Ramey, Ashleigh

From: Townsel, Michael <TownselM@HillsboroughCounty.ORG>
Sent: Monday, October 3, 2022 7:55 AM
To: Madden, Melissa
Cc: Chamberlain, Justin; SWD_Waste; Watson, Edward; Aguilar, Tiffany; Morales, Moises
Subject: Southeast County Landfill - Leachate Treatment Plant Quarterly Effluent Report, WACS ID: 19864
Attachments: 2022 - 2nd Qtr SELF Leachate Plant Effluent.pdf

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good Morning,

Please see attached the quarterly effluent report for the Southeast County Landfill. If you have any questions, please let me know.

Thank you!

Michael D. Townsel
Senior Hydrogeologist
Public Utilities Department – Environmental Services

P: (813) 663-3222
VOIP: 43955
E: townselm@HCFLGov.net
W: HCFLGov.net

Hillsborough County
332 N. Falkenburg Road, Tampa, FL 33619

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Hillsborough County Florida

PUBLIC UTILITIES
PO Box 1110
Tampa, FL 33601-1110

Southeast County Landfill
Leachate Treatment Plant
WACS Testsite #19864
Lithia, Florida

Effluent Quality Report
2nd Quarter 2022

Hillsborough County
Public Utilities Department
Environmental Services Division
332 North Falkenburg Road
Tampa, Florida 33619

Michael D. Townsel
10/3/2022 **Michael D. Townsel**
Hydrologist
Environmental Services Division
Public Utilities Department

Southeast County Landfill Leachate Treatment Plant
Effluent Quality Report – Second Quarter 2022
WACS Testsite #19864

Southeast Landfill Quarterly Results (April-June 2022)

In accordance with Southeast County Landfill (SCLF) permit modification 35435-29-SO-MM, dated May 24, 2021, the Hillsborough County Public Utilities Department (County), has prepared the quarterly effluent results for the SCLF leachate treatment plant (LTP), located at 15960 County Road 672 in Lithia, Florida.

Effluent pH was recorded from 6.89 to 8.24 pH units by LTP personnel, and the calibration logs are exhibited as part of the submittal. However, during various times for the month of April and May, effluent pH was not recorded as the treatment system was offline for pump repair and maintenance or no effluent was present.

Monthly sampling of the effluent and the daily recording of the plant pH values were conducted as required by the referenced LTP. County personnel collected the effluent samples from the designated sampling port on April 19 and May 11, 2022, for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Nitrate, and field parameters. On June 8 and June 22, 2022, the plant effluent was analyzed for the Primary and Secondary Drinking Water Standards and Priority Pollutant Metals. All effluent samples were analyzed by our contract laboratory, Advanced Environmental Laboratories, Inc. and is consistent with the historical data at the plant.

PH Calibration Log

Month	4/22					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1						
2						
3						
4	4.00	7.00	10.00	7.75	7.78	——
5	4.00	7.00	10.00	7.77	7.81	8.60 *
6	4.00	7.00	10.00	7.76	7.75	7.30
7	4.00	7.00	10.00	7.81	7.54	8.12
8	4.00	7.00	10.00	7.82	7.57	7.91
9						8.00
10						
11	4.00	7.00	10.00	7.76	7.56	8.45
12	4.00	7.00	10.00	7.51	7.55	8.37
13	4.00	7.00	10.00	7.58	7.41	8.40
14	4.00	7.00	10.00	7.58	7.85	8.57
15	4.00	7.00	10.00	7.50	7.72	8.82 *
16						
17						
18	4.00	7.00	10.00	7.60	7.65	8.10
19	4.00	7.00	10.00	7.63	7.56	8.25
20	4.00	7.00	10.00	7.62	7.53	8.32
21	4.00	7.00	10.00	7.65	7.52	8.55
22	4.00	7.00	10.00	7.70	7.59	9.30
23						
24						
25	4.00	7.00	10.00	7.66	7.14	8.41
26	4.00	7.00	10.00	7.70	7.47	8.55
27	4.00	7.00	10.00	7.69	7.39	8.57
28	4.00	7.00	10.00	7.66	7.53	8.79
29						
30						
31						

PH Calibration Log

Month	5/22					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1						
2	4.00	7.00	10.00	7.65	6.89	7.87
3	4.00	7.00	10.00	7.69	7.05	7.85
4	4.00	7.00	10.00	7.71	7.21	—
5	4.00	7.00	10.00	7.75	N/A	7.81
6	4.00	7.00	10.00	7.66	6.90	7.66
7						
8						
9	4.00	7.00	10.00	7.60	7.12	8.39
10	4.00	7.00	10.00	7.65	7.17	8.52
11	4.00	7.00	10.00	7.67	7.21	8.84
12	4.00	7.00	10.00	7.66	7.24	8.37
13	4.00	7.00	10.00	7.69	7.15	8.21
14						
15						
16	4.00	7.00	10.00	7.68	7.24	8.00
17	4.00	7.00	10.00	7.63	7.22	8.05
18	4.00	7.00	10.00	7.65	7.19	8.20
19	4.00	7.00	10.00	7.68	7.36	8.27
20	4.00	7.00	10.00	7.60	7.41	8.30
21						
22						
23	4.00	7.00	10.00	7.57	7.31	8.65
24	4.00	7.00	10.00	—	—	8.37
25	4.00	7.00	10.00	—	—	8.51
26	4.00	7.00	10.00	7.69	7.4	8.49
27	4.00	7.00	10.00	7.61	7.39	
28						8:33
29						8:39
30						
31	4.00	7.00	10.00	7.65	7.48	

PH Calibration Log

Month	6/22					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.00	10.00	7.60	7.28	8.30
2	4.00	7.00	10.00	7.60	7.45	8.34
3	4.00	7.00	10.00	7.55	7.51	8.31
4						
5						
6	4.00	7.00	10.00	7.61	7.32	8.45
7	4.00	7.00	10.00	7.69	7.85	8.22
8	4.00	7.00	10.00	7.62	7.91	8.29
9	4.00	7.00	10.00	7.71	7.85	8.40
10	4.00	7.00	10.00	7.71	7.87	8.51
11	4.00	7.00	10.00	—	—	8.32
12						
13	4.00	7.00	10.00	7.67	8.04	8.37
14	4.00	7.00	10.00	7.70	7.95	8.45
15	4.00	7.00	10.00	7.43	7.73	8.28
16	4.00	7.00	10.00	7.62	8.01	8.31
17	4.00	7.00	10.00	7.67	8.07	8.42
18						
19						
20	4.00	7.00	10.00	7.81	8.04	8.51
21	4.00	7.00	10.00	7.72	8.00	8.43
22	4.00	7.00	10.00	7.81	8.17	8.42
23	4.00	7.00	10.00	7.76	8.05	8.47
24	4.00	7.00	10.00	7.86	8.15	8.40
25						
26						
27	4.00	7.00	10.00	7.81	8.00	8.41
28	4.00	7.00	10.00	7.93	8.19	—
29	4.00	7.00	10.00	7.85	8.06	—
30	4.00	7.00	10.00	7.78	8.24	8.34
31						

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (813) 630-9616
Fax: (813) 630-4327

FINAL

Workorder: SELF Plant Effluent (T2207812)

May 10, 2022

Michael Townsel
Hillsborough Co Public Utilites
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T2207812 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday April 19, 2022. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heidi Parker

Heidi Parker, Project Manager
HParker@aellab.com

Certificate of Analysis

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Workorder: SELF Plant Effluent (T2207812)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
T2207812001	Leachate Effluent	WA	EPA 410.4	04/19/2022 13:03	04/19/2022 14:56	1	NA
T2207812001	Leachate Effluent	WA	Field Measurements	04/19/2022 13:03	04/19/2022 14:56	5	NA
T2207812001	Leachate Effluent	WA	SM 2540 C	04/19/2022 13:03	04/19/2022 14:56	1	NA
T2207812001	Leachate Effluent	WA	SM 2540D	04/19/2022 13:03	04/19/2022 14:56	1	NA
T2207812001	Leachate Effluent	WA	SM 4500NO3-F	04/19/2022 13:03	04/19/2022 14:56	1	NA
T2207812001	Leachate Effluent	WA	SM 5210B	04/19/2022 13:03	04/19/2022 14:56	1	NA
T2207812002	Field Blank	WA	EPA 410.4	04/19/2022 13:20	04/19/2022 14:56	1	NA
T2207812002	Field Blank	WA	SM 2540 C	04/19/2022 13:20	04/19/2022 14:56	1	NA
T2207812002	Field Blank	WA	SM 2540D	04/19/2022 13:20	04/19/2022 14:56	1	NA
T2207812002	Field Blank	WA	SM 4500NO3-F	04/19/2022 13:20	04/19/2022 14:56	1	NA
T2207812002	Field Blank	WA	SM 5210B	04/19/2022 13:20	04/19/2022 14:56	1	NA

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Workorder: SELF Plant Effluent (T2207812)

Analytical Results Qualifiers

Parameter Qualifiers

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Lab Qualifiers

T^	Not Certified
T	DOH Certification #E84589 (FL NELAC) AEL-Tampa

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Workorder: SELF Plant Effluent (T2207812)

Analytical Results

Lab ID: T2207812001 **Date Collected:** 04/19/2022 13:03 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 04/19/2022 14:56

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (Field Measurements)								
Conductivity	**21358**	umhos/cm			1	04/19/2022 13:03	04/19/2022 13:03	
Dissolved Oxygen	**4.3**	mg/L			1	04/19/2022 13:03	04/19/2022 13:03	
ORP-2580BW	**115.7**	mV			1	04/19/2022 13:03	04/19/2022 13:03	
Temperature	**29**	°C			1	04/19/2022 13:03	04/19/2022 13:03	
pH	**7.76**	SU			1	04/19/2022 13:03	04/19/2022 13:03	
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	**1160**	mg/L	50	20	1	04/20/2022 15:30	04/20/2022 15:30	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	**12900**	mg/L	10	10	1	04/25/2022 11:00	04/25/2022 11:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	**32**	mg/L	2	2.0	2	04/21/2022 09:00	04/21/2022 09:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	**148**	mg/L	12	12	125	04/20/2022 16:03	04/20/2022 16:03	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	**9.5**	mg/L	2	2.0	1	04/20/2022 13:11	04/20/2022 13:11	T

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Workorder: SELF Plant Effluent (T2207812)

Analytical Results

Lab ID: T2207812002 **Date Collected:** 04/19/2022 13:20 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 04/19/2022 14:56

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	20 U	mg/L	50	20	1	04/20/2022 15:30	04/20/2022 15:30	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	10 U	mg/L	10	10	1	04/25/2022 11:00	04/25/2022 11:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	1.0 U	mg/L	1	1.0	1	04/21/2022 09:00	04/21/2022 09:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	0.092 U	mg/L	0.1	0.092	1	04/20/2022 15:24	04/20/2022 15:24	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	2.0 U	mg/L	2	2.0	1	04/20/2022 13:21	04/20/2022 13:21	T

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FINAL

Workorder: SELF Plant Effluent (T2207812)

QC Results

QC Batch: WCAt/11690
Preparation Method: EPA 410.4
Associated Lab IDs: T2207812001, T2207812002
Analysis Method: EPA 410.4

Method Blank(4284089)

Parameter	Results	Units	PQL	MDL	Lab
Chemical Oxygen Demand	20 U	mg/L	50	20	T

Lab Control Sample (4284090)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chemical Oxygen Demand	mg/L	500	499	100	90 - 110	T

Matrix Spike (4284096); Matrix Spike Duplicate (4284097); Parent Lab Sample (T2207434001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	965	103	90 - 110	965	103	0	10	T

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Workorder: SELF Plant Effluent (T2207812)

QC Results

QC Batch: WCAt/11693
Preparation Method: SM 4500NO3-F
Associated Lab IDs: T2207812001, T2207812002
Analysis Method: SM 4500NO3-F

Method Blank(4284353)

Parameter	Results	Units	PQL	MDL	Lab
Nitrate (as N)	0.092 U	mg/L	0.10	0.092	T

Lab Control Sample (4284354)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrate (as N)	mg/L	1	1	103	90 - 110	T

Matrix Spike (4284355); Matrix Spike Duplicate (4284356); Parent Lab Sample (T2207800001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	1	1	102	90 - 110	1	106	4	10	T

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Workorder: SELF Plant Effluent (T2207812)

QC Results

QC Batch: WCAt/11702
Preparation Method: SM 5210B
Associated Lab IDs: T2207812001, T2207812002
Analysis Method: SM 5210B

Method Blank(4284745)

Parameter	Results	Units	PQL	MDL	Lab
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	T

Lab Control Sample (4284746)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Biochemical Oxygen Demand	mg/L	198	199	100	84.60 - 115.40	T

Sample Duplicate (4284747)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Biochemical Oxygen Demand	2168.87	2209.2	mg/L	2	20	T

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Workorder: SELF Plant Effluent (T2207812)

QC Results

QC Batch: WCAt/11723
Preparation Method: SM 2540D
Associated Lab IDs: T2207812001, T2207812002
Analysis Method: SM 2540D

Method Blank(4285404)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	T

Lab Control Sample (4285405)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	216	108	85 - 115	T

Sample Duplicate (4285406)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	208	204	mg/L	2	10	T

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Workorder: SELF Plant Effluent (T2207812)

QC Results

QC Batch: WCAt/11786
Preparation Method: SM 2540 C
Associated Lab IDs: T2207812001, T2207812002
Analysis Method: SM 2540 C

Method Blank(4288433)

Parameter	Results	Units	PQL	MDL	Lab
Total Dissolved Solids	10 U	mg/L	10	10	T

Lab Control Sample (4288434)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	696	105	85 - 115	T

Sample Duplicate (4288435)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	386	410	mg/L	6	10	T

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Workorder: SELF Plant Effluent (T2207812)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/11690 - EPA 410.4			
T2207812001	Leachate Effluent		
T2207812002	Field Blank		
WCAt/11693 - SM 4500NO3-F			
T2207812001	Leachate Effluent		
T2207812002	Field Blank		
WCAt/11702 - SM 5210B			
T2207812001	Leachate Effluent		
T2207812002	Field Blank		
WCAt/11723 - SM 2540D			
T2207812001	Leachate Effluent		
T2207812002	Field Blank		
WCAt/11786 - SM 2540 C			
T2207812001	Leachate Effluent		
T2207812002	Field Blank		

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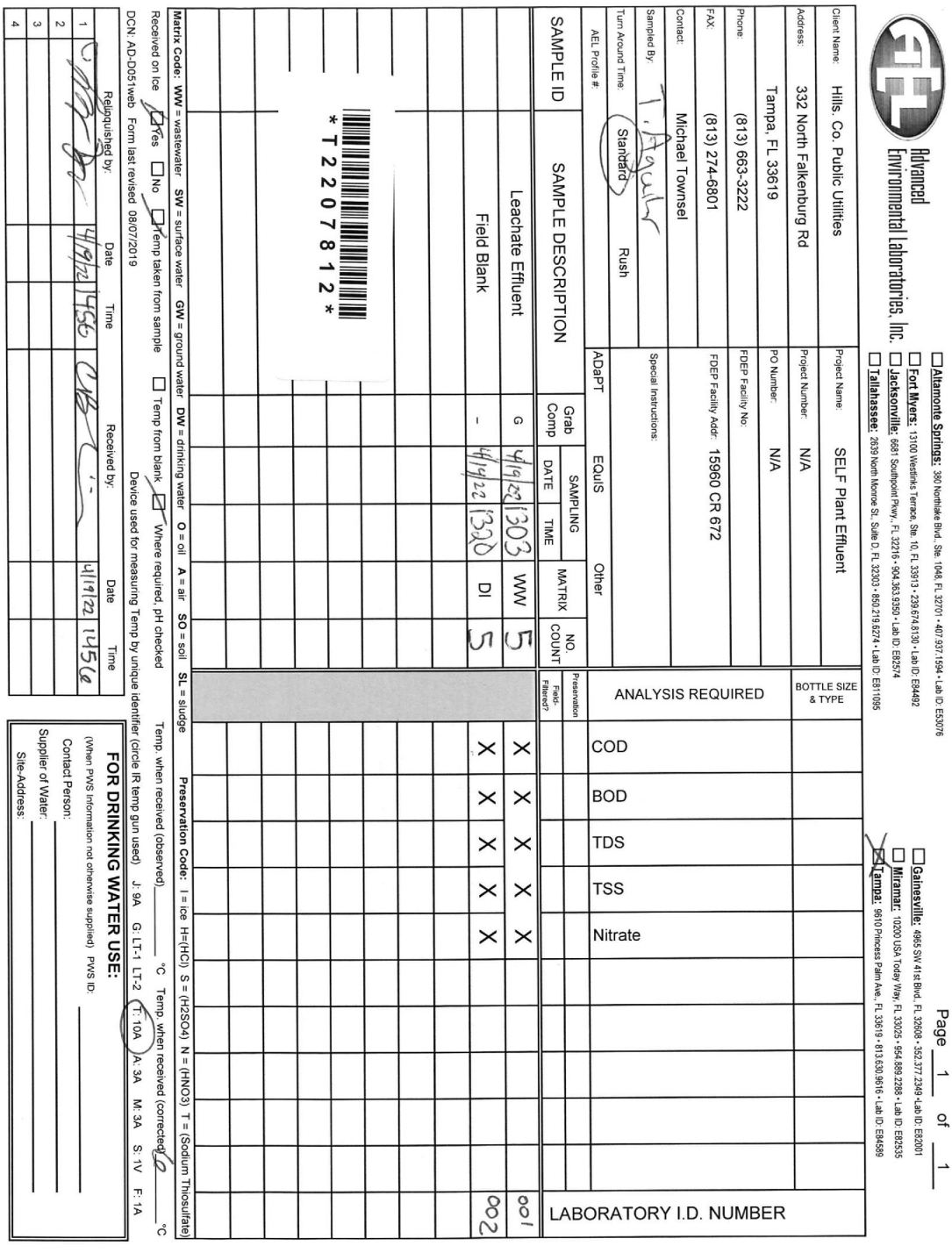
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Workorder: SELF Plant Effluent (T2207812)



Advanced Environmental Laboratories, Inc

☐ Altamonte Springs: 380 Northlake Blvd. Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E53076
☐ Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E81095
☐ Gainesville: 4955 SW 41st Blvd, FL 32608 • 352.377.2349 • Lab ID: E82001
☐ Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
☒ Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

Page 1 of 1

Client Name: Hills. Co. Public Utilities
Address: 332 North Falkenburg Rd
Tampa, FL 33619
Phone: (813) 663-3222
FAX: (813) 274-6801
Contact: Michael Townsel
Sampled By: T. Faulk
Turn Around Time: Standard Rush
AEL Profile #:

Project Name: SELF Plant Effluent
Project Number: N/A
PO Number: N/A
FDEP Facility No:
FDEP Facility Addr: 15960 CR 672
Special Instructions:

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	Preservation Field-Filtered?	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
	Leachate Effluent	G	4/19/22	1303	WW	5		COD		001
	Field Blank	-	4/19/22	1320	DI	5		BOD		002
								TDS		
								TSS		
								Nitrate		

ADaPT EQuIS Other

* T 2 2 0 7 8 1 2 *

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice: ☐ Yes ☐ No Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked
Temp. when received (observed)_____ °C Temp. when received (corrected) 2.0 °C
DCN: AD-D051web Form last revised 08/07/2019 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		4/19/22	1456		4/19/22	1456
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person:
Supplier of Water:
Site Address:

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FINAL

Workorder: SELF Plant Effluent (T2207812)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent	SAMPLE ID: Leachate Effluent	DATE: 4/19/2022

PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: Valve

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

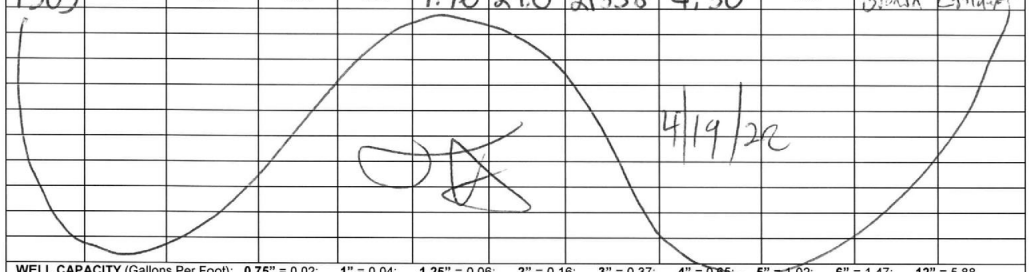
= (N/A feet – N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: N/A	PURGING ENDED AT: N/A	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1303	N/A	N/A	N/A	N/A	7.76	29.0	21358	4.30	N/A	Brown	Effluent



WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Aguilar	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1303	SAMPLING ENDED AT: 1306
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS** ORP: (115.7) 1303

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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FINAL

Workorder: SELF Plant Effluent (T2207812)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Field Blank	SAMPLE ID: Field Blank	DATE: 4/19/22

PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

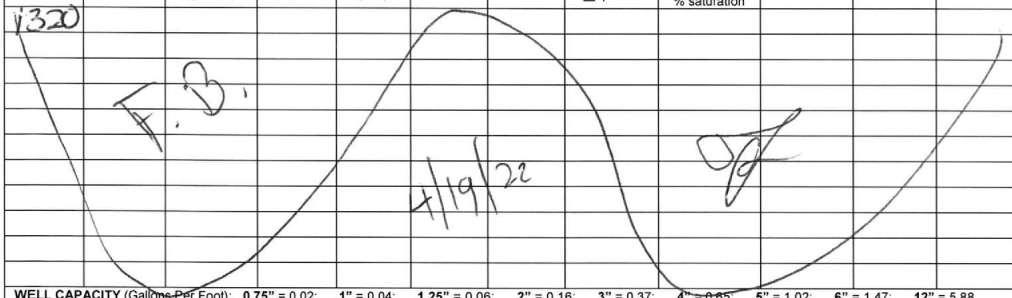
= (N/A feet – N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: N/A	PURGING ENDED AT: N/A	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1320											



WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Aguilar	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: 1322
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS**

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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FINAL

Workorder: SELF Plant EFF (T2209494)

June 13, 2022

Michael Townsel
Hillsborough Co Public Utilites
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T2209494 SELF Plant EFF

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday May 11, 2022. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heidi Parker

Heidi Parker, Project Manager
HParker@aellab.com

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Workorder: SELF Plant EFF (T2209494)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
T2209494001	Leachate Effluent	WA	EPA 410.4	05/11/2022 10:32	05/11/2022 13:44	1	NA
T2209494001	Leachate Effluent	WA	Field Measurements	05/11/2022 10:32	05/11/2022 13:44	5	NA
T2209494001	Leachate Effluent	WA	SM 2540 C	05/11/2022 10:32	05/11/2022 13:44	1	NA
T2209494001	Leachate Effluent	WA	SM 2540D	05/11/2022 10:32	05/11/2022 13:44	1	NA
T2209494001	Leachate Effluent	WA	SM 4500NO3-F	05/11/2022 10:32	05/11/2022 13:44	1	NA
T2209494001	Leachate Effluent	WA	SM 5210B	05/11/2022 10:32	05/11/2022 13:44	1	NA
T2209494002	Field Blank	WA	EPA 410.4	05/11/2022 09:48	05/11/2022 13:44	1	NA
T2209494002	Field Blank	WA	SM 2540 C	05/11/2022 09:48	05/11/2022 13:44	1	NA
T2209494002	Field Blank	WA	SM 2540D	05/11/2022 09:48	05/11/2022 13:44	1	NA
T2209494002	Field Blank	WA	SM 4500NO3-F	05/11/2022 09:48	05/11/2022 13:44	1	NA
T2209494002	Field Blank	WA	SM 5210B	05/11/2022 09:48	05/11/2022 13:44	1	NA

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FINAL

Workorder: SELF Plant EFF (T2209494)

Analytical Results Qualifiers

Parameter Qualifiers

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Lab Qualifiers

T^	Not Certified
T	DOH Certification #E84589 (FL NELAC) AEL-Tampa

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Workorder: SELF Plant EFF (T2209494)

Analytical Results

Lab ID: T2209494001 **Date Collected:** 05/11/2022 10:32 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 05/11/2022 13:44

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (Field Measurements)								
Conductivity	**26183**	umhos/cm			1	05/11/2022 10:32	05/11/2022 10:32	
Dissolved Oxygen	**2.96**	mg/L			1	05/11/2022 10:32	05/11/2022 10:32	
ORP-2580BW	**152.2**	mV			1	05/11/2022 10:32	05/11/2022 10:32	
Temperature	**25.5**	°C			1	05/11/2022 10:32	05/11/2022 10:32	
pH	**7.97**	SU			1	05/11/2022 10:32	05/11/2022 10:32	
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	**2260**	mg/L	50	20	1	05/16/2022 14:40	05/16/2022 14:40	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	**17100**	mg/L	10	10	1	05/16/2022 12:00	05/16/2022 12:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	**74**	mg/L	2	2.0	2	05/18/2022 10:00	05/18/2022 10:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	**360**	mg/L	12	12	125	05/11/2022 21:28	05/11/2022 21:28	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	**11**	mg/L	2	2.0	1	05/11/2022 15:58	05/11/2022 15:58	T

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FINAL

Workorder: SELF Plant EFF (T2209494)

Analytical Results

Lab ID: T2209494002 **Date Collected:** 05/11/2022 09:48 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 05/11/2022 13:44

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	20 U	mg/L	50	20	1	05/16/2022 14:40	05/16/2022 14:40	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	10 U	mg/L	10	10	1	05/16/2022 12:00	05/16/2022 12:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	1.0 U	mg/L	1	1.0	1	05/16/2022 14:00	05/16/2022 14:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	0.092 U	mg/L	0.10	0.092	1	05/11/2022 21:29	05/11/2022 21:29	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	2.0 U	mg/L	2	2.0	1	05/11/2022 16:04	05/11/2022 16:04	T

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FINAL

Workorder: SELF Plant EFF (T2209494)

QC Results

QC Batch: WCAt/12151
Preparation Method: SM 5210B
Associated Lab IDs: T2209494001, T2209494002
Analysis Method: SM 5210B

Method Blank(4310411)

Parameter	Results	Units	PQL	MDL	Lab
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	T

Lab Control Sample (4310412)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Biochemical Oxygen Demand	mg/L	198	195	98	84.60 - 115.40	T

Sample Duplicate (4310413)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Biochemical Oxygen Demand	502.94	441.41	mg/L	13	20	T

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Workorder: SELF Plant EFF (T2209494)

QC Results

QC Batch: WCAt/12168
Preparation Method: SM 4500NO3-F
Associated Lab IDs: T2209494001, T2209494002
Analysis Method: SM 4500NO3-F

Method Blank(4311129)

Parameter	Results	Units	PQL	MDL	Lab
Nitrate (as N)	0.092 U	mg/L	0.10	0.092	T

Lab Control Sample (4311130)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrate (as N)	mg/L	1	1	104	90 - 110	T

Matrix Spike (4311131); Matrix Spike Duplicate (4311132); Parent Lab Sample (T2209435001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	1	1.9	99	90 - 110	1.9	100	1	10	T

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Workorder: SELF Plant EFF (T2209494)

QC Results

QC Batch: WCAt/12218
Preparation Method: SM 2540 C
Associated Lab IDs: T2209494001, T2209494002
Analysis Method: SM 2540 C

Method Blank(4315146)

Parameter	Results	Units	PQL	MDL	Lab
Total Dissolved Solids	10 U	mg/L	10	10	T

Lab Control Sample (4315147)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	672	102	85 - 115	T

Sample Duplicate (4315148)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	348	346	mg/L	1	10	T

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FINAL

Workorder: SELF Plant EFF (T2209494)

QC Results

QC Batch: WCAt/12221
Preparation Method: EPA 410.4
Associated Lab IDs: T2209494001, T2209494002
Analysis Method: EPA 410.4

Method Blank(4315311)

Parameter	Results	Units	PQL	MDL	Lab
Chemical Oxygen Demand	20 U	mg/L	50	20	T

Lab Control Sample (4315312)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chemical Oxygen Demand	mg/L	500	498	100	90 - 110	T

Matrix Spike (4315314); Matrix Spike Duplicate (4315315); Parent Lab Sample (S2201187001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	492	98	90 - 110	492	98	0	10	T

Matrix Spike (4315318); Matrix Spike Duplicate (4315319); Parent Lab Sample (T2209519001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	838	99	90 - 110	838	99	0	10	T

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FINAL

Workorder: SELF Plant EFF (T2209494)

QC Results

QC Batch: WCAt/12230
Preparation Method: SM 2540D
Associated Lab IDs: T2209494002
Analysis Method: SM 2540D

Method Blank(4315912)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	T

Lab Control Sample (4315913)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	170	85	85 - 115	T

Sample Duplicate (4315914)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	2610	2370	mg/L	10	10	T

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FINAL

Workorder: SELF Plant EFF (T2209494)

QC Results

QC Batch: WCAt/12231
Preparation Method: SM 2540D
Associated Lab IDs: T2209494001
Analysis Method: SM 2540D

Method Blank(4315915)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	T

Lab Control Sample (4315916)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	214	107	85 - 115	T

Sample Duplicate (4315917)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	300	320	mg/L	6	10	T

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FINAL

Workorder: SELF Plant EFF (T2209494)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/12151 - SM 5210B			
T2209494001	Leachate Effluent		
T2209494002	Field Blank		
WCAt/12168 - SM 4500NO3-F			
T2209494001	Leachate Effluent		
T2209494002	Field Blank		
WCAt/12218 - SM 2540 C			
T2209494001	Leachate Effluent		
T2209494002	Field Blank		
WCAt/12221 - EPA 410.4			
T2209494001	Leachate Effluent		
T2209494002	Field Blank		
WCAt/12230 - SM 2540D			
T2209494002	Field Blank		
WCAt/12231 - SM 2540D			
T2209494001	Leachate Effluent		

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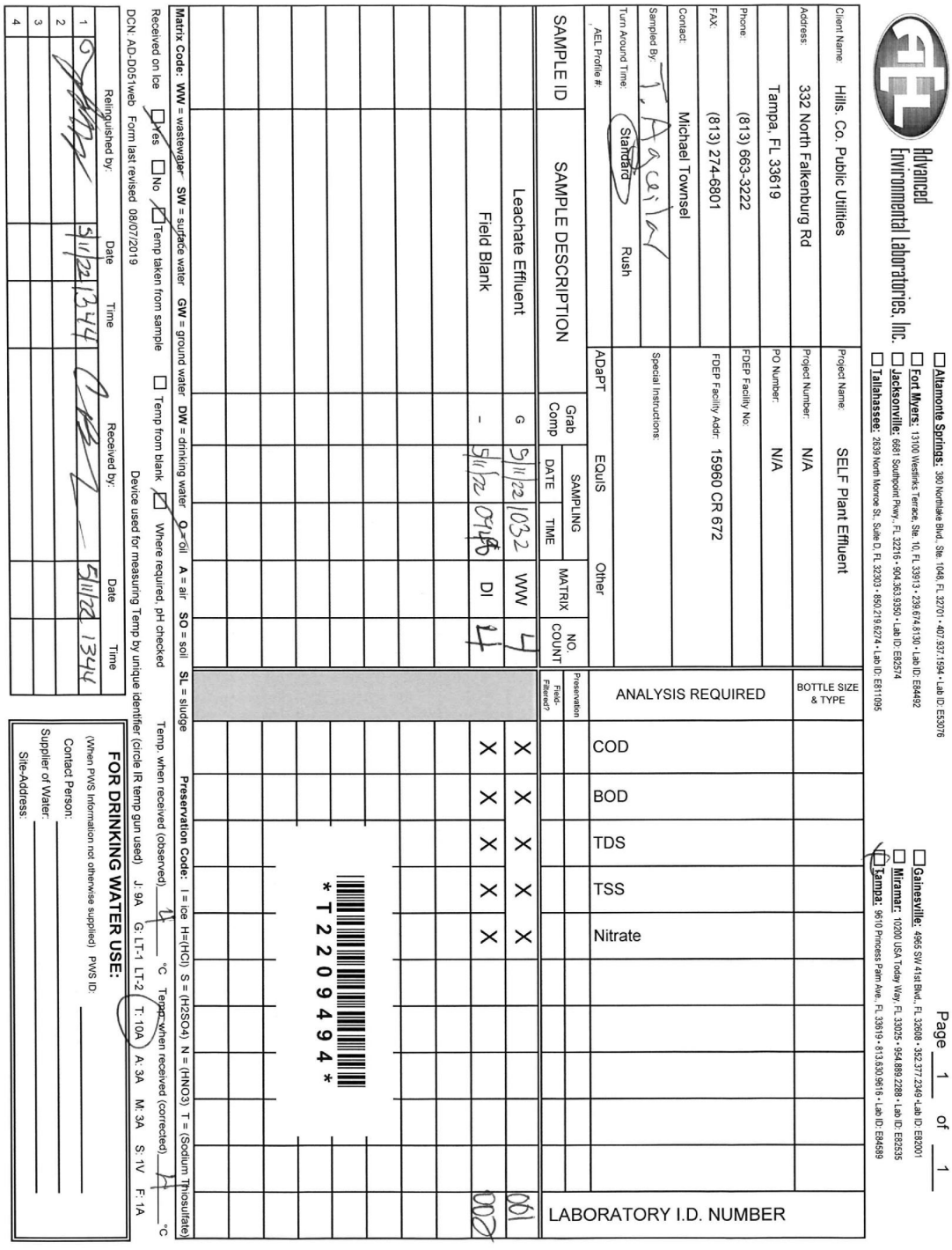
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FINAL

Workorder: SELF Plant EFF (T2209494)



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☐ Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E81095
☐ Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
☐ Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
☐ Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

Page 1 of 1

Client Name:	Hills. Co. Public Utilities
Address:	332 North Falkenburg Rd
	Tampa, FL 33619
Phone:	(813) 663-3222
FAX:	(813) 274-6801
Contact:	Michael Townsel
Sampled By:	T. Aguilar
Turn Around Time:	Standard Rush
AEL Profile #:	
Project Name:	SELF Plant Effluent
Project Number:	N/A
PO Number:	N/A
FDEP Facility No:	
FDEP Facility Addr:	15960 CR 672
Special Instructions:	
ADaPT	EQuIS
Other	

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	Preservation	Field-Filtered?	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
	Leachate Effluent	G	5/11/22	1032	WW	4			COD		001
	Field Blank	-	5/11/22	0948	DI	4			BOD		002
									TDS		
									TSS		
									Nitrate		

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = Oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked

Temp. when received (observed) 4 °C Temp. when received (corrected) 4 °C

DCN: AD-D051web Form last revised 08/07/2019 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		5/11/22	1344		5/11/22	1344
2						
3						
4						

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID:

Contact Person:

Supplier of Water:

Site-Address:

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Fax: (813) 630-4327

FINAL

Workorder: SELF Plant EFF (T2209494)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Field Blank	SAMPLE ID: Field Blank	DATE: 5/11/22

PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (N/A feet – N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: N/A	PURGING ENDED AT: N/A	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

F.B.
DA
5/11/22

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Aguilar	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 948	SAMPLING ENDED AT: 950
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS**

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Fax: (813) 630-4327

FINAL

Workorder: SELF Plant EFF (T2209494)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent	SAMPLE ID: Leachate Effluent	DATE: 5/11/22

PURGING DATA

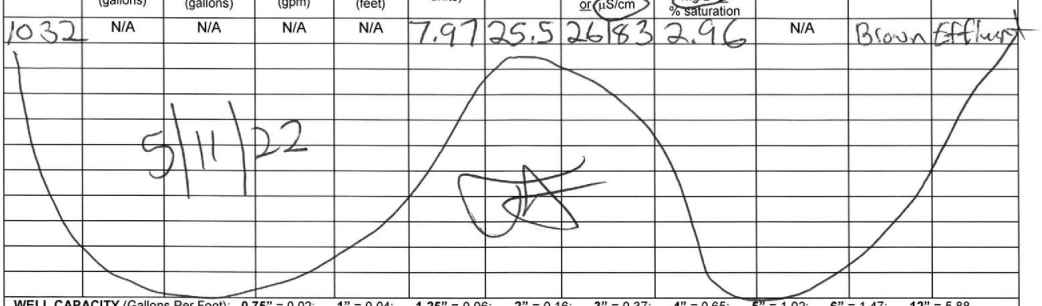
WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: Valve

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (N/A feet – N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: N/A	PURGING ENDED AT: N/A	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1032	N/A	N/A	N/A	N/A	7.97	25.5	2618 3	2.96	N/A	Brown	Effluent



WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Aguilar	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1032	SAMPLING ENDED AT: 1037
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS** ORP: (152.2) 1032

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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FINAL

Workorder: SELF Plant Effluent (T2211414)

July 20, 2022

Michael Townsel
Hillsborough Co Public Utilites
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T2211414 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday June 8, 2022. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heidi Parker

Heidi Parker, Project Manager
HParker@aellab.com

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
T2211414001	Leachate Effluent	WA	EPA 200.7	06/08/2022 10:25	06/08/2022 13:53	8	NA
T2211414001	Leachate Effluent	WA	EPA 200.8	06/08/2022 10:25	06/08/2022 13:53	10	NA
T2211414001	Leachate Effluent	WA	EPA 245.1	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	EPA 300.0	06/08/2022 10:25	06/08/2022 13:53	3	NA
T2211414001	Leachate Effluent	WA	EPA 410.4	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	EPA 504.1	06/08/2022 10:25	06/08/2022 13:53	2	NA
T2211414001	Leachate Effluent	WA	EPA 508	06/08/2022 10:25	06/08/2022 13:53	10	NA
T2211414001	Leachate Effluent	WA	EPA 515.3	06/08/2022 10:25	06/08/2022 13:53	6	NA
T2211414001	Leachate Effluent	WA	EPA 524.2	06/08/2022 10:25	06/08/2022 13:53	26	NA
T2211414001	Leachate Effluent	WA	EPA 525.2	06/08/2022 10:25	06/08/2022 13:53	6	NA
T2211414001	Leachate Effluent	WA	EPA 531.1	06/08/2022 10:25	06/08/2022 13:53	2	NA
T2211414001	Leachate Effluent	WA	EPA 547	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	EPA 548.1	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	EPA 549.2	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	EPA 8081	06/08/2022 10:25	06/08/2022 13:53	12	NA
T2211414001	Leachate Effluent	WA	Field Measurements	06/08/2022 10:25	06/08/2022 13:53	5	NA
T2211414001	Leachate Effluent	WA	SM 2120 B	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 2150 B	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 2540 C	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 2540D	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 3500-CR D	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 4500-CN-E	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 4500H+B	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 4500NO3-F	06/08/2022 10:25	06/08/2022 13:53	2	NA
T2211414001	Leachate Effluent	WA	SM 5210B	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SM 5540 C	06/08/2022 10:25	06/08/2022 13:53	1	NA
T2211414001	Leachate Effluent	WA	SW-846 8082A	06/08/2022 10:25	06/08/2022 13:53	7	NA
T2211414001	Leachate Effluent	WA	SW-846 8260B	06/08/2022 10:25	06/08/2022 13:53	10	NA
T2211414001	Leachate Effluent	WA	SW-846 8270C	06/08/2022 10:25	06/08/2022 13:53	49	NA
T2211414002	Field Blank	WA	EPA 200.7	06/08/2022 09:33	06/08/2022 13:53	8	NA
T2211414002	Field Blank	WA	EPA 200.8	06/08/2022 09:33	06/08/2022 13:53	10	NA
T2211414002	Field Blank	WA	EPA 245.1	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	EPA 300.0	06/08/2022 09:33	06/08/2022 13:53	3	NA
T2211414002	Field Blank	WA	EPA 410.4	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	EPA 504.1	06/08/2022 09:33	06/08/2022 13:53	2	NA

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Phone: (813) 630-9616
Fax: (813) 630-4327

FINAL

Workorder: SELF Plant Effluent (T2211414)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
T2211414002	Field Blank	WA	EPA 508	06/08/2022 09:33	06/08/2022 13:53	10	NA
T2211414002	Field Blank	WA	EPA 515.3	06/08/2022 09:33	06/08/2022 13:53	6	NA
T2211414002	Field Blank	WA	EPA 524.2	06/08/2022 09:33	06/08/2022 13:53	26	NA
T2211414002	Field Blank	WA	EPA 525.2	06/08/2022 09:33	06/08/2022 13:53	6	NA
T2211414002	Field Blank	WA	EPA 531.1	06/08/2022 09:33	06/08/2022 13:53	2	NA
T2211414002	Field Blank	WA	EPA 547	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	EPA 548.1	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	EPA 549.2	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	EPA 552.2	06/08/2022 09:33	06/08/2022 13:53	6	NA
T2211414002	Field Blank	WA	EPA 8081	06/08/2022 09:33	06/08/2022 13:53	12	NA
T2211414002	Field Blank	WA	SM 2120 B	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 2150 B	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 2540 C	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 2540D	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 3500-CR D	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 4500-CN-E	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 4500H+B	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 4500NO3-F	06/08/2022 09:33	06/08/2022 13:53	2	NA
T2211414002	Field Blank	WA	SM 5210B	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SM 5540 C	06/08/2022 09:33	06/08/2022 13:53	1	NA
T2211414002	Field Blank	WA	SW-846 8082A	06/08/2022 09:33	06/08/2022 13:53	7	NA
T2211414002	Field Blank	WA	SW-846 8260B	06/08/2022 09:33	06/08/2022 13:53	10	NA
T2211414002	Field Blank	WA	SW-846 8270C	06/08/2022 09:33	06/08/2022 13:53	49	NA

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Workorder Summary

Method Comments

COLR-SM-W

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Workorder: SELF Plant Effluent (T2211414)

Analytical Results Qualifiers

Parameter Qualifiers

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Q	Missed Hold Time
J3	Lab QC Failure

Lab Qualifiers

G	DOH Certification #E82001 (FL NELAC) AEL-Gainesville
J	DOH Certification #E82574 (FL NELAC) AEL-Jacksonville
M	DOH Certification #E82535 (FL NELAC) AEL-Miami
T	DOH Certification #E84589 (FL NELAC) AEL-Tampa
T^	Not Certified

