1003016-20	Solid	3/15/10 15:00	03/18/10 08:55
22	1003016-21	Solid	3/15/10 15:25	03/18/10 08:55
22	1003016-22	Solid	3/15/10 15:25	03/18/10 08:55
23	1003016-23	Solid	3/16/10 9:55	03/18/10 08:55
23	1003016-24	Solid	3/16/10 9:55	03/18/10 08:55
25	1003016-25	Solid	3/16/10 10:50	03/18/10 08:55
25	1003016-26	Solid	3/16/10 10:50	03/18/10 08:55
30	1003016-27	Solid	3/16/10 13:35	03/18/10 08:55
30	1003016-28	Solid	3/16/10 13:35	03/18/10 08:55
31	1003016-29	Solid	3/16/10 14:37	03/18/10 08:55
31	1003016-30	Solid	3/16/10 14:37	03/18/10 08:55
32	1003016-31	Solid	3/16/10 14:47	03/18/10.08:55
32	1003016-32	Solid	3/16/10 14:47	03/18/10 08:55
34	1003016-33	Solid	3/16/10 15:27	03/18/10 08:55
34	1003016-34	Solid	3/16/10 15:27	03/18/10 08:55
38	1003016-35	Solid	3/16/10 16:35	03/18/10 08:55

Report Name: 1003016 FINAL 04 22 10 1136 Page 1 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
38	 1003016-36	Solid	3/16/10 16:35	03/18/10 08:55

Report Name: 1003016 FINAL 04 22 10 1136 Page 2 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Fax:(281)983-2248 Phone:(281)983-2100

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-01

Station ID: 3

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.541 g

%Solids: 74.28

Sample Qualifiers:

#### **Targets**

Analyte (CAS Number)	Result Analyte mg/kg dry Qualifiers	Reporting Limit	Dilution	Prepared A	nalyzed
Cadmium (7440-43-9)	U L	0.6	1	03/30/10	04/08/10
Lead (7439-92-1)	18.3	.3.7	и	. 11	11

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-02 Station ID: 3

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.484 g

Sample Qualifiers:

#### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U <b>1,100</b>	•	0.5 3.1	1	03/30/10 04/08/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-03

Station ID: 7

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.505 g %Solids: 70.47

Sample Qualifiers:

#### **Targets**

Analyte (CAS Number)	Result Analyte mg/kg dry Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9)	U	0.7	1	03/30/10 04/08/10
Lead (7439-92-1)	18.6	4.2	"	

Report Name: 1003016 FINAL 04 22 10 1136 Page 3 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-04

Station ID: 7

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.499 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9)	U		0.5	1	03/30/10	04/08/10
Lead (7439-92-1)	216		3.0	11	21	11

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-05

Station ID: 10

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.513 g

Sample Qualifiers:

%Solids: 75.17

### **Targets**

Analyte (CAS Number)	 Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed	
Cadmium (7440-43-9) Lead (7439-92-1)	U 37.5		0.6 3.9	1 "	03/30/10 04/08/10	_

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-06

Station ID: 10

Batch: B0C3105 Sample Type: Solid

Date Collected: 03/15/10 Sample Weight: 0.537 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 156		0.5 2.8	1 "	03/30/10	04/08/10

Report Name: 1003016 FINAL 04 22 10 1136 Page 4 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-07

Station ID: 13

Batch: B0C3105 Sample Type: Solid

Date Collected: 03/15/10 Sample Weight: 0.505 g %Solids: 74.96

Sample Qualifiers:

#### **Targets**

Analyte (CAS Number)		Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared A	nalyzed
Cadmium (7440-43-9) Lead (7439-92-1)	٠.	U 256		0.7	1 "	03/30/10	04/08/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-08

Station ID: 13

Batch: B0C3105 Sample Type: Solid

Date Collected: 03/15/10 Sample Weight: 0.507 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9)	U		0.5	1	03/30/10	04/08/10
Lead (7439-92-1)	142		3.0	и	71	Ħ

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-09

Station ID: 14

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.511 g %Solids: 54.05

Sample Qualifiers:

#### **Targets**

Analyte (CAS Number)	Result Analyte mg/kg dry Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9)	U	0.9	1	03/30/10 04/08/10
Lead (7439-92-1)	46.8	5.4	<u>`</u> 11	11 11

Report Name: 1003016 FINAL 04 22 10 1136 Page 5 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-10

Station ID: 14

Batch: B0C3105 Sample Type: Solid

Date Collected: 03/15/10 Sample Weight: 0.548 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9)	U		0.5	1	03/30/10	04/08/10
Lead (7439-92-1)	67.6	: .	2.7	Pt .	11	11

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-11

Station ID: 16

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.506 g %Solids: 69.83

Sample Qualifiers:

#### **Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U <b>69.6</b>		0.7 4.2	1 "	03/30/10	04/08/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-12

Station ID: 16

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.501 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 200		0.5 3.0	1 "	03/30/10	04/08/10

Report Name: 1003016 FINAL 04 22 10 1136 Page 6 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-13

Station ID: 17

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.51 g %Solids: 66.90

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyze	ed
Cadmium (7440-43-9)	U		0.7	1	03/30/10 04/08/1	0
Lead (7439-92-1)	144		4.4	·		

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-14

Date Collected: 03/15/10

Batch: B0C3105 Sample Type: Solid

Sample Weight: 0.573 g

Sample Qualifiers:

Station ID: 17

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9)	U	-	0.4	1	03/30/10 04/08/10
Lead (7439-92-1)	428	•	2.6	11'	

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-15

Station ID: 19

Batch: B0C3105 Sample Type: Solid

Date Collected: 03/15/10 Sample Weight: 0.509 g

Sample Qualifiers:

%Solids: 74.87

#### **Targets**

Analyte (CAS Number)	Result Ar mg/kg dry Qua	nalyte Reporting alifiers Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9)	U	0.7	1	03/30/10	04/08/10
Lead (7439-92-1)	16.9	3.9	. "	,11	π

Report Name: 1003016 FINAL 04 22 10 1136 Page 7 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Fax:(281)983-2248 Phone:(281)983-2100

### Metals by EPA Method 6010B - ICP

1003016-16 Lab ID:

Batch: B0C3105

Sample Type: Solid

Date Collected: 03/15/10 Sample Weight: 0.494 g

Sample Qualifiers:

Station ID: 19

### Targets.

Analyte (CAS Number)		Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9)		U,		0.5	1	03/30/10	04/08/10
Lead (7439-92-1)	*	196		3.0	"	11	и.

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-17

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.507 g

%Solids: 77.70

Sample Qualifiers:

Station ID: 20

#### Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared A	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 39.0		0.6 3.8	1	03/30/10	04/08/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-18

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.513 g

Station ID: 20 Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	•	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)		U <b>85.0</b>		0.5 2.9	1 "	03/30/10	04/08/10

Report Name: 1003016 FINAL 04 22 10 1136 Page 8 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-19

Station ID: 21

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.501 g

Sample Qualifiers:

%Solids: 77.90 **Targets** 

Analyte (CAS Number)	Result Analyte mg/kg dry Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9)	U	0.6	1	03/30/10 04/09/10
Lead (7439-92-1)	123	3.8	11	11

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-20

Station ID: 21

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.524 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9)	U U		0.5	1	03/30/10 04/09/10
Lead (7439-92-1)	123		2.9	Ħ	n u

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-21

Station ID: 22

Batch: B0C3105 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.519 g %Solids: 56.54

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result Analyte mg/kg dry Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9)	U	0.9	1	03/30/10 04/09/10
Lead (7439-92-1)	45.0	5.1	, tt	

Report Name: 1003016 FINAL 04 22 10 1136 Page 9 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-22

Batch: B0C3105 Date Collected: 03/15/10 Sample Type: Solid Sample Weight: 0.478 g

Sample Qualifiers:

Station ID: 22

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9)	U		0.5	1	03/30/10	04/09/10
Lead (7439-92-1)	54.1		3.1	11	ú	"

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-23

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.506 g

%Solids: 78.22

Sample Qualifiers:

Station ID: 23

### **Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 28.7		0.6 3.8	1	03/30/10 04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-24

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.537 g Station ID: 23

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 66.9		0.5 2.8	1	03/30/10 04/09/10

Report Name: 1003016 FINAL 04 22 10 1136 Page 10 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-25

Date Collected: 03/16/10

Batch: B0C3105 Sample Type: Solid

Sample Weight: 0.503 g %Solids: 74.92

Sample Qualifiers:

Station ID: 25

### **Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U <b>27.3</b>		0.7 4.0	1	03/30/10	04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-26

Batch: B0C3105

Sample Type: Solid

Date Collected: 03/16/10 Sample Weight: 0.515 g

Station ID: 25

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	:	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	٠	U 57.8		0.5 2.9	1 "	03/30/10	04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-27

Batch: B0C3105

Sample Type: Solid

Date Collected: 03/16/10 Sample Weight: 0.506 g

%Solids: 78.87

Sample Qualifiers:

Station ID: 30

#### **Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U <b>24.6</b>		0.6 3.8	i "	03/30/10	04/09/10

Report Name: 1003016 FINAL 04 22 10 1136 Page 11 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-28

Sample Type: Solid

Batch: B0C3105 Date Collected: 03/16/10

Sample Weight: 0.51 g

Station ID: 30

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result Analyte mg/kg Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 51.7	0.5 2.9	1	03/30/10	04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-29

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.541 g

%Solids: 75.30

Station ID: 31

Sample Qualifiers:

### **Targets**

mg/kg dry	Qualifiers	Limit	Dilution	Prepared	Analyzed	٠
U 41.0		0.6	1	03/30/10	04/09/10	
	mg/kg dry U 41.0	U	U 0.6	U 0.6 1	U 0.6 1 03/30/10	U 0.6 1 03/30/10 04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-30

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.473 g Station ID: 31

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U <b>453</b>		0.5 3.2	1	03/30/10	04/09/10

Report Name: 1003016 FINAL 04 22 10 1136 Page 12 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-31

Date Collected: 03/16/10

Sample Type: Solid

Batch: B0C3105

Sample Weight: 0.517 g %Solids: 78.90

Sample Qualifiers:

Station ID: 32

### **Targets**

Analyte (CAS Number)	Result Analyte mg/kg dry Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U L 37.7	0.6 3.7	1	03/30/10	04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-32

Station ID: 32

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.477 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U <b>189</b>		0.5 3.1	1 "	03/30/10	04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-33

Station ID: 34

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.513 g %Solids: 76.27

Sample Qualifiers:

#### **Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 71.2		0.6 3.8	1	03/30/10	04/09/10

Report Name: 1003016 FINAL 04 22 10 1136 Page 13 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-34

Station ID: 34

Batch: B0C3105 Sample Type: Solid

Date Collected: 03/16/10 Sample Weight: 0.506 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U <b>224</b>		0.5 3.0	1 "	03/30/10	04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-35 Station ID: 38

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.535 g

Sample Qualifiers:

%Solids: 80.85

#### **Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 14.8		0.6 3.5	1	03/30/10	04/09/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-36

Station ID: 38

Batch: B0C3105 Sample Type: Solid Date Collected: 03/16/10 Sample Weight: 0.516 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyz	ed
Cadmium (7440-43-9) Lead (7439-92-1)	U 545		0.5 2.9	1	03/30/10 04/09/	ιο

Report Name: 1003016 FINAL 04 22 10 1136 Page 14 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0C3105 Sample Type: Solid

### **Blank (B0C3105-BLK1)**

Prepared: 3/30/2010 Analyzed: 4/8/2010

### **Targets**

ANALYTE			Analyte Reporting Qualifiers Limit		
Cadmium		U	0.5	•	
Lead		U	3.0		

### LCS (B0C3105-BS1)

Prepared: 3/30/2010 Analyzed: 4/8/2010

### Targets

ANALYTE	Result mg/kg wet Q	Analyte Re Qualifiers	eporting Limit	g Spike Level	 %REC	%REC Limits	
Cadmium	4.6		0.5	5.00	92.5	75-125	
Lead	37.5		3.0	40.0	 93.8	75-125	

