

May 23, 2022

Project No. GL2040906201

Mack Borchardt

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas 75034

RE: 2022 FIRST QUARTER FRENCH DRAIN OPERATIONAL REPORT, FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE, 7471 OLD 5TH STREET, FRISCO, TEXAS

Dear Mr. Borchardt,

Golder Associates USA Inc. (Golder), a member of WSP, has prepared this quarterly operational report for the French Drain System (FDS) at the Frisco Community Development Corporation (CDC) facility located at 7471 Old 5th Street in Frisco, Texas (Site). This report has been prepared in response to the Texas Commission on Environmental Quality (TCEQ) comments to Exide Technologies, Inc. (Exide) on the 2013 Affected Property Assessment Report (APAR) dated October 8th, 2013 which requested additional information regarding the performance of the French Drain and the TCEQ comments to Exide for the 2014 APAR dated May 5, 2015 which requested quarterly reports on the operation of the FDS. This work is being continued under new ownership by the Frisco CDC.

This report includes general FDS background information and summarizes operation of the FDS system during the first quarter 2022. Specifically, the quarterly report includes a discussion of the performance of the system, gallons of water intercepted, concentrations of constituents in the water, the presence and/or absence of leakage along the flood wall into Stewart Creek, the presence or absence of white crystalline substance and sample results (if applicable), and a determination as to whether ongoing discharges to Stewart Creek are continuing to occur. As stated in previous quarterly reports, survey data for the French Drain and Stewart Creek and specific notes on which days the French Drain was pumped, as requested by the TCEQ, are included in this report.

1.0 FRENCH DRAIN SYSTEM HISTORY

According to historical information contained in the French Drain Construction Report (W&M Environmental Group, Inc. [W&M], 2013), the concrete retaining wall along the southern edge of the operating area was constructed in the late 1980s to keep Stewart Creek floodwaters from entering the operating portion of the facility and to retain storm water from the operating portion of the facility for subsequent collection and treatment at the onsite water treatment plants. After construction of the retaining wall, areas of seepage along the Stewart Creek side of the retaining wall were previously observed by Exide and its consultants; primarily between the Battery Receiving Building and the Slag Treatment Building. In response, Exide sealed numerous cracks in the retaining wall. In 2011, W&M designed the FDS and associated repairs to drain any water that collected below the pavement on the north side of the FDS and eliminate seepage through the flood wall. Water from the FDS is

pumped to mobile storage tanks adjacent to the wastewater treatment area for offsite disposal. Additional FDS information, including system specifications, is included in the June 2014 French Drain Monitoring Plan (FDMP) that was previously provided to the TCEQ.

2.0 DESCRIPTION OF MONITORING AND INSPECTION ACTIVITIES

Activities completed during the first quarter 2022 included the following:

- Daily (weekday) Inspections and Maintenance – Inspection of the flowmeter and recording flow rate and totalizer reading.
- Weekly Inspections and Maintenance – Inspection and maintenance of the FDS collection sump.
- Quarterly Inspections and Maintenance –
 - Inspection of the FDS for sedimentation.
 - Inspection of the Flood Wall waterstop and joint fillers.
 - Inspection of the Flood Wall for signs of seepage through the wall, cracks, or other signs of damage.

Monitoring and inspection activities completed for the FDS in accordance with the FDMP during the first quarter 2022 were completed by both City of Frisco Site personnel as well as Golder/WSP staff. City of Frisco Site personnel conducted daily and weekly activities, and Golder/WSP personnel conducted the quarterly inspection.

A more detailed description of the results of data collection activities and inspections is included in Section 3.0 below.

3.0 OBSERVATIONS AND RESULTS

3.1 Gallons of Water Intercepted

The flow rate and totalizer reading for the FDS were generally recorded each weekday. Table 1 summarizes the recorded flows of the FDS and the offsite daily precipitation based on data recorded at a local weather station located in Frisco, Texas (data obtained from <https://www.wunderground.com/dashboard/pws/KTXDALLA25>).

3.2 Groundwater and Perched Water Level Observations

Water levels for MW-26, MW-29, MW-31, MW-32, MW-33, MW-34, MW-35, and MW-46 were measured and recorded during the first quarter 2022. Table 2 summarizes the groundwater depths and elevations from this sampling event as well as previous data and includes the elevations of the banks and bottom of Stewart Creek at transects located near the upstream, midpoint and downstream end of the FDS. Monitoring well locations, transect locations and Stewart Creek elevations are shown on Figure 1. Water levels were generally consistent when compared to the fourth quarter 2021 (with some readings being slightly higher and some readings being slightly lower) than in the previous event.

3.3 Floodwall Seepage

There was no floodwall seepage observed during the flood wall inspections conducted on March 3, 2022.

3.4 White Crystalline Material Observations

White crystalline material (that has been previously reported) was not observed on the flood wall during the Golder inspection conducted on March 3, 2022. As such, no samples of white crystalline material were collected or analyzed.

3.5 Laboratory Analytical Results

Water samples were collected by City of Frisco Site personnel from the FDS during the first quarter 2022. Sampling of the French Drain was conducted on January 7, 2022. All analytical results from these samples are included in Table 3 and Attachment A.

4.0 SUMMARY OF SYSTEM PERFORMANCE

Based on the results of the inspection and monitoring activities for the first quarter 2022 described above, the FDS appears to be operating as designed.

5.0 CLOSURE

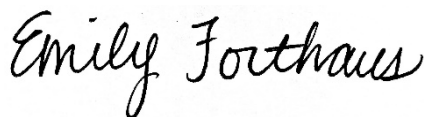
Golder/WSP appreciates the opportunity to assist the Frisco Community Development Corporation with this project. Please contact us if you have any questions or comments concerning this quarterly operational report.

Sincerely,

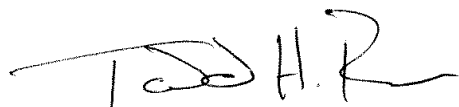
Golder Associates USA Inc.