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Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (Field Measurements)								
Conductivity	**26418**	umhos/cm			1	06/08/2022 10:25	06/08/2022 10:25	
Dissolved Oxygen	**1.96**	mg/L			1	06/08/2022 10:25	06/08/2022 10:25	
ORP-2580BW	**128.1**	mV			1	06/08/2022 10:25	06/08/2022 10:25	
Temperature	**30.1**	°C			1	06/08/2022 10:25	06/08/2022 10:25	
pH	**7.28**	SU			1	06/08/2022 10:25	06/08/2022 10:25	
METALS (EPA 200.7)								
Aluminum	**0.29**	mg/L	0.10	0.021	1	06/16/2022 11:00	06/16/2022 19:13	T
Barium	**0.28**	mg/L	0.010	0.0030	1	06/16/2022 11:00	06/16/2022 19:13	T
Beryllium	0.0020 U	mg/L	0.010	0.0020	1	06/16/2022 11:00	06/16/2022 19:13	T
Chromium	**0.011**	mg/L	0.010	0.0050	1	06/16/2022 11:00	06/16/2022 19:13	T
Iron	**8.2**	mg/L	0.10	0.0067	1	06/16/2022 11:00	06/16/2022 19:13	T
Nickel	**0.041**	mg/L	0.010	0.0080	1	06/16/2022 11:00	06/16/2022 19:13	T
Sodium	**4200**	mg/L	25	20	25	06/16/2022 11:00	06/20/2022 19:53	T
Zinc	**0.20**	mg/L	0.10	0.050	1	06/16/2022 11:00	06/16/2022 19:13	T
METALS (EPA 200.8)								
Antimony	0.020 U	mg/L	0.080	0.020	20	06/15/2022 09:08	06/23/2022 20:02	J
Arsenic	**0.012 I**	mg/L	0.020	0.0050	20	06/15/2022 09:08	06/23/2022 20:02	J
Cadmium	0.0050 U	mg/L	0.020	0.0050	20	06/15/2022 09:08	06/23/2022 20:02	J
Copper	**0.052 I**	mg/L	0.080	0.020	20	06/15/2022 09:08	06/23/2022 20:02	J
Lead	0.010 U	mg/L	0.040	0.010	20	06/15/2022 09:08	06/23/2022 20:02	J
Manganese	**0.45**	mg/L	0.080	0.020	20	06/15/2022 09:08	06/23/2022 20:02	J
Selenium	0.025 U	mg/L	0.10	0.025	20	06/15/2022 09:08	06/23/2022 20:02	J
Silver	0.010 U	mg/L	0.040	0.010	20	06/15/2022 09:08	06/23/2022 20:02	J
Thallium	0.0050 U	mg/L	0.020	0.0050	20	06/15/2022 09:08	06/23/2022 20:02	J
Uranium	4.0 U	ug/L	16	4.0	20	06/15/2022 09:08	06/23/2022 20:02	J
METALS (EPA 245.1)								

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Mercury	0.000011 U	mg/L	0.00010	0.000011	1	06/14/2022 09:00	06/15/2022 10:19	T
SEMIVOLATILES (EPA 504.1)								
1,2-Dibromo-3-Chloropropane	0.0049 U	ug/L	0.020	0.0049	1	06/16/2022 11:45	06/17/2022 00:25	T
Ethylene Dibromide (EDB)	0.0076 U	ug/L	0.020	0.0076	1	06/16/2022 11:45	06/17/2022 00:25	T
SEMIVOLATILES (EPA 508)								
Chlordane (technical)	0.053 U	ug/L	0.20	0.053	1	06/14/2022 08:00	06/16/2022 04:07	J
Endrin	0.0069 U	ug/L	0.020	0.0069	1	06/14/2022 08:00	06/16/2022 04:07	J
Heptachlor	0.0060 U	ug/L	0.020	0.0060	1	06/14/2022 08:00	06/16/2022 04:07	J
Heptachlor Epoxide	0.0052 U	ug/L	0.020	0.0052	1	06/14/2022 08:00	06/16/2022 04:07	J
Hexachlorobenzene	0.0063 U	ug/L	0.020	0.0063	1	06/14/2022 08:00	06/16/2022 04:07	J
Hexachlorocyclopentadiene	0.019 U	ug/L	0.020	0.019	1	06/14/2022 08:00	06/16/2022 04:07	J
Methoxychlor	0.0068 U	ug/L	0.020	0.0068	1	06/14/2022 08:00	06/16/2022 04:07	J
PCBs	0.093 U	ug/L	0.20	0.093	1	06/14/2022 08:00	06/16/2022 04:07	J
Toxaphene	0.12 U	ug/L	0.20	0.12	1	06/14/2022 08:00	06/16/2022 04:07	J
gamma-BHC (Lindane)	0.0071 U	ug/L	0.020	0.0071	1	06/14/2022 08:00	06/16/2022 04:07	J
SEMIVOLATILES (EPA 515.3)								
2,4-D	0.095 U	ug/L	5.0	0.095	1	06/14/2022 09:38	06/15/2022 05:13	J
Dalapon	0.90 U	ug/L	5.0	0.90	1	06/14/2022 09:38	06/15/2022 05:13	J
Dinoseb	0.18 U	ug/L	2.5	0.18	1	06/14/2022 09:38	06/15/2022 05:13	J
Pentachlorophenol	0.038 U	ug/L	0.50	0.038	1	06/14/2022 09:38	06/15/2022 05:13	J
Picloram	0.090 U	ug/L	0.50	0.090	1	06/14/2022 09:38	06/15/2022 05:13	J
Silvex (2,4,5-TP)	0.090 U	ug/L	1.0	0.090	1	06/14/2022 09:38	06/15/2022 05:13	J
SEMIVOLATILES (EPA 525.2)								
Alachlor	0.31 U	ug/L	1.0	0.31	1	06/21/2022 10:12	06/22/2022 00:35	J
Atrazine	0.18 U	ug/L	1.0	0.18	1	06/21/2022 10:12	06/22/2022 00:35	J
Benzo[a]pyrene	0.031 U	ug/L	1.0	0.031	1	06/21/2022 10:12	06/22/2022 00:35	J
Di(2-ethylhexyl) adipate	1.0 U	ug/L	2.0	1.0	1	06/21/2022 10:12	06/22/2022 00:35	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Simazine	0.12 U	ug/L	1.0	0.12	1	06/21/2022 10:12	06/22/2022 00:35	J
bis(2-Ethylhexyl) phthalate	1.0 U	ug/L	4.1	1.0	1	06/21/2022 10:12	06/22/2022 00:35	J
SEMIVOLATILES (EPA 531.1)								
Carbofuran	0.51 U	ug/L	2.5	0.51	1	06/16/2022 08:03	06/16/2022 08:03	J
Oxamyl	1.8 U	ug/L	2.5	1.8	1	06/16/2022 08:03	06/16/2022 08:03	J
SEMIVOLATILES (EPA 547)								
Glyphosate	5.9 U	ug/L	50	5.9	1	06/09/2022 21:54	06/09/2022 21:54	J
SEMIVOLATILES (EPA 548.1)								
Endothall	6.0 U	ug/L	8.0	6.0	1	06/13/2022 09:18	06/15/2022 13:28	J
SEMIVOLATILES (EPA 549.2)								
Diquat	0.37 U	ug/L	5.0	0.37	1	06/09/2022 09:44	06/09/2022 19:29	J
SEMIVOLATILES (SW-846 3510C/EPA 8081)								
4,4`-DDD	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
4,4`-DDE	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
4,4`-DDT	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
Aldrin	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
Dieldrin	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
Endosulfan I	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
Endosulfan II	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
Endosulfan Sulfate	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
Endrin Aldehyde	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
alpha-BHC	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
beta-BHC	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
delta-BHC	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 09:45	M
SEMIVOLATILES (SW-846 3510C/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.15 U	ug/L	0.20	0.15	1	06/14/2022 08:30	06/15/2022 09:45	M
Aroclor 1221 (PCB-1221)	0.13 U	ug/L	0.20	0.13	1	06/14/2022 08:30	06/15/2022 09:45	M
Aroclor 1232 (PCB-1232)	0.19 U	ug/L	0.20	0.19	1	06/14/2022 08:30	06/15/2022 09:45	M

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Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Aroclor 1242 (PCB-1242)	0.17 U	ug/L	0.20	0.17	1	06/14/2022 08:30	06/15/2022 09:45	M
Aroclor 1248 (PCB-1248)	0.16 U	ug/L	0.20	0.16	1	06/14/2022 08:30	06/15/2022 09:45	M
Aroclor 1254 (PCB-1254)	0.040 U	ug/L	0.20	0.040	1	06/14/2022 08:30	06/15/2022 09:45	M
Aroclor 1260 (PCB-1260)	0.15 U	ug/L	0.20	0.15	1	06/14/2022 08:30	06/15/2022 09:45	M
SEMIVOLATILES (SW-846 3510C/SW-846 8270C)								
1,2-Diphenylhydrazine	0.96 U	ug/L	5.0	0.96	1	06/13/2022 13:00	06/15/2022 04:58	J
2,4,6-Trichlorophenol	1.4 U	ug/L	5.0	1.4	1	06/13/2022 13:00	06/15/2022 04:58	J
2,4-Dichlorophenol	0.90 U	ug/L	5.0	0.90	1	06/13/2022 13:00	06/15/2022 04:58	J
2,4-Dimethylphenol	2.6 U	ug/L	5.0	2.6	1	06/13/2022 13:00	06/15/2022 04:58	J
2,4-Dinitrophenol	1.1 U	ug/L	10	1.1	1	06/13/2022 13:00	06/15/2022 04:58	J
2,4-Dinitrotoluene (2,4-DNT)	1.8 U	ug/L	5.0	1.8	1	06/13/2022 13:00	06/15/2022 04:58	J
2,6-Dinitrotoluene (2,6-DNT)	2.0 U	ug/L	5.0	2.0	1	06/13/2022 13:00	06/15/2022 04:58	J
2-Chloronaphthalene	1.7 U	ug/L	5.0	1.7	1	06/13/2022 13:00	06/15/2022 04:58	J
2-Chlorophenol	1.5 U	ug/L	5.0	1.5	1	06/13/2022 13:00	06/15/2022 04:58	J
2-Methyl-4,6-dinitrophenol	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/15/2022 04:58	J
2-Nitrophenol	0.63 U	ug/L	5.0	0.63	1	06/13/2022 13:00	06/15/2022 04:58	J
3,3`-Dichlorobenzidine	1.3 U	ug/L	5.0	1.3	1	06/13/2022 13:00	06/15/2022 04:58	J
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/15/2022 04:58	J
4-Chloro-3-methylphenol	0.63 U	ug/L	5.0	0.63	1	06/13/2022 13:00	06/15/2022 04:58	J
4-Chlorophenyl Phenyl Ether	1.6 U	ug/L	5.0	1.6	1	06/13/2022 13:00	06/15/2022 04:58	J
4-Nitrophenol	2.9 U	ug/L	5.0	2.9	1	06/13/2022 13:00	06/15/2022 04:58	J
Acenaphthene	0.040 U	ug/L	0.20	0.040	1	06/13/2022 13:00	06/15/2022 04:58	J
Acenaphthylene	0.042 U	ug/L	0.20	0.042	1	06/13/2022 13:00	06/15/2022 04:58	J
Anthracene	0.035 U	ug/L	0.20	0.035	1	06/13/2022 13:00	06/15/2022 04:58	J
Benzidine	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/15/2022 04:58	J
Benzo[a]anthracene	0.012 U	ug/L	0.20	0.012	1	06/13/2022 13:00	06/15/2022 04:58	J
Benzo[b]fluoranthene	0.012 U	ug/L	0.10	0.012	1	06/13/2022 13:00	06/15/2022 04:58	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[g,h,i]perylene	0.048 U	ug/L	0.20	0.048	1	06/13/2022 13:00	06/15/2022 04:58	J
Benzo[k]fluoranthene	0.048 U	ug/L	0.20	0.048	1	06/13/2022 13:00	06/15/2022 04:58	J
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/15/2022 04:58	J
Chrysene	0.033 U	ug/L	0.20	0.033	1	06/13/2022 13:00	06/15/2022 04:58	J
Di-n-Butyl Phthalate	**17**	ug/L	5.0	0.88	1	06/13/2022 13:00	06/15/2022 04:58	J
Di-n-octyl Phthalate	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/15/2022 04:58	J
Dibenzo[a,h]anthracene	0.024 U	ug/L	0.20	0.024	1	06/13/2022 13:00	06/15/2022 04:58	J
Diethyl phthalate	2.1 U	ug/L	5.0	2.1	1	06/13/2022 13:00	06/15/2022 04:58	J
Dimethyl phthalate	1.8 U	ug/L	10	1.8	1	06/13/2022 13:00	06/15/2022 04:58	J
Fluoranthene	0.037 U	ug/L	0.20	0.037	1	06/13/2022 13:00	06/15/2022 04:58	J
Fluorene	0.038 U	ug/L	0.20	0.038	1	06/13/2022 13:00	06/15/2022 04:58	J
Hexachlorobutadiene	1.3 U	ug/L	5.0	1.3	1	06/13/2022 13:00	06/15/2022 04:58	J
Hexachloroethane	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/15/2022 04:58	J
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L	0.20	0.011	1	06/13/2022 13:00	06/15/2022 04:58	J
Isophorone	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/15/2022 04:58	J
N-Nitrosodi-n-propylamine	2.2 U	ug/L	5.0	2.2	1	06/13/2022 13:00	06/15/2022 04:58	J
N-Nitrosodimethylamine	0.93 U	ug/L	5.0	0.93	1	06/13/2022 13:00	06/15/2022 04:58	J
N-Nitrosodiphenylamine	2.1 U	ug/L	5.0	2.1	1	06/13/2022 13:00	06/15/2022 04:58	J
Naphthalene	0.048 U	ug/L	0.20	0.048	1	06/13/2022 13:00	06/15/2022 04:58	J
Nitrobenzene	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/15/2022 04:58	J
Phenanthrene	0.040 U	ug/L	0.20	0.040	1	06/13/2022 13:00	06/15/2022 04:58	J
Phenol	0.54 U	ug/L	5.0	0.54	1	06/13/2022 13:00	06/15/2022 04:58	J
Pyrene	0.036 U	ug/L	0.20	0.036	1	06/13/2022 13:00	06/15/2022 04:58	J
bis(2-Chloroethoxy)methane	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/15/2022 04:58	J
bis(2-Chloroethyl)Ether	1.5 U	ug/L	5.0	1.5	1	06/13/2022 13:00	06/15/2022 04:58	J
bis(2-Chloroisopropyl) Ether	1.4 U	ug/L	5.0	1.4	1	06/13/2022 13:00	06/15/2022 04:58	J
bis(2-Ethylhexyl) phthalate	2.0 U	ug/L	5.0	2.0	1	06/13/2022 13:00	06/15/2022 04:58	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
VOLATILES (EPA 524.2)								
1,1,1-Trichloroethane	0.29 U	ug/L	1.0	0.29	1	06/19/2022 01:32	06/19/2022 01:32	T
1,1,2-Trichloroethane	0.27 U	ug/L	1.0	0.27	1	06/19/2022 01:32	06/19/2022 01:32	T
1,1-Dichloroethylene	0.22 U	ug/L	1.0	0.22	1	06/19/2022 01:32	06/19/2022 01:32	T
1,2,4-Trichlorobenzene	0.44 U	ug/L	1.0	0.44	1	06/19/2022 01:32	06/19/2022 01:32	T
1,2-Dichlorobenzene	0.39 U	ug/L	1.0	0.39	1	06/19/2022 01:32	06/19/2022 01:32	T
1,2-Dichloroethane	0.24 U	ug/L	1.0	0.24	1	06/19/2022 01:32	06/19/2022 01:32	T
1,2-Dichloropropane	0.26 U	ug/L	1.0	0.26	1	06/19/2022 01:32	06/19/2022 01:32	T
1,4-Dichlorobenzene	0.33 U	ug/L	1.0	0.33	1	06/19/2022 01:32	06/19/2022 01:32	T
Benzene	0.26 U	ug/L	1.0	0.26	1	06/19/2022 01:32	06/19/2022 01:32	T
Bromodichloromethane	**1.55**	ug/L	1.0	0.42	1	06/19/2022 01:32	06/19/2022 01:32	T
Bromoform	**2.92**	ug/L	1.0	0.45	1	06/19/2022 01:32	06/19/2022 01:32	T
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	1	06/19/2022 01:32	06/19/2022 01:32	T
Chlorobenzene	0.36 U	ug/L	1.0	0.36	1	06/19/2022 01:32	06/19/2022 01:32	T
Chloroform	**1.81**	ug/L	1.0	0.32	1	06/19/2022 01:32	06/19/2022 01:32	T
Dibromochloromethane	**2.19**	ug/L	1.0	0.37	1	06/19/2022 01:32	06/19/2022 01:32	T
Ethylbenzene	0.31 U	ug/L	1.0	0.31	1	06/19/2022 01:32	06/19/2022 01:32	T
Methylene Chloride	0.44 U	ug/L	1.0	0.44	1	06/19/2022 01:32	06/19/2022 01:32	T
Styrene	0.25 U	ug/L	1.0	0.25	1	06/19/2022 01:32	06/19/2022 01:32	T
Tetrachloroethylene (PCE)	0.42 U	ug/L	1.0	0.42	1	06/19/2022 01:32	06/19/2022 01:32	T
Toluene	**0.35 I**	ug/L	1.0	0.33	1	06/19/2022 01:32	06/19/2022 01:32	T
Total Trihalomethanes	**8.47**	ug/L	1.0	0.45	1	06/19/2022 01:32	06/19/2022 01:32	T
Trichloroethene	0.14 U	ug/L	1.0	0.14	1	06/19/2022 01:32	06/19/2022 01:32	T
Vinyl Chloride	0.29 U	ug/L	1.0	0.29	1	06/19/2022 01:32	06/19/2022 01:32	T
Xylene (Total)	**1.3 I**	ug/L	3.0	0.44	1	06/19/2022 01:32	06/19/2022 01:32	T
cis-1,2-Dichloroethylene	0.27 U	ug/L	1.0	0.27	1	06/19/2022 01:32	06/19/2022 01:32	T
trans-1,2-Dichloroethylene	0.21 U	ug/L	1.0	0.21	1	06/19/2022 01:32	06/19/2022 01:32	T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	06/09/2022 20:29	06/10/2022 05:42	T
1,1-Dichloroethane	0.38 U	ug/L	1.0	0.38	1	06/09/2022 20:29	06/10/2022 05:42	T
1,3-Dichlorobenzene	0.40 U	ug/L	1.0	0.40	1	06/09/2022 20:29	06/10/2022 05:42	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L	1.0	0.79	1	06/09/2022 20:29	06/10/2022 05:42	T
Acrolein (Propenal)	1.8 U	ug/L	4.0	1.8	1	06/09/2022 20:29	06/10/2022 05:42	T
Acrylonitrile	0.38 U	ug/L	5.0	0.38	1	06/09/2022 20:29	06/10/2022 05:42	T
Bromomethane	0.32 U	ug/L	1.0	0.32	1	06/09/2022 20:29	06/10/2022 05:42	T
Chloroethane	0.42 U	ug/L	1.0	0.42	1	06/09/2022 20:29	06/10/2022 05:42	T
Chloromethane	0.39 U	ug/L	1.0	0.39	1	06/09/2022 20:29	06/10/2022 05:42	T
trans-1,3-Dichloropropylene	0.26 U	ug/L	1.0	0.26	1	06/09/2022 20:29	06/10/2022 05:42	T
WET CHEMISTRY (EPA 300.0)								
Chloride	**12000**	mg/L	1000	200	200	06/13/2022 12:21	06/13/2022 12:21	T
Fluoride	40 U	mg/L	100	40	200	06/13/2022 12:21	06/13/2022 12:21	T
Sulfate	200 U	mg/L	1000	200	200	06/13/2022 12:21	06/13/2022 12:21	T
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	**1700**	mg/L	50	20	1	06/13/2022 14:30	06/13/2022 14:30	T
WET CHEMISTRY (SM 2120 B)								
Color	**752**	PCU	50	43	10	06/09/2022 10:00	06/09/2022 10:00	T
WET CHEMISTRY (SM 2150 B)								
Odor	**17**	TON @ 40°C	1	1.0	1	06/08/2022 16:00	06/08/2022 16:00	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	**13500**	mg/L	10	10	1	06/14/2022 12:30	06/14/2022 12:30	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	**52**	mg/L	2	2.0	2	06/15/2022 10:00	06/15/2022 10:00	T
WET CHEMISTRY (SM 3500-CR D)								
Hexavalent Chromium	0.0021 U	mg/L	0.01	0.0021	1	06/08/2022 16:20	06/08/2022 16:20	T
WET CHEMISTRY (SM 4500-CN-E)								