### Matrix Spike (B0C3105-MS1)

Source: 1003016-01

Prepared: 3/30/2010 Analyzed: 4/8/2010

#### Targets

				~				
ANALYTE	•	Result mg/kg dry	Analyte p Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits	
Cadmium	*	4.4	•	0.6	6.29		70.6 # 75-125	
Lead		60.1	•	3.8	50.3	18.3	82.9 75-125	

### Matrix Spike (B0C3105-MS2)

Source: 1003016-11

Prepared: 3/30/2010 Analyzed: 4/8/2010

#### **Targets**

	 		0					
ANALYTE	Result mg/kg dry	Analyte R Qualifiers	eporting Limit	Spike Level	Source Result	%REC	%REC Limits	
Cadmium	5.4		0.7	6.96		77.2	75-125	
Lead	114		4.2	55.7	69.6	79.0	75-125	

Report Name: 1003016 FINAL 04 22 10 1136 Page 15 of 21



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0C3105 Sample Type: Solid

Matrix Spike (B0C3105-MS3)

Source: 1003016-21

Prepared: 3/30/2010 Analyzed: 4/9/2010

**Targets** 

ANALYTE	Result mg/kg dry	Analyte R Qualifiers	eporting Limit	Spike Level	Source Result	%REC	%REC Limits		
Cadmium	7.6		0.9	8.69		87.1	75-125	-	
Lead	112		5.2	69.5	45.0	96.4	75-125		

Matrix Spike (B0C3105-MS4)

Source: 1003016-31

Prepared: 3/30/2010 Analyzed: 4/9/2010

**Targets** 

ANALYTE		Analyte Reporting Qualifiers Limit				
Cadmium	3.4	0.6	5.94		57.3 # 75-125	
Lead	80.2	3.6	47.6	37.7	89.3 75-125	

Matrix Spike Dup (B0C3105-MSD1)

Source: 1003016-01

Prepared: 3/30/2010 Analyzed: 4/8/2010

**Targets** 

and the second s	_							
	Result	Analyte	Reporting	Spike	Source	%	REC	RPD
ANALYTE	mg/kg dry	Qualifiers	Limit	Level	Result	%REC Li	mits RPI	) Limit
Cadmium	 4.2		0.6	6.04		69.8 # 75	5-125 5.20	20
Lead	59.0		3.6	48.3	18.3	84.2 75	5-125 1.75	20

Matrix Spike Dup (B0C3105-MSD2)

Source: 1003016-11

Prepared: 3/30/2010 Analyzed: 4/8/2010

**Targets** 

ANALYTE	Result mg/kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Cadmium	5.8	0.7	7.13	ř,	80.8	,75-125	6.86	20
Lead	120	4.3	57.1	69.6	88.7	75-125	5.63	20

Report Name: 1003016 FINAL 04 22 10 1136 Page 16 of 21



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0C3105 Sample Type: Solid

Matrix Spike Dup (B0C3105-MSD3)

Source: 1003016-21

Prepared: 3/30/2010 Analyzed: 4/9/2010

**Targets** 

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	RPD	RPD Limit
Cadmium	7.0	0.8	8.07		86.7:	75-125	7.79	20
Lead	114	4.8	64.5	45.0	107	75-125	1.62	20

Matrix Spike Dup (B0C3105-MSD4)

Source: 1003016-31

Prepared: 3/30/2010 Analyzed: 4/9/2010

**Targets** 

ANALYTE	Result Analyte p mg/kg dry Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Cadmium	4.1	0.6	5.83		69.9 #	75-125	18.0	20
Lead	87.1	3.5	46.7	37.7	106	75-125	8.31	20

### Reference (B0C3105-SRM1)

Prepared: 3/30/2010 Analyzed: 4/9/2010

Targets

ANALYTE	Result Analyte R mg/kg wet Qualifiers	Leporting Spike Limit Level	Source Result	%REC	%REC Limits RPD	RPD Limit
Cadmium	10.1	0.5 10.9			70.6-128	,
Lead	61.9	3.0 56.9		109	72.7-127	

Report Name: 1003016 FINAL 04 22 10 1136 Page 17 of 21



ENTROMMENTAL PROTECTION AGENCY

### **Environmental Protection Agency**

### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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### **Region 6 Laboratory**

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### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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# THE PROTECTION

#### **Environmental Protection Agency**

### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### **Notes and Definitions**

L The identification of the analyte is acceptable; the reported value may be biased low. The actual value is

expected to be greater than the reported value.

A This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

U Undetected

# Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

Report Name: 1003016 FINAL 04 22 10 1136 Page 21 of 21

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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



#### Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

### **Final Analytical Report**

Analyses included in this report:

Metals ICP 6010B Solids, Dry Weight Metals ICP 6010B (No Dry Wt)

### **Report Narrative**

Sample Management:

Samples 1003016-01, -02, -15, and -16 were reanalyzed per the customer's request.

Samples 1003016-02 and -16 were dried and sieved (250 micron) prior to digestion and analysis.

ICP Metals: Batch B0E2601:

MSD2: The lead spike is high; the result is qualified and may be biased high.

The RPD is outside the acceptance range due to difficulty in obtaining a homogeneous pair of samples.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin

Region 6 Laboratory Manager

Navjd Neleigh

Region 6 Laboratory Branch Chief

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

### Sample Receipt and Disposal

Project Number: 10RCRA127

Site Name: Frisco Neighborhood Soil Surv	vey Project Number: 10RCRA127
Data Management Coordinator: Christy W	Tarren 5/28/10
Data Management Coordinator Signature	Date
Date Transmitted: 5/28/10	
Please have the U.S. EPA Project Manager comments or questions.	Officer call the Data Management Coordinator at 3-2137 for any
Please sign and date this form below and re	eturn it with any comments to:
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS	
Received by and Date	
Comments:	
The laboratory routinely disposes of sampl hold these samples in custody longer than	les 90 days after all analyses have been completed. If you have a need to 90 days, please sign below.
Signature	Date
Please provide a reason for holding:	



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

#### ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
3	1003016-01	Solid	3/15/10 \9:40	03/18/10 08:55
3	1003016-02	Solid	3/15/10 9:40	03/18/10 08:55
19	1003016-15	Solid	3/15/10 9:40	03/18/10 08:55
19	1003016-16	Solid	3/15/10 9:40	03/18/10 08:55

Report Name: 1003016 FINAL 05 28 10 1030 Page 1 of 10



### **Region 6 Laboratory**

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### Metals by EPA Method 6010B - ICP

1003016-01RE1 Lab ID:

Station ID: 3

Batch: B0E2601 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.508 g %Solids: 74.28

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result Analyte mg/kg dry Qualifiers	Reporting Limit	Dilution	Prepared A	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 16.3 K	2.0 11.9	3	05/26/10	05/26/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-02RE1

Station ID: 3

Batch: B0E2601 Sample Type: Solid Date Collected: 03/15/10 Sample Weight: 0.502 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)		Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared A	nalyzed
Cadmium (7440-43-9) Lead (7439-92-1)	 •	U 118		1.5 9.0	3	05/26/10	05/26/10

### Metals by EPA Method 6010B - ICP

Lab ID: 1003016-15RE1

Date Collected: 03/15/10

Batch: B0E2601 Sample Weight: 0.516 g %Solids: 74.87 Sample Type: Solid

Sample Qualifiers:

Station ID: 19

**Targets** 

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 18.3		1.9 11.6	3	05/26/10 05/26/10

Report Name: 1003016.FINAL 05 28 10 1030 Page 2 of 10



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP

1003016-16RE1 Lab ID:

Station ID: 19

Batch: B0E2601 Sample Type: Solid

Date Collected: 03/15/10

Sample Weight: 0.513 g

Sample Qualifiers:

### **Targets**

Analyte (CAS Number)	Result mg/kg	Analyte Qualifiers	Reporting Limit	Dilution	Prepared A	Analyzed
Cadmium (7440-43-9) Lead (7439-92-1)	U 637		1.5 8.8	3	05/26/10	05/26/10

Report Name: 1003016 FINAL 05 28 10 1030 Page 3 of 10



### Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### **Percent Solids - Quality Control**

**Duplicate (B0E2602-DUP1)** 

Source: 1003016-01RE1

Prepared: 5/25/2010 Analyzed: 5/25/2010

### **Targets**

ANALYTE		nalyte Reporting alifiers Limit	 _	RPD <sup>-</sup>	RPD Limit
% Solids	 76.15		74.28	2.49	20

Report Name: 1003016 FINAL 05 28 10 1030 Page 4 of 10



### Region 6 Laboratory

10625 Failstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0E2601 Sample Type: Solid

### Blank (B0E2601-BLK1)

Prepared: 5/26/2010 Analyzed: 5/26/2010

### **Targets**

ANALYTE	Result A mg/kg wet Qu	nalyte Reporting alifiers Limit	  	
Cadmium	U	0.5		
Lead	Ū	3.0		

### LCS (B0E2601-BS1)

Prepared: 5/26/2010 Analyzed: 5/26/2010

### **Targets**

ANALYTE	Result Analyte mg/kg wet Qualifiers		Spike Level	%REC %REC Limits
Cadmium	4.8	0.5	5.00	95.3 75-125
Lead	38.0	3.0	40.0	95.0 75-125

### Matrix Spike (B0E2601-MS1)

Source: 1003016-01RE1

Prepared: 5/26/2010 Analyzed: 5/26/2010

#### **Targets**

	ANALYTE	Result mg/kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC	%REC Limits	
(	Cadmium	6.3	2.0	6.61		94.8	75-125	
I	Lead	70.9	11.9	52.9	16.3	103	75-125	

### Matrix Spike (B0E2601-MS2)

Source: 1003016-02RE1

Prepared: 5/26/2010 Analyzed: 5/26/2010

#### **Targets**

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits
Cadmium	4.4	1.5	4.95		88.8	75-125
Lead	161	8.9	39.6	118	109	75-125

Report Name: 1003016 FINAL 05 28 10 1030 Page 5 of 10



### **Region 6 Laboratory**

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### Metals by EPA Method 6010B - ICP - Quality Control

Batch: B0E2601 Sample Type: Solid

Matrix Spike Dup (B0E2601-MSD1)

Source: 1003016-01RE1

Prepared: 5/26/2010 Analyzed: 5/26/2010

**Targets** 

	 the state of the s								
ANALYTE	Result mg/kg dry	Analyte p Qualifiers					%REC Limits	RPD	RPD Limit
Cadmium	 6.3		2.0	6.54		95.8	75-125	0.11	20
Lead	62.9		11.8	52.3	16.3	89.0	75-125	12.0	20

Matrix Spike Dup (B0E2601-MSD2)

Source: 1003016-02RE1

Prepared: 5/26/2010 Analyzed: 5/26/2010.

**Targets** 

•						
	Result	Analyte Reporting Qualifiers Limit	Spike	Source	%REC	RPD Limit
ANALYTE	mg/kg	Quantiters Limit	Level	Resuit	VOLUE LIMITS	KPD LIMIT
Cadmium	4.5	1.5	4.99		90.2 75-125	2.36 20
Lead	325	9.0	39.9	118	518 # 75-125	67.4 # 20

### Reference (B0E2601-SRM1)

Prepared: 5/26/2010 Analyzed: 5/26/2010

**Targets** 

ANALYTE		Result mg/kg wet	Analyte R Qualifiers				%REC Limits	RPD	RPD Limit
Cadmium		11.1	į.	0.5	10.9	101	70.6-128	8	
Lead	5 -	58.5		3.0	56.9	103	72.7-12	7	

Report Name: 1003016 FINAL 05 28 10 1030 Page 6 of 10



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

CHAIN OF CUSTODY RECORD	o soil survey	33	STATEON LOCATION	F55-9A-016 2 00 10-303246 6-303249	Ö	2   x   X       6-30324/3,	F35-DP-019   2   8   30     6-303241, 6-303240	@ @           @\@\	F85-0P-02  2 00 00   (6-503,27) 10-303,240		9   18   (3)	,	1 (8/8) 1 1/233/84	1 655- CT- 026 2 X X 1 11-303 186 6-303187	FSS- CF- 027   2   X   X	1 1 1 1 1 1 1 203 91	1765-07-029 2 XX 1 1 16-263/42, 4-303-143	7 h)1808-7	d by: Kigarausi Resimposed by: Kigarausi Date / Time	31-110 Mad	Date Time Received by Separaci Addinguities by Separaci Date Time Archivel by Separaci	Date The Resident of the State		Distriction descriptions Shipsent, Plak to Confinent Park First Shear to Report, Value Variante with Variant
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### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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TO POSSESSIVE OFFICE SOOK IN 180-348



### **Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

### **Notes and Definitions**

K The identification of the analyte is acceptable; the reported value may be biased high. The actual value is

expected to be less than the reported value.