Rahel Pommerenke
Environmental Engineer



Emily P. Forthaus
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RSP/EPF/THR

CC: Jerry Wick, Texas Commission on Environmental Quality
Brad Weaver – JEM Connections LLC (City of Frisco)

Attachments: Table 1: French Drain Daily Flow Volumes
Table 2: Perched and Groundwater Monitoring Well Water Elevations
Table 3: French Drain Water Analytical Data
Figure 1: Stewart Creek Transects
Attachment A: French Drain Water Laboratory Analytical Results

Table 1
French Drain Daily Flow Volumes

Jan-22			Feb-22			Mar-22		
Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)
1,211		0.08	9,939		1.15	5,548		2.36
Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)
Saturday, January 1, 2022	0	0.04	Tuesday, February 1, 2022	0	0.00	Tuesday, March 1, 2022	130	0.00
Sunday, January 2, 2022	0	0.00	Wednesday, February 2, 2022	0	0.56	Wednesday, March 2, 2022	120	0.00
Monday, January 3, 2022	400	0.00	Thursday, February 3, 2022	0	0.00	Thursday, March 3, 2022	55	0.00
Tuesday, January 4, 2022	77	0.00	Friday, February 4, 2022	0	0.10	Friday, March 4, 2022	60	0.00
Wednesday, January 5, 2022	48	0.00	Saturday, February 5, 2022	0	0.02	Saturday, March 5, 2022	73	0.00
Thursday, January 6, 2022	65	0.00	Sunday, February 6, 2022	0	0.00	Sunday, March 6, 2022	61	0.24
Friday, January 7, 2022	41	0.00	Monday, February 7, 2022	0	0.00	Monday, March 7, 2022	364	0.04
Saturday, January 8, 2022	0	0.03	Tuesday, February 8, 2022	6,493	0.00	Tuesday, March 8, 2022	118	0.00
Sunday, January 9, 2022	0	0.01	Wednesday, February 9, 2022	325	0.00	Wednesday, March 9, 2022	60	0.00
Monday, January 10, 2022	155	0.00	Thursday, February 10, 2022	55	0.00	Thursday, March 10, 2022	120	0.00
Tuesday, January 11, 2022	60	0.00	Friday, February 11, 2022	247	0.00	Friday, March 11, 2022	54	0.00
Wednesday, January 12, 2022	0	0.00	Saturday, February 12, 2022	NR	0.00	Saturday, March 12, 2022	0	0.00
Thursday, January 13, 2022	48	0.00	Sunday, February 13, 2022	NR	0.00	Sunday, March 13, 2022	0	0.00
Friday, January 14, 2022	49	0.00	Monday, February 14, 2022	118	0.00	Monday, March 14, 2022	151	0.25
Saturday, January 15, 2022	0	0.00	Tuesday, February 15, 2022	91	0.00	Tuesday, March 15, 2022	56	0.01
Sunday, January 16, 2022	1	0.00	Wednesday, February 16, 2022	50	0.01	Wednesday, March 16, 2022	114	0.00
Monday, January 17, 2022	65	0.00	Thursday, February 17, 2022	49	0.08	Thursday, March 17, 2022	59	0.07
Tuesday, January 18, 2022	0	0.00	Friday, February 18, 2022	170	0.00	Friday, March 18, 2022	178	0.00
Wednesday, January 19, 2022	0	0.00	Saturday, February 19, 2022	0	0.00	Saturday, March 19, 2022	60	0.00
Thursday, January 20, 2022	60	0.00	Sunday, February 20, 2022	0	0.00	Sunday, March 20, 2022	113	0.00
Friday, January 21, 2022	0	0.00	Monday, February 21, 2022	232	0.02	Monday, March 21, 2022	63	0.90
Saturday, January 22, 2022	0	0.00	Tuesday, February 22, 2022	319	0.26	Tuesday, March 22, 2022	745	0.00
Sunday, January 23, 2022	0	0.00	Wednesday, February 23, 2022	0	0.00	Wednesday, March 23, 2022	617	0.00
Monday, January 24, 2022	61	0.00	Thursday, February 24, 2022	0	0.01	Thursday, March 24, 2022	260	0.00
Tuesday, January 25, 2022	0	0.00	Friday, February 25, 2022	5	0.02	Friday, March 25, 2022	119	0.00
Wednesday, January 26, 2022	0	0.00	Saturday, February 26, 2022	2	0.07	Saturday, March 26, 2022	120	0.00
Thursday, January 27, 2022	0	0.00	Sunday, February 27, 2022	NR	0.00	Sunday, March 27, 2022	59	0.00
Friday, January 28, 2022	53	0.00	Monday, February 28, 2022	1,783	0.00	Monday, March 28, 2022	139	0.00
Saturday, January 29, 2022	0	0.00				Tuesday, March 29, 2022	58	0.00
Sunday, January 30, 2022	0	0.00				Wednesday, March 30, 2022	565	0.84
Monday, January 31, 2022	28	0.00				Thursday, March 31, 2022	857	0.01

Notes:

Precipitation data obtained from: <https://www.wunderground.com/dashboard/pws/KTXDALLA25> (Frisco)

Daily flow volumes provided by the Site.

NR - Not Recorded.

Prepared by: WLW 04/08/2022

Checked by: RSP 04/14/2022

Reviewed by: EPF 04/29/2022, THR 05/02/2022

Table 2
Perched and Groundwater Monitoring Well Water Elevations

Stewart Creek Elevations					
Survey Point			Measurement Date	Elevation (ft msl)	
Transect 1					
Top of North Bank			3/7/2016	628.74	
Toe of North Bank			3/7/2016	624.79	
Creek Centerline			3/7/2016	622.79	
Toe of South Bank			3/7/2016	624.27	
Top of South Bank			3/7/2016	634.09	
Transect 2					
Top of North Bank			3/7/2016	627.97	
Toe of North Bank			3/7/2016	623.57	
Toe of South Bank			3/7/2016	624.04	
Top of South Bank			3/7/2016	630.52	
Transect 3					
Top of North Bank			3/7/2016	628.20	
Toe of North Bank			3/7/2016	622.70	
Toe of South Bank			3/7/2016	622.88	
Top of South Bank			3/7/2016	628.18	
Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-26 (Groundwater)	631.93	5-15	3/11/2013	9.98	621.95
			4/5/2013	9.52	622.41
			4/29/2013	9.21	622.72
			1/21/2014	5.80	626.13
			7/29/2014	5.79	626.14
			9/23/2014	8.9	623.03
			6/12/2015	5.32	626.61
			9/8/2015	5.72	626.21
			12/17/2015	5.32	626.61
			2/29/2016	5.41	626.52
			6/1/2016	5.47	626.46
			9/8/2016	5.51	626.42
			12/2/2016	5.65	626.28
			3/2/2017	5.81	626.12
			5/4/2017	6.21	625.72
			8/28/2017	5.56	626.37
			11/27/2017	5.71	626.22
			2/15/2018	5.75	626.18
			5/9/2018	5.65	626.28
			9/24/2018	NA	NA
			12/4/2018	5.60	626.33
			3/7/2019	5.64	626.29
			6/3/2019	5.92	626.01
			9/9/2019	5.87	626.06
			12/2/2019	5.63	626.30
			2/26/2020	5.71	626.22
			5/27/2020	4.67	627.26
			8/27/2020	6.12	625.81
			12/8/2020	5.41	626.52
			3/4/2021	5.62	626.31
			6/2/2021	5.56	626.37
			8/30/2021	5.56	626.37
			12/9/2021	5.46	626.47
			3/3/2022	5.62	626.31