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414001 **Date Collected:** 06/08/2022 10:25 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Cyanide	**4**	mg/L	1	0.40	100	06/17/2022 18:14	06/17/2022 18:14	T
WET CHEMISTRY (SM 4500H+B)								
pH	**7.42**	SU	0.1	0.1	1	06/16/2022 10:00	06/16/2022 10:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	23 U	mg/L	25	23	250	06/08/2022 18:17	06/08/2022 18:17	T
Nitrite (as N)	**183**	mg/L	25	20	250	06/08/2022 18:17	06/08/2022 18:17	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	**18**	mg/L	2	2.0	1	06/08/2022 16:06	06/08/2022 16:06	T
WET CHEMISTRY (SM 5540 C)								
MBAS,as LAS,mol.wt.348	0.16 U	mg/L	0.8	0.16	4	06/09/2022 08:30	06/09/2022 08:30	G

Analysis Results Comments

2,4,6-Tribromophenol
J4|Estimated Result

2-Fluorophenol
J4|Estimated Result

Decachlorobiphenyl
J4|Estimated Result

Hexavalent Chromium
J3|Lab QC Failure

Phenol-d6
J4|Estimated Result

Tetrachloro-m-xylene
J4|Estimated Result

p-Terphenyl-d14
See Case Narration

pH
Q|Missed Hold Time

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	51	102	70 - 128	T
Toluene-d8 (S)	ug/L	50	53	105	77 - 119	T
Bromofluorobenzene (S)	ug/L	50	59	119	86 - 123	T
1,2-Dichloroethane-d4 (S)	ug/L	50	62	123	70 - 130	T
Toluene-d8 (S)	ug/L	50	47	95	70 - 130	T
Bromofluorobenzene (S)	ug/L	50	50	100	70 - 130	T
1,2-Dichloroethane-d4 (S)	ug/L	50	62	123	70 - 130	T
Toluene-d8 (S)	ug/L	50	47	95	70 - 130	T
Bromofluorobenzene (S)	ug/L	50	50	100	70 - 130	T
p-Terphenyl-d14 (S)	ug/L	10	14	**139**	70 - 130	J
Decachlorobiphenyl (S)	ug/L	0.50	0.18	**36**	48 - 137	M
Tetrachloro-m-xylene (S)	ug/L	1	3.40	**338**	44 - 124	M
2,4,6-Tribromophenol (S)	ug/L	50	0	**0**	48 - 147	J
Phenol-d6 (S)	ug/L	50	0.08	**0**	24 - 120	J
2-Fluorobiphenyl (S)	ug/L	50	24	49	42 - 138	J
2-Fluorophenol (S)	ug/L	50	0	**0**	31 - 134	J
Nitrobenzene-d5 (S)	ug/L	50	24	48	38 - 139	J
p-Terphenyl-d14 (S)	ug/L	50	32	65	61 - 154	J
Tetrachloro-m-xylene (S)	ug/L	1	0.82	82	64 - 150	T
Decachlorobiphenyl (S)	ug/L	0.50	0.18	**36**	44 - 136	M
Tetrachloro-m-xylene (S)	ug/L	1	3.40	**338**	61 - 119	M
Decachlorobiphenyl (S)	ug/L	0.50	0.37	74	70 - 130	J
2,4-Dichlorophenylacetic acid (S)	ug/L	25	18	73	70 - 130	J

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Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (EPA 200.7)								
Aluminum	**0.051 I**	mg/L	0.10	0.021	1	06/16/2022 11:00	06/16/2022 19:16	T
Barium	0.0030 U	mg/L	0.010	0.0030	1	06/16/2022 11:00	06/16/2022 19:16	T
Beryllium	0.0020 U	mg/L	0.010	0.0020	1	06/16/2022 11:00	06/16/2022 19:16	T
Chromium	0.0050 U	mg/L	0.010	0.0050	1	06/16/2022 11:00	06/16/2022 19:16	T
Iron	**0.019 I**	mg/L	0.10	0.0067	1	06/16/2022 11:00	06/16/2022 19:16	T
Nickel	0.0080 U	mg/L	0.010	0.0080	1	06/16/2022 11:00	06/16/2022 19:16	T
Sodium	**0.86 I**	mg/L	1.0	0.80	1	06/16/2022 11:00	06/16/2022 19:16	T
Zinc	0.050 U	mg/L	0.10	0.050	1	06/16/2022 11:00	06/16/2022 19:16	T
METALS (EPA 200.8)								
Antimony	0.0010 U	mg/L	0.0040	0.0010	1	06/15/2022 09:08	06/21/2022 12:10	J
Arsenic	0.00025 U	mg/L	0.0010	0.00025	1	06/15/2022 09:08	06/21/2022 12:10	J
Cadmium	0.00025 U	mg/L	0.0010	0.00025	1	06/15/2022 09:08	06/21/2022 12:10	J
Copper	0.0010 U	mg/L	0.0040	0.0010	1	06/15/2022 09:08	06/21/2022 12:10	J
Lead	0.00050 U	mg/L	0.0020	0.00050	1	06/15/2022 09:08	06/21/2022 12:10	J
Manganese	0.0010 U	mg/L	0.0040	0.0010	1	06/15/2022 09:08	06/21/2022 12:10	J
Selenium	0.0012 U	mg/L	0.0050	0.0012	1	06/15/2022 09:08	06/21/2022 12:10	J
Silver	0.00050 U	mg/L	0.0020	0.00050	1	06/15/2022 09:08	06/21/2022 12:10	J
Thallium	0.00025 U	mg/L	0.0010	0.00025	1	06/15/2022 09:08	06/21/2022 12:10	J
Uranium	0.20 U	ug/L	0.80	0.20	1	06/15/2022 09:08	06/21/2022 12:10	J
METALS (EPA 245.1)								
Mercury	0.000011 U	mg/L	0.00010	0.000011	1	06/14/2022 09:00	06/15/2022 10:22	T
SEMIVOLATILES (EPA 504.1)								
1,2-Dibromo-3-Chloropropane	0.0048 U	ug/L	0.020	0.0048	1	06/16/2022 11:45	06/17/2022 00:54	T
Ethylene Dibromide (EDB)	0.0074 U	ug/L	0.020	0.0074	1	06/16/2022 11:45	06/17/2022 00:54	T
SEMIVOLATILES (EPA 508)								
Chlordane (technical)	0.053 U	ug/L	0.20	0.053	1	06/14/2022 08:00	06/16/2022 04:28	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Endrin	0.0069 U	ug/L	0.020	0.0069	1	06/14/2022 08:00	06/16/2022 04:28	J
Heptachlor	0.0060 U	ug/L	0.020	0.0060	1	06/14/2022 08:00	06/16/2022 04:28	J
Heptachlor Epoxide	0.0052 U	ug/L	0.020	0.0052	1	06/14/2022 08:00	06/16/2022 04:28	J
Hexachlorobenzene	0.0063 U	ug/L	0.020	0.0063	1	06/14/2022 08:00	06/16/2022 04:28	J
Hexachlorocyclopentadiene	0.019 U	ug/L	0.020	0.019	1	06/14/2022 08:00	06/16/2022 04:28	J
Methoxychlor	0.0068 U	ug/L	0.020	0.0068	1	06/14/2022 08:00	06/16/2022 04:28	J
PCBs	0.093 U	ug/L	0.20	0.093	1	06/14/2022 08:00	06/16/2022 04:28	J
Toxaphene	0.12 U	ug/L	0.20	0.12	1	06/14/2022 08:00	06/16/2022 04:28	J
gamma-BHC (Lindane)	0.0071 U	ug/L	0.020	0.0071	1	06/14/2022 08:00	06/16/2022 04:28	J
SEMIVOLATILES (EPA 515.3)								
2,4-D	0.095 U	ug/L	5.0	0.095	1	06/14/2022 09:38	06/21/2022 22:33	J
Dalapon	0.90 U	ug/L	5.0	0.90	1	06/14/2022 09:38	06/21/2022 22:33	J
Dinoseb	0.18 U	ug/L	2.5	0.18	1	06/14/2022 09:38	06/21/2022 22:33	J
Pentachlorophenol	0.038 U	ug/L	0.50	0.038	1	06/14/2022 09:38	06/21/2022 22:33	J
Picloram	0.090 U	ug/L	0.50	0.090	1	06/14/2022 09:38	06/21/2022 22:33	J
Silvex (2,4,5-TP)	0.090 U	ug/L	1.0	0.090	1	06/14/2022 09:38	06/21/2022 22:33	J
SEMIVOLATILES (EPA 525.2)								
Alachlor	0.15 U	ug/L	0.50	0.15	1	06/21/2022 10:12	06/22/2022 01:00	J
Atrazine	0.090 U	ug/L	0.50	0.090	1	06/21/2022 10:12	06/22/2022 01:00	J
Benzo[a]pyrene	0.015 U	ug/L	0.50	0.015	1	06/21/2022 10:12	06/22/2022 01:00	J
Di(2-ethylhexyl) adipate	0.50 U	ug/L	1.0	0.50	1	06/21/2022 10:12	06/22/2022 01:00	J
Simazine	0.060 U	ug/L	0.50	0.060	1	06/21/2022 10:12	06/22/2022 01:00	J
bis(2-Ethylhexyl) phthalate	0.50 U	ug/L	2.0	0.50	1	06/21/2022 10:12	06/22/2022 01:00	J
SEMIVOLATILES (EPA 531.1)								
Carbofuran	0.51 U	ug/L	2.5	0.51	1	06/16/2022 08:39	06/16/2022 08:39	J
Oxamyl	1.8 U	ug/L	2.5	1.8	1	06/16/2022 08:39	06/16/2022 08:39	J
SEMIVOLATILES (EPA 547)								
Glyphosate	5.9 U	ug/L	50	5.9	1	06/09/2022 21:32	06/09/2022 21:32	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (EPA 548.1)								
Endothall	6.0 U	ug/L	8.0	6.0	1	06/13/2022 09:18	06/15/2022 13:43	J
SEMIVOLATILES (EPA 549.2)								
Diquat	0.37 U	ug/L	5.0	0.37	1	06/09/2022 09:44	06/09/2022 19:38	J
SEMIVOLATILES (EPA 552.2)								
Bromoacetic Acid	0.41 U	ug/L	1.0	0.41	1	06/16/2022 09:31	06/17/2022 04:13	T
Chloroacetic Acid	0.98 U	ug/L	1.0	0.98	1	06/16/2022 09:31	06/17/2022 04:13	T
Dibromoacetic Acid	0.74 U	ug/L	1.0	0.74	1	06/16/2022 09:31	06/17/2022 04:13	T
Dichloroacetic Acid	0.42 U	ug/L	1.0	0.42	1	06/16/2022 09:31	06/17/2022 04:13	T
Total Haloacetic Acids (HAA5)	0.98 U	ug/L	1.0	0.98	1	06/16/2022 09:31	06/17/2022 04:13	T
Trichloroacetic Acid	0.94 U	ug/L	1.0	0.94	1	06/16/2022 09:31	06/17/2022 04:13	T
SEMIVOLATILES (SW-846 3510C/EPA 8081)								
4,4`-DDD	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
4,4`-DDE	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
4,4`-DDT	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
Aldrin	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
Dieldrin	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
Endosulfan I	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
Endosulfan II	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
Endosulfan Sulfate	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
Endrin Aldehyde	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
alpha-BHC	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
beta-BHC	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
delta-BHC	0.0060 U	ug/L	0.010	0.0060	1	06/14/2022 08:30	06/15/2022 10:06	M
SEMIVOLATILES (SW-846 3510C/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.15 U	ug/L	0.20	0.15	1	06/14/2022 08:30	06/15/2022 10:06	M
Aroclor 1221 (PCB-1221)	0.13 U	ug/L	0.20	0.13	1	06/14/2022 08:30	06/15/2022 10:06	M
Aroclor 1232 (PCB-1232)	0.19 U	ug/L	0.20	0.19	1	06/14/2022 08:30	06/15/2022 10:06	M

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Aroclor 1242 (PCB-1242)	0.17 U	ug/L	0.20	0.17	1	06/14/2022 08:30	06/15/2022 10:06	M
Aroclor 1248 (PCB-1248)	0.16 U	ug/L	0.20	0.16	1	06/14/2022 08:30	06/15/2022 10:06	M
Aroclor 1254 (PCB-1254)	0.040 U	ug/L	0.20	0.040	1	06/14/2022 08:30	06/15/2022 10:06	M
Aroclor 1260 (PCB-1260)	0.15 U	ug/L	0.20	0.15	1	06/14/2022 08:30	06/15/2022 10:06	M
SEMIVOLATILES (SW-846 3510C/SW-846 8270C)								
1,2-Diphenylhydrazine	0.96 U	ug/L	5.0	0.96	1	06/13/2022 13:00	06/17/2022 13:40	J
2,4,6-Trichlorophenol	1.4 U	ug/L	5.0	1.4	1	06/13/2022 13:00	06/17/2022 13:40	J
2,4-Dichlorophenol	0.90 U	ug/L	5.0	0.90	1	06/13/2022 13:00	06/17/2022 13:40	J
2,4-Dimethylphenol	2.6 U	ug/L	5.0	2.6	1	06/13/2022 13:00	06/17/2022 13:40	J
2,4-Dinitrophenol	1.1 U	ug/L	10	1.1	1	06/13/2022 13:00	06/17/2022 13:40	J
2,4-Dinitrotoluene (2,4-DNT)	1.8 U	ug/L	5.0	1.8	1	06/13/2022 13:00	06/17/2022 13:40	J
2,6-Dinitrotoluene (2,6-DNT)	2.0 U	ug/L	5.0	2.0	1	06/13/2022 13:00	06/17/2022 13:40	J
2-Chloronaphthalene	1.7 U	ug/L	5.0	1.7	1	06/13/2022 13:00	06/17/2022 13:40	J
2-Chlorophenol	1.5 U	ug/L	5.0	1.5	1	06/13/2022 13:00	06/17/2022 13:40	J
2-Methyl-4,6-dinitrophenol	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/17/2022 13:40	J
2-Nitrophenol	0.63 U	ug/L	5.0	0.63	1	06/13/2022 13:00	06/17/2022 13:40	J
3,3`-Dichlorobenzidine	1.3 U	ug/L	5.0	1.3	1	06/13/2022 13:00	06/17/2022 13:40	J
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/17/2022 13:40	J
4-Chloro-3-methylphenol	0.63 U	ug/L	5.0	0.63	1	06/13/2022 13:00	06/17/2022 13:40	J
4-Chlorophenyl Phenyl Ether	1.6 U	ug/L	5.0	1.6	1	06/13/2022 13:00	06/17/2022 13:40	J
4-Nitrophenol	2.9 U	ug/L	5.0	2.9	1	06/13/2022 13:00	06/17/2022 13:40	J
Acenaphthene	0.040 U	ug/L	0.20	0.040	1	06/13/2022 13:00	06/17/2022 13:40	J
Acenaphthylene	0.042 U	ug/L	0.20	0.042	1	06/13/2022 13:00	06/17/2022 13:40	J
Anthracene	0.035 U	ug/L	0.20	0.035	1	06/13/2022 13:00	06/17/2022 13:40	J
Benzidine	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/17/2022 13:40	J
Benzo[a]anthracene	0.012 U	ug/L	0.20	0.012	1	06/13/2022 13:00	06/17/2022 13:40	J
Benzo[b]fluoranthene	0.012 U	ug/L	0.10	0.012	1	06/13/2022 13:00	06/17/2022 13:40	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[g,h,i]perylene	0.048 U	ug/L	0.20	0.048	1	06/13/2022 13:00	06/17/2022 13:40	J
Benzo[k]fluoranthene	0.048 U	ug/L	0.20	0.048	1	06/13/2022 13:00	06/17/2022 13:40	J
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/17/2022 13:40	J
Chrysene	0.033 U	ug/L	0.20	0.033	1	06/13/2022 13:00	06/17/2022 13:40	J
Di-n-Butyl Phthalate	0.88 U	ug/L	5.0	0.88	1	06/13/2022 13:00	06/17/2022 13:40	J
Di-n-octyl Phthalate	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/17/2022 13:40	J
Dibenzo[a,h]anthracene	0.024 U	ug/L	0.20	0.024	1	06/13/2022 13:00	06/17/2022 13:40	J
Diethyl phthalate	2.1 U	ug/L	5.0	2.1	1	06/13/2022 13:00	06/17/2022 13:40	J
Dimethyl phthalate	1.8 U	ug/L	10	1.8	1	06/13/2022 13:00	06/17/2022 13:40	J
Fluoranthene	0.037 U	ug/L	0.20	0.037	1	06/13/2022 13:00	06/17/2022 13:40	J
Fluorene	0.038 U	ug/L	0.20	0.038	1	06/13/2022 13:00	06/17/2022 13:40	J
Hexachlorobutadiene	1.3 U	ug/L	5.0	1.3	1	06/13/2022 13:00	06/17/2022 13:40	J
Hexachloroethane	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/17/2022 13:40	J
Indeno(1,2,3-cd)pyrene	**0.024 I**	ug/L	0.20	0.011	1	06/13/2022 13:00	06/17/2022 13:40	J
Isophorone	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/17/2022 13:40	J
N-Nitrosodi-n-propylamine	2.2 U	ug/L	5.0	2.2	1	06/13/2022 13:00	06/17/2022 13:40	J
N-Nitrosodimethylamine	0.93 U	ug/L	5.0	0.93	1	06/13/2022 13:00	06/17/2022 13:40	J
N-Nitrosodiphenylamine	2.1 U	ug/L	5.0	2.1	1	06/13/2022 13:00	06/17/2022 13:40	J
Naphthalene	0.048 U	ug/L	0.20	0.048	1	06/13/2022 13:00	06/17/2022 13:40	J
Nitrobenzene	1.1 U	ug/L	5.0	1.1	1	06/13/2022 13:00	06/17/2022 13:40	J
Phenanthrene	0.040 U	ug/L	0.20	0.040	1	06/13/2022 13:00	06/17/2022 13:40	J
Phenol	0.54 U	ug/L	5.0	0.54	1	06/13/2022 13:00	06/17/2022 13:40	J
Pyrene	0.036 U	ug/L	0.20	0.036	1	06/13/2022 13:00	06/17/2022 13:40	J
bis(2-Chloroethoxy)methane	1.2 U	ug/L	5.0	1.2	1	06/13/2022 13:00	06/17/2022 13:40	J
bis(2-Chloroethyl)Ether	1.5 U	ug/L	5.0	1.5	1	06/13/2022 13:00	06/17/2022 13:40	J
bis(2-Chloroisopropyl) Ether	1.4 U	ug/L	5.0	1.4	1	06/13/2022 13:00	06/17/2022 13:40	J
bis(2-Ethylhexyl) phthalate	2.0 U	ug/L	5.0	2.0	1	06/13/2022 13:00	06/17/2022 13:40	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
VOLATILES (EPA 524.2)								
1,1,1-Trichloroethane	0.29 U	ug/L	1.0	0.29	1	06/19/2022 01:59	06/19/2022 01:59	T
1,1,2-Trichloroethane	0.27 U	ug/L	1.0	0.27	1	06/19/2022 01:59	06/19/2022 01:59	T
1,1-Dichloroethylene	0.22 U	ug/L	1.0	0.22	1	06/19/2022 01:59	06/19/2022 01:59	T
1,2,4-Trichlorobenzene	0.44 U	ug/L	1.0	0.44	1	06/19/2022 01:59	06/19/2022 01:59	T
1,2-Dichlorobenzene	0.39 U	ug/L	1.0	0.39	1	06/19/2022 01:59	06/19/2022 01:59	T
1,2-Dichloroethane	0.24 U	ug/L	1.0	0.24	1	06/19/2022 01:59	06/19/2022 01:59	T
1,2-Dichloropropane	0.26 U	ug/L	1.0	0.26	1	06/19/2022 01:59	06/19/2022 01:59	T
1,4-Dichlorobenzene	0.33 U	ug/L	1.0	0.33	1	06/19/2022 01:59	06/19/2022 01:59	T
Benzene	0.26 U	ug/L	1.0	0.26	1	06/19/2022 01:59	06/19/2022 01:59	T
Bromodichloromethane	0.42 U	ug/L	1.0	0.42	1	06/19/2022 01:59	06/19/2022 01:59	T
Bromoform	0.45 U	ug/L	1.0	0.45	1	06/19/2022 01:59	06/19/2022 01:59	T
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	1	06/19/2022 01:59	06/19/2022 01:59	T
Chlorobenzene	**0.56 I**	ug/L	1.0	0.36	1	06/19/2022 01:59	06/19/2022 01:59	T
Chloroform	0.32 U	ug/L	1.0	0.32	1	06/19/2022 01:59	06/19/2022 01:59	T
Dibromochloromethane	0.37 U	ug/L	1.0	0.37	1	06/19/2022 01:59	06/19/2022 01:59	T
Ethylbenzene	0.31 U	ug/L	1.0	0.31	1	06/19/2022 01:59	06/19/2022 01:59	T
Methylene Chloride	0.44 U	ug/L	1.0	0.44	1	06/19/2022 01:59	06/19/2022 01:59	T
Styrene	0.25 U	ug/L	1.0	0.25	1	06/19/2022 01:59	06/19/2022 01:59	T
Tetrachloroethylene (PCE)	**0.62 I**	ug/L	1.0	0.42	1	06/19/2022 01:59	06/19/2022 01:59	T
Toluene	0.33 U	ug/L	1.0	0.33	1	06/19/2022 01:59	06/19/2022 01:59	T
Total Trihalomethanes	0.45 U	ug/L	1.0	0.45	1	06/19/2022 01:59	06/19/2022 01:59	T
Trichloroethene	0.14 U	ug/L	1.0	0.14	1	06/19/2022 01:59	06/19/2022 01:59	T
Vinyl Chloride	0.29 U	ug/L	1.0	0.29	1	06/19/2022 01:59	06/19/2022 01:59	T
Xylene (Total)	0.44 U	ug/L	3.0	0.44	1	06/19/2022 01:59	06/19/2022 01:59	T
cis-1,2-Dichloroethylene	0.27 U	ug/L	1.0	0.27	1	06/19/2022 01:59	06/19/2022 01:59	T
trans-1,2-Dichloroethylene	0.21 U	ug/L	1.0	0.21	1	06/19/2022 01:59	06/19/2022 01:59	T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	06/09/2022 20:29	06/10/2022 04:18	T
1,1-Dichloroethane	0.38 U	ug/L	1.0	0.38	1	06/09/2022 20:29	06/10/2022 04:18	T
1,3-Dichlorobenzene	0.40 U	ug/L	1.0	0.40	1	06/09/2022 20:29	06/10/2022 04:18	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L	1.0	0.79	1	06/09/2022 20:29	06/10/2022 04:18	T
Acrolein (Propenal)	1.8 U	ug/L	4.0	1.8	1	06/09/2022 20:29	06/10/2022 04:18	T
Acrylonitrile	0.38 U	ug/L	5.0	0.38	1	06/09/2022 20:29	06/10/2022 04:18	T
Bromomethane	0.32 U	ug/L	1.0	0.32	1	06/09/2022 20:29	06/10/2022 04:18	T
Chloroethane	0.42 U	ug/L	1.0	0.42	1	06/09/2022 20:29	06/10/2022 04:18	T
Chloromethane	0.39 U	ug/L	1.0	0.39	1	06/09/2022 20:29	06/10/2022 04:18	T
trans-1,3-Dichloropropylene	0.26 U	ug/L	1.0	0.26	1	06/09/2022 20:29	06/10/2022 04:18	T
WET CHEMISTRY (EPA 300.0)								
Chloride	1.0 U	mg/L	5.0	1.0	1	06/13/2022 12:37	06/13/2022 12:37	T
Fluoride	0.20 U	mg/L	0.50	0.20	1	06/13/2022 12:37	06/13/2022 12:37	T
Sulfate	1.0 U	mg/L	5.0	1.0	1	06/13/2022 12:37	06/13/2022 12:37	T
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	20 U	mg/L	50	20	1	06/13/2022 14:30	06/13/2022 14:30	T
WET CHEMISTRY (SM 2120 B)								
Color	**7**	PCU	5	4.3	1	06/09/2022 10:00	06/09/2022 10:00	T
WET CHEMISTRY (SM 2150 B)								
Odor	1.0 U	TON @ 40°C	1	1.0	1	06/08/2022 16:00	06/08/2022 16:00	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	10 U	mg/L	10	10	1	06/14/2022 12:30	06/14/2022 12:30	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	1.0 U	mg/L	1	1.0	1	06/13/2022 13:00	06/13/2022 13:00	T
WET CHEMISTRY (SM 3500-CR D)								
Hexavalent Chromium	0.0021 U	mg/L	0.01	0.0021	1	06/08/2022 16:20	06/08/2022 16:20	T
WET CHEMISTRY (SM 4500-CN-E)								