A This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

U Undetected

# Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

Report Name: 1003016 FINAL 05 28 10 1030 Page 10 of 10 ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL CHAIN OF CUSTODY RECORD

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ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL CHAIN OF CUSTODY RECORD

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ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL CHAIN OF CUSTODY RECORD

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EPA 7500-53	400	iributior	Green to Report;	Distribution: White Accompanies Shiphieni, Film to Coominator Fresh Fresh Green to Report; Yellow Returns with Warrant		ē		6 - 08272	1
	<u>.</u> .				, in "				

ATTACHMENT 5

## TABLE 1 Soil Survey, Frisco, Texas SOIL ANALYTICAL RESULTS

Sample I.D.	Sample Date	Туре	Total Solids %	Lead (mg/Kg)
TRRP Tier 1 Total Soil com	, Residential Soil PCI	(0.5-Acre Source Area)	N/A	500
Texas Spe	cific Background Cor	centration	N/A	15
FSS-HS-003	03/15/10	Total Fraction	75	20.8
		Fine Fraction	96	21.5
FSS-FS-017	3/15/10	Total Fraction	67	20.3
1 00 1 0-017	3/13/10	Fine Fraction	96	182
FSS-HS-019	3/15/10	Total Fraction	74	22.0
7 00 110 010		Fine Fraction	95	23.4
FSS-SC-031	3/16/10	Total Fraction	75	31.0
		Fine Fraction	94	55.2
FSS-BG-038	3/16/10	Total Fraction	85	135
. 00 50 000	3/10/10	Fine Fraction	96	16.4

mg/Kg - milligrams/Kilogram

N/A - Not Applicable



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Louisiana: 02007 Kansas: E-10388 Texas: T104704232-10-1

#### **Report of Sample Analysis**

Southwest Geoscience

2351 W. Northwest Hwy, Suite 3321

Dallas, TX 75220

ATTN: Liz Scaggs

Page: Page 1 of 12

Project: Frisco Soil Sampling

Project #:

0105035B

Print Date/Time:

07/30/10 11:40

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

**ERM)** Environmental Laboratories certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

#### Sample Identification

Laboratory ID #	Client Sample ID	<u>Matrix</u>	Sampled Date/Time	Received Date/Time
1007392-01	FSS-HS-003 [Total Fraction]	Solid	03/15/10 09:40	07/14/10 12:34
1007392-02	FSS-HS-003 [Fine Fraction]	Solid	03/15/10 09:40	07/14/10 12:34
1007392-03	FSS-FS-017 [Total Fraction]	Solid	03/15/10 16:50	07/14/10 12:34
1007392-04	FSS-FS-017 [Fine Fraction]	Solid	03/15/10 16:50	07/14/10 12:34
1007392-05	FSS-HS-019 [Total Fraction]	Solid	03/15/10 09:40	07/14/10 12:34
1007392-06	FSS-HS-019 [Fine Fraction]	Solid	03/15/10 09:40	07/14/10 12:34

#### Case Narrative

These samples were originally received on 03/17/10 at 1015 and were immediately placed on hold pending results from the EPA. On 07/14/10 it was requested that these samples be pulled off of hold and analyzed for Total and Fine Lead using special preparation instructions provided to us via email by Liz Scaggs.

TRRP Rpt 5 - v.2.5-071510

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### Report of Sample Analysis

Southwest Geoscience

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ATTN: Liz Scaggs

Page: Page 2 of 12

Project:

Frisco Soil Sampling

Project #:

0105035B

Print Date/Time:

07/30/10 11:40

The analytical data and results contained in this report, as well as their supporting data, conform with Texas Risk Reduction Program (TRRP), 30 TAC, Section 350, requirements and are of sufficient and documented quality to meet both TRRP objectives, TCEQ regulatory guidance No. RG-366/TRRP-13 and the project-based objective of achieving the lowest method detection limit (i.e., the TRRP Critical PCL where reasonably achievable or, if not reasonably achievable, the MQL). All information concerning analytical parameters, methods and protocols that might bear upon or otherwise affect the accuracy of the analytical data in this report have been provided or otherwise disclosed herein. The data were obtained using applicable and appropriate EPA SW-846 or Texas Commission on Environmental Quality approved analytical protocols, methodologies and quality assurance/quality control standards. ERMI Environmental Laboratories certifies that its quality control program is substantially and materially consistent with the International Organization for Standardization "Guide 25: General Requirements the Competence of Calibration and Testing Laboratories (ISO 25 3rd Edition, 1990)," as amended or the quality standards outlined in the National Environmental Laboratory Accreditation Program, as amended. The entire analytical data package for this report, including the supporting quality control data, will be retained and maintained for at least five (5) years (or such longer period of time as may be required by TRRP) from the report date at the offices of ERMI Environmental Laboratories, 400 W. Bethany, Suite 190, Allen, Texas 75013.

I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Sall S. Brown

Kendall K. Brown

President

TRRP Rpt 5 - v.2.5-071510

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## **Report of Sample Analysis**

Southwest Geoscience

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ATTN: Liz Scaggs

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Project:

Frisco Soil Sampling

Project #:

0105035B

Print Date/Time:

07/30/10 11:40

Laboratory ID#: 1007392-01

Sample Type

Composite

<u>Matrix</u> Solid

Sample Collected By Melissa Smith [US EPA]

Customer

Sample Description FSS-HS-003 [Total Fraction]

Local: (972) 727-1123

Sample Date/Time 03/15/10 0940

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
<b>Conventional Chemistry</b>	Parameters, SM 25	540G		- · · · · · · · · · · · · · · · · · · ·						
% Solids	75	0.040	0.2	%	1.00	W3	0G20028	07/20/10 1655	KBM .	S-14
Metals (Total), EPA 3050	В	. *		•						
Acid Digestion of Sludges/Solids	Completed	N/A	N/A	·_	52.63	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010	В									
Cadmium	ND	0.28	0.04	mg/kg dry	5.26	M4	0G20018	07/21/10 1401	SPS	. R-01
Lead	20.8	0.70	0.1	mg/kg dry	5.26	M4	0G20018	07/21/10 1401	SPS	R-01
	20.0	0.70	U. I	mg/kg dry	5.26	WH	0G20018	07/21/10 1401	SPS	K-0

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Customer

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## **Report of Sample Analysis**

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Project:

Frisco Soil Sampling

Project #:

0105035B

Print Date/Time:

07/30/10 11:40

Laboratory ID #:

1007392-02

Sample Type Composite

<u>Matrix</u> Solid

Sample Collected By

Melissa Smith [US EPA]

Sample Description FSS-HS-003 [Fine Fraction]

Local: (972) 727-1123

Sample Date/Time 03/15/10 0940

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Pa	rameters, SM 25	40G		•						
% Solids	96	0.040	0.2	%	1.00	W3	0G20028	07/20/10 1655	KBM	S-14
Metals (Total), EPA 3050B Acid Digestion of Studges/Solids	Completed	N/A	N/A	· -	100.00	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010B					4		•			
Cadmium	ND	0.42	0.04	mg/kg dry	10.00	M4	0G20018	07/21/10 1408	SPS	R-01
Lead	21.5	1.04	0.1	mg/kg dry	10.00	M4	0G20018	07/21/10 1408	SPS	R-01

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Project:

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Project #:

0105035B

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Laboratory ID #:

1007392-03

Sample Type Composite

<u>Matrix</u> Solid

Sample Collected By Melissa Smith [US EPA]

Customer

Sample Description

FSS-FS-017 [Total Fraction]

Local: (972) 727-1123

Sample Date/Time 03/15/10 1650

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anist	Flag
Conventional Chemistry P	arameters, SM 25	540G								
% Solids	67	0.040	0.2	·%	1.00	W3	0G20028	07/20/10 1655	KBM	S-14
Metals (Total), EPA 3050B				**						
Acid Digestion of Studges/Solids	Completed	N/A	N/A	-	52.08	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010B										
Cadmium	ND	0.31	0.04	mg/kg dry	5.21	M4	0G20018	07/21/10 1414	SPS	. R-01
Lead	20.3	0.78	0.1	mg/kg dry	5.21	M4	0G20018	07/21/10 1414	SPS	R-01
•										

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## **Report of Sample Analysis**

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Project #:

0105035B

Print Date/Time:

07/30/10 11:40

Laboratory ID #: 1007392-04

Sample Type Composite

<u>Matrix</u> Solid

Sample Collected By Melissa Smith [US EPA]

Customer

Sample Description FSS-FS-017 [Fine Fraction]

Local: (972) 727-1123

Sample Date/Time 03/15/10 1650

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anist	Flag
Conventional Chemistry Pa	rameters, SM 25	540G								
% Solids	96	0.040	0.2	%	1.00	W3	0G20028	07/20/10 1655	KBM	S-14
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	Completed	N/A	N/A	_	98.04	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010B										-
Cadmium	0.82	0.41	0.04	mg/kg dry	9.80	M4	0G20018	07/21/10 1421	SPS	R-01
Lead	182	1.03	0.1	mg/kg dry	9.80	M4	0G20018	07/21/10 1421	SPS	R-01

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Project:

Frisco Soil Sampling

Project #:

0105035B

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<u>Laboratory ID #:</u> 1007392-05

Sample Type Composite

**Matrix** 

Solid

Sample Collected By Melissa Smith [US EPA]

Customer

Sample Description FSS-HS-019 [Total Fraction]

Sample Date/Time 03/15/10 0940

Analyte(s)	Result	\$DL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anist	Flag
Conventional Chemistry P	arameters, SM 25	40G							•	
% Solids	74	0.040	0.2	% %	1.00	W3	0G20028	07/20/10 1655	КВМ	S-14
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	Completed	N/A	N/A		49.02	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010B			-							
Cadmium	ND	.0.27	0.04	mg/kg dry	4.90	M4	0G20018	07/21/10 1428	SPS	R-01
Lead	22.0	0.66	0.1	mg/kg dry	4.90	M4	0G20018	07/21/10 1428	SPS	R-01

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Louisiana: 02007 Kansas: E-10388 Texas: T104704232-10-1

## **Report of Sample Analysis**

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Project:

Frisco Soil Sampling

Project #:

0105035B

Print Date/Time:

07/30/10 11:40

Laboratory ID #:

1007392-06

Sample Type Composite

**Matrix** Solid

Sample Collected By Melissa Smith [US EPA]

Customer

Sample Description FSS-HS-019 [Fine Fraction]

Local: (972) 727-1123

Sample Date/Time 03/15/10 0940

Analyte(s)	Result	SDL	MQL	Units	. F*.	Inst	Batch	Analysis Date/Time	Anist	Flag
Conventional Chemistry P	arameters, SM 25	540G	•							
% Solids	95	0.040	0.2	%	1.00	W3	0G20028	07/20/10 1655	КВМ	S-14
Metals (Total), EPA 3050B	,	* .	-			4.				
Acid Digestion of Sludges/Solids	Completed	N/A	N/A	<u>-</u>	102.04	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010B							•			
Cadmium	ND	0.43	0.04 .	mg/kg dry	10.20	M4	0G20018	07/21/10 1435	SPS	R-01
Lead	23.4	1.07	0.1	mg/kg dry	10.20	M4	0G20018	07/21/10 1435	SPS	R-01