Table 2
Perched and Groundwater Monitoring Well Water Elevations

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-29 (Groundwater)	633.51	4.5-14.5	3/11/2013	13.08	620.43
			4/5/2013	6.96	626.55
			4/29/2013	6.56	626.95
			1/21/2014	6.62	626.89
			7/29/2014	6.57	626.94
			9/23/2014	6.04	627.47
			6/12/2015	5.21	628.30
			9/8/2015	6.35	627.16
			12/17/2015	5.67	627.84
			2/29/2016	5.79	627.72
			6/1/2016	5.69	627.82
			9/8/2016	5.67	627.84
			12/2/2016	6.25	627.26
			3/2/2017	6.51	627.00
			5/4/2017	5.80	627.71
			8/28/2017	5.90	627.61
			11/27/2017	6.77	626.74
			2/15/2018	6.77	626.74
			5/9/2018	5.95	627.56
			9/24/2018	NA	NA
			12/4/2018	6.12	627.39
			3/7/2019	6.07	627.44
			6/3/2019	6.27	627.24
			9/9/2019	6.25	627.26
			12/2/2019	6.27	627.24
			2/26/2020	5.18	628.33
			5/27/2020	5.09	628.42
			8/27/2020	6.96	626.55
			12/8/2020	6.06	627.45
			3/4/2021	6.12	627.39
			6/2/2021	6.09	627.42
			8/30/2021	6.12	627.39
			12/9/2021	6.12	627.39
			3/3/2022	6.27	627.24
MW-31 (Groundwater)	636.71	8-23	5/13/2013	10.58	626.13
			1/21/2014	10.87	625.84
			7/29/2014	10.81	625.90
			9/23/2014	11.32	625.39
			6/12/2015	9.61	627.10
			9/8/2015	10.53	626.18
			12/17/2015	9.42	627.29
			2/29/2016	9.78	626.93
			6/1/2016	9.82	626.89
			9/8/2016	9.90	626.81
			12/2/2016	10.21	626.50
			3/2/2017	12.23	624.48
			5/4/2017	10.58	626.13
			8/28/2017	9.99	626.72
			11/27/2017	10.82	625.89
			2/15/2018	10.90	625.81
			5/9/2018	10.19	626.52
			9/24/2018	NA	NA
			12/4/2018	10.42	626.29
			3/7/2019	10.13	626.58
			6/3/2019	10.31	626.40
			9/9/2019	10.51	626.20
			12/2/2019	9.85	626.86
			2/26/2020	8.96	627.75
			5/27/2020	8.54	628.17
			8/27/2020	10.56	626.15
			12/8/2020	9.71	627.00
			3/4/2021	9.79	626.92
			6/2/2021	9.86	626.85
			8/30/2021	9.56	627.15
			12/9/2021	9.67	627.04
			3/3/2022	9.86	626.85

Table 2
Perched and Groundwater Monitoring Well Water Elevations

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-32 (Perched)	630.96	2.5-5	1/21/2014	4.16	626.80
			7/29/2014	4.59	626.37
			9/23/2014	4.59	626.37
			6/12/2015	3.79	627.17
			9/8/2015	R	R
			2/29/2016	3.57	627.39
			6/1/2016	3.62	627.34
			9/8/2016	3.83	627.13
			12/2/2016	3.40	627.56
			3/2/2017	3.26	627.70
			5/4/2017	3.49	627.47
			8/28/2017	3.55	627.41
			11/27/2017	3.54	627.42
			2/15/2018	3.21	627.75
			5/9/2018	3.30	627.66
			9/24/2018	NA	NA
			12/4/2018	2.70	628.26
			3/7/2019	3.88	627.08
			6/3/2019	3.67	627.29
			9/9/2019	3.92	627.04
			12/2/2019	3.32	627.64
			2/26/2020	2.92	628.04
			5/27/2020	2.39	628.57
			8/27/2020	3.86	627.10
			12/8/2020	3.16	627.80
			3/4/2021	3.29	627.67
			6/2/2021	3.19	627.77
			8/30/2021	3.19	627.77
			12/9/2021	3.24	627.72
			3/3/2022	3.31	627.65
MW-33 (Perched)	632.59	2.5-5	1/21/2014	1.09	631.50
			7/29/2014	2.14	630.45
			9/23/2014	1.55	631.04
			12/17/2015	1.21	631.38
			2/29/2016	1.07	631.52
			6/1/2016	1.09	631.50
			9/8/2016	1.07	631.52
			12/2/2016	0.95	631.64
			3/2/2017	0.88	631.71
			5/4/2017	0.91	631.68
			8/28/2017	0.86	631.73
			11/27/2017	0.85	631.74
			2/15/2018	0.81	631.78
			5/9/2018	0.80	631.79
			9/24/2018	NA	NA
			12/4/2018	0.95	631.64
			3/7/2019	0.64	631.95
			6/3/2019	0.92	631.67
			9/9/2019	1.13	631.46
			12/2/2019	0.33	632.26
			2/26/2020	0.39	632.20
			5/27/2020	0.16	632.43
			8/27/2020	0.99	631.60
			12/8/2020	0.46	632.13
			3/4/2021	0.72	631.87
			6/2/2021	0.61	631.98
			8/30/2021	0.26	632.33
			12/9/2021	0.71	631.88
			3/3/2022	0.72	631.87