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FINAL

Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Lab ID: T2211414002 **Date Collected:** 06/08/2022 09:33 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 06/08/2022 13:53

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Cyanide	0.0040 U	mg/L	0.01	0.0040	1	06/15/2022 17:30	06/15/2022 17:30	T
WET CHEMISTRY (SM 4500H+B)								
pH	**7.56**	SU	0.1	0.1	1	06/16/2022 10:00	06/16/2022 10:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	0.092 U	mg/L	0.1	0.092	1	06/08/2022 17:01	06/08/2022 17:01	T
Nitrite (as N)	0.081 U	mg/L	0.1	0.081	1	06/08/2022 17:01	06/08/2022 17:01	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	2.0 U	mg/L	2	2.0	1	06/08/2022 16:13	06/08/2022 16:13	T
WET CHEMISTRY (SM 5540 C)								
MBAS,as LAS,mol.wt.348	0.040 U	mg/L	0.2	0.040	1	06/09/2022 08:30	06/09/2022 08:30	G

Analysis Results Comments

Phenol-d6

J4|Estimated Result

pH

Q|Missed Hold Time

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	50	100	70 - 128	T
Toluene-d8 (S)	ug/L	50	53	105	77 - 119	T
Bromofluorobenzene (S)	ug/L	50	59	118	86 - 123	T
1,2-Dichloroethane-d4 (S)	ug/L	50	61	123	70 - 130	T
Toluene-d8 (S)	ug/L	50	47	95	70 - 130	T
Bromofluorobenzene (S)	ug/L	50	46	93	70 - 130	T
1,2-Dichloroethane-d4 (S)	ug/L	50	61	123	70 - 130	T
Toluene-d8 (S)	ug/L	50	47	95	70 - 130	T

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Workorder: SELF Plant Effluent (T2211414)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Bromofluorobenzene (S)	ug/L	50	46	93	70 - 130	T
p-Terphenyl-d14 (S)	ug/L	5	5.20	103	70 - 130	J
Decachlorobiphenyl (S)	ug/L	0.50	0.22	**44**	48 - 137	M
Tetrachloro-m-xylene (S)	ug/L	1	0.71	71	44 - 124	M
2,4,6-Tribromophenol (S)	ug/L	50	39	77	48 - 147	J
Phenol-d6 (S)	ug/L	50	11	**22**	24 - 120	J
2-Fluorobiphenyl (S)	ug/L	50	42	84	42 - 138	J
2-Fluorophenol (S)	ug/L	50	19	38	31 - 134	J
Nitrobenzene-d5 (S)	ug/L	50	42	84	38 - 139	J
p-Terphenyl-d14 (S)	ug/L	50	51	101	61 - 154	J
Tetrachloro-m-xylene (S)	ug/L	0.98	0.99	101	64 - 150	T
Decachlorobiphenyl (S)	ug/L	0.50	0.22	44	44 - 136	M
Tetrachloro-m-xylene (S)	ug/L	1	0.71	71	61 - 119	M
2,3-Dibromopropionic Acid (S)	ug/L	20	18	90	70 - 130	T
Decachlorobiphenyl (S)	ug/L	0.50	0.38	76	70 - 130	J
2,4-Dichlorophenylacetic acid (S)	ug/L	25	26	103	70 - 130	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: CVAt/1669
Preparation Method: EPA 245.1
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 245.1

Method Blank(4351776)

Parameter	Results	Units	PQL	MDL	Lab
Mercury	0.000011 U	mg/L	0.00010	0.000011	T

Lab Control Sample (4351777)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Mercury	mg/L	0.0010	0	97	85 - 115	T

Matrix Spike (4351778); Matrix Spike Duplicate (4351779); Parent Lab Sample (T2211616001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	mg/L	0.0010	0	106	70 - 130	0	113	6	20	T

Matrix Spike (4351780); Matrix Spike Duplicate (4351781); Parent Lab Sample (T2211727001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	mg/L	0.0005	0	113	70 - 130	0	124	9	20	T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: GCSj/3330
Preparation Method: EPA 515.3
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 515.3

Method Blank(4351334)

Parameter	Results	Units	PQL	MDL	Lab
Dalapon	0.90 U	ug/L	5.0	0.90	J
2,4-D	0.095 U	ug/L	5.0	0.095	J
Pentachlorophenol	0.038 U	ug/L	0.50	0.038	J
Silvex (2,4,5-TP)	0.090 U	ug/L	1.0	0.090	J
Picloram	0.090 U	ug/L	0.50	0.090	J
Dinoseb	0.18 U	ug/L	2.5	0.18	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4-Dichlorophenylacetic acid (S)	ug/L	25	22	90	70 - 130	

Lab Control Sample (4351335); Lab Control Sample Duplicate (4351336)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Dalapon	ug/L	25	25	100	70 - 130	27	107	7	30	J
2,4-D	ug/L	12	13	106	70 - 130	14	116	9	30	J
Pentachlorophenol	ug/L	2.50	2.4	96	70 - 130	2.6	106	9	30	J
Silvex (2,4,5-TP)	ug/L	5	4.7	93	70 - 130	5.1	102	9	30	J
Picloram	ug/L	2.50	2.4	95	70 - 130	2.7	107	11	30	J
Dinoseb	ug/L	12	14	113	70 - 130	15	122	7	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,4-Dichlorophenylacetic acid (S	ug/L	25	25	100	70 - 130	25	102	2		

Matrix Spike (4351338); Parent Lab Sample (J2207579001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Dalapon	ug/L	25	30	119	70 - 130	J
2,4-D	ug/L	12	14	109	70 - 130	J
Pentachlorophenol	ug/L	2.50	2.7	108	70 - 130	J
Silvex (2,4,5-TP)	ug/L	5	4.9	81	70 - 130	J
Picloram	ug/L	2.50	3.1	**-69**	70 - 130	J
Dinoseb	ug/L	12	15	120	70 - 130	J

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Workorder: SELF Plant Effluent (T2211414)

QC Batch: GCSj/3330
Preparation Method: EPA 515.3
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 515.3

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4-Dichlorophenylacetic acid (S)	ug/L	25	23	93	70 - 130	

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: GCSj/3335
Preparation Method: EPA 508
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 508

Method Blank(4352147)

Parameter	Results	Units	PQL	MDL	Lab
Hexachlorocyclopentadiene	0.019 U	ug/L	0.020	0.019	J
Hexachlorobenzene	0.0063 U	ug/L	0.020	0.0063	J
gamma-BHC (Lindane)	0.0071 U	ug/L	0.020	0.0071	J
Heptachlor	0.0060 U	ug/L	0.020	0.0060	J
Heptachlor Epoxide	0.0052 U	ug/L	0.020	0.0052	J
Endrin	0.0069 U	ug/L	0.020	0.0069	J
Methoxychlor	0.0068 U	ug/L	0.020	0.0068	J
PCBs	0.093 U	ug/L	0.20	0.093	J
Chlordane (technical)	0.053 U	ug/L	0.20	0.053	J
Toxaphene	0.12 U	ug/L	0.20	0.12	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	98	70 - 130	

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: GCSm/2240
Preparation Method: SW-846 3510C
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 8081

Method Blank(4349677)

Parameter	Results	Units	PQL	MDL	Lab
alpha-BHC	0.0060 U	ug/L	0.010	0.0060	M
beta-BHC	0.0060 U	ug/L	0.010	0.0060	M
delta-BHC	0.0060 U	ug/L	0.010	0.0060	M
Aldrin	0.0060 U	ug/L	0.010	0.0060	M
Endosulfan I	0.0060 U	ug/L	0.010	0.0060	M
4,4`-DDE	0.0060 U	ug/L	0.010	0.0060	M
Dieldrin	0.0060 U	ug/L	0.010	0.0060	M
4,4`-DDD	0.0060 U	ug/L	0.010	0.0060	M
Endosulfan II	0.0060 U	ug/L	0.010	0.0060	M
Endrin Aldehyde	0.0060 U	ug/L	0.010	0.0060	M
4,4`-DDT	0.0060 U	ug/L	0.010	0.0060	M
Endosulfan Sulfate	0.0060 U	ug/L	0.010	0.0060	M

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	81	48 - 137	
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	102	44 - 124	

Lab Control Sample (4349678); Lab Control Sample Duplicate (4349679)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
alpha-BHC	ug/L	0.10	.13	131	54 - 138	.11	108	19	30	M
beta-BHC	ug/L	0.10	.13	130	56 - 136	.12	117	11	30	M
delta-BHC	ug/L	0.10	.1	98	52 - 142	.08	80	20	30	M
Aldrin	ug/L	0.10	.13	129	45 - 134	.11	105	21	30	M
Endosulfan I	ug/L	0.10	.14	**143**	62 - 126	.12	115	21	30	M
4,4`-DDE	ug/L	0.10	.1	103	57 - 135	.08	77	29	30	M
Dieldrin	ug/L	0.10	.13	128	60 - 136	.1	102	23	30	M
4,4`-DDD	ug/L	0.10	.11	113	56 - 143	.09	87	26	30	M
Endosulfan II	ug/L	0.10	.13	135	52 - 135	.11	107	23	30	M
Endrin Aldehyde	ug/L	0.10	.13	130	51 - 132	.1	105	21	30	M
4,4`-DDT	ug/L	0.10	.13	128	51 - 143	.1	100	24	30	M
Endosulfan Sulfate	ug/L	0.10	.12	115	62 - 133	.09	91	24	30	M

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Workorder: SELF Plant Effluent (T2211414)

QC Batch: GCSm/2240
Preparation Method: SW-846 3510C
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 8081

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	89	48 - 137	0	74	18		
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	103	44 - 124	0	86	18		

QC Result Comments

Lab Control Sample - 4349678 - Endosulfan I

J3|Lab QC Failure

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: GCSm/2241
Preparation Method: SW-846 3510C
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SW-846 8082A

Method Blank(4351089)

Parameter	Results	Units	PQL	MDL	Lab
Aroclor 1016 (PCB-1016)	0.15 U	ug/L	0.20	0.15	M
Aroclor 1221 (PCB-1221)	0.13 U	ug/L	0.20	0.13	M
Aroclor 1232 (PCB-1232)	0.19 U	ug/L	0.20	0.19	M
Aroclor 1242 (PCB-1242)	0.17 U	ug/L	0.20	0.17	M
Aroclor 1248 (PCB-1248)	0.16 U	ug/L	0.20	0.16	M
Aroclor 1254 (PCB-1254)	0.040 U	ug/L	0.20	0.040	M
Aroclor 1260 (PCB-1260)	0.15 U	ug/L	0.20	0.15	M

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	81	44 - 136	
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	102	61 - 119	

Lab Control Sample (4351090); Lab Control Sample Duplicate (4351091)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aroclor 1016 (PCB-1016)	ug/L	2	1.7	84	46 - 129	1.1	108	**44**	30	M
Aroclor 1221 (PCB-1221)	ug/L	2	0	**0**	60 - 140	0	**0**	0	30	M
Aroclor 1232 (PCB-1232)	ug/L	2	0	**0**	60 - 140	0	**0**	0	30	M
Aroclor 1242 (PCB-1242)	ug/L	2	0	**0**	60 - 140	0	**0**	0	30	M
Aroclor 1248 (PCB-1248)	ug/L	2	0	**0**	60 - 140	0	**0**	0	30	M
Aroclor 1254 (PCB-1254)	ug/L	2	0	**0**	34 - 127	0	**0**	0	30	M
Aroclor 1260 (PCB-1260)	ug/L	2	1.4	70	45 - 134	1.1	107	26	30	M

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	95	44 - 136	0	61	43		
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	105	61 - 119	0	82	25		

QC Result Comments

Lab Control Sample - 4351090 - Aroclor 1221 (PCB-1221)

J3|Lab QC Failure

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Workorder: SELF Plant Effluent (T2211414)

QC Result Comments
Lab Control Sample - 4351090 - Aroclor 1232 (PCB-1232)
J3|Lab QC Failure
Lab Control Sample - 4351090 - Aroclor 1242 (PCB-1242)
J3|Lab QC Failure
Lab Control Sample - 4351090 - Aroclor 1248 (PCB-1248)
J3|Lab QC Failure
Lab Control Sample - 4351090 - Aroclor 1254 (PCB-1254)
J3|Lab QC Failure
Lab Control Sample Duplicate - 4351091 - Aroclor 1016 (PCB-1016)
J3|Lab QC Failure
*|MS/MSD recovery and/or RPD is out of criteria
Lab Control Sample Duplicate - 4351091 - Aroclor 1221 (PCB-1221)
J3|Lab QC Failure
Lab Control Sample Duplicate - 4351091 - Aroclor 1232 (PCB-1232)
J3|Lab QC Failure
Lab Control Sample Duplicate - 4351091 - Aroclor 1242 (PCB-1242)
J3|Lab QC Failure
Lab Control Sample Duplicate - 4351091 - Aroclor 1248 (PCB-1248)
J3|Lab QC Failure
Lab Control Sample Duplicate - 4351091 - Aroclor 1254 (PCB-1254)
J3|Lab QC Failure

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: GCSt/2363
Preparation Method: EPA 552.2
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 552.2

Method Blank(4354833)

Parameter	Results	Units	PQL	MDL	Lab
Chloroacetic Acid	0.98 U	ug/L	1.0	0.98	T
Bromoacetic Acid	0.41 U	ug/L	1.0	0.41	T
Dichloroacetic Acid	0.42 U	ug/L	1.0	0.42	T
Trichloroacetic Acid	0.94 U	ug/L	1.0	0.94	T
Dibromoacetic Acid	0.74 U	ug/L	1.0	0.74	T
Total Haloacetic Acids (HAA5)	0.98 U	ug/L	1.0	0.98	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,3-Dibromopropionic Acid (S)	ug/L	20	17	87	70 - 130	

Lab Control Sample (4354834); Lab Control Sample Duplicate (4354835)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chloroacetic Acid	ug/L	20	21.58	108	70 - 130	23.57	118	9	30	T
Bromoacetic Acid	ug/L	20	20.5	103	70 - 130	22.82	114	11	30	T
Dichloroacetic Acid	ug/L	20	21.24	106	70 - 130	21.84	109	3	30	T
Trichloroacetic Acid	ug/L	20	20.94	105	70 - 130	21.78	109	4	30	T
Dibromoacetic Acid	ug/L	20	21.77	109	70 - 130	22.26	111	2	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,3-Dibromopropionic Acid (S)	ug/L	20	20	99	70 - 130	18	91	8	30	

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: GCSt/2364
Preparation Method: EPA 504.1
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 504.1

Method Blank(4355450)

Parameter	Results	Units	PQL	MDL	Lab
Ethylene Dibromide (EDB)	0.0076 U	ug/L	0.020	0.0076	T
1,2-Dibromo-3-Chloropropane	0.0049 U	ug/L	0.020	0.0049	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Tetrachloro-m-xylene (S)	ug/L	1	1	103	64 - 150	

Lab Control Sample (4355451); Lab Control Sample Duplicate (4355452)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Ethylene Dibromide (EDB)	ug/L	0.25	.28	113	70 - 130	.29	116	3	30	T
1,2-Dibromo-3-Chloropropa	ug/L	0.25	.28	113	70 - 130	.28	112	0	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Tetrachloro-m-xylene (S)	ug/L	1	1	104	64 - 150	1.10	109	5		

Matrix Spike (4355453); Parent Lab Sample (T2211317001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Ethylene Dibromide (EDB)	ug/L	0.25	.28	112	70 - 130	T
1,2-Dibromo-3-Chloropropane	ug/L	0.25	.28	110	70 - 130	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Tetrachloro-m-xylene (S)	ug/L	1	0.96	96	64 - 150	

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: HPLj/1529
Preparation Method: EPA 547
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 547

Method Blank(4346002)

Parameter	Results	Units	PQL	MDL	Lab
Glyphosate	5.9 U	ug/L	50	5.9	J

Lab Control Sample (4346003); Lab Control Sample Duplicate (4346004)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Glyphosate	ug/L	200	170	85	70 - 130	180	91	7	30	J

Matrix Spike (4346006); Parent Lab Sample (J2207376001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Glyphosate	ug/L	200	180	91	70 - 130	J

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: HPLj/1531
Preparation Method: EPA 549.2
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 549.2

Method Blank(4345569)

Parameter	Results	Units	PQL	MDL	Lab
Diquat	0.37 U	ug/L	5.0	0.37	J

Lab Control Sample (4345570); Lab Control Sample Duplicate (4345571)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Diquat	ug/L	10	8.2	82	70 - 130	9.9	99	18	30	J

Matrix Spike (4345573); Parent Lab Sample (J2207579001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Diquat	ug/L	10	1.8	**18**	70 - 130	J

QC Result Comments

Matrix Spike - 4345573 - Diquat

J4|Estimated Result

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: HPLj/1534
Preparation Method: EPA 531.1
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 531.1

Method Blank(4351385)

Parameter	Results	Units	PQL	MDL	Lab
Oxamyl	1.8 U	ug/L	2.5	1.8	J
Carbofuran	0.51 U	ug/L	2.5	0.51	J

Lab Control Sample (4351386); Lab Control Sample Duplicate (4351387)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Oxamyl	ug/L	20	18	89	80 - 120	18	89	1	20	J
Carbofuran	ug/L	20	19	96	80 - 120	19	94	2	20	J

Matrix Spike (4351389); Parent Lab Sample (J2207579001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Oxamyl	ug/L	20	17	86	80 - 120	J
Carbofuran	ug/L	20	19	94	80 - 120	J

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: ICMj/2085
Preparation Method: EPA 200.8
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 200.8

Method Blank(4352895)