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## **Report of Sample Analysis**

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#### **Conventional Chemistry Parameters - Quality Control**

•									
Analyte(s)	Result	*SDI	LUnits	Spike Level	Source Result		REC mits RPD	RPD Limít	Flag
Blank (0G20028-BLK1) Prepared & Analyzed: 07/20/10 16:55	5				-				
% Solids	ND	0.040	%						
Duplicate (0G20028-DUP1) Prepared & Analyzed: 07/20/10 16:55	5			So	urce: 10073	89-01			
% Solids	76	0.040	%		75		1	4	
Duplicate (0G20028-DUP2) Prepared & Analyzed: 07/20/10 16:55	5		-	So	urce: 10074	59-01			
% Solids	- 88	0.040	%		90		2	4	
t e e									

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## **Report of Sample Analysis**

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Project:

Frisco Soil Sampling

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		Metals	(Total) - C	uality C	ontrol	,				
Analyte(s)	. L. Result	L *SDI	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (0G20018-BLK1)	10:40				, I					,
Prepared & Analyzed: 07/20/10 Acid Digestion of Sludges/Solids	Completed	N/A	_							
Cadmium	ND	N/A	mg/kg wet						,	
Lead	ND	N/A	mg/kg wet						:	
Laboratory Control Sample (00 Prepared & Analyzed: 07/20/10		-								
Acid Digestion of Studges/Solids	Completed	N/A	-				0-0			
Cadmium	24.1	N/A	mg/kg wet	25.0	•	96	85-115			•
Lead	24.5	N/A	mg/kg wet	25.0		. 98	85-114			
Laboratory Control Sample Du Prepared & Analyzed: 07/20/10		BSD1)								
Acid Digestion of Sludges/Solids	Completed	N/A	- '				0-0		0	-
Cadmium	24.3	N/A	mg/kg wet	25.0		97	85-115	- 1	5	
Lead	24.8	N/A	mg/kg wet	25.0		99	85-114	1	. 5	-
Matrix Spike (0G20018-MS1) Prepared & Analyzed: 07/20/10	12:46			So	urce: 100738	37-01				
Acid Digestion of Sludges/Solids	Completed	N/A-	-		ND .		0-0			
Cadmium	27.9	N/A	mg/kg wet	26.0	ND	107	75-125			
Lead	31.4	N/A	mg/kg wet	26.0	2.65	110	75-125			
Matrix Spike (0G20018-MS2) Prepared & Analyzed: 07/20/10	12:46			So	urce: 100739	92-06	,			
Acid Digestion of Studges/Solids	Completed	N/A	-		ND		0-0			
Cadmium	53.9	N/A	mg/kg dry	52.5	ND	103	75-125		•	٠
Lead	76.5	N/A	mg/kg dry	52.5	23.4	101	75-125			

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## **Report of Sample Analysis**

Southwest Geoscience

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Project:

Frisco Soil Sampling

Project #:

0105035B

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#### Metals (Total) - Quality Control

	·····			Spike	Source		%REC		, RPD	
Analyte(s)	Result	*SDI	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Matrix Spike Duplicate (0G200 Prepared & Analyzed: 07/20/10				Se	ource: 10073	87-01				
Acid Digestion of Sludges/Solids	Completed	N/A	-		ND		0-0		0	
Cadmium	26.7	N/A	mg/kg wet	25.5	ND	105	75-125	4 -	15	
Lead	29.9	N/A	mg/kg wet	25.5	2.65	107	75-125	5	20	
Matrix Spike Duplicate (0G200 Prepared & Analyzed: 07/20/10	12:46	41/4		S	ource: 10073	92-06				•
Acid Digestion of Sludges/Solids	Completed	N/A	- mg/kg dry	<b>50 5</b>	ND	407	0-0	6	0 15	
Cadmium Lead	57.1 86.1	N/A N/A	mg/kg dry	53.5 53.5	ND 23.4	107 117	75-125 75-125	12	20	
					23.7	117	70-120	14.		
Post Spike (0 <b>G20018-PS1)</b> Prepared: 07/20/10 12:46 Anal	yzed: 07/21/10 12:42			S	ource: 10073	87-01				
Cadmium	0.97	N/A	mg/i	1.00	-0.004	97	75-120			
Lead	1.11	N/A	mg/i	1.00	0.05	106	75-125			

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### Report of Sample Analysis

Southwest Geoscience

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Project:

Frisco Soil Sampling

Project #:

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07/30/10 11:40

#### **Notes and Definitions**

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

R-01

The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target

and/or non-target parameters in this sample.

S-14

This analysis was performed outside the recommended holding time. This analysis is used only for dry weight calculation and is representative of the total solids present in the sample at the time the dry weight corrected

analyses were performed.

ND

Analyte NOT DETECTED at or above the reporting limit

dry

Sample results reported on a dry weight basis

LCS/LCSD

Laboratory Control Sample/Laboratory Control Sample Duplicate

MS/MSD

Matrix Spike/Matrix Spike Duplicate

RPD

Relative Percent Difference

mg/kg

milligrams per kilogram

mg/kg

milligrams per liter

mg/l ug/kg

micrograms per kilogram

ug/l

micrograms per liter

exc

Not covered under scope of NELAP accreditation.

---

Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor

when >1.00.

Inst

Instrument Identification

Anlst

**Analyst Initials** 

SDL

Sample Detection Limit Method Quantitation Limit

MQL naa

This analysis/parameter is not accreditable under the current NELAP program

TRRP Rpt 5 - v.2.5-071510

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# **Laboratory Data Package Cover Page**

This da	ata pack	age fo	r Laboratory	Job Number 1007392 con	sists of:				
	V	This	signature pa	ige, the laboratory review c	hecklist, and the	e following report:	able data:		
,	_	R1	Field chair	n-of-custody documentation	n;				
		R2	Sample id	entification cross-reference	);				
	$\overline{Z}$	R3	Test repor	ts (analytical data sheets) f	for each environ	mental sample th	nat includes:		
		•	a) Items	consistent with NELAC 5.1	13 or ISO/IEC 1	7025 Section 5.10	0 .		
	*		•	on factors,					
				ration methods,					•
	-		•	up methods, and	1. :-!	(TICa)			
	_		,	uired for the project, tentativ	vely identified co	ompounds (TICs).			
	$\checkmark$	R4	_	recovery data including:				•	
			*	llated recovery (%R), and aboratory's surrogate QC lir	mite		•		
		D.F.	-	•		•		*	
	\ ✓	R5 R6		ts/summary forms for blank ts/summary forms for labor		umplee (LCSe) inc	eludina:		
	M	RΦ	-	spiking amounts,	atory control sa	imples (LCOS) inc	adding.		
		,		lated %R for each analyte,	and				
			•	aboratory's LCS QC limits.	4114		*		
		∴R7	•	ts for project matrix spike/n	natriv enika dun	licates (MS/MSD	s) including:		
	V	.,187	•	oles associated with the MS			s) alcidding.		•
•				ISD spiking amounts,					
				entration of each MS/MSD	analyte measur	ed in the parent a	and spiked sample	s,	
	-		d) Calcu	lated %Rs and relative per	cent differences	(RPDs), and			
			e) The la	aboratory's MS/MSD QC lin	nits				
	$\checkmark$	R8	Laborator	y analytical duplicate (if app	olicable) recover	y and precision:			
			a) the ar	mount of analyte measured	in the duplicate	÷.	•		
			• •	alculated RPD, and					. •
			c) the la	boratory's QC limits for ana	alytical duplicate	·S.			
	<u> </u>	R9		thod quantitation limits (MQ	Ls) for each an	alyte for each me	thod and matrix;	*	
٠.	区	R10	-	olems or anomalies.				* *	
	$\checkmark$	The E	exception R	eport for every "No" or "Not	Reviewed (NR)	" item in laborato	ry review checklist	t.	•
							*		
review where knowle have i withhe	red by noted edge, a been id ld that w	the lai by th Il prot entified ould a	poratory are laborato plems/anomal by the la ffect the quare	esponsible for the release is complete and technology in the attached exceptalies, observed by the boratory in the Laborator ality of the data.	nically complia eption reports. Iaboratory as	nt with the request By my signate having the pote	uirements of the ure below, I aff ential to affect t	methods us irm to the he quality o	sed, except best of my of the data,
	, if app			This laboratory is an		•	*		
	-	-		ge of the rule-required		•		iese data a	re used is
respon	isibie 101	releas	ang uns cate	a package and is by signatu	ле апплину ше	anove release si	iaiemem is ilue.		
								t a	
Kondo	II K Bro	wn		Generall K. B.	tun pron	ident	07/5	26/10	
	II K. Bro			·					
Name	(Printed	)		Signature	Offic	ial Title (Printed)	Date	<b>5</b>	



## Laboratory Review Checklist: Reportable Data

Labo	rator	y Name: ERMI Environmental Laboratories	LRC Date:	07/26/10					
Proje		F	Laboratory Job Number:	1007392				~	
		Name: Leslie Underwood	Prep Batch Number(s):	0G20018,0G20028	0G2	2017			
#1	A <sup>2</sup>	Description	Trep Bater Humber(s).		<del></del>	No	NA <sup>3</sup>	NR1	ER#
		Chain-of-custody (C-O-C)			103	110		'''\	
1014.150	area nates	Did samples meet the laboratory's standard conditions of sample	accentability upon receipt?		Ιx			i i	Paragraph Control of the Control of
	1	Were all departures from standard conditions described in an ex			X				
W 60	5015	Sample and quality control (QC) identification	oepitoti report;				<u> </u>		
	37.4	Are all field sample ID numbers cross-referenced to the laborato	ou ID numbers?		X	l		I	A 2011 Sept. 2011
		Are all laboratory ID numbers cross-referenced to the correspon	·		X	1		<del>  </del>	
***	SAC:	Test reports	uling QO data?	N. S. B. M. V.	WEEKS AND	1			
	and the second				7912.00	Ιx		I I	E001
		Were all samples prepared and analyzed within holding times?  Other than those results < MQL, were all other raw values brack	atad by aglibration etandarde?		<del> </del>	<del>  ^</del> -	X		
. 1	ŀ		eted by calibration standards?	· · · · · · · · · · · · · · · · · · ·	X				
		Were calculations checked by a peer or supervisor?	<u> </u>	·	×	<del> </del> -	<b> </b>		
		Were all analyte identifications checked by a peer or supervisor			+	<del> </del>	<del> </del>		
	Į	Were sample quantitation limits reported for all analytes not dete		<del></del>	X	1			
		Were all results for soil and sediment samples reported on a dry			X	-	<u> </u>		
		Were % moisture (or solids) reported for all soil and sediment sa	imples?		X		ļ ,.	$\vdash \vdash \mid$	
		If required for the project, TICs reported?	,		L CONTRACTOR NO.	200200000	<u> </u>	l l	Market Care Care Care Care Care Care Care Care
R4	0	Surrogate recovery data						1	Mary Parity
		Were surrogates added prior to extraction?	<u> </u>			<u> </u>	X		
		Were surrogate percent recoveries in all samples within the labor	eratory QC limits?		<u> </u>	<u> </u>	X		
R5	OI	Test reports/summary forms for blank samples							
		Were appropriate type(s) of blanks analyzed?		*	X				
		Were blanks analyzed at the appropriate frequency?			X	<u> </u>			<u> </u>
		Were method blanks taken through the entire analytical process	, including preparation and, if appl	icable,	X			1	
		cleanup procedures?			<u> </u>				
		Were blank concentrations < MQL?			X	2000	200000000000000000000000000000000000000		
R6	SOI 2	Laboratory control samples (LCS):					100		
1		Were all COCs included in the LCS?			X				
t		Was each LCS taken through the entire analytical procedure, in	duding prep and cleanup steps?		X				
		Were LCSs analyzed at the required frequency?	<u> </u>		X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory (	<del></del>		X				
	-	Does the detectability data document the laboratory's capability calculate the SDLs?	to detect the COCs at the MDL us	ed to	×				
		Was the LCSD RPD within QC limits?			X-				
R7	eof	Matrix spike (MS) and matrix spike duplicate (MSD) data			66X.4*	100			
122002	TOTAL PROPERTY.	Were the project/method specified analytes included in the MS	and MSD?	,	X				e of the second
		Were MS/MSD analyzed at the appropriate frequency?			Х				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC	limits?		х	1	İ		
		Were MS/MSD RPDs within laboratory QC limits?	•	•	X	1	l		
SEP ASS	E(1)2	Analytical:duplicate data							
acamer.		Were appropriate analytical duplicates analyzed for each matrix	?		X			İ	are and the second
		Were analytical duplicates analyzed at the appropriate frequence			X	1-	<del>                                     </del>	<del>                                     </del>	***************************************
		Were RPDs or relative standard deviations within the laboratory	·	· · · · · · · · · · · · · · · · · · ·	X	<del> </del>		$\vdash$	
	- C17-	Method quantitation limits (MQLs):	ac mino:				1		
200	100 m	Are the MQLs for each method analyte included in the laborator	v data nackana?		X				
		Do the MQLs correspond to the concentration of the lowest non-	· · · · · · · · · · · · · · · · · · ·		<del>  ^</del>	1	X	$  \cdot  $	<del></del>
			-2010 Cambration Statituary	•	×	1	+^	$\vdash$	
7.55°406°		Are unadjusted MQLs included in the laboratory data package?				l X			
3130		Other problems/anomalies	in LBC and EB2						
		Are all known problems/anomalies/special conditions noted in the		******	X	<del> </del>			
		Were all necessary corrective actions performed for the reporter	······		X	<del> </del>	<del> </del>		
		Was applicable and available technology used to lower the SDL	to minimize the matrix interference	e affects	X				
L	i ema idan	on the sample results?  When by the letter 'R' must be included in the laboratory data package submitted in the TRRP-required to	cont's). Herns identified by the letter "S" should be retain	ned and made available upon reque	st for the	appropria:	<u>t</u>		

<sup>1.</sup> Homs identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s), Home identified by the fetter "S" should be retained and made available upon request for the appropriate measurements.



<sup>2.</sup> O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

<sup>3.</sup> NA = Not applicable;

<sup>4.</sup> NR = Not reviewed

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

#### Laboratory Review Checklist: Reportable Data

aboratory Name:	ERMI Environmental Laboratories	LRC Date:	07/26/10					
roject Name:	Frisco Soil Sampling	Laboratory Job	1007392					
eviewer Name:	Leslie Underwood	Prep Batch Number(s):	0G20018,0G20028	,0G2	2017			
#1 A2 Description	n			Yes	No	NA'	NR	ER#
i1 Ol Initial calib	ation (ICAL)		200 E					
Were resp	onse factors and/or relative response factors for each	analyte within QC limits?		Х				
Were perc	ent RSDs or correlation coefficient criteria met?					X		
Was the n	umber of standards recommended in the method used	d for all analytes?		X				
Were all p	pints generated between the lowest and highest stand	dard used to calculate the curve?				Х		
Are ICAL of	lata available for all instruments used?			X				
Has the in	tial calibration curve been verified using an appropria	te second source standard?		Х				
2 Ol. Initial and c	ontinuing calibration verification (ICCV and CCV) a	nd continuing calibration						
Was the C	CV analyzed at the method-required frequency?			Х				
Were perc	ent differences for each analyte within the method-red	quired QC limits?		Х				
Was the IC	CAL curve verified for each analyte?			X				
Was the a	osolute value of the analyte concentration in the inorg	anic CCB < MDL?		Х				
3 O Mass spect	ral tuning:		de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la				e V	
Was the a	ppropriate compound for the method used for tuning?					Х	,	
Were ion a	bundance data within the method-required QC limits	?				Х		
4 O Internal sta	ndards (IS):					1 E		
Were IS a	ea counts and retention times within the method-requ	aired QC limits?				X		
6 Ol Raw data (I	ELAC section 1 appendix A glossary, and section	5.12 or ISO/IEC 17025 section						
Were the	aw data (for example, chromatograms, spectral data)	reviewed by an analyst?	-	Х				
Were data	associated with manual integrations flagged on the ra	aw data?		X				
6 O Dual colum	n confirmation = 1		42.4					
Did dual c	olumn confirmation results meet the method-required	QC?				X		
7 O Tentatively	Identified compounds (TICs):							
If TICs we	re requested, were the mass spectra and TIC data su	bject to appropriate checks?				X		
8 I Interferenc	Check Sample (IGS) results:							10 N 3
Were perc	ent recoveries within method QC limits?			Х				
9 = I Serial dilut	ons post digestion spikes, and method of standar	dadditions						
Were perc	ent differences, recoveries, and the linearity within the	e QC limits specified in the metho	i?	Х				
0 Ol Method det	ection limit (MDL) studies							
Was a MD	L study performed for each reported analyte?			Х				•
Is the MDI	either adjusted or supported by the analysis of DCS:	s?		Х				
11 Ol Proficiency	teacreports:			學學				
Was the la	boratory's performance acceptable on the applicable	proficiency tests or evaluation stu	dies?	Х				
12 Ol Standards	locumentation.						1/20/52	
Are all sta	ndards used in the analyses NIST-traceable or obtain	ed from other appropriate sources	?	X				
(3 Ol Compound	analyte identification procedures							
Are the pro	ocedures for compound/analyte identification docume	nted?		Х				
n4 ±9015 Demonstra	ion of analyst competency (DOC)				i i			
Was DOC	conducted consistent with NELAC Chapter 5C or ISC	D/IEC 4?		Х				
Is docume	ntation of the analyst's competency up-to-date and or	n file?		Х				
	A aligation documentation for methods (NELAC on							
Are all the	methods used to generate the data documented, ver	ified, and validated, where applica	ble?	×				
16 Of Laboratory	standard operating procedures (SOPs):					O P		
	tory SOPs current and on file for each method perform	16		X				

I. Items identified by the letter "R" must be included in the laboratory data package submitted 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.

<sup>2.</sup> O = organic analyses; 1 = inorganic analyses (and general chemistry, when applicable);

<sup>3.</sup> NA = Not applicable;

<sup>4.</sup> NR = Not reviewed;

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked)

#### **Laboratory Review Checklist: Exception Reports**

Laborato	ry Name:	ERMI Environmental Laboratories	LRC Date:	07/26/10	
Project N	lame:	Frisco Soil Sampling	Laboratory Job	1007392	
Reviewer	Name:	Leslie Underwood	Prep Batch Number(s):	0G20018,0G20028,0G22017	
ER#1.	Descriptio	П	•		
E001	-This analy	07392-01 failed hold criteria for Dry Weight 25400 sis was performed outside the recommended hol tive of the total solids present in the sample at the	ding time. This analysis is used only	·	
	-This analy	07392-02 failed hold criteria for Dry Weight 2540 sis was performed outside the recommended hol tive of the total solids present in the sample at the	ding time. This analysis is used only	·	•
	-This analy	07392-03 failed hold criteria for Dry Weight 2540 sis was performed outside the recommended hol tive of the total solids present in the sample at the	ding time. This analysis is used only		
	-This analy	07392-04 failed hold criteria for Dry Weight 2540 sis was performed outside the recommended hol tive of the total solids present in the sample at the	ding time. This analysis is used only	· • • • · · · · · · · · · · · · · · · ·	
•	-This analy	07392-05 failed hold criteria for Dry Weight 2540 sis was performed outside the recommended hol tive of the total solids present in the sample at the	ding time. This analysis is used only	· · · · -	
	-This analy	07392-06 failed hold criteria for Dry Weight 2540 sis was performed outside the recommended hol tive of the total solids present in the sample at the	ding time. This analysis is used only		

<sup>1.</sup> ER# = Exception Report Identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

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7. <b>√</b> ."	nvironmen	GEOSCIENCE ronmental & Hydrogeologic Consultant	<b>&gt;</b> 川 八	G E O S C I E N C E Environmental & Hydrogeologic Consultants	Laboratory:Address:		1 2					माड पर	Dir.				Temp. of coolers	
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₹ S		WW - Wastewater VOA - 40 ml vial	ater al	W - Water A/G - Ambe	ss t	1	Liquid 0 ml - G	L - Liquid A - Air Bag 250 ml - Glass wide mouth	r Bag mouth	ပ်ရှိ	C - Charcoal tube P/O - Plastic or other		St sludge	0 · O				

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Ğ.	Project Manager	ger Liz	.1	Scagos	#	51050358	358		25				
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<b>H</b>	)	WW - Wastewater VOA - 40 ml vial		W - Water S A/G - Amber / Or	SS 1 LS		_g		C - Charcoal tube P/O - Plastic or other	SL - sludge	#O - O		

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Lab Number(s):	1007392
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## **ERMI**

## Sample Preservation Documentation\*

On Ice (Circle One): YES OR NO (check if on Dry Ice\_\_\_\_\_)

	-				
Parameters	Conta #	ainers Size	Required Preservation	Sample Container	Circle pH Note any discrepancy
Metals			pH < 2	Glass or Plastic	pH < 2
Dissolved Metals			Unpreserved prior to being filtered, Cool**	Glass or Plastic	
Hexavalent Chromium			CWA - pH 9.3-9.7, Cool; RCRA - Cool	Glass or Plastic	Olige Karla Azarbai Valesi. Alas Regular da alas Regular
Semivolatiles, Pesticides, PCBs, Herbicides			Cool	Glass only with Teflon lid	Chlorine ⊡yes □no
VOA (BTEX, MTBE, 624, 8260, TPH-GRO)			Cool, pH < 2 Zero Head Space	40 ml VOA vial	on positive services.
VOA (TPH-1005)			Cool, Zero Head Space Please check if collected in pre-weighed vials	40 ml VOA vial	BIGNOR OPENSION
Phos., NO <sub>3</sub> /NO <sub>2</sub> , NH <sub>3</sub> N, COD, TKN,TOC			Cool, pH < 2	Glass or Plastic	pH < 2
TDS, BOD, CBOD, Cond, pH, TSS, F, SO <sub>4</sub> , CI, Alk, Sulfite			Cool	Glass or Plastic, Plastic only if F	
Phenois, TPH-DRO			Cool, pH < 2	Glass only Teflon lid Foil lid	pH < 2
Oil & Grease, TPH (by 1664a)	-		Cool, pH < 2	Glass only Teflon lid Foil lid	iniony (eni ciacalen) Es
Cyanide			Cool, pH >12	Glass or Plastic	pH > 12 Chlorine □yes □no Sulfide □yes □no □na
Sulfide			Cool, pH > 9	Glass or Plastic	pH > 9
Bacteria			Cool	Plastic Sterile Cup	
Soil, Sludge, Solid, Oil, Liquid	44	400	Cool Note: please check if collected in pre-weighed vials	Slav	

Oil, Liquid		collected in p	ore-weighed			a following Vijetoriaanse
Metals Preserved COMMENTS:	d By Login	□yes □no	Trip B	lanks Received	□yes ⊠no	
			uld at this			
*This form is used to docu (adjust if needed) and note	if different from w	hat is required and				
containers or preservation of **Cool means cooled to ≤6*				· -		



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Arkansas: 88-0647

Oklahoma: 8727

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Louisiana: 02007 Kansas: E-10388 Texas: T104704232-10-1

#### Report of Sample Analysis

Southwest Geoscience

2351 W. Northwest Hwy, Suite 3321

Dallas, TX 75220

ATTN: Liz Scaggs

Page: Page 1 of 10

Project: Frisco Soil Sampling

Project #: 0105035B

Print Date/Time: 07/30/10 11:18

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

**ERMI** Environmental Laboratories certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

#### Sample Identification

Laboratory ID #	Client Sample ID		<u>Ma</u>	trix Sampled Date/Time	Received Date/Time
1007389-01	FSS-SC-031 [Total Fraction]		So	ilid 03/16/10 14:37	07/14/10 12:34
1007389-02	FSS-SC-031 [Fine Fraction]		So	lid 03/16/10 14:37	07/14/10 12:34
1007389-03	FSS-BG-038 [Total Fraction]		So	lid 03/16/10 16:35	07/14/10 12:34
1007389-04	FSS-BG-038 [Fine Fraction]		So	lid 03/16/10 16:35	07/14/10 12:34

#### **Case Narrative**

These samples were originally received on 03/17/10 at 1015 and were immediately placed on hold pending results from the EPA. On 07/14/10 it was requested that these samples be pulled off of hold and analyzed for Total and Fine Lead using special preparation instructions provided to us via email by Liz Scaggs.

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## Report of Sample Analysis

Southwest Geoscience

2351 W. Northwest Hwy, Suite 3321

Dallas, TX 75220

ATTN: Liz Scaggs

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Project:

Frisco Soil Sampling

Project #:

0105035B

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The analytical data and results contained in this report, as well as their supporting data, conform with Texas Risk Reduction Program (TRRP), 30 TAC, Section 350, requirements and are of sufficient and documented quality to meet both TRRP objectives, TCEQ regulatory guidance No. RG-366/TRRP-13 and the project-based objective of achieving the lowest method detection limit (i.e., the TRRP Critical PCL where reasonably achievable or, if not reasonably achievable, the MQL). All information concerning analytical parameters, methods and protocols that might bear upon or otherwise affect the accuracy of the analytical data in this report have been provided or otherwise disclosed herein. The data were obtained using applicable and appropriate EPA SW-846 or Texas Commission on Environmental Quality approved analytical protocols, methodologies and quality assurance/quality control standards. **ERMI Environmental Laboratories** certifies that its quality control program is substantially and materially consistent with the International Organization for Standardization "Guide 25: General Requirements the Competence of Calibration and Testing Laboratories (ISO 25 3rd Edition, 1990)," as amended or the quality standards outlined in the National Environmental Laboratory Accreditation Program, as amended. The entire analytical data package for this report, including the supporting quality control data, will be retained and maintained for at least five (5) years (or such longer period of time as may be required by TRRP) from the report date at the offices of **ERMI Environmental Laboratories**, **400 W. Bethany, Suite 190, Allen, Texas 75013.** 

I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

endall X. Birun

Kendall K. Brown

President

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## Report of Sample Analysis

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Project:

Frisco Soil Sampling

Project #:

0105035B

Print Date/Time:

07/30/10 11:18

Laboratory ID #:

1007389-01

Sample Type Composite

<u>Matrix</u>

Solid

Sample Collected By Melissa Smith [US EPA]

Customer

Sample Description FSS-SC-031 [Total Fraction]

Local: (972) 727-1123

Sample Date/Time 03/16/10 1437

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anist	Flag
Conventional Chemistry Par	rameters, SM 2	2540G		•		-			•	
% Solids	75	0.040	0.2	%	, 1.00	W3	0G20028	07/20/10 1655	KBM	S-14
Metals (Total), EPA 3050B Acid Digestion of Sludges/Solids	Completed	N/A	. N/A	`	52.63	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010B	•							• .		
Cadmium	ND	0.28	0.04	mg/kg dry	5.26	M4	0G20018	07/21/10 1333	SPS	R-01
Lead	31.0	0.70	0.1	mg/kg dry	5.26	M4	0G20018	07/21/10 1333	SPS	R-01



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## **Report of Sample Analysis**

Southwest Geoscience

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Project:

Frisco Soil Sampling

Project #:

0105035B

Print Date/Time:

07/30/10 11:18

Laboratory ID #:

1007389-02

Sample Type Composite

**Matrix** Solid

Sample Collected By Melissa Smith [US EPA]

Customer

Sample Description FSS-SC-031 [Fine Fraction]

Local: (972) 727-1123

Sample Date/Time 03/16/10 1437

Result	SDL	MQL	Units	, F*	Inst	Batch	Analysis Date/Time	Anist	Flag
ameters, SM 25	40G					•	. "		
94	0.040	0.2	%	1.00	W3	0G20028	07/20/10 1655	KBM	S-14
			·		•			٠	
Completed	N/A	N/A	-	100.00	DB2	0G20018	07/20/10 1246	SPS	
·					÷				
ND	0.43	0.04	mg/kg dry	10.00	M4	0G20018	07/21/10 1340	SPS	R-01
55.2	1.06	0.1	mg/kg dry	10.00	M4	0G20018	07/21/10 1340	SPS	R-01
	ameters, SM 25 94 Completed ND	ameters, SM 2540G 94 0.040  Completed N/A  ND 0.43	ameters, SM 2540G 94 0.040 0.2  Completed N/A N/A ND 0.43 0.04	ameters, SM 2540G 94 0.040 0.2 %  Completed N/A N/A  ND 0.43 0.04 mg/kg dry	ameters, SM 2540G 94 0.040 0.2 % 1.00  Completed N/A N/A 100.00  ND 0.43 0.04 mg/kg dry 10.00	ameters, SM 2540G 94 0.040 0.2 % 1.00 W3  Completed N/A N/A 100.00 DB2  ND 0.43 0.04 mg/kg dry 10.00 M4	ameters, SM 2540G 94 0.040 0.2 % 1.00 W3 0G20028  Completed N/A N/A 100.00 DB2 0G20018  ND 0.43 0.04 mg/kg dry 10.00 M4 0G20018	ameters, SM 2540G 94 0.040 0.2 % 1.00 W3 0G20028 07/20/10 1655  Completed N/A N/A - 100.00 DB2 0G20018 07/20/10 1246  ND 0.43 0.04 mg/kg dry 10.00 M4 0G20018 07/21/10 1340	### ameters, SM 2540G  94

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## **Report of Sample Analysis**

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Laboratory ID #:

1007389-03

Sample Type Composite

<u>Matrix</u> Solid

Sample Collected By Melissa Smith [US EPA]

Customer

<u>Sample Description</u> FSS-BG-038 [Total Fraction]

Local: (972) 727-1123

Sample Date/Time 03/16/10 1635

Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anist	Flag
aramėters, SM 25	40G		•					•	
85	0.040	0.2	%	1.00	<b>W3</b> <sup>2</sup>	0G20028	07/20/10 1655	KBM	S-14
÷									
Completed	N/A	N/A		51.02	DB2	0G20018	07/20/10 1246	SPS	
0.81	0.24	0.04	mg/kg dry	5.10	M4	0G20018	07/21/10 1347	SPS	R-01
135	0.60	0.1	mg/kg dry	5.10	M4 -	0G20018	07/21/10 1347	SPS	R-01
	85 Completed	85 0.040  Completed N/A  0.81 0.24	Representation 2540G 85 0.040 0.2  Completed N/A N/A  0.81 0.24 0.04	### Representation of the image	### Representation of the image	### Representation of the image	arameters, SM 2540G           85         0.040         0.2         %         1.00         W3         0G20028           Completed         N/A         N/A         -         51.02         DB2         0G20018           0.81         0.24         0.04         mg/kg dry         5.10         M4         0G20018	Result         SDL         MQL         Units         F*         Inst         Batch         Date/Time           arameters, SM 2540G           85         0.040         0.2         %         1.00         W3         0G20028         07/20/10 1655           Completed         N/A         N/A         -         51.02         DB2         0G20018         07/20/10 1246           0.81         0.24         0.04         mg/kg dry         5.10         M4         0G20018         07/21/10 1347	Result         SDL         MQL         Units         F*         Inst         Batch         Date/Time         Anist           arameters, SM 2540G           85         0.040         0.2         %         1.00         W3         0G20028         07/20/10 1655         KBM           Completed         N/A         N/A         -         51.02         DB2         0G20018         07/20/10 1246         SPS           0.81         0.24         0.04         mg/kg dry         5.10         M4         0G20018         07/21/10 1347         SPS

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Customer

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Texas: T104704232-10-1

## **Report of Sample Analysis**

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Project:

Frisco Soil Sampling

Project #:

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<u>Laboratory ID #:</u> 1007389-04

Sample Type Composite

Matrix

Solid

Sample Collected By Melissa Smith [US EPA]

Sample Description FSS-BG-038 [Fine Fraction]

Locai: (972) 727-1123

Sample Date/Time 03/16/10 1635

Anaiyte(s)	Result	l spl l	MQL	l Units l	F* .	Inst	Batch	Analysis Date/Time	Anist	Flag
Conventional Chemistry F		2540G								
% Solids	96	0.040	0.2	%	1.00	W3	0G20028	07/20/10 1655	KBM	S-14
Metals (Total), EPA 3050B Acid Digestion of Sludges/Solids	Completed	N/A	N/A	<b>.</b>	100.00	DB2	0G20018	07/20/10 1246	SPS	
Metals (Total), EPA 6010B	<b>.</b>			•						•
Cadmium	ND	0.42	0.04	mg/kg dry	10.00	M4	0G20018	07/21/10 1354	SPS	R-01
Lead	16.4	1.05	0.1	mg/kg dry	10.00	M4	0G20018	07/21/10 1354	SPS	R-01

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## **Report of Sample Analysis**

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Project: Frisco Soil Sampling

Project #:

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#### **Conventional Chemistry Parameters - Quality Control**

Result	l *soi	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
ND	0.040	%			•				
			So	urce: 10073	89-01				
76	0.040	%		75			• 1	` 4	
			So	urce: 10074	59-01				
88	0.040	%		90			2	4	
	ND 76	ND 0.040 76 0.040	ND 0.040 % 76 0.040 %	ND   Linits   Level	ND         0.040         %           ND         0.040         %           Source: 10073         76         0.040         %         75           Source: 10074         Source: 10074         Source: 10074	ND         0.040         %           Source: 1007389-01         76         0.040         %         75           Source: 1007459-01         Source: 1007459-01         Source: 1007459-01	ND   1   1   1   1   1   1   1   1   1	Result         *SDI         Units         Level         Result         %REC         Limits         RPD           ND         0.040         %         Source: 1007389-01         1           76         0.040         %         75         1           Source: 1007459-01	ND         0.040         %         Source: 1007389-01         T         Accessory         Accessory

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## **Report of Sample Analysis**

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Frisco Soil Sampling

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#### Metals (Total) - Quality Control

			<u> </u>							
				Spike	Source	larana	%REC	<b>D</b> DD	RPD	
Analyte(s)	Result	*SDI	Units	Level	Result	%REC	Limits	RPD:	Limit	Flag
Blank (0G20018-BLK1)									-	
Prepared & Analyzed: 07/20/10	12:46									
Acid Digestion of Sludges/Solids	Completed	N/A	-		•					
Cadmium	ND	, N/A	mg/kg wet							
Lead	ND	N/A	mg/kg wet							
Laboratory Control Sample (00 Prepared & Analyzed: 07/20/10					•					
Acid Digestion of Sludges/Solids	Completed	N/A	-				0-0			
Cadmium	24.1	N/A	mg/kg wet	25.0		96	85-115			***
Lead	24.5	N/A	mg/kg wet	25.0		98	85-114			
Laboratory Control Sample Du Prepared & Analyzed: 07/20/10		01)								
Acid Digestion of Słudges/Solids	Completed	N/A	٠ ـ				0-0		0	
Cadmium	24:3	N/A	mg/kg wet	25.0		97	85-115	1	5	
Lead	24.8	N/A	mg/kg wet	25.0		99	85-114	1	5	
Matrix Spike (0G20018-MS1) Prepared & Analyzed: 07/20/10	12:46			Sc	ource: 10073	87-01				
Acid Digestion of Sludges/Solids	Completed	N/A	-		ND		0-0			
Cadmium	27.9	N/A	mg/kg wet	26.0	ND	107	75-125	•		
Lead	31.4	· N/A	mg/kg wet	26.0	2.65	110	75-125			
Matrix Spike (0G20018-MS2) Prepared & Analyzed: 07/20/10	12:46			Sc	ource: 10073	92-06	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-
Acid Digestion of Studges/Solids	Completed	N/A	- '		ND		0-0			
Cadmium	53.9	N/A	mg/kg dry	52.5	ND	103	75-125			
Lead	76.5	N/A	mg/kg dry	52.5	23.4	101	75-125			

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## Report of Sample Analysis

Southwest Geoscience

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Project: Frisco Soil Sampling

Project #:

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#### Metals (Total) - Quality Control

Analyte(s)	Result	L *SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (0G200 Prepared & Analyzed: 07/20/10				Sc	ource: 10073	37-01				
Acid Digestion of Sludges/Solids	Completed	N/A	-		ND		0-0		0	
Cadmium	26.7	N/A	mg/kg wet	25.5	ND	105	75-125	4	15	
Lead	29.9	N/A	mg/kg wet	25.5	2.65	107	75-125	5	20	
Matrix Spike Duplicate (0G200 Prepared & Analyzed: 07/20/10 Acid Digestion of Sludges/Sollds		N/A	· <u>-</u>	Sc	ource: 10073: ND	92-06	0-0		O	
Cadmium	57.1	N/A	mg/kg dry	53.5	ND	107	75-125	6	15	
Lead	86.1	N/A	mg/kg dry	53.5	23.4	117	75-125	12	20	100
Post Spike (0G20018-PS1) Prepared: 07/20/10 12:46 Analy	/zed: 07/21/10 12:42			Sc	ource: 10073	37-01				,
Cadmium	0.97	N/A	mg/l	1.00	-0.004	-97	75-120		÷	
Lead	1.11	N/A	mg/l	1.00	0.05	106	75-125			

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## Report of Sample Analysis

Southwest Geoscience

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Project:

Frisco Soil Sampling

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#### **Notes and Definitions**

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

R-01 The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target

and/or non-target parameters in this sample.

S-14 This analysis was performed outside the recommended holding time. This analysis is used only for dry weight

calculation and is representative of the total solids present in the sample at the time the dry weight corrected

analyses were performed.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

LCS/LCSD Laboratory Control Sample/Laboratory Control Sample Duplicate

MS/MSD Matrix Spike/Matrix Spike Duplicate

RPD Relative Percent Difference

mg/kg milligrams per kilogram

mg/l milligrams per liter

ug/kg micrograms per kilogram
ug/l micrograms per liter

exc Not covered under scope of NELAP accreditation.

F\* Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor

when >1.00.

Inst Instrument Identification

Anist Analyst Initials

SDL Sample Detection Limit

MQL Method Quantitation Limit

naa This analysis/parameter is not accreditable under the current NELAP program

TRRP Rpt 5 - v.2.5-071510

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# **Laboratory Data Package Cover Page**

This data pack	age for	Laboratory	Job Number 100738	39 consists of:	•		
	This s	ignature pag	ge, the laboratory re	view checklist, a	nd the following reports	able data:	
	R1	Field chain	-of-custody docume	ntation;			
N N	R2 R3	Test report  a) Items ( b) dilution  c) prepar  d) cleanu	consistent with NEL n factors, ration methods, up methods, and	eets) for each e AC 5.13 or ISO/I	nvironmental sample th IEC 17025 Section 5.10	)	
Ø	R4	a) Calcul	recovery data includ ated recovery (%R), boratory's surrogate	and			
	R5 R6	Test report  a) LCS s  b) Calcul	s/summary forms fo s/summary forms fo piking amounts, ated %R for each an boratory's LCS QC	r laboratory cont nalyte, and	irol samples (LCSs) inc	luding:	
	R7	a) Sampl b) MS/MS c) Conce d) Calcul	les associated with t SD spiking amounts	he MS/MSD clea , /MSD analyte m ve percent differ	easured in the parent a		
	R8	a) the and	analytical duplicate nount of analyte mea lculated RPD, and poratory's QC limits	asured in the dup			
	R9 R10		hod quantitation limi lems or anomalies.	ts (MQLs) for ea	ch analyte for each me	thod and matrix;	
$\square$	The E	xception Re	port for every "No" o	or "Not Reviewed	d (NR)" item in laborato	ry review checklist.	- - -
reviewed by where noted knowledge, a have been id- withheld that w	the lab by the II prob entified ould af	ooratory and e laborator lems/anom l by the lab fect the qua	d is complete and ry in the attached alies, observed by poratory in the Lat lity of the data	technically co lexception rep the laborator poratory Review	is laboratory data p impliant with the requ ports. By my signati y as having the pote of Checklist, and no in	uirements of the nure below, I affirnential to affect the offormation or data	nethods used, except in to the best of my in quality of the data have been knowingly
	g the	cover pag	e of the rule-req	uired report (f	laboratory controlled or example, the AP ng the above release st	AR) in which the	
Kendall K. Bro			Generall X.	Berun	President	07/26	110
Name (Printed		<del>,</del>	Signature		Official Title (Printed)	Date	
			•				×



#### Laboratory Review Checklist: Reportable Data

Labora	aton	y Name: ERMI Environmental Laboratories	LRC Date:	07/26/10						
Projec	ct Na	me: Frisco Soil Sampling	Laboratory Job Number:	1007389						
		Name: Leslie Underwood	Prep Batch Number(s):	0G20018,0G20028	,0G2	2017				
#"	A <sup>2</sup>	Description		<del></del>	i –	No	NA <sup>3</sup>	NR'	ER#	
R12 -		Chain-of-custody (C-O-C)								
		Did samples meet the laboratory's standard conditions of sample	acceptability upon receipt?		Х					
	- 1	Were all departures from standard conditions described in an ex-	ception report?		X					
R2	R2 Ol Sample and quality control (QC) identification									
A CONTRACTOR OF THE PARTY OF TH		Are all field sample ID numbers cross-referenced to the laborator		X				The second second		
-	Ì	Are all laboratory ID numbers cross-referenced to the correspond		х						
R3	OL	Test reports			38.8					
		Were all samples prepared and analyzed within holding times?		ing dag talayan gerda ing di faranda da baran galan baran da baran da baran da baran da baran da baran da baran		Х			E001	
	1	Other than those results < MQL, were all other raw values brack	eted by calibration standards?		Х					
	Ī	Were calculations checked by a peer or supervisor?			X					
	ı	Were all analyte identifications checked by a peer or supervisor?	+	1447-114	X.			h		
	ı	Were sample quantitation limits reported for all analytes not dete		r.	х					
	Ī	Were all results for soil and sediment samples reported on a dry			х					
	F	Were % moisture (or solids) reported for all soil and sediment samples?						$\Box$		
- 1	.	If required for the project, TICs reported?		•	X		x	$\vdash$	-	
RA		Surrogate recovery data				1000				
*****		Were surrogates added prior to extraction?			700		X			
	ŀ	Were surrogate percent recoveries in all samples within the labor	ratory OC limits?				X			
apra a	me.	Test reports/summary forms for blank samples			OFFICE OF STREET	A SA SA	CONTRACTOR OF			
	A CONTRACTOR	Were appropriate type(s) of blanks analyzed?			X	7000	toret a		Market Comp. No. of S.	
		Were blanks analyzed at the appropriate frequency?	•	<del> </del>	X			┢┈┼		
	F		including proporation and if anali	inabla	X				·	
		Were method blanks taken through the entire analytical process, cleanup procedures?	including preparation and, if appli	icapie,	^					
	-	Were blank concentrations < MQL?		•	х					
R6 -	<b>O</b>	Laboratory control samples (LCS)							545 B	
		Were all COCs included in the LCS?			X					
		Was each LCS taken through the entire analytical procedure, inc	luding prep and cleanup steps?		Х					
		Were LCSs analyzed at the required frequency?			Х		-			
		Were LCS (and LCSD, if applicable) %Rs within the laboratory C	QC limits?		Х					
		Does the detectability data document the laboratory's capability t	o detect the COCs at the MDL us	ed to	Х					
-	į	calculate the SDLs?	•		ļ.,	<u> </u>		$\sqcup$		
		Was the LCSD RPD within QC limits?			×					
R7	Ol	Matrix spike (MS) and matrix spike duplicate (MSD) data						,		
	ļ	Were the project/method specified analytes included in the MS a	nd MSD?		×					
1		Were MS/MSD analyzed at the appropriate frequency?		· · · · · · · · · · · · · · · · · · ·	×				<del></del>	
	1	Were MS (and MSD, if applicable) %Rs within the laboratory QC	limits?		Х	<u> </u>		$\sqcup \bot$		
		Were MS/MSD RPDs within laboratory QC limits?			Х					
R8	Ol	Analytical duplicate data								
1		Were appropriate analytical duplicates analyzed for each matrix?	·		Х	<u> </u>				
-	į	Were analytical duplicates analyzed at the appropriate frequency	<del> </del>		X				-	
,		Were RPDs or relative standard deviations within the laboratory	QC limits?		X		<u> </u>			
R9	OIE	Methodiquantitation limits (MQLS)								
		Are the MQLs for each method analyte included in the laboratory	data package?		Х					
		Do the MQLs correspond to the concentration of the lowest non-	zero calibration standard?				Х			
	[	Are unadjusted MQLs included in the laboratory data package?			X					
R10	Ola	Other problems anomalies								
		Are all known problems/anomalies/special conditions noted in thi	s LRC and ER?		X.					
	l	Were all necessary corrective actions performed for the reported	data?		X					
1		Was applicable and available technology used to lower the SDL	to minimize the matrix interference	e affects	Х					
- 1										



<sup>1.</sup> Hams identified by the retention period.
2. O = organic snalyser
3. NA = Not applicable;
4. NR = Not raviewed;

#### Laboratory Review Checklist: Reportable Data

1 aha	rata-		LRC Date:	07/26/10				***	
		/ Name: ERM) Environmental Laboratories me: Frisco Soil Sampling	<del> </del>	1007389					
Proje		Loglio Underwood	Laboratory Job						
		vaine:	Prep Batch Number(s):	0G20018,0G20028,				7.2.41	
#'	A <sup>2</sup>	Description			Yes	No	NA <sup>3</sup>	NR'	ER#
S1	Ol	nitial calibration (ICAL)				T T			
		Were response factors and/or relative response factors for each	h analyte within QC limits?		X				
		Were percent RSDs or correlation coefficient criteria met?	·				Χ		
		Was the number of standards recommended in the method us	•		Х		<u> </u>		
		Were all points generated between the lowest and highest star			X				
		Are ICAL data available for all instruments used?	Х						
		Has the initial calibration curve been verified using an appropri			X	// AT AT A S A S A S A S A S A S A S A S A	VILLE TO PERSON	N/PPOOLENCE	
S2 /	Ol	nitial and continuing calibration verification (ICCV and CCV)	and continuing calibration						
		Was the CCV analyzed at the method-required frequency?	A. Laker	m	Х	<u> </u>			
		Were percent differences for each analyte within the method-re	equired QC limits?		Х				
		Was the ICAL curve verified for each analyte?			Х	<u> </u>			
		Was the absolute value of the analyte concentration in the inor	ganic CCB < MDL?		Х	<u> </u>		<u> </u>	
<b>S</b> 3	.O.	Mass spectral (uning							
		Was the appropriate compound for the method used for tuning	?			<u> </u>	X		
		Were ion abundance data within the method-required QC limits	3?	•		<u> </u>	Х		
S41	O	nternal standards (IS):	Recognition and the second						
		Were IS area counts and retention times within the method-rec	· · · · · · · · · · · · · · · · · · ·				Х		
<b>S</b> 5	Ols	Raw data (NEL'AC section 1 appendix A glossary, and section	A property and a series of the						學過數學
		Were the raw data (for example, chromatograms, spectral data			Х				
		Were data associated with manual integrations flagged on the	raw data?		X				
S6	<b>O ?</b>	Qual column confirmation						0.5	
		Did dual column confirmation results meet the method-required	I QC?		<u> </u>		×		
S7∦	O	entatively, identified compounds (TICS)			10				
		If TICs were requested, were the mass spectra and TIC data s	ubject to appropriate checks?				Х		
¥\$8	劉禄	nterference/Check/Sample/(ICS) results:	and the second second	4.0			(i) (i)		
		Were percent recoveries within method QC limits?			X				
S9	20	serial dilutions, post digestion spikes, and method of standa	rd additions						
		Were percent differences, recoveries, and the linearity within the	ne QC limits specified in the method	1?	X				
S10	-OI	Method detections in its (MDL) studies							
		Was a MDL study performed for each reported analyte?			Х			$oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$	
		Is the MDL either adjusted or supported by the analysis of DCS	Ss?		Х				
S11	OJE	Proficiency:test reports:						100	
		Was the laboratory's performance acceptable on the applicable	proficiency tests or evaluation stu	dies?	Х			$oxed{oxed}$	
\$12	#OIF	standards documentation				1500		TO THE	
		Are all standards used in the analyses NIST-traceable or obtai	ned from other appropriate sources	?	Х			<u> </u>	
S13	OIE	compound/analyte identification procedures							
		Are the procedures for compound/analyte identification docum	ented?		Х				
\$14.	OI	Demonstration of analyst competency (DOC)							
		Was DOC conducted consistent with NELAC Chapter 5C or IS	O/IEC 4?		Х	<u>L</u>	ļ		
		Is documentation of the analyst's competency up-to-date and of			Х				
\$15	(Ol	Verification/validation.gocumentation:for-methods_(NELAC.C	hap 5 of ISO/IEC 17025 Section 5)						
		Are all the methods used to generate the data documented, ve	rified, and validated, where applica	ble?	Х				
S16	Ol	aboratory standard operating procedures (SORs)							
		Are laboratory SOPs current and on file for each method performance	rmed?		Х				
		stiffed by the latter "D" must be included in the laboratory data analyses submitted in							