Table 2
Perched and Groundwater Monitoring Well Water Elevations

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-34 (Perched)	632.83	2.5-5	1/21/2014	4.31	628.52
			7/29/2014	4.45	628.38
			9/23/2014	4.45	628.38
			6/12/2015	3.42	629.41
			12/17/2015	3.03	629.80
			2/29/2016	1.95	630.88
			6/1/2016	2.04	630.79
			9/8/2016	2.59	630.24
			12/2/2016	2.50	630.33
			3/2/2017	2.75	630.08
			5/4/2017	3.93	628.90
			8/28/2017	2.95	629.88
			11/27/2017	3.62	629.21
			2/15/2018	3.71	629.12
			5/9/2018	3.57	629.26
			9/24/2018	NA	NA
			12/4/2018	3.08	629.75
			3/7/2019	3.41	629.42
			6/3/2019	3.17	629.66
			9/9/2019	3.31	629.52
			12/2/2019	2.89	629.94
			2/26/2020	1.37	631.46
			5/27/2020	1.86	630.97
			8/27/2020	3.49	629.34
			12/8/2020	2.58	630.25
			3/4/2021	2.76	630.07
			6/2/2021	2.67	630.16
			8/30/2021	2.73	630.10
			12/9/2021	2.51	630.32
			3/3/2022	2.69	630.14
MW-35 (Perched)	632.55	2.5-5	3/3/2022	2.69	630.14
			1/21/2014	DRY	DRY
			7/29/2014	DRY	DRY
			9/23/2014	DRY	DRY
			6/12/2015	4.97	627.58
			9/8/2015	DRY	DRY
			12/17/2015	4.10	628.45
			2/29/2016	3.86	628.69
			6/1/2016	3.99	628.56
			9/8/2016	4.13	628.42
			12/2/2016	3.85	628.70
			3/2/2017	3.94	628.61
			5/4/2017	4.58	627.97
			8/28/2017	4.16	628.39
			11/27/2017	3.98	628.57
			2/15/2018	3.81	628.74
			5/9/2018	3.92	628.63
			9/24/2018	NA	NA
			12/4/2018	3.74	628.81
			3/7/2019	3.65	628.90
			6/3/2019	3.91	628.64
			9/9/2019	4.05	628.50
			12/2/2019	4.06	628.49
			2/26/2020	3.89	628.66
			5/27/2020	2.95	629.60
			8/27/2020	4.52	628.03
			12/8/2020	4.06	628.49
			3/4/2021	4.22	628.33
			6/2/2021	4.19	628.36
			8/30/2021	3.92	628.63
			12/9/2021	4.12	628.43
			3/3/2022	4.29	628.26

Table 2
Perched and Groundwater Monitoring Well Water Elevations

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-46 (Groundwater)	630.98	10-20	1/21/2014	5.21	625.77
			7/29/2014	5.47	625.51
			9/23/2014	5.08	625.90
			6/12/2015	5.50	625.48
			9/8/2015	4.17	626.81
			2/29/2016	5.23	625.75
			6/1/2016	5.30	625.68
			9/8/2016	5.41	625.57
			12/2/2016	4.96	626.02
			3/2/2017	5.00	625.98
			5/4/2017	5.50	625.48
			8/28/2017	4.44	626.54
			11/27/2017	5.41	625.57
			2/15/2018	5.81	625.17
			5/9/2018	4.24	626.74
			9/24/2018	NA	NA
			12/4/2018	4.61	626.37
			3/7/2019	4.29	626.69
			6/3/2019	4.61	626.37
			9/9/2019	4.41	626.57
			12/2/2019	4.32	626.66
			2/26/2020	3.29	627.69
			5/27/2020	3.26	627.72
			8/27/2020	4.89	626.09
			12/8/2020	4.21	626.77
			3/4/2021	4.42	626.56
			6/2/2021	4.39	626.59
			8/30/2021	4.17	626.81
			12/9/2021	4.16	626.82
			3/3/2022	4.38	626.60

Notes:

1. bgs - below ground surface.
2. msl - above mean sea level.
3. btoc - below top of casing.
4. R - depth to groundwater was disqualified as a field error because depth was greater than total depth of the well.
5. NA - not accessible due to Site conditions.

Prepared by: WLW 04/06/22

Checked by: RSP 04/14/2022

Reviewed by: EPF 04/29/2022, THR 05/02/2022

Table 3
French Drain Water
Analytical Data

	Sample ID FD010722-001		Sample ID FD010722-002	
	Laboratory ID 22010093-001		Laboratory ID 22010093-002	
	Date Collected 1/7/2022 8:15		Date Collected 1/7/2022 8:15	
Metals				
Parameter:	Result	Units	Result	Units
Arsenic	NA	mg/L	<0.003	mg/L
Barium	NA	mg/L	0.045	mg/L
Cadmium	NA	mg/L	0.0021	mg/L
Chromium	NA	mg/L	0.020	mg/L
Copper	NA	mg/L	0.0158	mg/L
Iron	NA	mg/L	<0.25	mg/L
Lead	NA	mg/L	0.049	mg/L
Manganese	NA	mg/L	0.006	mg/L
Nickel	NA	mg/L	0.022	mg/L
Selenium	NA	mg/L	0.0171	mg/L
Silver	NA	mg/L	<0.001	mg/L
Zinc	NA	mg/L	0.108	mg/L
Mercury	NA	mg/L	<0.0001	mg/L
General Chemistry				
Parameter:	Result	Units	Result	Units
Total Suspended Solids	49.0	mg/L	NA	mg/L
Total Dissolved Solids	1,020	mg/L	NA	mg/L

Notes:

- 1) NA - Not Analyzed
- 2) mg/L - milligrams per liter
- 3) **Bold** values indicate a detection.

4) < - denotes analyte not detected, value shown is the sample detection limit (SDL)

Prepared by: WLW 04/06/2022

Checked by: RSP 04/14/2022

Reviewed by: EPF 04/29/2022, THR 05/02/2022



LEGEND

- Monitoring Well Location
- Transect Location
- French Drain
- Flood Wall
- Approximate Creek Centerline

NOTE(S)

1. ELEVATIONS SHOWN ARE MEASURED IN FEET ABOVE MEAN SEA LEVEL.

REFERENCE(S)

1. ELEVATIONS COLLECTED BY BRITTAIN & CRAWFORD, LLC ON MARCH 7, 2016
2. AERIAL IMAGERY - APRIL, 2017

CLIENT

FRISCO COMMUNITY DEVELOPMENT CORPORATION

PROJECT

FRENCH DRAIN QUARTERLY REPORT
FRISCO, TEXAS

TITLE

STEWART CREEK TRANSECTS

CONSULTANT	YYYY-MM-DD	2020-12-02
DESIGNED	JWT	
PREPARED	JWT	
REVIEWED	EPF	
APPROVED	THR	

PROJECT NO. GL2040906201 **CONTROL** 1302086Y003 **REV.** 0 **FIGURE** 1

wsp GOLDER

0 50 100 Feet

1m

Friday, January 14, 2022

Frisco Community Development Corp/City of Fri
Eduardo Salazar
6101 Frisco Square Blvd
Frisco, Texas 75034
Tel: (972) 335-2121 Fax:
esalazar@friscotexas.gov

Re: Project Name: F.C.D.C/ Former Exide Technologies
Project Number: Influent water flows
Project Location: 7471 Fifth Street, Frisco, Texas 75034

Oxidor received 6 liquid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
22010093-001	FD010722-001	Liquid	1/7/2022 08:15	Total Dissolved Solids, Total Suspended Solids
22010093-002	FD010722-002	Liquid	1/7/2022 08:15	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
22010093-003	SO010722-001	Liquid	1/7/2022 08:20	Total Dissolved Solids, Total Suspended Solids
22010093-004	SO010722-002	Liquid	1/7/2022 08:20	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
22010093-005	L010722-001	Liquid	1/7/2022 08:30	Total Dissolved Solids, Total Suspended Solids
22010093-006	L010722-002	Liquid	1/7/2022 08:30	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc

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 via associated flags and/ or in the case narrative. The analyses and data met requirements of NELAP except where noted. All non-NELAP methods are identified accordingly and all estimated uncertainties of test results are within method or EPA specifications.