Parameter	Results	Units	PQL	MDL	Lab
Manganese	0.0010 U	mg/L	0.0040	0.0010	J
Copper	0.0010 U	mg/L	0.0040	0.0010	J
Arsenic	0.00025 U	mg/L	0.0010	0.00025	J
Selenium	0.0012 U	mg/L	0.0050	0.0012	J
Silver	0.00050 U	mg/L	0.0020	0.00050	J
Cadmium	0.00025 U	mg/L	0.0010	0.00025	J
Antimony	0.0010 U	mg/L	0.0040	0.0010	J
Thallium	0.00025 U	mg/L	0.0010	0.00025	J
Lead	0.00050 U	mg/L	0.0020	0.00050	J
Uranium	0.20 U	ug/L	0.80	0.20	J

Lab Control Sample (4352896)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Manganese	mg/L	0.02	.02	99	85 - 115	J
Copper	mg/L	0.02	.02	100	85 - 115	J
Arsenic	mg/L	0.02	.02	101	85 - 115	J
Selenium	mg/L	0.02	.02	100	85 - 115	J
Silver	mg/L	0.02	.02	102	85 - 115	J
Cadmium	mg/L	0.02	.02	102	85 - 115	J
Antimony	mg/L	0.02	.02	112	85 - 115	J
Thallium	mg/L	0.02	.02	96	85 - 115	J
Lead	mg/L	0.02	.02	98	85 - 115	J
Uranium	ug/L	20	20	101	85 - 115	J

Matrix Spike (4352897); Matrix Spike Duplicate (4352898); Parent Lab Sample (J2207810001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Manganese	mg/L	0.02	.06	82	70 - 130	.06	91	3	20	J
Copper	mg/L	0.02	.02	89	70 - 130	.02	91	2	20	J
Arsenic	mg/L	0.02	.02	95	70 - 130	.02	98	3	20	J
Selenium	mg/L	0.02	.02	93	70 - 130	.02	97	4	20	J
Silver	mg/L	0.02	.02	99	70 - 130	.02	100	1	20	J
Cadmium	mg/L	0.02	.02	100	70 - 130	.02	101	1	20	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: ICMj/2085
Preparation Method: EPA 200.8
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 200.8

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Antimony	mg/L	0.02	.02	116	70 - 130	.02	115	1	20	J
Thallium	mg/L	0.02	.02	100	70 - 130	.02	101	1	20	J
Lead	mg/L	0.02	.03	97	70 - 130	.03	99	1	20	J
Uranium	ug/L	20	22	107	70 - 130	22	107	0	20	J

Matrix Spike (4352899); Matrix Spike Duplicate (4352900); Parent Lab Sample (J2207361001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Manganese	mg/L	0.02	.05	87	70 - 130	.05	91	2	20	J
Copper	mg/L	0.02	.02	92	70 - 130	.02	92	0	20	J
Arsenic	mg/L	0.02	.02	98	70 - 130	.02	99	2	20	J
Selenium	mg/L	0.02	.02	99	70 - 130	.02	103	4	20	J
Silver	mg/L	0.02	.02	94	70 - 130	.02	95	1	20	J
Cadmium	mg/L	0.02	.02	101	70 - 130	.02	103	1	20	J
Antimony	mg/L	0.02	.03	**138**	70 - 130	.03	**140**	1	20	J
Thallium	mg/L	0.02	.02	118	70 - 130	.02	119	1	20	J
Lead	mg/L	0.02	.02	117	70 - 130	.02	119	1	20	J
Uranium	ug/L	20	25	126	70 - 130	25	127	1	20	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: ICPt/2821
Preparation Method: EPA 200.7
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 200.7

Method Blank(4356515)

Parameter	Results	Units	PQL	MDL	Lab
Aluminum	0.021 U	mg/L	0.10	0.021	T
Barium	0.0030 U	mg/L	0.010	0.0030	T
Beryllium	0.0020 U	mg/L	0.010	0.0020	T
Chromium	0.0050 U	mg/L	0.010	0.0050	T
Iron	0.0067 U	mg/L	0.10	0.0067	T
Sodium	0.80 U	mg/L	1.0	0.80	T
Nickel	0.0080 U	mg/L	0.010	0.0080	T
Zinc	0.050 U	mg/L	0.10	0.050	T

Lab Control Sample (4356516); Lab Control Sample Duplicate (4357394)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aluminum	mg/L	1	.95	95	85 - 115	.96	96	1	20	T
Barium	mg/L	1	1	101	85 - 115	.95	95	6	20	T
Beryllium	mg/L	1	.95	95	85 - 115	.97	97	2	20	T
Chromium	mg/L	1	.96	96	85 - 115	1	102	7	20	T
Iron	mg/L	1	.99	99	85 - 115	.97	97	3	20	T
Sodium	mg/L	10	9.7	97	85 - 115	9.3	93	4	20	T
Nickel	mg/L	1	.97	97	85 - 115	.92	92	5	20	T
Zinc	mg/L	1	.97	97	85 - 115	.97	97	0	20	T

Method Blank(4356515)

Parameter	Results	Units	PQL	MDL	Lab
Aluminum	0.021 U	mg/L	0.10	0.021	T
Barium	0.0030 U	mg/L	0.010	0.0030	T
Beryllium	0.0020 U	mg/L	0.010	0.0020	T
Chromium	0.0050 U	mg/L	0.010	0.0050	T
Iron	0.0067 U	mg/L	0.10	0.0067	T
Sodium	0.80 U	mg/L	1.0	0.80	T
Nickel	0.0080 U	mg/L	0.010	0.0080	T
Zinc	0.050 U	mg/L	0.10	0.050	T

Matrix Spike (4356517); Matrix Spike Duplicate (4356518); Parent Lab Sample (A2204923003)

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: ICPt/2821
Preparation Method: EPA 200.7
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 200.7

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aluminum	mg/L	1	1.1	106	70 - 130	1.1	106	0	20	T
Barium	mg/L	1	1.1	110	70 - 130	1.1	110	0	20	T
Beryllium	mg/L	1	1.1	108	70 - 130	1.1	109	1	20	T
Chromium	mg/L	1	1	105	70 - 130	1.1	106	1	20	T
Iron	mg/L	1	1.1	109	70 - 130	1.2	113	3	20	T
Sodium	mg/L	10	130	**9**	70 - 130	130	**7**	0	20	T
Nickel	mg/L	1	1.1	109	70 - 130	1.1	108	0	20	T
Zinc	mg/L	1	1.2	109	70 - 130	1.2	110	0	20	T

Matrix Spike (4356519); Matrix Spike Duplicate (4356520); Parent Lab Sample (G2204846004)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aluminum	mg/L	1	1.1	107	70 - 130	1.1	107	0	20	T
Barium	mg/L	1	1.1	110	70 - 130	1.1	110	0	20	T
Beryllium	mg/L	1	1.1	107	70 - 130	1.1	107	0	20	T
Chromium	mg/L	1	1	105	70 - 130	1	105	0	20	T
Iron	mg/L	1	1.1	109	70 - 130	1.1	109	0	20	T
Sodium	mg/L	10	420	**428**	70 - 130	420	**438**	0	20	T
Nickel	mg/L	1	1.1	108	70 - 130	1.1	109	0	20	T
Zinc	mg/L	1	1.1	114	70 - 130	1.1	114	0	20	T

QC Result Comments

Method Blank - 4356515 - Iron

V|Method Blank Contamination

Matrix Spike Duplicate - 4356520 - Sodium

J4|Estimated Result

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: MSSj/2219
Preparation Method: SW-846 3510C
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SW-846 8270C

Method Blank(4349595)

Parameter	Results	Units	PQL	MDL	Lab
Phenol	0.54 U	ug/L	5.0	0.54	J
2-Chlorophenol	1.5 U	ug/L	5.0	1.5	J
2-Nitrophenol	0.63 U	ug/L	5.0	0.63	J
2,4-Dimethylphenol	2.6 U	ug/L	5.0	2.6	J
2,4-Dichlorophenol	0.90 U	ug/L	5.0	0.90	J
4-Chloro-3-methylphenol	0.63 U	ug/L	5.0	0.63	J
2,4,6-Trichlorophenol	1.4 U	ug/L	5.0	1.4	J
2,4-Dinitrophenol	1.1 U	ug/L	10	1.1	J
4-Nitrophenol	2.9 U	ug/L	5.0	2.9	J
2-Methyl-4,6-dinitrophenol	1.2 U	ug/L	5.0	1.2	J
N-Nitrosodimethylamine	0.93 U	ug/L	5.0	0.93	J
bis(2-Chloroethyl)Ether	1.5 U	ug/L	5.0	1.5	J
bis(2-Chloroisopropyl) Ether	1.4 U	ug/L	5.0	1.4	J
N-Nitrosodi-n-propylamine	2.2 U	ug/L	5.0	2.2	J
Hexachloroethane	1.2 U	ug/L	5.0	1.2	J
Nitrobenzene	1.1 U	ug/L	5.0	1.1	J
Isophorone	1.1 U	ug/L	5.0	1.1	J
bis(2-Chloroethoxy)methane	1.2 U	ug/L	5.0	1.2	J
Naphthalene	0.048 U	ug/L	0.20	0.048	J
Hexachlorobutadiene	1.3 U	ug/L	5.0	1.3	J
2-Chloronaphthalene	1.7 U	ug/L	5.0	1.7	J
Dimethyl phthalate	1.8 U	ug/L	10	1.8	J
2,6-Dinitrotoluene (2,6-DNT)	2.0 U	ug/L	5.0	2.0	J
Acenaphthylene	0.042 U	ug/L	0.20	0.042	J
Acenaphthene	0.040 U	ug/L	0.20	0.040	J
2,4-Dinitrotoluene (2,4-DNT)	1.8 U	ug/L	5.0	1.8	J
Diethyl phthalate	2.1 U	ug/L	5.0	2.1	J
Fluorene	0.038 U	ug/L	0.20	0.038	J
4-Chlorophenyl Phenyl Ether	1.6 U	ug/L	5.0	1.6	J
1,2-Diphenylhydrazine	0.96 U	ug/L	5.0	0.96	J
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSSj/2219
Preparation Method: SW-846 3510C
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: SW-846 8270C

Parameter	Results	Units	PQL	MDL	Lab
Phenanthrene	0.040 U	ug/L	0.20	0.040	J
Anthracene	0.035 U	ug/L	0.20	0.035	J
Di-n-Butyl Phthalate	0.88 U	ug/L	5.0	0.88	J
Fluoranthene	0.037 U	ug/L	0.20	0.037	J
Benzidine	1.2 U	ug/L	5.0	1.2	J
Pyrene	0.036 U	ug/L	0.20	0.036	J
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	J
Benzo[a]anthracene	0.012 U	ug/L	0.20	0.012	J
3,3`-Dichlorobenzidine	1.3 U	ug/L	5.0	1.3	J
Chrysene	0.033 U	ug/L	0.20	0.033	J
bis(2-Ethylhexyl) phthalate	2.0 U	ug/L	5.0	2.0	J
Di-n-octyl Phthalate	1.2 U	ug/L	5.0	1.2	J
Benzo[b]fluoranthene	0.012 U	ug/L	0.10	0.012	J
Benzo[k]fluoranthene	0.048 U	ug/L	0.20	0.048	J
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L	0.20	0.011	J
Dibenzo[a,h]anthracene	0.024 U	ug/L	0.20	0.024	J
Benzo[g,h,i]perylene	0.048 U	ug/L	0.20	0.048	J
N-Nitrosodiphenylamine	2.1 U	ug/L	5.0	2.1	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4,6-Tribromophenol (S)	mg/L	0.05	0.04	76	48 - 147	
2-Fluorobiphenyl (S)	mg/L	0.05	0.04	83	42 - 138	
2-Fluorophenol (S)	mg/L	0.05	0.05	95	31 - 134	
Nitrobenzene-d5 (S)	mg/L	0.05	0.04	84	38 - 139	
Phenol-d6 (S)	mg/L	0.05	0.05	89	24 - 120	
p-Terphenyl-d14 (S)	mg/L	0.05	0.05	94	61 - 154	

Lab Control Sample (4349596); Lab Control Sample Duplicate (4349597)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
N-Nitrosodimethylamine	ug/L	50	35	70		34	68	2		J
Phenol	ug/L	50	33	66	19 - 106	32	63	4	20	J
bis(2-Chloroethyl)Ether	ug/L	50	41	83		40	81	2		J
2-Chlorophenol	ug/L	50	40	81		39	79	3		J
bis(2-Chloroisopropyl) Ethe	ug/L	50	39	78		39	79	0		J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSSj/2219
Preparation Method: SW-846 3510C
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: SW-846 8270C

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
N-Nitrosodi-n-propylamine	ug/L	50	42	84		42	83	1		J
Hexachloroethane	ug/L	50	38	75	21 - 115	36	73	3	20	J
Nitrobenzene	ug/L	50	42	84	45 - 121	42	84	0	20	J
Isophorone	ug/L	50	43	86		42	83	3		J
2-Nitrophenol	ug/L	50	42	83		41	83	1		J
2,4-Dimethylphenol	ug/L	50	41	82		40	80	2		J
bis(2-Chloroethoxy)methan	ug/L	50	43	85		42	84	1		J
2,4-Dichlorophenol	ug/L	50	44	88	47 - 121	43	86	2	20	J
Naphthalene	ug/L	50	39	78		38	77	2		J
Hexachlorobutadiene	ug/L	50	41	82	22 - 124	40	80	1	20	J
4-Chloro-3-methylphenol	ug/L	50	44	88	52 - 119	43	86	3	20	J
2,4,6-Trichlorophenol	ug/L	50	45	90	50 - 125	44	89	1	20	J
2-Chloronaphthalene	ug/L	50	42	85		42	84	1		J
Dimethyl phthalate	ug/L	50	45	89		44	88	1		J
2,6-Dinitrotoluene (2,6-DNT	ug/L	50	46	92		46	91	0		J
Acenaphthylene	ug/L	50	44	88		45	90	2		J
Acenaphthene	ug/L	50	41	82	47 - 122	41	82	1	20	J
2,4-Dinitrophenol	ug/L	50	40	81		41	82	2		J
2,4-Dinitrotoluene (2,4-DNT	ug/L	50	46	92	57 - 128	46	93	0	20	J
4-Nitrophenol	ug/L	50	38	76		37	74	2		J
Diethyl phthalate	ug/L	50	44	89		45	89	0		J
Fluorene	ug/L	50	44	88	52 - 124	45	90	2	20	J
4-Chlorophenyl Phenyl Eth	ug/L	50	45	90		45	90	1		J
2-Methyl-4,6-dinitrophenol	ug/L	50	45	91		47	93	3		J
N-Nitrosodiphenylamine	ug/L	50	39	78		39	79	0		J
1,2-Diphenylhydrazine	ug/L	50	46	92		45	91	1		J
4-Bromophenyl Phenyl Eth	ug/L	50	45	90		44	89	1		J
Phenanthrene	ug/L	50	46	91		45	90	1		J
Anthracene	ug/L	50	45	90		44	88	2		J
Di-n-Butyl Phthalate	ug/L	50	45	90		45	89	0		J
Fluoranthene	ug/L	50	45	90	57 - 128	44	88	2	20	J
Pyrene	ug/L	50	50	100		48	96	4		J
Butyl benzyl phthalate	ug/L	50	50	100		48	96	4		J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSSj/2219
Preparation Method: SW-846 3510C
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: SW-846 8270C

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Benzo[a]anthracene	ug/L	50	53	105		50	100	5		J
Chrysene	ug/L	50	51	102		49	97	5		J
bis(2-Ethylhexyl) phthalate	ug/L	50	50	100	55 - 135	47	95	6	20	J
Di-n-octyl Phthalate	ug/L	50	48	97		48	95	2		J
Benzo[b]fluoranthene	ug/L	50	49	98		50	99	1		J
Benzo[k]fluoranthene	ug/L	50	46	92		46	91	1		J
Indeno(1,2,3-cd)pyrene	ug/L	50	45	90		45	89	1		J
Dibenzo[a,h]anthracene	ug/L	50	45	90		45	89	0		J
Benzo[g,h,i]perylene	ug/L	50	44	88		44	88	0		J
Benzidine	ug/L	50	33	66		31	62	5		J
3,3`-Dichlorobenzidine	ug/L	50	45	89		42	85	5		J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,4,6-Tribromophenol (S)	mg/L	0.05	0.04	82	48 - 147	0.04	79	4		
2-Fluorobiphenyl (S)	mg/L	0.05	0.04	81	42 - 138	0.04	80	1		
2-Fluorophenol (S)	mg/L	0.05	0.04	77	31 - 134	0.04	75	3		
Nitrobenzene-d5 (S)	mg/L	0.05	0.04	79	38 - 139	0.04	77	2		
Phenol-d6 (S)	mg/L	0.05	0.03	65	24 - 120	0.03	65	0		
p-Terphenyl-d14 (S)	mg/L	0.05	0.05	93	61 - 154	0.04	88	6		

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: MSSj/2223
Preparation Method: EPA 548.1
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 548.1

Method Blank(4349626)

Parameter	Results	Units	PQL	MDL	Lab
Endothall	6.0 U	ug/L	8.0	6.0	J

Lab Control Sample (4349627); Lab Control Sample Duplicate (4349628)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Endothall	ug/L	50	35	71	63 - 131	38	77	8	30	J

Matrix Spike (4349630); Parent Lab Sample (J2207579001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Endothall	ug/L	50	42	83	63 - 131	J

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: MSSj/2228
Preparation Method: EPA 525.2
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 525.2

Method Blank(4361241)

Parameter	Results	Units	PQL	MDL	Lab
Simazine	0.060 U	ug/L	0.50	0.060	J
Atrazine	0.090 U	ug/L	0.50	0.090	J
Alachlor	0.15 U	ug/L	0.50	0.15	J
Di(2-ethylhexyl) adipate	0.50 U	ug/L	1.0	0.50	J
bis(2-Ethylhexyl) phthalate	0.50 U	ug/L	2.0	0.50	J
Benzo[a]pyrene	0.015 U	ug/L	0.50	0.015	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	99	70 - 130	

Lab Control Sample (4361242); Lab Control Sample Duplicate (4361243)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Simazine	ug/L	2	2.2	108	70 - 130	2.1	105	3	30	J
Atrazine	ug/L	2	2.4	120	70 - 130	2.3	114	5	30	J
Alachlor	ug/L	2	2.2	108	70 - 130	2.1	104	4	30	J
Di(2-ethylhexyl) adipate	ug/L	2	2.3	117	70 - 130	2.2	111	6	30	J
bis(2-Ethylhexyl) phthalate	ug/L	2	2.4	118	70 - 130	2.2	112	6	30	J
Benzo[a]pyrene	ug/L	2	2.2	111	70 - 130	2	99	12	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	100	70 - 130	0.01	103	3		

Matrix Spike (4361245); Parent Lab Sample (J2207579001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Simazine	ug/L	2	2.4	120	70 - 130	J
Atrazine	ug/L	2	2.4	122	70 - 130	J
Alachlor	ug/L	2	2.6	**132**	70 - 130	J
Di(2-ethylhexyl) adipate	ug/L	2	2.2	108	70 - 130	J
bis(2-Ethylhexyl) phthalate	ug/L	2	3.1	**60**	70 - 130	J
Benzo[a]pyrene	ug/L	2	1.7	86	70 - 130	J

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Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSSj/2228
Preparation Method: EPA 525.2
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 525.2

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	108	70 - 130	

QC Result Comments

Matrix Spike - 4361245 - Alachlor

J4|Estimated Result

Matrix Spike - 4361245 - bis(2-Ethylhexyl) phthalate

J4|Estimated Result

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: MSVt/4317
Preparation Method: SW-846 5030B
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SW-846 8260B

Method Blank(4348325)

Parameter	Results	Units	PQL	MDL	Lab
Chloromethane	0.39 U	ug/L	1.0	0.39	T
Bromomethane	0.32 U	ug/L	1.0	0.32	T
Chloroethane	0.42 U	ug/L	1.0	0.42	T
Acrolein (Propenal)	1.8 U	ug/L	4.0	1.8	T
Acrylonitrile	0.38 U	ug/L	5.0	0.38	T
1,1-Dichloroethane	0.38 U	ug/L	1.0	0.38	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L	1.0	0.79	T
trans-1,3-Dichloropropylene	0.26 U	ug/L	1.0	0.26	T
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	T
1,3-Dichlorobenzene	0.40 U	ug/L	1.0	0.40	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	49	99	70 - 128	
Bromofluorobenzene (S)	ug/L	50	61	122	86 - 123	
Toluene-d8 (S)	ug/L	50	53	105	77 - 119	

Lab Control Sample (4348326); Lab Control Sample Duplicate (4348327)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chloromethane	ug/L	20	13	63		14	72	13		T
Bromomethane	ug/L	20	10	52		13	64	21		T
Chloroethane	ug/L	20	11	57		13	66	16		T
Acrolein (Propenal)	ug/L	100	410	410		470	470	14		T
Acrylonitrile	ug/L	20	14	72		16	82	13		T
1,1-Dichloroethane	ug/L	20	13	63		15	73	16		T
2-Chloroethyl Vinyl Ether	ug/L	20	7.9	39		7.8	39	1		T
trans-1,3-Dichloropropylene	ug/L	20	15	77		18	90	16		T
1,1,2,2-Tetrachloroethane	ug/L	20	23	114		27	133	15		T
1,3-Dichlorobenzene	ug/L	20	15	76	70 - 130	17	87	14	20	T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSVt/4317
Preparation Method: SW-846 5030B
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: SW-846 8260B