<sup>1.</sup> Items identified by the letter "R" must be included in the laboratory data package submitted 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.



<sup>2.</sup> O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

<sup>3.</sup> NA = Not applicable;

<sup>4.</sup> NR = Not reviewed

<sup>5.</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

## **Laboratory Review Checklist: Exception Reports**

Laborator	ry Name:	ERMI Environmental Laboratories	LRC Date:	07/26/10
Project N	ame:	Frisco Soil Sampling	Laboratory Job	1007389
Reviewer	Name:	Leslie Underwood	Prep Batch Number(s):	0G20018,0G20028,0G22017
ER# 1	Descriptio	n		
E001	-This analy representa Sample 10 -This analy	07389-01 failed hold criteria for Dry Weight 25400 sis was performed outside the recommended hold tive of the total solids present in the sample at the 07389-02 failed hold criteria for Dry Weight 25400 sis was performed outside the recommended hold tive of the total solids present in the sample at the	ding time. This analysis is used only time the dry weight corrected analy 3. ding time. This analysis is used only	ses were performed.  y for dry weight calculation and is
	-This analy	07389-03 failed hold criteria for Dry Weight 25400 sis was performed outside the recommended hold tive of the total solids present in the sample at the	ding time. This analysis is used only	
	-This analy	07389-04 failed hold criteria for Dry Weight 25400 sis was performed outside the recommended hold tive of the total solids present in the sample at the	ding time. This analysis is used only	

<sup>1.</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

CHAIN OF CUSTODY RECORD 3 Lab Sample ID (Lab Use Only) N when received (C°): 1. Fee 345 3. 202 Temp, of coolers Lab use only Due Date: NOTES SED MICHON 加州 REQUESTED 8-17-6 08-35 2)1716 9 19 PO C - Charcoal tube P/O - Plastic or other 57:01 90 ANALYSIS Date: Time; 3-16-10 1505 3/17/10 8 No/Type of Containers 2 (402, 6) SE E L - Liquid A - Air Bag 250 ml - Glass wide mouth å= (Signature) Kb(I) Š PO/SO#: 0105035B Received by: (Stoppature) That Mone (Signature) Um Depth Laboratory: KITH C ☐ 100% Rush pu∃ Start Depth sceived by: Time: Received by Sampler's Signature Frisco Soil Sampling W - Water S - Soil 'SD' - Solid A/G - Amber / Or Glass 1 Liter FSS-HC-032 Identifying Marks of Sample(s) KS-0P-030 FSS-CT - 026 FSS-0P-028 FEK -0P - 029 FSS-PD-024 FSS-00-023 FSS-CT- 025 755-CT -027 155-56-031 ☐ 50% Rush Address: Contact: Phone: Date: Time: 5-4-10 Oxers 3-17-10 9-18 Environmental & Hydrogeologic Consultants Sete: □ 25% Rush Couthwest Date: Mehiza Smith (usera) Project Manager U. Scangs Office Location Dallas OoEa WW - Wastewater VOA - 40 ml vial 1324 36= 5001 050) 1437 145 3.14.10 0955 1120 (335 1310 Relinquistied by (Signature) Relinquished by (Signature) Relinquished by (Signature) Time 0105035B メミン Sampler's Name Turn around time ななな Date Proj. No. Matrix S

SOUTHWEST GEOSCIENCE • 2351 W. Northwest Hwy., Suite 3321 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914

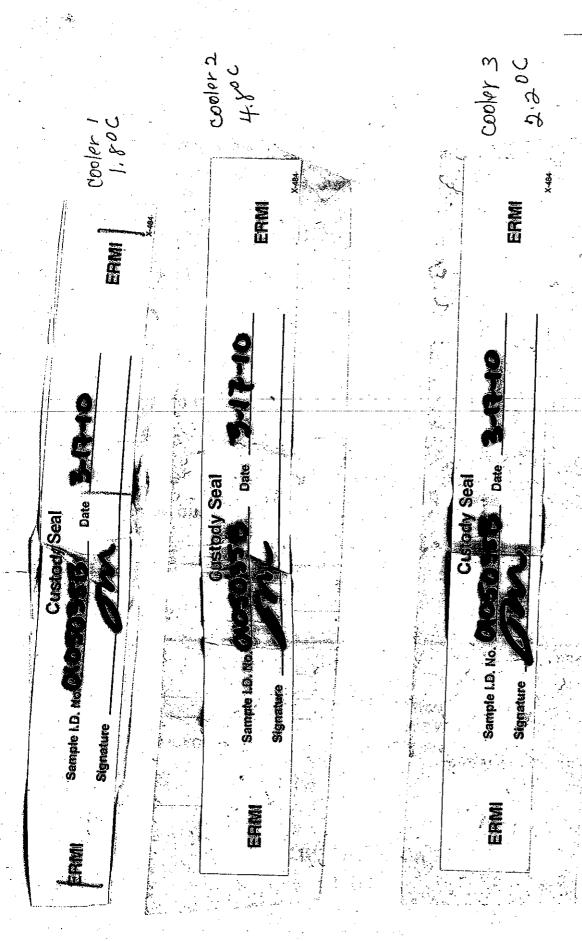
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Phone:		70	Page 2 of 2
#	0105035B	ST	
Sampler's Name Sampler's Signature	ature .		
Nehssa Swith (usepa) Milloon	SA		
Proj. No. Project Name	No/Type of Containers	1970	
0105035B Frisco Soil Saupling	2 9026	<i>a</i>	
ime C G Identifying Marks of Sample(s)	Start Depth VOA A/G H.L. A/G H.C. A/G H		Lab Sample ID (Lab Use Only)
5 3.16.10 1520 × 155-618-033		>	
1552 FSS-GR-035		>	
1400   FSS-GR-036		>	
1632     FSS - BG - 037		>	
4		7	1007389-03/04
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ŋd time 🗀 Normai 🗀 25% Rush 🗀 50% Rus			
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Re-Industry Dy (Signature) Date: Pacelved by: (	Received by: (Signature)  Control  Cont	Time:	
Date:   Time:	led by: (Signature) (44,1) Date:	Time:   10'.55	
WW - Wastewater W - Water S - Soll SD - So VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter	L - Liquid A - Air Bag 250 ml - Glass wide mouth	C - Charcoal tube SL - sludge O - Oil P/O - Plastic or other	

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No.		M.Press	1 4 HOUR	LI MEXT DAY	CHARGES	***	è			Wenns
	Falcon Charges	PREMID COLLECT	HOUND TRIP	WERKEND	WEIGHT	CHARGE	WATTAG THE CHO	DELYERY	TOTAL	THY COLOR
SOMULIES AVAIL	(=PPBSS i on DUMES (x 1525)	33 6 NAME From 1303 1 ADDRESS LAGO CO BArrans	1 (9/2) 881-7577   Carry Men (X 7/5013)   Sume (4.0)	DESCRIPTION AND REMARKS			WATTH'S TIME	CONCEALED DAMAGE, DUE AND PAYABLE PLAND. NOT RESPONSIBLE FOR	UNIVER NAME & NO.  DRIVER NAME & NO.  THE OF DEL.     RECEIVED VALUE  THE OF DEL.       RECEIVED BY A PROPERTY OF THE OF DEL.	Willem J. X X Wall Com

Lab Number(s):	1007389
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### ERMI

# Sample Preservation Documentation\*

On Ice (Circle One): YES OR NO (check if on Dry Ice\_\_\_\_\_)

Davasatava	المناسبة المناسبة	••			0:
Parameters \	Conta	iners Size	Required Preservation	Sample Container	Circle pH Note any discrepancy
Metals			pH < 2	Glass or Plastic	pH < 2
Dissolved Metals			Unpreserved prior to being filtered, Cool**	Glass or Plastic	
Hexavalent Chromium			CWA - pH 9.3-9.7, Cool; RCRA - Cool	Glass or Plastic	(*************************************
Semivolatiles, Pesticides, PCBs, Herbicides			Cool	Glass only with Teflon lid	Chlorine □yes □no
VOA (BTEX, MTBE, 624, 8260, TPH-GRO)			Cool, pH < 2 Zero Head Space	40 ml VOA vial	(5)12(2) (3)0)2(10)
VOA (TPH-1005)			Cool, Zero Head Space Please check if collected in pre-weighed vials	40 ml VOA vial	Bignikos estas
Phos., NO <sub>3</sub> /NO <sub>2</sub> , NH <sub>3</sub> N, COD, TKN,TOC			Cool, pH < 2	Glass or Plastic	pH < 2
TDS, BOD, CBOD, Cond, pH, TSS, F, SO <sub>4</sub> , Cl, Alk, Sulfite			Cool	Glass or Plastic, Plastic only if F	
Phenois, TPH-DRO			Cool, pH < 2	Glass only Teflon lid Foil lid	pH < 2
Oil & Grease, TPH (by 1664a)			Cool, pH < 2	Glass only Teflon lid Foil lid	(Sjörsfear) 2 februar 560
Cyanide			Cool, pH >12	Glass or Plastic	pH > 12 Chlorine ⊡yes ⊡no Sulfide ⊡yes ⊡no ⊡na
Sulfide			Cool, pH > 9	Glass or Plastic	pH > 9
Bacteria			Cool	Plastic Sterile Cup	
Soil, Sludge, Solid, Oil, Liquid	57	957	Cool Note: please check if collected in pre-weighed vials	91~	

Metals Preserved By Login □yes □no COMMENTS:	Trip Blanks Received □yes ☑no
Only 2 oft hol	A at this time. DC 3/11/10
*This form is used to document sample preservation. Circle paramet	er requested. Fill in number and size of containers received. Check pl
(adjust if needed) and note if different from what is required and make	a notation of any samples not received on ice. Note any incorrect sample
containers or preservation on chain-of-custody. A	
**Cool means cooled to ≤6°C but not frozen.	

Preservation Checked By

1000.0-3.2

Date Date

[157]

kdy 7/10/08 Q:\Form Masters\1000.0-3.2 Sample Preservation Form

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