Respectfully submitted,



Charles Brungardt
Manager

Frisco Community Development Corp/City of Fri
Eduardo Salazar

Analytical Report

Project Name: **F.C.D.C/ Former Exide Technologies**

Customer Sample ID: **FD010722-001**

Oxidor Sample ID: 22010093-001

Sample Received: 1/7/2022

Matrix: **Liquid**

Sample Collected: **1/7/2022 08:15**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
Total Dissolved Solids	50.0	50	1020	mg/L	01/11/22 08:30	SM 2540-C	B.F.	
Total Suspended Solids	1.0	5	49.0	mg/L	01/13/22 08:55	SM 2540-D	B.F.	

Frisco Community Development Corp/City of Fri
Eduardo Salazar

Analytical Report

Project Name: **F.C.D.C/ Former Exide Technologies**

Customer Sample ID: **FD010722-002**

Oxidor Sample ID: 22010093-002

Sample Received: 1/7/2022

Matrix: **Liquid**

Sample Collected: **1/7/2022 08:15**

Parameter	SDL	ML	Result	Units	Date Analyzed	Method	Analyst	Flags
Metals								
<i>Digested by method 200.8 on 01/10/22 at 09:30</i>								
Arsenic	0.003	0.005	ND	mg/L	01/12/22 17:23	200.8	K.E.L.	
Barium	0.003	0.005	0.045	mg/L	01/12/22 17:23	200.8	K.E.L.	
Cadmium	0.0005	0.001	0.0021	mg/L	01/12/22 17:23	200.8	K.E.L.	
Chromium	0.003	0.005	0.020	mg/L	01/12/22 17:23	200.8	K.E.L.	
Copper	0.0025	0.005	0.0158	mg/L	01/12/22 17:23	200.8	K.E.L.	
Iron	0.25	0.5	ND	mg/L	01/12/22 17:23	200.8	K.E.L.	
Lead	0.003	0.005	0.049	mg/L	01/12/22 17:23	200.8	K.E.L.	
Manganese	0.001	0.002	0.006	mg/L	01/12/22 17:23	200.8	K.E.L.	
Nickel	0.003	0.005	0.022	mg/L	01/12/22 17:23	200.8	K.E.L.	
Selenium	0.0025	0.005	0.0171	mg/L	01/12/22 17:23	200.8	K.E.L.	
Silver	0.001	0.001	ND	mg/L	01/12/22 17:23	200.8	K.E.L.	
Zinc	0.003	0.005	0.108	mg/L	01/12/22 17:23	200.8	K.E.L.	
<i>Digested by method 245.1 on 01/12/22 at 09:15</i>								
Mercury	0.0001	0.0002	ND	mg/L	01/12/22 16:34	245.1	A.G.J.	

Frisco Community Development Corp/City of Fri
Eduardo Salazar

Sample Cross Reference

Project Name: **F.C.D.C/ Former Exide Technologies**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
FD010722-001	22010093-001	Total Dissolved Solids	SM 2540-C	TDS__07828_L
		Total Suspended Solids	SM 2540-D	TSS__12647_L
FD010722-002	22010093-002	Mercury	245.1	MERC_07149_L
		Arsenic	200.8	META_17781_L
		Selenium	200.8	META_17781_L
		Silver	200.8	META_17781_L
		Zinc	200.8	META_17781_L
		Manganese	200.8	META_17781_L
		Lead	200.8	META_17781_L
		Iron	200.8	META_17781_L
		Copper	200.8	META_17781_L
		Chromium	200.8	META_17781_L
		Nickel	200.8	META_17781_L
		Barium	200.8	META_17781_L
		Cadmium	200.8	META_17781_L
SO010722-001	22010093-003	Total Dissolved Solids	SM 2540-C	TDS__07928_L
		Total Suspended Solids	SM 2540-D	TSS__12647_L
SO010722-002	22010093-004	Mercury	245.1	MERC_07149_L
		Copper	200.8	META_17781_L
		Silver	200.8	META_17781_L
		Selenium	200.8	META_17781_L
		Nickel	200.8	META_17781_L
		Manganese	200.8	META_17781_L
		Iron	200.8	META_17781_L
		Chromium	200.8	META_17781_L
		Zinc	200.8	META_17781_L
		Cadmium	200.8	META_17781_L
		Barium	200.8	META_17781_L
		Arsenic	200.8	META_17781_L
		Lead	200.8	META_17781_L
L010722-001	22010093-005	Total Dissolved Solids	SM 2540-C	TDS__07928_L
		Total Suspended Solids	SM 2540-D	TSS__12647_L
L010722-002	22010093-006	Mercury	245.1	MERC_07149_L
		Lead	200.8	META_17881_L
		Arsenic	200.8	META_17881_L
		Barium	200.8	META_17881_L
		Cadmium	200.8	META_17881_L
		Chromium	200.8	META_17881_L
		Iron	200.8	META_17881_L
		Manganese	200.8	META_17881_L
		Nickel	200.8	META_17881_L
		Selenium	200.8	META_17881_L
		Silver	200.8	META_17881_L
		Zinc	200.8	META_17881_L
		Copper	200.8	META_17881_L

Frisco Community Development Corp/City of Fri
Eduardo Salazar

QC Summary

Project Name: **F.C.D.C/ Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID TDS__07828_L									
Blank	Total Dissolved Solids	ND mg/L							
LCS	Total Dissolved Solids	975 mg/L		1000 mg/L	98%	90-110%			
LCSD	Total Dissolved Solids	960 mg/L		1000 mg/L	96%	90-110%	1.6%	0-5%	
Replicate	Total Dissolved Solids	14000 mg/L	13940 mg/L				0.6%	0-5%	
QCBatchID TDS__07928_L									
Blank	Total Dissolved Solids	ND mg/L							
LCS	Total Dissolved Solids	990 mg/L		1000 mg/L	99%	90-110%			
LCSD	Total Dissolved Solids	1020 mg/L		1000 mg/L	102%	90-110%	3.0%	0-5%	
Replicate	Total Dissolved Solids	99200 mg/L	113000 mg/L				13.0%	0-5%	Q-7
QCBatchID TSS__12647_L									
Blank	Total Suspended Solids	ND mg/L							
LCS	Total Suspended Solids	491 mg/L		500 mg/L	98%	85-115%			
LCSD	Total Suspended Solids	498 mg/L		500 mg/L	100%	85-115%	1.4%	0-15%	
Replicate	Total Suspended Solids	300 mg/L	306 mg/L				2.0%	0-15%	
QCBatchID MERC_07149_L									
Blank	Mercury	ND mg/L							
LCS	Mercury	0.0100 mg/L		0.01 mg/L	100%	85-115%			
LCSD	Mercury	0.0099 mg/L		0.01 mg/L	99%	85-115%	1.4%	0-25%	
MS	Mercury	0.0101 mg/L	ND	0.01 mg/L	101%	80-120%			
MSD	Mercury	0.0099 mg/L	ND	0.01 mg/L	99%	80-120%	1.6%	0-25%	
QCBatchID META_17781_L									
Blank	Arsenic	ND mg/L							
	Barium	ND mg/L							
	Cadmium	ND mg/L							
	Chromium	ND mg/L							
	Copper	ND mg/L							
	Iron	ND mg/L							
	Lead	ND mg/L							
	Manganese	ND mg/L							
	Nickel	ND mg/L							
	Selenium	ND mg/L							
	Silver	ND mg/L							
	Zinc	ND mg/L							
LCS	Arsenic	0.104 mg/L		0.1 mg/L	104%	85-115%			
	Barium	0.100 mg/L		0.1 mg/L	100%	85-115%			
	Cadmium	0.1064 mg/L		0.1 mg/L	106%	85-115%			
	Chromium	0.110 mg/L		0.1 mg/L	110%	85-115%			
	Copper	0.1068 mg/L		0.1 mg/L	107%	85-115%			
	Iron	9.97 mg/L		10.1 mg/L	99%	85-115%			
	Lead	0.100 mg/L		0.1 mg/L	100%	85-115%			

Frisco Community Development Corp/City of Fri
Eduardo Salazar

QC Summary

Project Name: **F.C.D.C/ Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID META_17781_L									
	Manganese	0.105 mg/L		0.1 mg/L	105%	85-115%			
	Nickel	0.104 mg/L		0.1 mg/L	105%	85-115%			
	Selenium	0.0983 mg/L		0.1 mg/L	98%	85-115%			
	Silver	0.102 mg/L		0.1 mg/L	102%	85-115%			
	Zinc	0.103 mg/L		0.1 mg/L	103%	85-115%			
LCSD	Arsenic	0.104 mg/L		0.1 mg/L	104%	85-115%	0.0%	0-20%	
	Barium	0.106 mg/L		0.1 mg/L	106%	85-115%	5.8%	0-20%	
	Cadmium	0.1073 mg/L		0.1 mg/L	107%	85-115%	0.9%	0-20%	
	Chromium	0.108 mg/L		0.1 mg/L	108%	85-115%	1.8%	0-20%	
	Copper	0.1021 mg/L		0.1 mg/L	102%	85-115%	4.5%	0-20%	
	Iron	9.93 mg/L		10.1 mg/L	98%	85-115%	0.4%	0-20%	
	Lead	0.102 mg/L		0.1 mg/L	102%	85-115%	2.3%	0-20%	
	Manganese	0.104 mg/L		0.1 mg/L	104%	85-115%	1.0%	0-20%	
	Nickel	0.104 mg/L		0.1 mg/L	104%	85-115%	0.3%	0-20%	
	Selenium	0.0979 mg/L		0.1 mg/L	98%	85-115%	0.4%	0-20%	
	Silver	0.102 mg/L		0.1 mg/L	102%	85-115%	0.2%	0-20%	
	Zinc	0.099 mg/L		0.1 mg/L	99%	85-115%	4.0%	0-20%	
MS	Arsenic	0.533 mg/L	ND	0.5 mg/L	107%	80-120%			
	Barium	0.535 mg/L	0.023 mg/L	0.5 mg/L	102%	80-120%			
	Cadmium	0.5255 mg/L	ND	0.5 mg/L	105%	80-120%			
	Chromium	0.552 mg/L	0.005 mg/L	0.5 mg/L	109%	80-120%			
	Copper	0.5387 mg/L	0.0341 mg/L	0.5 mg/L	101%	80-120%			
	Iron	49.8 mg/L	0.282 mg/L	50.5 mg/L	98%	80-120%			
	Lead	0.532 mg/L	ND	0.5 mg/L	107%	80-120%			
	Manganese	0.539 mg/L	0.011 mg/L	0.5 mg/L	106%	80-120%			
	Nickel	0.533 mg/L	0.025 mg/L	0.5 mg/L	102%	80-120%			
	Selenium	0.5059 mg/L	ND	0.5 mg/L	101%	80-120%			
	Silver	0.490 mg/L	0.002 mg/L	0.5 mg/L	98%	80-120%			
	Zinc	0.843 mg/L	0.359 mg/L	0.5 mg/L	97%	80-120%			
MSD	Arsenic	0.554 mg/L	ND	0.5 mg/L	111%	80-120%	3.9%	0-20%	
	Barium	0.534 mg/L	0.023 mg/L	0.5 mg/L	102%	80-120%	0.2%	0-20%	
	Cadmium	0.5276 mg/L	ND	0.5 mg/L	106%	80-120%	0.4%	0-20%	
	Chromium	0.567 mg/L	0.005 mg/L	0.5 mg/L	112%	80-120%	2.7%	0-20%	
	Copper	0.5576 mg/L	0.0341 mg/L	0.5 mg/L	105%	80-120%	3.5%	0-20%	
	Iron	50.1 mg/L	0.282 mg/L	50.5 mg/L	99%	80-120%	0.6%	0-20%	
	Lead	0.534 mg/L	ND	0.5 mg/L	107%	80-120%	0.4%	0-20%	
	Manganese	0.559 mg/L	0.011 mg/L	0.5 mg/L	110%	80-120%	3.6%	0-20%	
	Nickel	0.543 mg/L	0.025 mg/L	0.5 mg/L	104%	80-120%	1.8%	0-20%	
	Selenium	0.5111 mg/L	ND	0.5 mg/L	102%	80-120%	1.0%	0-20%	
	Silver	0.490 mg/L	0.002 mg/L	0.5 mg/L	98%	80-120%	0.1%	0-20%	
	Zinc	0.834 mg/L	0.359 mg/L	0.5 mg/L	95%	80-120%	1.1%	0-20%	

QCBatchID META_17881_L

Blank Arsenic ND mg/L

Frisco Community Development Corp/City of Fri
Eduardo Salazar

QC Summary

Project Name: **F.C.D.C/ Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID META_17881_L									
	Barium	ND mg/L							
	Cadmium	ND mg/L							
	Chromium	ND mg/L							
	Copper	ND mg/L							
	Iron	ND mg/L							
	Lead	ND mg/L							
	Manganese	ND mg/L							
	Nickel	ND mg/L							
	Selenium	ND mg/L							
	Silver	ND mg/L							
	Zinc	ND mg/L							
LCS	Arsenic	0.105 mg/L		0.1 mg/L	105%	85-115%			
	Barium	0.106 mg/L		0.1 mg/L	106%	85-115%			
	Cadmium	0.1056 mg/L		0.1 mg/L	106%	85-115%			
	Chromium	0.106 mg/L		0.1 mg/L	106%	85-115%			
	Copper	0.1093 mg/L		0.1 mg/L	109%	85-115%			
	Iron	10.5 mg/L		10.1 mg/L	104%	85-115%			
	Lead	0.104 mg/L		0.1 mg/L	104%	85-115%			
	Manganese	0.107 mg/L		0.1 mg/L	107%	85-115%			
	Nickel	0.111 mg/L		0.1 mg/L	111%	85-115%			
	Selenium	0.1028 mg/L		0.1 mg/L	103%	85-115%			
	Silver	0.097 mg/L		0.1 mg/L	97%	85-115%			
	Zinc	0.100 mg/L		0.1 mg/L	100%	85-115%			
LCSD	Arsenic	0.106 mg/L		0.1 mg/L	106%	85-115%	1.0%	0-20%	
	Barium	0.105 mg/L		0.1 mg/L	105%	85-115%	1.0%	0-20%	
	Cadmium	0.1061 mg/L		0.1 mg/L	106%	85-115%	0.5%	0-20%	
	Chromium	0.108 mg/L		0.1 mg/L	108%	85-115%	1.9%	0-20%	
	Copper	0.1101 mg/L		0.1 mg/L	110%	85-115%	0.7%	0-20%	
	Iron	10.3 mg/L		10.1 mg/L	102%	85-115%	1.9%	0-20%	
	Lead	0.104 mg/L		0.1 mg/L	104%	85-115%	0.0%	0-20%	
	Manganese	0.108 mg/L		0.1 mg/L	108%	85-115%	0.9%	0-20%	
	Nickel	0.112 mg/L		0.1 mg/L	112%	85-115%	0.9%	0-20%	
	Selenium	0.1057 mg/L		0.1 mg/L	106%	85-115%	2.8%	0-20%	
	Silver	0.102 mg/L		0.1 mg/L	102%	85-115%	5.0%	0-20%	
	Zinc	0.100 mg/L		0.1 mg/L	100%	85-115%	0.0%	0-20%	
MS	Arsenic	0.520 mg/L	0.003 mg/L	0.5 mg/L	103%	80-120%			
	Barium	0.558 mg/L	0.051 mg/L	0.5 mg/L	101%	80-120%			
	Cadmium	0.5070 mg/L	ND	0.5 mg/L	101%	80-120%			
	Chromium	0.516 mg/L	ND	0.5 mg/L	103%	80-120%			
	Copper	0.5135 mg/L	0.001 mg/L	0.5 mg/L	103%	80-120%			
	Iron	50.7 mg/L	0.021 mg/L	50.5 mg/L	100%	80-120%			
	Lead	0.506 mg/L	ND	0.5 mg/L	101%	80-120%			
	Manganese	0.574 mg/L	0.053 mg/L	0.5 mg/L	104%	80-120%			

Frisco Community Development Corp/City of Fri
Eduardo Salazar

QC Summary

Project Name: **F.C.D.C/ Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QC Batch ID META_17881_L									
	Nickel	0.564 mg/L	0.033 mg/L	0.5 mg/L	106%	80-120%			
	Selenium	0.4872 mg/L	0.002 mg/L	0.5 mg/L	97%	80-120%			
	Silver	0.476 mg/L	ND	0.5 mg/L	95%	80-120%			
	Zinc	0.475 mg/L	0.003 mg/L	0.5 mg/L	94%	80-120%			
MSD	Arsenic	0.525 mg/L	0.003 mg/L	0.5 mg/L	104%	80-120%	1.0%	0-20%	
	Barium	0.576 mg/L	0.051 mg/L	0.5 mg/L	105%	80-120%	3.2%	0-20%	
	Cadmium	0.5102 mg/L	ND	0.5 mg/L	102%	80-120%	0.6%	0-20%	
	Chromium	0.520 mg/L	ND	0.5 mg/L	104%	80-120%	0.8%	0-20%	
	Copper	0.5148 mg/L	0.001 mg/L	0.5 mg/L	103%	80-120%	0.3%	0-20%	
	Iron	50.8 mg/L	0.021 mg/L	50.5 mg/L	101%	80-120%	0.2%	0-20%	
	Lead	0.502 mg/L	ND	0.5 mg/L	100%	80-120%	0.8%	0-20%	
	Manganese	0.579 mg/L	0.053 mg/L	0.5 mg/L	105%	80-120%	0.9%	0-20%	
	Nickel	0.570 mg/L	0.033 mg/L	0.5 mg/L	107%	80-120%	1.1%	0-20%	
	Selenium	0.4909 mg/L	0.002 mg/L	0.5 mg/L	98%	80-120%	0.8%	0-20%	
	Silver	0.469 mg/L	ND	0.5 mg/L	94%	80-120%	1.5%	0-20%	
	Zinc	0.475 mg/L	0.003 mg/L	0.5 mg/L	94%	80-120%	0.0%	0-20%	

Frisco Community Development Corp/City of Fri
Eduardo Salazar

Case Narrative

Project Name: **F.C.D.C/ Former Exide Technologies**

*	Refer to QC section and / or Case Narrative
J-5	The associated concentration is an estimated value detected between the SDL and the Adjusted MQL
Q-7	Recovery and/or RPD outside desirable limits.
Dx [Value]	Sample diluted by [Value] amount
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution)
ND	Analyte not detected at or above SDL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory

Solid samples submitted to the laboratory for analysis by SW-846 Method 8260 should be collected by SW-846 Method 5035. Those samples in which concentrations are less than or equal to 200 ug/kg should be collected in accordance with SW-846 Method 5035, Section 6.2.1. For samples with higher concentrations (> 200 ug/kg), collect samples by SW-846 Method 5035, Section 6.2.2 or 6.2.3. Sample results may not accurately reflect volatile concentrations if collection is not performed according to the referenced methodologies.

Solid samples submitted to the laboratory for analysis by TNRCC Method 1005 should be collected in accordance to the methodology. Those samples in which concentrations of C6 to C12 are known to be absent, or fall under the Petroleum Storage Tank (PST) rule, may be collected in bulk sample jars in accordance with TNRCC Method 1005, Revision 3 clarifications. For samples with concentrations of C6 to C12, or where knowledge of the site does not exist, collect samples by TNRCC Method 1005, Section 6.1. Sample results may not accurately reflect TPH concentrations if collection is not performed according to the referenced methodologies.

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5.

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Oxidor An SPL Company certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

Frisco Community Development Corp/City of Fri
Eduardo Salazar

Sample Preservation Verification

Project Name: **F.C.D.C/ Former Exide Technologies**

Receipt temp: **1.4 °C on Ice**

Receipt method: **Customer Courier**

Custody seal intact: **Yes**

All samples / labels received intact: **Yes**

Customer Sample ID: **FD010722-001**

Collected By: **Eduardo Salazar**

Oxidore Sample ID: **22010093-001**

Collector Affiliation: **City of Frisco**

Collected: **01/07/22 08:15**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
1000 mL Plastic	1	Grab		Temp	-

Customer Sample ID: **FD010722-002**

Collected By: **Eduardo Salazar**

Oxidore Sample ID: **22010093-002**

Collector Affiliation: **City of Frisco**

Collected: **01/07/22 08:15**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
250 mL Plastic	1	Grab		HNO3	<2

Customer Sample ID: **SO010722-001**

Collected By: **Eduardo Salazar**

Oxidore Sample ID: **22010093-003**

Collector Affiliation: **City of Frisco**

Collected: **01/07/22 08:20**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
1000 mL Plastic	1	Grab		Temp	-

Customer Sample ID: **SO010722-002**

Collected By: **Eduardo Salazar**

Oxidore Sample ID: **22010093-004**

Collector Affiliation: **City of Frisco**

Collected: **01/07/22 08:20**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
250 mL Plastic	1	Grab		HNO3	<2

Customer Sample ID: **L010722-001**

Collected By: **Eduardo Salazar**

Oxidore Sample ID: **22010093-005**

Collector Affiliation: **City of Frisco**

Collected: **01/07/22 08:30**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
1000 mL Plastic	1	Grab		Temp	-

Frisco Community Development Corp/City of Frisco
Eduardo Salazar

Sample Preservation Verification

Project Name: **F.C.D.C/ Former Exide Technologies**

Customer Sample ID: **L010722-002**

Collected By: **Eduardo Salazar**

Oxidor Sample ID: **22010093-006**

Collector Affiliation: **City of Frisco**

Collected: **01/07/22 08:30**

Matrix: **Liquid**

Indicated / Observed

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Preservation</u>	<u>pH</u>
250 mL Plastic	1	Grab		HNO3	<2

Sample conditions at time of receipt at laboratory verified in part or in whole by:

A.M.

Documentation

PROJECT DESCRIPTION: **F.C.D.C/ Former Exide Technologies**

Frisco Community Development Corporation

6101 Frisco Square Blvd
Frisco, TX 75034
Telephone 972-335-2121
Facsimile 972-377-2707

CHAIN OF CUSTODY RECORD

22010093

INDUSTRY: F.C.D.C / Former Exide Technologies	OUTFALL: Influent water flows	SAMPLER: Eduardo Salazar
ADDRESS: 7471 Fifth Street Frisco, Texas 75034	NATURE OF INDUSTRY: Former Secondary Smelting	REPRESENTING: City of Frisco
INDUSTRY REPRESENTATIVE (S): Eduardo Salazar		SIGNATURE: <i>Eduardo Salazar</i>

SAMPLE No. / IDENTIFICATION	DATE (S)	TIME (S)	SAMPLE TYPE **	ANALYSES REQUESTED	pH	DATE / TIME	INITIALS	PRESERVATION/ REMARKS/CONTAINERS / ALL SAMPLES COOL ≤ 6° C	INITIALS
FD010722-001	01/07/22	8:15 AM	Grab	TDS-TSS	11.0	01/07/22 8:15 AM	<i>ES</i>	None/1 liter	ES
FD010722-002	01/07/22	8:15 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	11.0	01/07/22 8:15 AM	<i>ES</i>	HNo3//250ml/plastic	ES
SO010722-001	01/07/22	8:20 AM	Grab	TDS-TSS	8.5	01/07/22 8:20 AM	<i>ES</i>	None/1 liter	ES
SO010722-002	01/07/22	8:20 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	8.5	01/07/22 8:20 AM	<i>ES</i>	HNo3//250ml/plastic	ES
LO10722-001	01/07/22	8:30 AM	Grab	TDS-TSS	12.6	01/07/22 8:30 AM	<i>ES</i>	None/1 liter	ES
LO10722-002	01/07/22	8:30 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	12.6	01/07/22 8:30 AM	<i>ES</i>	HNo3//250ml/plastic	ES

001
002
003
004
005
006

E-MAIL RESULTS TO: Billy.king.mete@gmail.com ESalazar@friscoexs.com jmaynor@braunintertec.com

USE WASTE WATER REPORT FORMAT

FIELD INFORMATION: Raw Grab Samples Quarterly

RELINQUISHED BY: (Signature) <i>Eduardo Salazar</i>	REPRESENTING City of Frisco	DATE 1/7/22	TIME 9:30	RECEIVED BY: (Signature) <i>Harli F. Famine</i>	REPRESENTING JCS6	DATE 1/7/22	TIME 9:30
RELINQUISHED BY: (Signature) <i>Harli F. Famine</i>	REPRESENTING JCS6	DATE 1/7/22	TIME 10:07	RECEIVED BY: (Signature) <i>Harli F. Famine</i>	REPRESENTING OXIDOR	DATE 1/7/22	TIME 10:07

** TC = TIME COMPOSITE (96 PARTS) FC = FLOW WEIGHTED COMPOSITE (96 PARTS) G = GRAB

1.4°C OX-104