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	48	95	70 - 128	50	100	5		
Bromofluorobenzene (S)	ug/L	50	57	114	86 - 123	56	112	2		
Toluene-d8 (S)	ug/L	50	52	105	77 - 119	53	106	1		

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: MSVt/4366
Preparation Method: EPA 524.2
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 524.2

Method Blank(4358714)

Parameter	Results	Units	PQL	MDL	Lab
Chloroform	0.32 U	ug/L	1.0	0.32	T
Bromodichloromethane	0.42 U	ug/L	1.0	0.42	T
Dibromochloromethane	0.37 U	ug/L	1.0	0.37	T
Bromoform	0.45 U	ug/L	1.0	0.45	T
Total Trihalomethanes	0.45 U	ug/L	1.0	0.45	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	57	114	70 - 130	
Bromofluorobenzene (S)	ug/L	50	46	92	70 - 130	
Toluene-d8 (S)	ug/L	50	48	96	70 - 130	

Lab Control Sample (4358715); Lab Control Sample Duplicate (4358716)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chloroform	ug/L	20	18.84	94	80 - 105	19.28	96	2	15	T
Bromodichloromethane	ug/L	20	18.36	92	80 - 105	18.81	94	2	15	T
Dibromochloromethane	ug/L	20	19.49	97	80 - 105	19.76	99	1	15	T
Bromoform	ug/L	20	18.87	94	80 - 105	19.56	98	4	15	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	57	113	70 - 130	56	111	2		
Bromofluorobenzene (S)	ug/L	50	44	88	70 - 130	45	89	2		
Toluene-d8 (S)	ug/L	50	47	95	70 - 130	48	95	1		

Matrix Spike (4358717); Parent Lab Sample (T2211291001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chloroform	ug/L	20	18.71	94	80 - 105	T
Bromodichloromethane	ug/L	20	18.4	92	80 - 105	T
Dibromochloromethane	ug/L	20	19.57	98	80 - 105	T
Bromoform	ug/L	20	18.87	94	80 - 105	T

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Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSVt/4366
Preparation Method: EPA 524.2
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 524.2

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	57	114	70 - 130	
Bromofluorobenzene (S)	ug/L	50	46	91	70 - 130	
Toluene-d8 (S)	ug/L	50	48	97	70 - 130	

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: MSVt/4367
Preparation Method: EPA 524.2
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 524.2

Method Blank(4358718)

Parameter	Results	Units	PQL	MDL	Lab
Vinyl Chloride	0.29 U	ug/L	1.0	0.29	T
1,1-Dichloroethylene	0.22 U	ug/L	1.0	0.22	T
Methylene Chloride	0.44 U	ug/L	1.0	0.44	T
trans-1,2-Dichloroethylene	0.21 U	ug/L	1.0	0.21	T
cis-1,2-Dichloroethylene	0.27 U	ug/L	1.0	0.27	T
1,2-Dichloroethane	0.24 U	ug/L	1.0	0.24	T
1,1,1-Trichloroethane	0.29 U	ug/L	1.0	0.29	T
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	T
Benzene	0.26 U	ug/L	1.0	0.26	T
1,2-Dichloropropane	0.26 U	ug/L	1.0	0.26	T
Trichloroethene	0.14 U	ug/L	1.0	0.14	T
1,1,2-Trichloroethane	0.27 U	ug/L	1.0	0.27	T
Toluene	0.33 U	ug/L	1.0	0.33	T
Tetrachloroethylene (PCE)	0.42 U	ug/L	1.0	0.42	T
Chlorobenzene	0.36 U	ug/L	1.0	0.36	T
Ethylbenzene	0.31 U	ug/L	1.0	0.31	T
Styrene	0.25 U	ug/L	1.0	0.25	T
1,4-Dichlorobenzene	0.33 U	ug/L	1.0	0.33	T
1,2-Dichlorobenzene	0.39 U	ug/L	1.0	0.39	T
1,2,4-Trichlorobenzene	0.44 U	ug/L	1.0	0.44	T
Xylene (Total)	0.44 U	ug/L	3.0	0.44	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	57	114	70 - 130	
Bromofluorobenzene (S)	ug/L	50	46	92	70 - 130	
Toluene-d8 (S)	ug/L	50	48	96	70 - 130	

Lab Control Sample (4358719); Lab Control Sample Duplicate (4358720)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Vinyl Chloride	ug/L	20	21	107	70 - 130	24	120	12	30	T
1,1-Dichloroethylene	ug/L	20	22	110	70 - 130	22	111	1	30	T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSVt/4367
Preparation Method: EPA 524.2
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 524.2

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Methylene Chloride	ug/L	20	23	114	70 - 130	23	114	1	30	T
trans-1,2-Dichloroethylene	ug/L	20	20	98	70 - 130	20	98	1	30	T
cis-1,2-Dichloroethylene	ug/L	20	19	96	70 - 130	19	95	1	30	T
1,2-Dichloroethane	ug/L	20	23	117	70 - 130	23	116	1	30	T
1,1,1-Trichloroethane	ug/L	20	21	103	70 - 130	21	103	0	30	T
Carbon Tetrachloride	ug/L	20	21	107	70 - 130	21	107	0	30	T
Benzene	ug/L	20	17	86	70 - 130	18	88	2	30	T
1,2-Dichloropropane	ug/L	20	22	112	70 - 130	22	110	2	30	T
Trichloroethene	ug/L	20	24	122	70 - 130	25	125	2	30	T
1,1,2-Trichloroethane	ug/L	20	17	87	70 - 130	17	87	0	30	T
Toluene	ug/L	20	18	90	70 - 130	18	91	1	30	T
Tetrachloroethylene (PCE)	ug/L	20	19	94	70 - 130	19	97	4	30	T
Chlorobenzene	ug/L	20	19	97	70 - 130	19	97	0	30	T
Ethylbenzene	ug/L	20	18	92	70 - 130	19	94	2	30	T
Styrene	ug/L	20	19	97	70 - 130	20	99	3	30	T
1,4-Dichlorobenzene	ug/L	20	19	94	70 - 130	19	97	3	30	T
1,2-Dichlorobenzene	ug/L	20	19	94	70 - 130	19	95	1	30	T
1,2,4-Trichlorobenzene	ug/L	20	17	85	70 - 130	17	86	2	30	T
Xylene (Total)	ug/L	60	57	95	70 - 130	58	96	1	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	57	114	70 - 130	56	111	2		
Bromofluorobenzene (S)	ug/L	50	44	88	70 - 130	45	89	2		
Toluene-d8 (S)	ug/L	50	47	95	70 - 130	48	95	1		

Matrix Spike (4358721); Parent Lab Sample (A2204974001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Vinyl Chloride	ug/L	20	24	122	70 - 130	T
1,1-Dichloroethylene	ug/L	20	21	107	70 - 130	T
Methylene Chloride	ug/L	20	22	109	70 - 130	T
trans-1,2-Dichloroethylene	ug/L	20	19	95	70 - 130	T
cis-1,2-Dichloroethylene	ug/L	20	18	92	70 - 130	T
1,2-Dichloroethane	ug/L	20	22	111	70 - 130	T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Batch: MSVt/4367
Preparation Method: EPA 524.2
Associated Lab IDs: T2211414001, T2211414002

Analysis Method: EPA 524.2

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,1,1-Trichloroethane	ug/L	20	20	101	70 - 130	T
Carbon Tetrachloride	ug/L	20	20	102	70 - 130	T
Benzene	ug/L	20	17	86	70 - 130	T
1,2-Dichloropropane	ug/L	20	21	105	70 - 130	T
Trichloroethene	ug/L	20	24	119	70 - 130	T
1,1,2-Trichloroethane	ug/L	20	17	85	70 - 130	T
Toluene	ug/L	20	18	88	70 - 130	T
Tetrachloroethylene (PCE)	ug/L	20	19	94	70 - 130	T
Chlorobenzene	ug/L	20	18	92	70 - 130	T
Ethylbenzene	ug/L	20	17	87	70 - 130	T
Styrene	ug/L	20	18	92	70 - 130	T
1,4-Dichlorobenzene	ug/L	20	18	92	70 - 130	T
1,2-Dichlorobenzene	ug/L	20	19	93	70 - 130	T
1,2,4-Trichlorobenzene	ug/L	20	16	82	70 - 130	T
Xylene (Total)	ug/L	60	53	89	70 - 130	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	57	114	70 - 130	
Bromofluorobenzene (S)	ug/L	50	46	91	70 - 130	
Toluene-d8 (S)	ug/L	50	48	97	70 - 130	

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAg/6828
Preparation Method: SM 5540 C
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SM 5540 C

Method Blank(4346056)

Parameter	Results	Units	PQL	MDL	Lab
MBAS,as LAS,mol.wt.348	0.040 U	mg/L	0.20	0.040	G

Matrix Spike (4346057); Matrix Spike Duplicate (4346058); Parent Lab Sample (T2211317001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
MBAS,as LAS,mol.wt.348	mg/L	1	1	91	40 - 139	1	92	1	20	G

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12719
Preparation Method: SM 5210B
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SM 5210B

Method Blank(4344559)

Parameter	Results	Units	PQL	MDL	Lab
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	T

Lab Control Sample (4344560)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Biochemical Oxygen Demand	mg/L	198	182	92	84.60 - 115.40	T

Sample Duplicate (4344561)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Biochemical Oxygen Demand	462.4	452.65	mg/L	2	20	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12723
Preparation Method: SM 3500-CR D
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SM 3500-CR D

Method Blank(4344893)

Parameter	Results	Units	PQL	MDL	Lab
Hexavalent Chromium	0.0021 U	mg/L	0.010	0.0021	T

Lab Control Sample (4344895)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Hexavalent Chromium	mg/L	0.10	.1	102	90 - 110	T

Matrix Spike (4344896); Matrix Spike Duplicate (4344897); Parent Lab Sample (T2211414001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Hexavalent Chromium	mg/L	0.10	.1	100	85 - 115	.1	100	0	20	T

Method Blank(4344899)

Parameter	Results	Units	PQL	MDL	Lab
Hexavalent Chromium	0.0021 U	mg/L	0.010	0.0021	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12724
Preparation Method: SM 4500NO3-F
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SM 4500NO3-F

Method Blank(4345030)

Parameter	Results	Units	PQL	MDL	Lab
Nitrate (as N)	0.092 U	mg/L	0.10	0.092	T
Nitrite (as N)	0.081 U	mg/L	0.10	0.081	T

Lab Control Sample (4345031)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrate (as N)	mg/L	1	.9	92	90 - 110	T
Nitrite (as N)	mg/L	1	.9	92	90 - 110	T

Matrix Spike (4345032); Matrix Spike Duplicate (4345033); Parent Lab Sample (T2211327001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	1	2	109	90 - 110	2	108	0	10	T
Nitrite (as N)	mg/L	1	1	101	90 - 110	1	101	0	10	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12729
Preparation Method: SM 2120 B
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SM 2120 B

Method Blank(4345532)

Parameter	Results	Units	PQL	MDL	Lab
Color	4.3 U	PCU	5.0	4.3	T

Lab Control Sample (4345533)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Color	PCU	30	29	95	90 - 110	T

Sample Duplicate (4345535)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Color	751.72	736.21	PCU	2	20	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12740
Preparation Method: SM 2150 B
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SM 2150 B

Sample Duplicate (4346670)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Odor	16.7	16.7	TON @ 40°	0		T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12777
Preparation Method: SM 2540D
Associated Lab IDs: T2211414002
Analysis Method: SM 2540D

Method Blank(4349263)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	T

Lab Control Sample (4349264)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	224	112	85 - 115	T

Sample Duplicate (4349265)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	2150	2270	mg/L	5	10	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12778
Preparation Method: SM 2540D
Associated Lab IDs: T2211414001
Analysis Method: SM 2540D

Method Blank(4349266)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	T

Lab Control Sample (4349267)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	188	94	85 - 115	T

Sample Duplicate (4349268)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	1660	1720	mg/L	4	10	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12786
Preparation Method: EPA 410.4
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 410.4

Method Blank(4349511)

Parameter	Results	Units	PQL	MDL	Lab
Chemical Oxygen Demand	20 U	mg/L	50	20	T

Lab Control Sample (4349512)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chemical Oxygen Demand	mg/L	500	513	103	90 - 110	T

Matrix Spike (4349518); Matrix Spike Duplicate (4349519); Parent Lab Sample (T2211356001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	2070	103	90 - 110	2070	103	0	10	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12816
Preparation Method: SM 2540 C
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: SM 2540 C

Method Blank(4351262)

Parameter	Results	Units	PQL	MDL	Lab
Total Dissolved Solids	10 U	mg/L	10	10	T

Lab Control Sample (4351263)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	700	106	85 - 115	T

Sample Duplicate (4351264)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	200	202	mg/L	1	10	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12827
Preparation Method: EPA 300.0
Associated Lab IDs: T2211414001, T2211414002
Analysis Method: EPA 300.0

Method Blank(4351845)

Parameter	Results	Units	PQL	MDL	Lab
Fluoride	0.20 U	mg/L	0.50	0.20	T
Chloride	1.0 U	mg/L	5.0	1.0	T
Sulfate	1.0 U	mg/L	5.0	1.0	T

Lab Control Sample (4351846)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Fluoride	mg/L	2.50	2.5	102	90 - 110	T
Chloride	mg/L	25	25	100	90 - 110	T
Sulfate	mg/L	25	25	101	90 - 110	T

Matrix Spike (4351847); Matrix Spike Duplicate (4351848); Parent Lab Sample (T2211539007)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Fluoride	mg/L	2	2.1	103	90 - 110	2	98	5	10	T
Chloride	mg/L	20	120	**-4**	90 - 110	120	**-7**	1	10	T
Sulfate	mg/L	20	47	**-260**	90 - 110	41	**-289**	**14**	10	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12872
Preparation Method: SM 4500-CN-E
Associated Lab IDs: T2211414002
Analysis Method: SM 4500-CN-E

Method Blank(4355499)

Parameter	Results	Units	PQL	MDL	Lab
Cyanide	0.0040 U	mg/L	0.010	0.0040	T

Lab Control Sample (4355500)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Cyanide	mg/L	0.04	.04	101	90 - 110	T

Sample Duplicate (4355501)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Cyanide	0	0	mg/L	-200	10	T

Matrix Spike (4355502); Matrix Spike Duplicate (4355503); Parent Lab Sample (M2203279001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cyanide	mg/L	0.04	.04	102	90 - 110	.04	104	2	10	T

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Workorder: SELF Plant Effluent (T2211414)

QC Results

QC Batch: WCAt/12994
Preparation Method: SM 4500-CN-E
Associated Lab IDs: T2211414001
Analysis Method: SM 4500-CN-E

Method Blank(4361257)

Parameter	Results	Units	PQL	MDL	Lab
Cyanide	0.0040 U	mg/L	0.010	0.0040	T

Lab Control Sample (4361258); Lab Control Sample Duplicate (4361259)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cyanide	mg/L	0.04	.04	106	90 - 110	.04	104	2	10	T

Sample Duplicate (4361260)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Cyanide	0	0	mg/L	-200	10	T

Matrix Spike (4361261); Matrix Spike Duplicate (4361262); Parent Lab Sample (T2211604001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cyanide	mg/L	0.04	.04	92	90 - 110	.04	92	0	10	T

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
CVAt/1669 - EPA 245.1			
T2211414001	Leachate Effluent	DGMt/4031	EPA 245.1
T2211414002	Field Blank	DGMt/4031	EPA 245.1
GCSj/3330 - EPA 515.3			
T2211414001	Leachate Effluent	GCSj/3329	EPA 515.3
T2211414002	Field Blank	GCSj/3329	EPA 515.3
GCSj/3335 - EPA 508			
T2211414001	Leachate Effluent	EXTj/4234	EPA 508
T2211414002	Field Blank	EXTj/4234	EPA 508
GCSm/2240 - EPA 8081			
T2211414001	Leachate Effluent	EXTm/3059	SW-846 3510C
T2211414002	Field Blank	EXTm/3059	SW-846 3510C
GCSm/2241 - SW-846 8082A			
T2211414001	Leachate Effluent	EXTm/3061	SW-846 3510C
T2211414002	Field Blank	EXTm/3061	SW-846 3510C
GCSt/2363 - EPA 552.2			
T2211414002	Field Blank	GCSt/2361	EPA 552.2
GCSt/2364 - EPA 504.1			
T2211414001	Leachate Effluent	EXTt/2896	EPA 504.1
T2211414002	Field Blank	EXTt/2896	EPA 504.1
HPLj/1529 - EPA 547			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
HPLj/1531 - EPA 549.2			
T2211414001	Leachate Effluent	EXTj/4204	EPA 549.2
T2211414002	Field Blank	EXTj/4204	EPA 549.2
HPLj/1534 - EPA 531.1			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		

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FINAL

Workorder: SELF Plant Effluent (T2211414)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
ICMj/2085 - EPA 200.8			
T2211414001	Leachate Effluent	DGMj/3540	EPA 200.8
T2211414002	Field Blank	DGMj/3540	EPA 200.8
ICPt/2821 - EPA 200.7			
T2211414001	Leachate Effluent	DGMt/4050	EPA 200.7
T2211414002	Field Blank	DGMt/4050	EPA 200.7
MSSj/2219 - SW-846 8270C			
T2211414001	Leachate Effluent	EXTj/4221	SW-846 3510C
T2211414002	Field Blank	EXTj/4221	SW-846 3510C
MSSj/2223 - EPA 548.1			
T2211414001	Leachate Effluent	EXTj/4226	EPA 548.1
T2211414002	Field Blank	EXTj/4226	EPA 548.1
MSSj/2228 - EPA 525.2			
T2211414001	Leachate Effluent	EXTj/4269	EPA 525.2
T2211414002	Field Blank	EXTj/4269	EPA 525.2
MSVt/4317 - SW-846 8260B			
T2211414001	Leachate Effluent	MSVt/4316	SW-846 5030B
T2211414002	Field Blank	MSVt/4316	SW-846 5030B
MSVt/4366 - EPA 524.2			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
MSVt/4367 - EPA 524.2			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAg/6828 - SM 5540 C			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12719 - SM 5210B			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		

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Workorder: SELF Plant Effluent (T2211414)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/12723 - SM 3500-CR D			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12724 - SM 4500NO3-F			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12729 - SM 2120 B			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12740 - SM 2150 B			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12777 - SM 2540D			
T2211414002	Field Blank		
WCAt/12778 - SM 2540D			
T2211414001	Leachate Effluent		
WCAt/12786 - EPA 410.4			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12816 - SM 2540 C			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12827 - EPA 300.0			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12867 - SM 4500H+B			
T2211414001	Leachate Effluent		
T2211414002	Field Blank		
WCAt/12872 - SM 4500-CN-E			
T2211414002	Field Blank		

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Workorder: SELF Plant Effluent (T2211414)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/12994 - SM 4500-CN-E			
T2211414001	Leachate Effluent		

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☐ Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
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☐ Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
☐ Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
☒ Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

Client Name:	Hills. Co. Public Utilities	Project Name:	SELF Plant Effluent
Address:	332 North Falkenburg Rd	Project Number:	N/A
	Tampa, FL 33619	PO Number:	N/A
Phone:	(813) 663-3222	FDEP Facility No:	
FAX:	(813) 274-6801	FDEP Facility Addr:	15960 CR 672
Contact:	Michael Townsel		
Sampled By:	M. Morales	Special Instructions:	
Turn Around Time:	(Standard) Rush		
AEL Profile #:	35467	ADaPT EQuIS Other	

T2211414

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	PDWS 62.550.310	SDWS 62.550.320	Priority Pollutants	COD	BOD	TDS	TSS	Nitrate			LABORATORY I.D. NUMBER
							Preservation											
							Field-Filtered?											
	Leachate Effluent	G	6/8/22	1025	WW	44		X	X	X	X	X	X	X	X			001
	Field Blank	-	6/8/22	933	DI	44		X	X	X	X	X	X	X	X			002
	Travel Blank	-			-			X										003

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge

Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☒ Where required, pH checked

Temp. when received (observed) 4 °C Temp. when received (corrected) _____ °C

DCN: AD-D051web Form last revised 08/07/2019

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 (T: 10A) A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	M. Morales	6/8/22	1353		6/8/22	1353
2						
3						
4						

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID: _____

Contact Person: _____

Supplier of Water: _____

Site-Address: _____

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Workorder: SELF Plant Effluent (T2211414)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Field Blank	SAMPLE ID: Field Blank	DATE: 6/8/22

PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

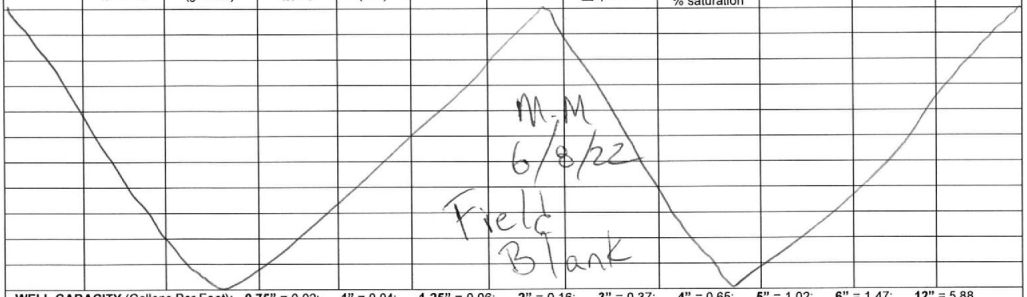
= (N/A feet – N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: N/A	PURGING ENDED AT: N/A	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)



WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M Morales	SAMPLER(S) SIGNATURE(S): M. Morales	SAMPLING INITIATED AT: 933	SAMPLING ENDED AT: 955
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS**

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Certificate of Analysis
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POWERED BY HORIZON v.13.0.0

NELAP Accredited E84589

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (813) 630-9616
Fax: (813) 630-4327

FINAL

Workorder: SELF Plant Effluent (T2211414)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SITE LOCATION	DATE
Southeast County Landfill - Plant	Lithia, Florida	6/8/22
WELL NO: Leachate Effluent	SAMPLE ID: Leachate Effluent	

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
N/A	N/A	N/A ft to N/A ft	N/A	Valve

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (N/A feet – N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
N/A	N/A	N/A	N/A	N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1025	N/A	N/A	N/A	N/A	7.28	30.1	26918	1.96	N/A	Brown	Leachate

M. M 6/8/22

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT	SAMPLING ENDED AT
M. Morales	M. Morales	10:25	

PUMP OR TUBING DEPTH IN WELL (feet)	TUBING MATERIAL CODE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
N/A	N/A		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS** **ORP:** 1625 (128.1)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Certificate of Analysis

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NELAP Accredited E84589

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation:

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The matrix spike recovery of Chloride and Sulfate for T2211539007 and Chloride for T2211539017 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) is acceptable, which indicates the analytical batch was in control. No further corrective action was required.

Internal Standard: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 515.3

Preparation: EPA 515.3

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes

The upper control criterion was exceeded for the following analyte in the matrix spike for analytical batch 3330: 2,4-D(144%REC, limit 70-130%), Dinoseb (136% REC, limit 70-130%). The analyte(s) in question was not detected in the associated client samples. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control.The error associated with elevated recovery equates to a high bias. The quality of the data is not affected. No further corrective action was required.

Internal Standard: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 200.7

Preparation: EPA 200.7

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The matrix spike (MS) and Matrix Spike Duplicate (MSD) recoveries of Calcium and Sodium for A2204923003 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. No further corrective action is required.

The matrix spike (MS) and Matrix Spike Duplicate (MSD) recoveries of Calcium and Potassium for G2204846004 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. No further corrective action is required.

Internal Standard: Samples T2211259001 and -002 were rerun at a dilution do to a failure of the internal standard.

Samples: All acceptance criteria were met.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 525.2

Preparation: EPA 525.2

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: The upper control criterion was exceeded for the surrogate p-Terphenyl-d14 in the sample T2211414001 (acceptance criteria 70-130%, recovery 139%). No target analytes were detected in the samples. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected. No further corrective action was required.

Spikes

The upper control criterion (130%) was exceeded for the analytes Simazine (182%) and Atrazine (193%) in the matrix spike for analytical batch 2228. The analytes in question were not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The quality of the data is not affected. No further corrective action was required.

The matrix spike (MS) recovery of Benzo[a]pyrene (40%) for J2207574001 was outside control criteria (70-130%). Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

The upper control criterion (130%) was exceeded for the analyte Alachlor (132%) in the matrix spike for analytical batch 2228. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The quality of the data is not affected. No further corrective action was required.

The matrix spike (MS) recovery of Bis(2-ethylhexyl)phthalate (60%) for J2207579001 was outside control criteria (70-130%). Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

Internal Standard:	The lower control criteria was exceeded for the internal standard recoveries for the samples 4361244MS, S2201535005 and T2211414001. A low recovery of the internal standards equates to a high bias in the sample. No target analytes were detected with their associated failing internals in the samples which indicates that the quality of the data is not affected. No further corrective action was required.
Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation:	All holding times were met.
Analysis:	All holding times were met.

III. Method

Analysis:	EPA 548.1
Preparation:	EPA 548.1

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration:	All acceptance criteria were met.
Blanks:	All acceptance criteria were met.
Surrogates:	All acceptance criteria were met.
Spikes	The matrix spike (MS) recovery (32%) of Endothall for J2207574001 was outside control criteria (63-131%). Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The data was flagged accordingly.
Internal Standard:	All acceptance criteria were met.
Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 8081

Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for several target analytes in Continuing Calibration Verification (CCV) standards for analytical batch 2240, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates: The upper control criterion was exceeded for the surrogates in sample T2211414001. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected, as internal recoveries were within acceptance criteria of the ICAL and are consistent with quality control samples. The outlier surrogates are qualified with a J4 to indicate potential matrix interference

The lower control criteria were exceeded for surrogate(s) DCB in T2211414001 , T2211414002 , T2211365014. The associated QC analysis recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outliers were flagged accordingly. No further corrective action was required.

The control criteria for the following surrogates in M2203379001are not applicable: TCMX / DCB. The analysis of the sample required a dilution, which results in an undetected surrogate concentration. The surrogate(s) were qualified as being diluted out.

Spikes	Due to insufficient sample to perform the matrix spikes that are required by the method, a Laboratory Control Spike (LCS) and LCS duplicate (LCSD) were analyzed for quality control in this analytical batch. The LCS recoveries of EI were outside control criteria. Recoveries in the Laboratory Control Sample Duplicate (LCSD) and Matrix Spike (MS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The offending analytes were not detected in the client sample. No further corrective action is required.
Internal Standard:	All acceptance criteria were met.
Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation:	All holding times were met.
Analysis:	All holding times were met.

III. Method

Analysis:	EPA 549.2
Preparation:	EPA 549.2

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration:	All acceptance criteria were met.
Blanks:	All acceptance criteria were met.
Surrogates:	All acceptance criteria were met.
Spikes	The matrix spike (MS) recoveries of Diquat for J2207579001 (at 18%) were outside control criteria (Range 70-130%). Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.
Internal Standard:	All acceptance criteria were met.
Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8270C

Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for several target analytes in Continuing Calibration Verification (CCV) standards for analytical batch 2219, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates: The control criteria for 2-Flourophenol, Phenol-d6 and 2,4,6-Tribromophenol in T2211414001 and Phenol-d6 in T2211414002 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

Spikes All acceptance criteria were met.

Internal Standard: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8082A

Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for several target analytes in Continuing Calibration Verification (CCV) standards for analytical batch 2241, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates: The control criteria for the following surrogates M2203379001 are not applicable: TCMX / DCB. The analysis of the sample required a dilution, which results in an undetected surrogate concentration. The surrogate(s) were qualified as being diluted out.

The lower control criteria were exceeded for surrogate(s) TCMX in M2203264001 ; DCB in T2211414001. The associated QC analysis recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outliers were flagged accordingly. No further corrective action was required.

The upper control criterion was exceeded for the surrogates in sample T22011414001. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected, as internal recoveries were within acceptance criteria of the ICAL and are consistent with quality control samples. The outlier surrogates are qualified with a J4 to indicate potential matrix interference

Spikes	Due to insufficient sample to perform the matrix spikes that are required by the method, a Laboratory Control Spike (LCS) and LCS duplicate (LCSD) were analyzed for quality control in this analytical batch. The relative percent difference (RPD) for ARO 1016 between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 4351090 in comparison with 4351091. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.
Internal Standard:	All acceptance criteria were met.
Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2211414
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 200.8

Preparation: EPA 200.8

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for the following analytes in the closing Initial Calibration Verification (ICV): Antimony. The client samples analyzed in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes All acceptance criteria were met.

Internal Standard: Due to non-target background analytes, the proper quantitation of the internal standard in T2211414001, G2204796001, J2207834001, J2207849001, J2207849002, and J2207849003 was obstructed. In order to return the internal standard to within acceptance limits, this sample was analyzed at a dilution.

Samples: All acceptance criteria were met.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025

Report Date: June 21, 2022

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: T2211414001
Sample Collection: 06-08-22/1025
Lab ID No: 22.7849
Lab Custody Date: 06-09-22/1520
Sample Description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	28.9 ± 2.6	6-16-22/0802	EPA 00-02	1.1
Combined Radium (Radium-226 + Radium 228)	pCi/l	16.3 ± 1.3	Calc	Calc	0.4
Radium-226	pCi/l	16.3 ± 1.3	6-20-22/1529	EPA 903.0*	0.4
Radium-228	pCi/l	0.6 U ± 0.5	6-17-22/1641	EPA Ra-05	0.6

Alpha Standard: Th-230

* 107% carrier recovery
U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

KNL ENVIRONMENTAL TESTING, INC. | 3202 NORTH FLORIDA AVENUE | TAMPA, FLORIDA 33603
813.229.2879 | KNLENVIRONMENTAL.COM

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025

Report Date: June 21, 2022

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: T2211414002
Sample Collection: 06-08-22/0933
Lab ID No: 22.7850
Lab Custody Date: 06-09-22/1520
Sample Description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.7 U ± 0.4	6-15-22/0005	EPA 900.0	0.7
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.2 U ± 0.1	Calc	Calc	0.2
Radium-226	pCi/l	0.2 U ± 0.1	6-20-22/1529	EPA 903.0*	0.2
Radium-228	pCi/l	0.7 U ± 0.4	6-21-22/1245	EPA Ra-05	0.7

Alpha Standard: Th-230

* 114% carrier recovery
U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

Advanced Environmental Laboratories, Inc.

☐ **Altamonte Springs:** 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E53076
☐ **Fort Myers:** 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ **Jacksonville:** 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ **Tallahassee:** 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095
☐ **Gainesville:** 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
☐ **Miramar:** 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
☐ **Tampa:** 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

Page_____ of _____

Client Name:	Advanced Environmental Lab
Address:	Tampa Fl 33619
Phone:	813-630-9616
FAX:	813-630-4327
Contact:	mcammarata@aellab.com
Sampled By:	
Turn Around Time: ☐ STANDARD ☐ RUSH	
AEL Profile #:	

Project Name:T2211414
Project Number:
PO Number: TPO 17361
FDEP Facility No:
FDEP Facility Address:
Even though matrix WA please include DW report along with EVN report
☐ADaPT ☐EQuIS ☐ Other

Rush 6/21

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	RAD 226	RAD 228	Gros Alpha	LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE								4		
ANALYSIS REQUIRED							RAD 226	RAD 228	Gros Alpha	
Preservation										
Field-Filtered?										
22.7849	T2211414001		06.08.22	10:25	WA	1	X	X	X	
22.7850	T2211414002		06.08.22	9:33	WA	1	X	X	X	

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge

Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☐Yes ☐No ☐Temp taken from sample ☐ Temp from blank ☐Where required, pH checked Temp. when received (observed)_____ °C Temp. when received (corrected)_____ °C

DCN: AD-D051 Form last revised 08/07/2019

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Kaitlyn Pasqualini	06.09.22	9:00	RS	6/9/22	1520
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:_____
Contact Person:_____ Phone :_____
Supplier of Water:_____
Site-Address:_____

CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421
www.capefearanalytical.com

July 12, 2022

Mr. Michael Cammarata
Advanced Environmental Laboratories, Incorporated
9610 Princess Palm Avenue
Tampa, Florida 33619

Re: Dioxin Subcontract - Tampa
Work Order: 19945
SDG: T2212414

Dear Mr. Cammarata:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 28, 2022. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Cynde Larkins

Cynde Larkins
Project Manager

Purchase Order: T-PO-17513
Enclosures

problem solved

Work Order: 19945

Advanced Environmental Laboratories, Inc.

☐ **Altamonte Springs:** 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E53076
☐ **Fort Myers:** 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ **Jacksonville:** 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ **Tallahassee:** 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095
☐ **Gainesville:** 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
☐ **Miramar:** 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
☐ **Tampa:** 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

CFA NO #19945

Client Name:	Advanced Environmental Lab	Project Name: T2212414	
Address:	Tampa Fl 33619	Project Number:	
		PO Number: TPO 17513	
Phone:	813-630-9616	FDEP Facility No:	
FAX:	813-630-4327	FDEP Facility Address:	
Contact:	mcammarata@aellab.com		
Sampled By:		Even though matrix WA please include DW report along with EVN report	
Turn Around Time: ☐ STANDARD ☑ RUSH			
AEL Profile #:		☐ ADaPT ☐ EQuIS ☐ Other	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED: Dioxin	LABORATORY I.D. NUMBER
							Preservation		
							Field-Filtered?		
	T2212414001		06.22.22	9:05	WA	1		X	
	T2212414002		06.22.22	8:58	WA	1		X	

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge

Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked

Temp. when received (observed) 4.7 °C Temp. when received (corrected) 4.8 °C

DCN: AD-D051 Form last revised 08/07/2019

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Kaitlyn Pasqualini	06.27.22	6:00	Cyndi Karkins	28JUN22	1019
2						
3						
4						

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone : _____

Supplier of Water: _____

Site-Address: _____

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

Client: AELI	Work Order: 19945
Shipping Company: FedEx	Date/Time Received: 28JUN22 1019

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			✓
Samples identified as Foreign Soil?			✓

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?		✓	
Samples < 2x background?		✓	

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			✓

Air Witness: _____

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?			✓	Seal intact? Yes No
3	Chain of Custody documents included with shipment?	✓			
4	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: Temperature Blank present: Yes (No) ice bags (loose ice) blue ice dry ice none other (describe) 4.7° + 0.1 = 4.8°C
5	Aqueous samples found to have visible solids?	✓			Sample IDs, containers affected: -001 has minimal visible solids (<1%)
5	Samples requiring chemical preservation at proper pH?		✓		Sample IDs, containers affected and pH observed: pH=9 on -001 pH=8 on -002 If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	✓			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	✓			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	✓			Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?	✓			List type and number of containers / Sample IDs, containers affected: 1-1L NMAG bottle per sample 2 total
12	COC form is properly signed in relinquished/received sections?	✓			

Comments:

 Performed by: Initials: CF Date: 28JUN22 CF-UD-F-7

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
Advanced Environmental Laboratories, Incorporated (AELI)
SDG T2212414
Work Order 19945

Method/Analysis Information

Product:	**TCDD Only by EPA Method 1613B in Liquids**
Analytical Method:	EPA Method 1613B
Extraction Method:	SW846 3520C
Analytical Batch Number:	50329
Clean Up Batch Number:	50328
Extraction Batch Number:	50327

Sample Analysis

Samples were received within temperature requirements at 4.8°C (19945001, 19945002). The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12032213	Method Blank (MB)
12032214	Laboratory Control Sample (LCS)
12032215	Laboratory Control Sample Duplicate (LCSD)
19945001	T2212414001
19945002	T2212414002

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 20.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Manual Integrations
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies

of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP750_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report
for

AELI001 Advanced Environmental Laboratories, Incorporated

Client SDG: T2212414 CFA Work Order: 19945

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the specified detection limit.

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature:  **Name: Alexis Finks**

Date: 12 JUL 2022 **Title: Data Validator**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2212414**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**19945001**	**Date Collected:**	**06/22/2022 09:05**	**Matrix:**	**WATER**
Client Sample:	**1613B TCDD Water**	**Date Received:**	**06/28/2022 10:19**		
Client ID:	**T2212414001**			**Prep Basis:**	**As Received**
Batch ID:	**50329**	**Method:**	**EPA Method 1613B**		
Run Date:	**07/11/2022 01:02**	**Analyst:**	**MW1**	**Instrument:**	**HRP750**
Data File:	**A07JUL22A_8-4**			**Dilution:**	**1**
Prep Batch:	**50327**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**05-JUL-22**	**Prep Aliquot:**	**935.2 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD	U	10.7	pg/L	10.7

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1440	2140	pg/L	67.2	(31%-137%)
37Cl-2,3,7,8-TCDD		212	214	pg/L	98.9	(42%-164%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2212414**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**19945002**	**Date Collected:**	**06/22/2022 08:58**	**Matrix:**	**WATER**
Client Sample:	**1613B TCDD Water**	**Date Received:**	**06/28/2022 10:19**		
Client ID:	**T2212414002**			**Prep Basis:**	**As Received**
Batch ID:	**50329**	**Method:**	**EPA Method 1613B**		
Run Date:	**07/11/2022 01:52**	**Analyst:**	**MW1**	**Instrument:**	**HRP750**
Data File:	**A07JUL22A_8-5**			**Dilution:**	**1**
Prep Batch:	**50327**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**05-JUL-22**	**Prep Aliquot:**	**978.8 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD	U	10.2	pg/L	10.2

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1460	2040	pg/L	71.5	(31%-137%)
37Cl-2,3,7,8-TCDD		201	204	pg/L	98.2	(42%-164%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Quality Control Summary

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: T2212414

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12032214	LCS for batch 50327	13C-2,3,7,8-TCDD		78.2	(25%-141%)
		37Cl-2,3,7,8-TCDD		103	(37%-158%)
12032215	LCSD for batch 50327	13C-2,3,7,8-TCDD		80.9	(25%-141%)
		37Cl-2,3,7,8-TCDD		95.5	(37%-158%)
12032213	MB for batch 50327	13C-2,3,7,8-TCDD		76.4	(31%-137%)
		37Cl-2,3,7,8-TCDD		99.4	(42%-164%)
19945001	T2212414001	13C-2,3,7,8-TCDD		67.2	(31%-137%)
		37Cl-2,3,7,8-TCDD		98.9	(42%-164%)
19945002	T2212414002	13C-2,3,7,8-TCDD		71.5	(31%-137%)
		37Cl-2,3,7,8-TCDD		98.2	(42%-164%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **T2212414** **Sample Type:** **Laboratory Control Sample**

Client ID: **LCS for batch 50327** **Matrix:** **WATER**

Lab Sample ID: **12032214**

Instrument: **HRP750** **Analysis Date:** **07/10/2022 10:47** **Dilution:** **1**

Analyst: **MW1** **Prep Batch ID:** **50327**

Batch ID: **50329**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	190	94.8	73-146

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **T2212414** **Sample Type:** **Laboratory Control Sample Duplicate**

Client ID: **LCSD for batch 50327** **Matrix:** **WATER**

Lab Sample ID: **12032215**

Instrument: **HRP750** **Analysis Date:** **07/10/2022 11:36** **Dilution:** **1**

Analyst: **MW1** **Prep Batch ID:** **50327**

Batch ID: **50329**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	171	85.5	73-146	10.4	0-20

Method Blank Summary

SDG Number:	**T2212414**	**Client:**	**AELI001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 50327**	**Instrument ID:**	**HRP750**	**Data File:**	**A07JUL22A_7-3**
Lab Sample ID:	**12032213**	**Prep Date:**	**05-JUL-22**	**Analyzed:**	**07/10/22 12:26**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 50327	12032214	A07JUL22A_7-1	07/10/22	1047
02	LCSD for batch 50327	12032215	A07JUL22A_7-2	07/10/22	1136
03	T2212414001	19945001	A07JUL22A_8-4	07/11/22	0102
04	T2212414002	19945002	A07JUL22A_8-5	07/11/22	0152

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2212414**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**12032213**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 50327**				
Client ID:	**MB for batch 50327**			**Prep Basis:**	**As Received**
Batch ID:	**50329**	**Method:**	**EPA Method 1613B**		
Run Date:	**07/10/2022 12:26**	**Analyst:**	**MW1**	**Instrument:**	**HRP750**
Data File:	**A07JUL22A_7-3**			**Dilution:**	**1**
Prep Batch:	**50327**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**05-JUL-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD	U	10.0	pg/L	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1530	2000	pg/L	76.4	(31%-137%)
37Cl-2,3,7,8-TCDD		199	200	pg/L	99.4	(42%-164%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2212414**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**12032214**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 50327**				
Client ID:	**LCS for batch 50327**			**Prep Basis:**	**As Received**
Batch ID:	**50329**	**Method:**	**EPA Method 1613B**		
Run Date:	**07/10/2022 10:47**	**Analyst:**	**MW1**	**Instrument:**	**HRP750**
Data File:	**A07JUL22A_7-1**			**Dilution:**	**1**
Prep Batch:	**50327**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**05-JUL-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD		190	pg/L	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1560	2000	pg/L	78.2	(25%-141%)
37Cl-2,3,7,8-TCDD		206	200	pg/L	103	(37%-158%)

Comments:

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2212414**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**12032215**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 50327**				
Client ID:	**LCSD for batch 50327**			**Prep Basis:**	**As Received**
Batch ID:	**50329**	**Method:**	**EPA Method 1613B**		
Run Date:	**07/10/2022 11:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP750**
Data File:	**A07JUL22A_7-2**			**Dilution:**	**1**
Prep Batch:	**50327**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**05-JUL-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD		171	pg/L	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1620	2000	pg/L	80.9	(25%-141%)
37Cl-2,3,7,8-TCDD		191	200	pg/L	95.5	(37%-158%)

Comments: