

Johnson, Sabrina O

From: Townsel, Michael <TownselM@HillsboroughCounty.ORG>
Sent: Monday, June 3, 2019 10:18 AM
To: Morgan, Steve
Cc: Chamberlain, Justin; SWD_Waste; Byer, Kimberly; Ruiz, Larry; Watson, Edward; Aguilar, Tiffany; Fuller, Josh; Cope, Ronald; Guilbeault, Ken; O'Neill, Joseph; eely@wm.com; Curtis, Bob; ibarnes@qgsdevelopment.com
Subject: Southeast County Landfill - February 2019 Monitoring Report - WACS# SWD/29/41193
Attachments: 2019-2 SELF ADR.pdf

Dear Mr. Morgan,

Please find attached an electronic copy of the February 2019 semi-annual monitoring report for the Southeast County Landfill. Should you or anyone copied on this e-mail have any questions or wish to discuss the information submitted, please feel free to call me directly at (813) 663-3222. The Adapt files and report shall be submitted to Tallahassee SWD through the FDEP Business Portal.

Best Regards,

Michael D. Townsel

Senior Hydrogeologist

Public Utilities Department – Environmental Services

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**Hillsborough
County** Florida

PUBLIC UTILITIES

PO Box 1110
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June 3, 2019

Mr. Steve Morgan
Florida Department of Environmental Protection
Waste Permitting Section
13051 Telecom Parkway
Temple Terrace, FL 33637

**SUBJECT: Southeast County Landfill
Solid Waste Operations Permit No. 35435-022-SO/01
Analytical Data Report – February 2019**

Dear Mr. Morgan:

In accordance with Solid Waste Operation Permit No. 35435-022-SO/01, the Hillsborough County Public Utilities Department (County) has prepared the Analytical Data Report (ADR) for the February 2019 water quality monitoring event at the Southeast County Landfill (SCLF). In accordance with the permit, the monitoring plan included the collection of representative groundwater and surface water samples from sixteen (16) surficial aquifer monitoring wells, four (4) upper Floridan aquifer monitoring wells, three (3) upper Floridan private supply wells, and four (4) surface water sampling locations. All groundwater and surface water samples were collected during the week of February 11-14, 2019 and February 28, 2019. Parameter analysis was completed by our contracted laboratory, Advanced Environmental Laboratories, Inc. (AEL). A site map of each monitoring location is depicted in **Figure 1**.

Surficial Aquifer Monitoring Wells

The following paragraphs provide a brief discussion of the parameter-specific water quality observations across the site. All groundwater analytical data for the February 2019 semi-annual monitoring event is included in **Table 1** and **Table 2** and the laboratory report provided by AEL is included in **Appendix A**.

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pH

Each surficial aquifer monitoring well continues to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units from 4.47 to 6.24 pH units. Background water quality recorded prior to landfill construction and operation established pH below the acceptable range within the surficial aquifer and remains consistent with the historical data set.

Total Dissolved Solids (TDS)

Surficial aquifer monitoring well TH-67 is located downgradient of the Phase II waste area of the landfill and associated with the supplemental quarterly monitoring of groundwater in accordance with the Consent Agreement, OGC File No. 17-0058. TH-67 indicated a TDS value of 140 mg/l and continues to improve since implementation of corrective actions related to water quality changes exhibited in February 2016.

Surficial aquifer detection monitoring well, TH-71A, located down gradient of Section 9, exhibited TDS at a concentration of 1,100 mg/l, exceeding the SDWS of 500 mg/l. Elevated TDS has been observed in the groundwater since 2014 when storm water and sediments advanced through a containment berm around the active working area during a heavy rainfall event. Improvements to the storm water conveyance swale for Section 9 were completed and now effectively channels storm water away from the monitoring locations. The County shall continue to closely monitor the TDS at TH-71A.

Chloride

Chloride was detected in surficial aquifer monitoring well TH-67 below the SDWS of 250 mg/l at a concentration of 5.3 mg/l. The County continues to observe an overall reduction of chloride in the groundwater east of the Phase II landfill area and supports the position the corrective actions will continue to improve water quality conditions to background levels observed prior to February 2016.

Chloride was detected slightly above the SDWS in TH-71A at 260 mg/l and is consistent since 2014 as sediments and storm water from the Section 9 surface area broke through a containment berm during a heavy rainfall event and discharged to a topographical low area near the well.

Arsenic

Arsenic was detected above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l in surficial aquifer detection monitoring well TH-58 at 0.015 mg/l and has historically been above

the standard over the period of record. Detection well TH-65 has previously exhibited arsenic exceedance; however, during the semi-annual water quality monitoring event, arsenic was detected at 0.0079 mg/l. Arsenic in the groundwater samples continue to be directly attributable to the liberation from the sediments in the anaerobic conditions present under the lined landfill. There are no other exceedances of arsenic at the landfill and the detections present are stable and not migrating off site.

Iron

Iron was detected above the SDWS of 0.3 mg/l in a majority of the surficial aquifer detection and background water quality monitoring wells across the site. Concentrations exceeding the standard ranged from 0.33 to 43 mg/l. Iron in the surficial aquifer monitoring wells has historically been elevated and documented to be present across the site prior to construction and operation of the landfill. The County maintains the position elevated iron within the surficial aquifer is naturally occurring and not attributable to the landfill. No unusual changes in iron concentrations have been observed during the semi-annual water quality monitoring event.

Upper Floridan Aquifer (UFA) Monitoring Wells

A brief and detailed description of the groundwater data for each UFA monitoring well is provided in the paragraphs below and included in **Table 2** and the laboratory report provided by AEL is included in **Appendix A**.

Total Dissolved Solids (TDS)

Upper Floridan aquifer (UFA) monitoring well TH-72 exhibited TDS at 1,100 mg/l and is consistent with the data presented over the period of record. The elevated TDS in TH-72 is attributable to the waste from the former sinkhole in Phase VI of the landfill and the injected grout materials utilized for subsurface stabilization and remediation. The downgradient compliance point for the monitoring of Phase VI, identified as TH-78, continues to exhibit water quality within respective standards and clearly demonstrates there are no impacts to downgradient receptors.

Iron

Iron was observed above the SDWS of 0.3 mg/l in UFA monitoring well TH-72 at a concentration of 0.41 mg/l. Iron levels have been consistent since the sinkhole stabilization activities were completed and monthly monitoring associated with the sinkhole were discontinued in 2015. The current semi-annual monitoring of TH-72 and the downgradient water quality in UFA

monitoring well TH-78 continues to demonstrate iron above the SDWS is not laterally migrating off site.

Surface Water Sampling Locations

A brief and detailed description of the surface water data for each monitoring location around the landfill is provided in the paragraphs below and included in **Table 3** and the laboratory report is provided in **Appendix A**.

Dissolved Oxygen

Surface water sampling locations Mine Cut 1D, Stream-3A, SW-3B2B, and Stream 3C2 exhibited dissolved oxygen at 1.38 mg/l, 0.63 mg/l, 6.15 mg/l, and 7.54 mg/l. Sample location Stream-3A is the upstream tributary to Long Flat Creek and representative of surface water entering the Southeast County Landfill property. Surface water sampling location Stream-3C2 is the discharge monitoring point for the site in the tributary to Long Flat Creek. The compiled data exhibits improving water quality across the tributary and is consistent with the historical data set.

pH

Surface water sample locations Stream-3A and SW-3B2B exhibited pH of 5.46 and 5.45 pH units, below the surface water standard acceptable range of 6.0 to 8.5 pH units. The discharge point to Long Flat Creek Stream 3C2 was 6.00 pH units and is consistent with the historical data set.

Fecal Coliform

Surface water sample location SW-3B2B exhibited a fecal coliform detection of 1,200 colonies/100 ml exceeding the surface water standard of 800 colonies/100 ml. Over the period of record, the surface water locations have exhibited fecal coliform due to the large amount of biological waste generated from the many birds and other wildlife that migrate across the site.

Turbidity

In accordance with the April 3, 2003 Approval of Corrective Action Plan letter from the Florida Department of Environmental Protection (FDEP), the County has recorded turbidity data at three monitoring locations in the surface water tributary to Long Flat Creek after each significant rainfall. During the August 2018 semi-annual water quality report, the County requested the discontinuing of post rainfall turbidity monitoring at the facility and closure of the Corrective Action Plan. On January 23, 2019, the Department responded in an email granting the request to discontinue monitoring.

Private Supply Wells

Representative samples from the three (3) private supply wells were collected on February 14, 2019. The private supply well owned by Mr. Terry Holland, located at 121 Carter Road, exhibited iron above the SDWS of 0.3 mg/l, at a concentration of 1.4 mg/l. Concentrations of iron are consistently above the SDWS at the Holland well and the County maintains the position that iron is naturally occurring within production zones of the upper Floridan aquifer. Each remaining supply wells was within all applicable standard and are consistent with the historical results. Data for the three private supply wells sampled during the February 2019 semi-annual water quality monitoring event is provided in **Table 4** and the laboratory report provided by AEL is included in **Appendix A**.

Groundwater Elevation and Flow

Groundwater and surface water elevations were recorded on February 11, 2019 and the data is presented in **Table 5**. Elevation data is collected and utilized to prepare a representative surficial aquifer groundwater contour diagram. A diagram was prepared with a 2 ft. contour interval and is utilized to evaluate the direction of flow across the site. **Figure 2** depicts general flow direction across the landfill remains to the west/northwest with an easterly component controlled by nearby Mine Cut #1 and Mine Cut #2. Elevation data continues to be consistent with the historical evaluations of flow within the surficial aquifer at the Southeast County Landfill.

Conclusions

Water quality observations at the Southeast County Landfill remains consistent with the historical data set. Surficial aquifer groundwater monitoring wells continue to exhibit pH, iron, TDS, and arsenic outside their applicable primary and secondary standards. Background water quality recorded prior to landfill construction and operation established pH and iron below the acceptable range within the surficial aquifer and remains consistent with the historical data set.

Water quality in surficial aquifer monitoring well TH-67, southeast of Phase II waste area of the landfill, did not exhibit indicator parameters of TDS, sodium, and chloride exceeding their respective drinking water standards. As ongoing implementation of corrective actions continue, water quality improvement is anticipated as constituent levels continue to return to background conditions over the upcoming period of record. Monitoring well TH-71A exhibited TDS concentrations above the SDWS during the semi-annual water quality monitoring event and is attributable to sediments and stormwater from the active working area of Section 9. The

Mr. Steve Morgan

June 3, 2019

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County implemented corrective actions to the storm water conveyance system in 2014 and has continued to be effective over the last 5 years.

Arsenic was detected in surficial aquifer monitoring well TH-58 exceeding the PDWS of 0.01 mg/l. Over the period of record, TH-58 has consistently exhibited arsenic due to the liberation of arsenic from the sediments in the anaerobic conditions present under the lined landfill.

Upper Floridan aquifer monitoring well TH-72 continues to exhibit water quality impacts that are attributable to the former sinkhole within Phase VI of the landfill. TDS and iron continue to exceed their respective standards; however, the water quality remains stable and consistent. The downgradient compliance point for the monitoring of Phase VI, identified as TH-78, continues to exhibit water quality within their respective standards and clearly demonstrates there are no impacts to downgradient receptors.

Surface water monitoring locations were within compliance standards except for pH in Stream-3A and SW-3B2B under the acceptable range and fecal coliform in SW-3B2B above the standard. Each result is consistent with the historical data set.

Should you have any questions, require any additional information, or would like to discuss information provided within the submittal, please feel free to contact us at (813) 663-3222 or (813) 612-7757.

Respectfully submitted,



6/3/2019

Michael D. Townsel
Senior Hydrologist
Environmental Services
Public Utilities Department



Jeffrey Greenwell, P.E.
Section Manager - GMI
Environmental Services
Public Utilities Department



Enclosures

xc: Justin Chamberlain, P.G., FDEP
Kim Byer, P.G., Director, Solid Waste Management Division
Larry Ruiz, Landfill Manager, Solid Waste Management Division
Joe O'Neill, Professional Engineer II, Solid Waste Management Division
Ernest Ely, Manager, WMI, Southeast County Landfill
Irene Barnes, Southeast Hillsborough Civic Association
Bob Curtis, SCS Engineers



**Southeast County Landfill
Site Location Map**

● Monitoring Wells

Figure 1



**Hillsborough
County Florida**

**Table 1 - Southeast County Landfill
Laboratory Analytical Data
Groundwater Monitoring Wells
February 11-14, 2019**

General Parameters	Surficial Aquifer Wells								MCL Standard
	TH-36A	TH-61	TH-61A	TH-64	TH-68	TH-69A	TH-70A	TH-71A	
well type	Background	Detection	Detection	Detection	Detection	Detection	Detection	Detection	
conductivity (umhos/cm) (field)	201.9	160	294.5	229.3	198	499.4	645	1408	NS
dissolved oxygen (mg/l) (field)	1.27	0.43	0.3	0.86	1.53	0.21	0.09	0.15	NS
ORP (mV)	53.2	-30.2	20.9	121.5	1.4	-9.5	-76.5	-20.6	NS
temperature (°C) (field)	25.3	26.0	25.7	26.2	27.1	26.0	25.2	24.7	NS
turbidity (NTU) (field)	4.5	1.72	1.46	10.13	18.7	7.2	89.1	4.67	NS
pH (SU) (field)	5.61	5.47	5.61	4.49	5.44	6.03	6.24	6.03	(6.5 - 8.5)**
total dissolved solids (mg/l)	110	130	270	180	170	300	370	1100	500**
chloride (mg/l)	9.4	5.2	5.6	12	9.7	40	39	260	250**
ammonia nitrogen (mg/l as N)	0.15	0.08 i	0.04 i	0.025 u	0.04 i	0.36	1.5	1.7	NS
nitrate (mg/l as N)	0.18 u	0.18 u	0.18 u	0.18 u	0.18 i	0.18 u	0.18 u	0.18 u	10*
Metals Detected (mg/l)									MCL Standard
antimony	0.00011 u	0.00011 u	0.00042 i	0.00024 i	0.00012 i	0.00011 u	0.00011 u	0.00015 i	0.006*
arsenic	0.00043 i	0.00049 i	0.00034 i	0.00030 i	0.0011	0.00018 i	0.0042	0.0014	0.01*
barium	0.0058	0.0047	0.0042	0.036	0.006	0.0047	0.012	0.0098	2*
cadmium	0.000064 u	0.000064 u	0.000064 u	0.00053	0.000076 i	0.000064 u	0.000064 u	0.000064 u	0.005*
chromium	0.00054	0.00086 i	0.00088 i	0.0015 i	0.0031	0.00045 i	0.00062 i	0.00036 i	0.1*
cobalt	0.00019 u	0.00019 u	0.00019 u	0.00019 u	0.00019 u	0.00019 u	0.00019 u	0.00019 i	140***
copper	0.00024 u	0.00059 i	0.0018	0.00068 i	0.00079	0.00035 u	0.00035 u	0.00035 u	1**
iron	0.19	0.18	0.18	0.52	0.33	4.9	43	22	0.3**
lead	0.00024 u	0.00024 u	0.00024 u	0.00066 i	0.00043 i	0.00024 u	0.00024 u	0.00024 u	0.015*
mercury	0.000050 u	0.000050 i	0.000050 u	0.000050 u	0.000050 u	0.000057 i	0.000050 u	0.000050 i	0.002*
nickel	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.0012 i	0.1*
selenium	0.00058 u	0.00058 u	0.00058 u	0.0012 i	0.00070 i	0.00058 u	0.00058 u	0.00058 u	0.05*
sodium	4.1	3.2	3.7	8.6	6.3	14	9.9	46	160*
vanadium	0.0012 i	0.0018 i	0.02	0.0065	0.0024	0.00071 u	0.0039	0.0031	0.049***
zinc	0.0074 u	0.0074 u	0.0074 u	0.009 i	0.0074 u	0.0074 u	0.0074 u	0.0074 u	5**

Notes: Reference Groundwater Guidance Concentrations, FDEP 2012

NS=No Standard

MCL=Maximum Contaminant Level

*= Primary Drinking Water Standards as per Chapter 62-550.310, F.A.C.

**=Secondary Drinking Water Standards as per Chapter 62-550.320, F.A.C.

***=Groundwater Cleanup Target Levels as per Chapter 62-777, FAC

5.61 - Exceeds Standards

NTU=Nephelometric Turbidity Units

mV = millivolts

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

u = parameter was analyzed but not detected.

ug/l=micrograms per liter

mg/l=milligrams per liter

**Table 2 -Southeast County Landfill
Laboratory Analytical Data
Groundwater Monitoring Wells
February 11-14, 2019**

General Parameters	Floridan Aquifer				Surficial Aquifer Wells								MCL Standard
	TH-19	TH-40	TH-72	TH-78	TH-22A	TH-28A	TH-57	TH-58	TH-65	TH-66	TH-66A	TH-67	
well type	Background	Detection	Detection	Detection	Background	Detection	Detection	Detection	Detection	Background	Background	Detection	NS NS NS NS NS (6.5 - 8.5)** 500** 250** NS(1) 10*
conductivity (umhos/cm) (field)	419.7	388.2	1544	529	177.4	397	360	379.6	228.9	261.3	278.5	243.8	
dissolved oxygen (mg/l) (field)	0.17	0.26	0.58	0.34	0.11	0.52	0.24	0.49	0.31	0.11	0.27	0.66	
ORP (mV)	-55.5	-70.7	-78.6	-207.3	73.2	-35.8	-109.6	7.2	-57.2	0.8	-44.7	118.9	
temperature (°C) (field)	23.4	23.5	23.7	22.8	20.9	27.9	28.1	26.8	23.3	23.5	21.9	21.7	
turbidity (NTU) (field)	0.37	0.29	0.14	0.61	8.01	3.07	0.11	0.84	1.82	0.63	0.48	2.75	
pH (SU) (field)	7.08	7.28	6.57	7.82	4.47	5.05	5.25	5.76	5.58	5.86	5.81	6.08	
total dissolved solids (mg/l)	310	250	1100	310	170	290	270	220	230	160	240	140	
chloride (mg/l)	8.3	15	260 j4	32	9.3	91 j4	78	19	15	14	17	13	
ammonia nitrogen (mg/l as N)	0.33	0.32	9.9	0.35	0.58	2.7	1.5	1.1	0.8	1.1 j4	1.6	0.23	
nitrate (mg/l as N)	0.18 u	0.18 u	0.23	0.18 u	0.18 u	0.18 u	0.18 u	1.3	0.18 u	0.18 u	0.18 u	0.18 u	
Metals Detected (mg/l)													MCL Standard
antimony	0.00011 u	0.00011 u	0.00011 u	0.00011 u	0.00011 u	0.00011 u	0.00011 u	0.00011 u	0.00011 u	0.00011 u	0.00035 i	0.0017	0.006*
arsenic	0.000077 u	0.000077 u	0.00012 i	0.000077 u	0.00023 i	0.0013	0.00016 i	0.012	0.0079	0.0022	0.0028	0.00050 i	0.01*
barium	0.0044	0.0047	0.025	0.031	0.026	0.0017	0.0076	0.013	0.00083	0.001	0.0025	0.0037	2*
cadmium	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.000064 u	0.00037 i	0.005*
chromium	0.00011 u	0.00011 u	0.00022 i	0.00011 u	0.0014 i	0.0012 i	0.00066 i	0.0016 i	0.0016 i	0.00068 i	0.00052 i	0.00052 i	0.1*
cobalt	0.00019 u	0.00019 u	0.00019 u	0.00019 u	0.00019 u	0.00036 i	0.00019 u	0.00019 u	0.00062 u	0.00019 u	0.00097	0.001	140***
copper	0.00035 u	0.00035 u	0.00035 u	0.00035 u	0.00035 u	0.00035 u	0.00035 u	0.00035 u	0.00035 u	0.00035 u	0.00085	0.0036	1**
iron	0.026 u	0.026 u	0.41	0.23	0.95	4.5	0.81	2.5	1	2.9	1.6	0.13	0.3**
nickel	0.00098 u	0.00098 u	0.0010 i	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.00098 u	0.0021	0.0026	0.1*
selenium	0.00058 u	0.00058 u	0.00058 u	0.00058 u	0.00058 u	0.00058 u	0.00058 u	0.00058 u	0.00067 i	0.00058 u	0.00058 u	0.00079 i	0.05*
sodium	14	17	100	30	3.2	25	22	18	9.7	6.4	7.9	7.5	160*
thallium	0.000057 u	0.000057 u	0.000057 u	0.000057 u	0.000057 u	0.000070 i	0.000057 u	0.00022	0.000072 i	0.000057 u	0.000057 u	0.00027	0.002 *
vanadium	0.00071 u	0.00071 u	0.00071 u	0.00071 u	0.0013 i	0.0013 i	0.0011 i	0.0051	0.0024	0.0012 i	0.012	0.023	0.049***
zinc	0.0074 u	0.0074 u	0.0074 u	0.0074 u	0.0074 u	0.0074 u	0.0074 u	0.0074 u	0.0074 u	0.013	0.0074 u	0.078	5**
Notes: Reference Groundwater Guidance Concentrations, FDEP 2012													
NS=No Standard													
NS(1)=GCTL of 2.8 is no longer suitable toxilogical reference for evaluating the significance of ammonia concentrations in groundwater.													
MCL=Maximum Contaminant Level													
*= Primary Drinking Water Standards as per Cahpter 62-550.310, F.A.C.													
**=Secondary Drinking Water Standards as per Chapter 62-550.320, F.A.C.													
***=Groundwater Cleanup Target Levels as per Chapter 62-777, FAC													
1100 - Exceeds Standards													
NTU=Nephelometric Turbidity Units													
mV = millivolts													
i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.													
u = parameter was analyzed but not detected.													
ug/l=micrograms per liter													
mg/l=milligrams per liter													

**Table 3 -Southeast County Landfill
Laboratory Analytical Data
Surface Water Samples
February 14, 2019**

General Parameters	Mine Cut 1D	Stream-3A	SW-3B2B	Stream-3C2	MCL Standard
conductivity (umhos/cm) (field)	314.5	195.3	249	228.6	1275
dissolved oxygen (mg/l) (field)	1.38	0.63	6.15	7.54	***
ORP (mV)	61.8	165.9	176.5	155.6	NS
temperature (°C) in field	17.7	18.2	17.5	18.0	NS
turbidity (field) (NTU)	0.71	1.09	1.1	1.21	29
pH (field)	6.43	5.46	5.45	6.00	(6.0 - 8.5)
total dissolved solids (mg/l)	260	100	210	160	NS
total suspended solids (mg/l)	2.8	2.5 u	2.8	3.2	NS
total nitrogen (mg/l)	0.18 u	0.18 u	0.18 u	0.18 u	NS
nitrate (as N) (mg/l)	0.18 u	0.18 u	0.18 u	0.18 u	NS
total phosphorous (mg/l)	1.4	0.046 u	0.1	0.3	NS
biochem. oxygen demand (mg/l)	4.2	2 u	2 u	2 u	NS
chemical oxygen demand (mg/l)	33 i	24 u	24 u	24 u	NS
total organic carbon (mg/l as C)	17	8.3	10	13	NS
chlorophyll-A (mg/m3)	16	2.5 u	2.5 u	2.5 u	NS
total hardness (mg/l as CaCO)	130	72	56	76	NS
unionized ammonia (mg/l)	0.00047	0.00036	0.00014	0.0058	≤ 0.02
fecal coliform (Col/100ml)	60 B	50 B	1200 B	290	800
Metals Detected (mg/l)					MCL Standard
antimony	0.00013 i	0.00011 u	0.00011 u	0.00015 i	≤ 4.3
arsenic	0.00021 i	0.00025 i	0.00026 i	0.00040 i	≤ 0.05
barium	0.0019	0.016	0.0086	0.0046	2
chromium	0.00034 i	0.00065 i	0.00069 i	0.00067 i	11
cobalt	0.00019 u	0.00025 i	0.00019 u	0.00019 u	NS
copper	0.00035 u	0.00035 u	0.00055 i	0.00035 u	**
iron	0.38	0.90	0.33	0.22	1
vanadium	0.00071 u	0.00096 i	0.00075 i	0.0011 i	NS
zinc	0.0083 i	0.01	0.011	0.0099 i	*
Organic Parameters Detected (ug/l)					MCL Standard
acetone	1 u	1.6 i	1 u	1 u	1700
NOTE: Referenced, Surface Water Quality Standards Chapter 62-302 and Freshwater Surface Water Cleanup Criteria in Chapter 62-550, Table I, F.A.C. NS = No Standard MCL = Maximum Contaminant Level 1.38 - Exceeds Standards * = $Zn < or = e[0.8473[lnH]+0.7614]$, note H = Hardness for 3A standard is 105.99 ** = $Cu < or = e[0.8545[lnH] - 1.702]$ *** = Criteria set forth in accordance with Chapter 62-302.533 NTU = Nephelometric Turbidity Units mV = millivolts i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. u = parameter was analyzed but not detected. B = results based upon colony counts outside the acceptable range. µg/l = micrograms per liter mg/l = milligrams per liter					

Table 4 -Southeast County Landfill Laboratory Analytical Data Private Supply Wells February 28, 2019

General Parameters	Holland	Keene, Jr.	Barnes	MCL Standard
conductivity (umhos/cm) (field)	430.8	377	390.6	NS
dissolved oxygen (mg/l) (field)	0.04	0.13	0.34	NS
ORP (mV)	-126.5	-14.1	21.3	NS
temperature (°C) (field)	24.2	25.3	23.5	NS
turbidity (NTU) (field)	0.15	0.18	0.07	NS
pH (SU) (field)	6.94	7.33	7.18	(6.5 - 8.5)**
total dissolved solids (mg/l)	270	240	260	500**
chloride (mg/l)	19 j4	12	7.4	250**
nitrate (as N) (mg/l)	0.18 u	0.18 u	0.18 u	10*
ammonia nitrogen (mg/l as N)	0.12	0.20	0.23	NS
Metals Detected (mg/l)				MCL Standard
arsenic	0.00014 i	0.00041 i	0.000090 i	0.01*
barium	0.0031	0.0033	0.0042	2*
iron	1.4	0.026 u	0.026 u	0.3**
nickel	0.0063	0.00098 u	0.00098 u	0.1*
sodium	5.9	6.9	15	160*
zinc	0.011	0.057	0.028	5**
Organic Parameters Detected (ug/l)				MCL Standard
acetone	1.4 i	1.0 u	1.2 i	6300***
Notes: Reference Groundwater Guidance Concentrations, FDEP 2012 NS=No Standard MCL=Maximum Contaminant Level ND= No Data - property locked, unable to sample supply well. *= Primary Drinking Water Standards as per Chapter 62-550.310, F.A.C. **=Secondary Drinking Water Standards as per Chapter 62-550.320, F.A.C. ***=Groundwater Cleanup Target Levels as per Chapter 62-777, FAC 1.4 - exceeds Standards NTU=Nephelometric Turbidity Units mV = millivolts i = reported value is between laboratory method detection limit and laboratory practical quantitation limit. u = parameter was analyzed but not detected. j4 = estimated results pCi/l=Picocuries per liter ug/l=micrograms per liter mg/l=milligrams per liter				

**Table 5 -Southeast County Landfill
Groundwater and Surface Water Elevations
February 11, 2019**

Measuring Point I.D.	T.O.C. Elevations (NGVD)	W.L. B.T.O.C.	W.L. (NGVD)	Time
P-11D	138.02	16.48	121.54	13:48
TH-19*	130.27	90.94	39.33	13:29
TH-20A	131.86	8.67	123.19	14:13
TH-20B	132.57	9.64	122.93	14:14
TH-22	128.82	3.34	125.48	14:21
TH-22A	129.27	4.01	125.26	14:24
TH-24A	128.23	3.89	124.34	14:17
TH-28A	131.10	27.94	103.16	10:47
TH-30	128.88	23.63	105.25	12:43
TH-32	129.90	15.15	114.75	13:19
TH-35	145.98	27.84	118.14	13:24
TH-36A	152.70	32.04	120.66	13:32
TH-38A	130.68	8.98	121.70	14:04
TH-38B	131.81	9.79	122.02	14:03
TH-40*	124.99	85.02	39.97	9:33
TH-41*	125.00	90.86	34.14	9:39
TH-42*	116.74	61.60	55.14	13:16
TH-57	128.36	18.63	109.73	10:24
TH-58	127.88	27.97	99.91	12:22
TH-61	138.73	16.24	122.49	13:50
TH-61A	139.45	16.43	123.02	13:50
TH-64	139.64	16.38	123.26	13:57
TH-65	135.40	13.34	122.06	14:00
TH-66	130.58	7.96	122.62	14:02
TH-66A	130.66	8.38	122.28	14:01
TH-67	129.51	5.55	123.96	14:10
TH-68	140.01	13.76	126.25	13:55
TH-69A	144.97	24.70	120.27	13:45
TH-70A	146.63	23.60	123.03	13:36
TH-71A	146.95	26.52	120.43	13:36
TH-72*	130.96	86.40	44.56	11:17
TH-73	131.07	30.55	100.52	11:16
TH-76*	111.21	66.67	44.54	12:58
TH-77*	119.88	75.19	44.69	13:01
TH-78*	120.75	69.44	51.31	12:51
TH-79	129.60	7.02	122.58	14:08
TH-80	129.52	7.61	121.91	14:07
TH-81	130.26	7.43	122.83	14:09
TH-82	131.24	9.55	121.69	14:06
TH-83	130.23	8.08	122.15	14:11
SW-3A	3.0'=125.53'	1.25	123.78	14:26
SW-3B2B	3.0'=97.97'	ND	ND	ND
SW-3C2	6.0'=92.33'	1.48	87.81	13:11
Mine Cut #1	4.0'=122.14'	ND	ND	ND
NGVD = National Geodetic Vertical Datum T.O.C. = Top of Casing B.T.O.C. = Below Top of Casing * = Floridan Well ND = No Data (3B2B - Gage no longer in stream / 1D - Vegetation blocking gage) W.L. = Water Level				

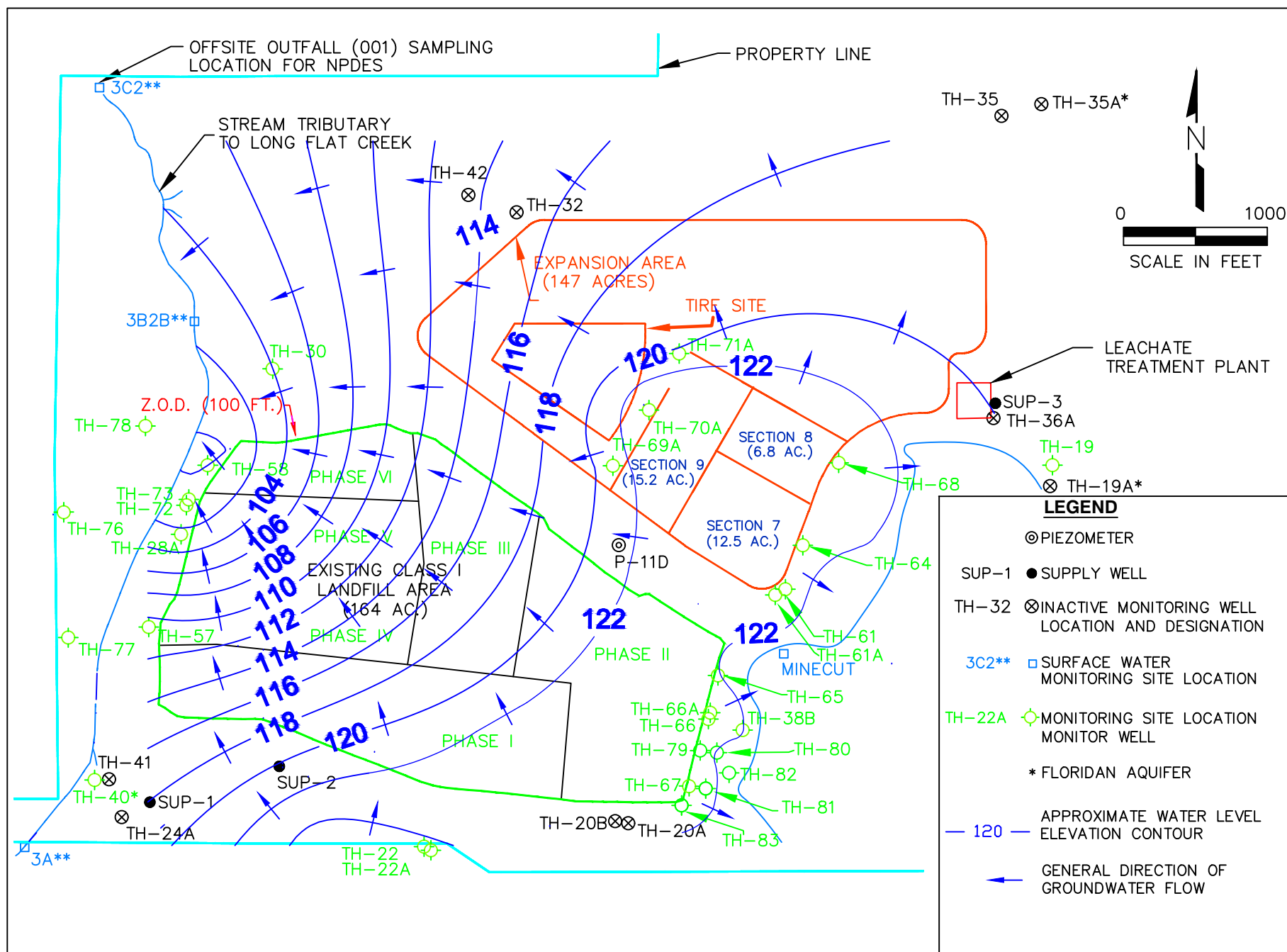


Figure 2 - Southeast County Landfill
Surficial Aquifer Groundwater Elevation Contour Diagram – February 11, 2019

Appendix A
Groundwater Analytical Report
February 2019

April 1, 2019

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

RE: Workorder: T1902512 SELF Semi-Annual

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory between Monday, February 11, 2019 and Thursday, February 14, 2019. 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 - Project Manager
HParker@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T1902512001	Field Blank	Water	2/11/2019 09:45	2/11/2019 15:07
T1902512002	TH-40	Water	2/11/2019 10:12	2/11/2019 15:07
T1902512003	TH-57	Water	2/11/2019 10:35	2/11/2019 15:07
T1902512004	TH-28A	Water	2/11/2019 11:02	2/11/2019 15:07
T1902512005	TH-72	Water	2/11/2019 12:11	2/11/2019 15:07
T1902512006	TH-58	Water	2/11/2019 12:31	2/11/2019 15:07
T1902512007	Trip Blank	Water	2/11/2019 00:00	2/11/2019 15:07
T1902512008	TH-69A	Water	2/12/2019 09:55	2/12/2019 14:55
T1902512009	TH-19	Water	2/12/2019 10:26	2/12/2019 14:55
T1902512010	TH-36A	Water	2/12/2019 10:46	2/12/2019 14:55
T1902512011	TH-71A	Water	2/12/2019 11:19	2/12/2019 14:55
T1902512012	TH-68	Water	2/12/2019 12:01	2/12/2019 14:55
T1902512013	TH-64	Water	2/12/2019 12:43	2/12/2019 14:55
T1902512014	TH-61A	Water	2/12/2019 13:34	2/12/2019 14:55
T1902512015	TH-61	Water	2/12/2019 14:03	2/12/2019 14:55
T1902512016	Trip Blank	Water	2/12/2019 00:00	2/12/2019 14:55
T1902512017	TH-78	Water	2/13/2019 11:05	2/13/2019 14:38
T1902512018	TH-70A	Water	2/13/2019 12:28	2/13/2019 14:38
T1902512019	TH-65	Water	2/13/2019 13:05	2/13/2019 14:38
T1902512020	TH-66A	Water	2/14/2019 10:41	2/14/2019 14:30
T1902512021	TH-66	Water	2/14/2019 11:13	2/14/2019 14:30
T1902512022	TH-67	Water	2/14/2019 11:57	2/14/2019 14:30
T1902512023	TH-22A	Water	2/14/2019 12:59	2/14/2019 14:30
T1902512024	Duplicate	Water	2/14/2019 00:00	2/14/2019 14:30
T1902512025	Trip Blank	Water	2/14/2019 00:00	2/14/2019 14:30
T1902512026	Field Blank	Water	2/14/2019 09:28	2/14/2019 15:00
T1902512027	Mine-Cut 1D	Water	2/14/2019 09:42	2/14/2019 15:00
T1902512028	Stream 3B2B	Water	2/14/2019 13:30	2/14/2019 15:00
T1902512029	Stream 3C2	Water	2/14/2019 13:50	2/14/2019 15:00
T1902512030	Stream 3A	Water	2/14/2019 14:06	2/14/2019 15:00
T1902512031	Duplicate	Water	2/14/2019 00:00	2/14/2019 15:00
T1902512032	Trip Blank	Water	2/14/2019 00:00	2/14/2019 15:00

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512001**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 02/11/19 09:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis, Water			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:11	T
Iron	26	U	ug/L	1	100	26	2/15/2019 16:11	T
Sodium	0.17	U	mg/L	1	0.20	0.17	2/15/2019 16:11	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:11	T
Analysis Desc: SW846 6020B			Preparation Method: SW-846 3010A					
Analysis, Total			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/17/2019 17:26	J
Arsenic	0.077	U	ug/L	1	1.0	0.077	2/17/2019 17:26	J
Barium	0.24	U	ug/L	1	0.60	0.24	2/17/2019 17:26	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/17/2019 17:26	J
Chromium	0.11	U	ug/L	1	2.0	0.11	2/17/2019 17:26	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/17/2019 17:26	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/17/2019 17:26	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/17/2019 17:26	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/17/2019 17:26	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/17/2019 17:26	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/17/2019 17:26	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/17/2019 17:26	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/17/2019 17:26	J
Analysis Desc: SW846 7470A			Preparation Method: SW-846 7470A					
Analysis, Water			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/12/2019 16:01	T
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 10:57	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 10:57	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:57	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 10:57	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 10:57	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 10:57	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 10:57	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512001**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 02/11/19 09:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 10:57	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:57	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 10:57	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 10:57	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 10:57	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 10:57	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 10:57	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 10:57	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 10:57	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:57	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 10:57	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:57	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 10:57	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 10:57	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 10:57	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:57	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 10:57	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 10:57	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 10:57	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 10:57	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 10:57	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 10:57	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 10:57	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 10:57	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 10:57	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 10:57	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:57	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 10:57	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:57	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 10:57	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 10:57	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:57	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 10:57	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 10:57	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:57	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 10:57	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:57	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 10:57	T
1,2-Dichloroethane-d4 (S)	104		%	1	70-128		2/15/2019 10:57	
Toluene-d8 (S)	98		%	1	77-119		2/15/2019 10:57	

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512001**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 02/11/19 09:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	106		%	1	86-123		2/15/2019 10:57	
Analysis Desc: 8260B SIM Analysis, Water		Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)						
1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 10:57	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 10:57	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-130		2/15/2019 10:57	
Toluene-d8 (S)	97		%	1	70-130		2/15/2019 10:57	
Bromofluorobenzene (S)	97		%	1	70-130		2/15/2019 10:57	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water		Analytical Method: EPA 350.1						
Ammonia (N)	0.025	U	mg/L	1	0.10	0.025	2/26/2019 12:07	T
Analysis Desc: Tot Dissolved Solids,SM2540C		Analytical Method: SM 2540 C						
Total Dissolved Solids	10	U	mg/L	1	10	10	2/14/2019 13:00	T
Analysis Desc: Chlorides,SM4500-Cl-E,Water		Analytical Method: SM 4500-Cl-E						
Chloride	2.6	U	mg/L	1	5.0	2.6	2/19/2019 14:52	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/12/2019 12:06	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512002**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-40**

Date Collected: 02/11/19 10:12

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	388.2		umhos/cm	1			2/11/2019 10:12	....
Dissolved Oxygen	0.26		mg/L	1			2/11/2019 10:12	....
ORP-2580BW	-70.7		mV	1			2/11/2019 10:12	....
Temperature	23.5		°C	1			2/11/2019 10:12	....
Turbidity	0.29		NTU	1			2/11/2019 10:12	....
pH	7.28		SU	1			2/11/2019 10:12	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:15	T
Iron	26	U	ug/L	1	100	26	2/15/2019 16:15	T
Sodium	17		mg/L	1	0.20	0.17	2/15/2019 16:15	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:15	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/17/2019 17:30	J
Arsenic	0.077	U	ug/L	1	1.0	0.077	2/17/2019 17:30	J
Barium	4.7		ug/L	1	0.60	0.24	2/17/2019 17:30	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/17/2019 17:30	J
Chromium	0.11	U	ug/L	1	2.0	0.11	2/17/2019 17:30	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/17/2019 17:30	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/17/2019 17:30	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/17/2019 17:30	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/17/2019 17:30	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/17/2019 17:30	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/17/2019 17:30	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/17/2019 17:30	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/17/2019 17:30	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/12/2019 16:04	T

VOLATILES

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512002**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-40**

Date Collected: 02/11/19 10:12

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 11:24	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 11:24	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 11:24	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 11:24	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 11:24	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 11:24	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 11:24	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 11:24	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 11:24	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 11:24	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 11:24	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 11:24	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 11:24	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 11:24	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 11:24	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 11:24	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 11:24	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 11:24	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 11:24	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 11:24	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 11:24	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 11:24	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 11:24	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 11:24	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 11:24	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 11:24	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 11:24	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 11:24	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 11:24	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 11:24	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 11:24	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 11:24	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 11:24	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 11:24	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 11:24	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 11:24	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 11:24	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512002**
Sample ID: **TH-40**

Date Received: 02/11/19 15:07 Matrix: Water
Date Collected: 02/11/19 10:12

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 11:24	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 11:24	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 11:24	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 11:24	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 11:24	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 11:24	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 11:24	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 11:24	T
1,2-Dichloroethane-d4 (S)	102		%	1	70-128		2/15/2019 11:24	
Toluene-d8 (S)	98		%	1	77-119		2/15/2019 11:24	
Bromofluorobenzene (S)	113		%	1	86-123		2/15/2019 11:24	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 11:24	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 11:24	T
1,2-Dichloroethane-d4 (S)	103		%	1	70-130		2/15/2019 11:24	
Toluene-d8 (S)	97		%	1	70-130		2/15/2019 11:24	
Bromofluorobenzene (S)	104		%	1	70-130		2/15/2019 11:24	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.32		mg/L	1	0.10	0.025	2/26/2019 12:08	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	250		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	15		mg/L	1	5.0	2.6	2/19/2019 14:51	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/12/2019 11:45	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512003**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-57**

Date Collected: 02/11/19 10:35

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	360		umhos/cm	1			2/11/2019 10:35	....
Dissolved Oxygen	0.24		mg/L	1			2/11/2019 10:35	....
ORP-2580BW	-109.6		mV	1			2/11/2019 10:35	....
Temperature	28.1		°C	1			2/11/2019 10:35	....
Turbidity	0.11		NTU	1			2/11/2019 10:35	....
pH	5.25		SU	1			2/11/2019 10:35	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:26	T
Iron	810		ug/L	1	100	26	2/15/2019 16:26	T
Sodium	22		mg/L	1	0.20	0.17	2/15/2019 16:26	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:26	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/17/2019 17:34	J
Arsenic	0.16	I	ug/L	1	1.0	0.077	2/17/2019 17:34	J
Barium	7.6		ug/L	1	0.60	0.24	2/17/2019 17:34	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/17/2019 17:34	J
Chromium	0.66	I	ug/L	1	2.0	0.11	2/17/2019 17:34	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/17/2019 17:34	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/17/2019 17:34	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/17/2019 17:34	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/17/2019 17:34	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/17/2019 17:34	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/17/2019 17:34	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/17/2019 17:34	J
Vanadium	1.1	I	ug/L	1	2.0	0.71	2/17/2019 17:34	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/12/2019 16:06	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512003**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-57**

Date Collected: 02/11/19 10:35

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/12/2019 12:43	T
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 03:14	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 03:14	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 03:14	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 03:14	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 03:14	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 03:14	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 03:14	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 03:14	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 03:14	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 03:14	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 03:14	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 03:14	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 03:14	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 03:14	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 03:14	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 03:14	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 03:14	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 03:14	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 03:14	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 03:14	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 03:14	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 03:14	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 03:14	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 03:14	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 03:14	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 03:14	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 03:14	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 03:14	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 03:14	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 03:14	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 03:14	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 03:14	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 03:14	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 03:14	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512003**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-57**

Date Collected: 02/11/19 10:35

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 03:14	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 03:14	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 03:14	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 03:14	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 03:14	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 03:14	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 03:14	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 03:14	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 03:14	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 03:14	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 03:14	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-128		2/16/2019 03:14	
Toluene-d8 (S)	99		%	1	77-119		2/16/2019 03:14	
Bromofluorobenzene (S)	107		%	1	86-123		2/16/2019 03:14	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 03:14	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 03:14	T
1,2-Dichloroethane-d4 (S)	109		%	1	70-130		2/16/2019 03:14	
Toluene-d8 (S)	98		%	1	70-130		2/16/2019 03:14	
Bromofluorobenzene (S)	98		%	1	70-130		2/16/2019 03:14	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	1.5		mg/L	1	0.10	0.025	2/26/2019 12:08	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	270		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	78		mg/L	1	5.0	2.6	2/19/2019 14:51	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512004**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-28A**

Date Collected: 02/11/19 11:02

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	397		umhos/cm	1			2/11/2019 11:02	....
Dissolved Oxygen	0.52		mg/L	1			2/11/2019 11:02	....
ORP-2580BW	-35.8		mV	1			2/11/2019 11:02	....
Temperature	27.9		°C	1			2/11/2019 11:02	....
Turbidity	3.07		NTU	1			2/11/2019 11:02	....
pH	5.05		SU	1			2/11/2019 11:02	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:30	T
Iron	4500		ug/L	1	100	26	2/15/2019 16:30	T
Sodium	25		mg/L	1	0.20	0.17	2/15/2019 16:30	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:30	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/17/2019 17:37	J
Arsenic	1.3		ug/L	1	1.0	0.077	2/17/2019 17:37	J
Barium	1.7		ug/L	1	0.60	0.24	2/17/2019 17:37	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/17/2019 17:37	J
Chromium	1.2	I	ug/L	1	2.0	0.11	2/17/2019 17:37	J
Cobalt	0.36	I	ug/L	1	0.50	0.19	2/17/2019 17:37	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/17/2019 17:37	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/17/2019 17:37	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/17/2019 17:37	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/17/2019 17:37	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/17/2019 17:37	J
Thallium	0.070	I	ug/L	1	0.20	0.057	2/17/2019 17:37	J
Vanadium	1.3	I	ug/L	1	2.0	0.71	2/17/2019 17:37	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/12/2019 16:35	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512004**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-28A**

Date Collected: 02/11/19 11:02

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 12:17	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 12:17	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:17	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 12:17	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 12:17	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 12:17	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 12:17	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 12:17	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:17	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 12:17	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 12:17	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 12:17	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 12:17	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 12:17	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 12:17	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 12:17	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:17	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 12:17	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:17	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 12:17	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 12:17	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 12:17	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:17	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 12:17	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 12:17	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 12:17	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 12:17	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 12:17	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 12:17	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 12:17	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 12:17	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 12:17	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 12:17	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:17	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 12:17	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:17	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 12:17	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512004**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-28A**

Date Collected: 02/11/19 11:02

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 12:17	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:17	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 12:17	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 12:17	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:17	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 12:17	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:17	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 12:17	T
1,2-Dichloroethane-d4 (S)	111		%	1	70-128		2/15/2019 12:17	
Toluene-d8 (S)	104		%	1	77-119		2/15/2019 12:17	
Bromofluorobenzene (S)	124	J1	%	1	86-123		2/15/2019 12:17	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 12:17	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 12:17	T
1,2-Dichloroethane-d4 (S)	113		%	1	70-130		2/15/2019 12:17	
Toluene-d8 (S)	103		%	1	70-130		2/15/2019 12:17	
Bromofluorobenzene (S)	114		%	1	70-130		2/15/2019 12:17	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	2.7		mg/L	1	0.10	0.025	2/26/2019 12:09	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	290		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	91	J4	mg/L	1	5.0	2.6	2/19/2019 14:49	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/12/2019 12:05	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512005**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-72**

Date Collected: 02/11/19 12:11

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	1544		umhos/cm	1			2/11/2019 12:11	....
Dissolved Oxygen	0.58		mg/L	1			2/11/2019 12:11	....
ORP-2580BW	-78.6		mV	1			2/11/2019 12:11	....
Temperature	23.7		°C	1			2/11/2019 12:11	....
Turbidity	0.14		NTU	1			2/11/2019 12:11	....
pH	6.57		SU	1			2/11/2019 12:11	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:34	T
Iron	410		ug/L	1	100	26	2/15/2019 16:34	T
Sodium	100		mg/L	1	0.20	0.17	2/15/2019 16:34	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:34	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/17/2019 17:41	J
Arsenic	0.12	I	ug/L	1	1.0	0.077	2/17/2019 17:41	J
Barium	25		ug/L	1	0.60	0.24	2/17/2019 17:41	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/17/2019 17:41	J
Chromium	0.22	I	ug/L	1	2.0	0.11	2/17/2019 17:41	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/17/2019 17:41	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/17/2019 17:41	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/17/2019 17:41	J
Nickel	1.0	I	ug/L	1	2.0	0.98	2/17/2019 17:41	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/17/2019 17:41	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/17/2019 17:41	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/17/2019 17:41	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/17/2019 17:41	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/12/2019 16:37	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512005**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-72**

Date Collected: 02/11/19 12:11

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 12:44	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 12:44	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:44	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 12:44	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 12:44	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 12:44	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 12:44	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 12:44	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:44	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 12:44	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 12:44	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 12:44	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 12:44	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 12:44	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 12:44	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 12:44	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:44	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 12:44	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:44	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 12:44	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 12:44	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 12:44	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:44	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 12:44	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 12:44	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 12:44	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 12:44	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 12:44	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 12:44	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 12:44	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 12:44	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 12:44	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 12:44	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:44	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 12:44	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 12:44	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 12:44	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512005**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-72**

Date Collected: 02/11/19 12:11

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 12:44	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:44	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 12:44	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 12:44	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:44	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 12:44	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 12:44	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 12:44	T
1,2-Dichloroethane-d4 (S)	104		%	1	70-128		2/15/2019 12:44	
Toluene-d8 (S)	103		%	1	77-119		2/15/2019 12:44	
Bromofluorobenzene (S)	120		%	1	86-123		2/15/2019 12:44	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 12:44	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 12:44	T
1,2-Dichloroethane-d4 (S)	104		%	1	70-130		2/15/2019 12:44	
Toluene-d8 (S)	102		%	1	70-130		2/15/2019 12:44	
Bromofluorobenzene (S)	111		%	1	70-130		2/15/2019 12:44	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	9.9		mg/L	1	0.10	0.025	2/26/2019 12:10	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	1100		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	260	J4	mg/L	5	25	13	2/19/2019 15:22	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.23		mg/L	1	0.20	0.18	2/12/2019 12:50	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512006**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-58**

Date Collected: 02/11/19 12:31

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	379.6		umhos/cm	1			2/11/2019 12:31	....
Dissolved Oxygen	0.49		mg/L	1			2/11/2019 12:31	....
ORP-2580BW	7.2		mV	1			2/11/2019 12:31	....
Temperature	26.8		°C	1			2/11/2019 12:31	....
Turbidity	0.84		NTU	1			2/11/2019 12:31	....
pH	5.76		SU	1			2/11/2019 12:31	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:38	T
Iron	2500		ug/L	1	100	26	2/15/2019 16:38	T
Sodium	18		mg/L	1	0.20	0.17	2/15/2019 16:38	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:38	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/17/2019 17:45	J
Arsenic	12		ug/L	1	1.0	0.077	2/17/2019 17:45	J
Barium	13		ug/L	1	0.60	0.24	2/17/2019 17:45	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/17/2019 17:45	J
Chromium	1.6	I	ug/L	1	2.0	0.11	2/17/2019 17:45	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/17/2019 17:45	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/17/2019 17:45	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/17/2019 17:45	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/17/2019 17:45	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/17/2019 17:45	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/17/2019 17:45	J
Thallium	0.22		ug/L	1	0.20	0.057	2/17/2019 17:45	J
Vanadium	5.1		ug/L	1	2.0	0.71	2/17/2019 17:45	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/12/2019 16:39	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512006**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-58**

Date Collected: 02/11/19 12:31

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 13:10	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 13:10	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:10	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 13:10	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 13:10	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 13:10	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 13:10	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 13:10	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:10	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 13:10	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 13:10	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 13:10	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 13:10	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 13:10	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 13:10	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 13:10	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:10	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 13:10	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:10	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 13:10	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 13:10	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 13:10	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:10	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 13:10	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 13:10	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 13:10	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 13:10	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 13:10	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 13:10	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 13:10	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 13:10	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 13:10	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 13:10	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:10	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 13:10	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:10	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 13:10	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512006**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **TH-58**

Date Collected: 02/11/19 12:31

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 13:10	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:10	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 13:10	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 13:10	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:10	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 13:10	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:10	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 13:10	T
1,2-Dichloroethane-d4 (S)	106		%	1	70-128		2/15/2019 13:10	
Toluene-d8 (S)	103		%	1	77-119		2/15/2019 13:10	
Bromofluorobenzene (S)	122		%	1	86-123		2/15/2019 13:10	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 13:10	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 13:10	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-130		2/15/2019 13:10	
Toluene-d8 (S)	102		%	1	70-130		2/15/2019 13:10	
Bromofluorobenzene (S)	112		%	1	70-130		2/15/2019 13:10	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	1.1		mg/L	1	0.10	0.025	2/26/2019 12:11	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	220		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	19		mg/L	1	5.0	2.6	2/19/2019 15:01	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	1.3		mg/L	1	0.20	0.18	2/12/2019 12:00	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512007**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/11/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 10:31	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 10:31	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:31	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 10:31	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 10:31	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 10:31	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 10:31	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 10:31	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:31	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 10:31	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 10:31	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 10:31	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 10:31	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 10:31	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 10:31	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 10:31	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:31	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 10:31	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:31	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 10:31	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 10:31	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 10:31	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:31	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 10:31	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 10:31	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 10:31	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 10:31	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 10:31	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 10:31	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 10:31	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 10:31	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 10:31	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 10:31	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:31	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 10:31	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:31	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512007**

Date Received: 02/11/19 15:07 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/11/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 10:31	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 10:31	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:31	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 10:31	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 10:31	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:31	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 10:31	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:31	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 10:31	T
1,2-Dichloroethane-d4 (S)	103		%	1	70-128		2/15/2019 10:31	
Toluene-d8 (S)	99		%	1	77-119		2/15/2019 10:31	
Bromofluorobenzene (S)	107		%	1	86-123		2/15/2019 10:31	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 10:31	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 10:31	T
1,2-Dichloroethane-d4 (S)	104		%	1	70-130		2/15/2019 10:31	
Toluene-d8 (S)	98		%	1	70-130		2/15/2019 10:31	
Bromofluorobenzene (S)	98		%	1	70-130		2/15/2019 10:31	

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512008**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-69A**

Date Collected: 02/12/19 09:55

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	499.4		umhos/cm	1			2/12/2019 09:55	....
Dissolved Oxygen	0.21		mg/L	1			2/12/2019 09:55	....
ORP-2580BW	-9.5		mV	1			2/12/2019 09:55	....
Temperature	26		°C	1			2/12/2019 09:55	....
Turbidity	7.2		NTU	1			2/12/2019 09:55	....
pH	6.03		SU	1			2/12/2019 09:55	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:41	T
Iron	4900		ug/L	1	100	26	2/15/2019 16:41	T
Sodium	14		mg/L	1	0.20	0.17	2/15/2019 16:41	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:41	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 12:32	J
Arsenic	0.18	I	ug/L	1	1.0	0.077	2/26/2019 12:32	J
Barium	4.7		ug/L	1	0.60	0.24	2/26/2019 12:32	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 12:32	J
Chromium	0.45	I	ug/L	1	2.0	0.11	2/26/2019 12:32	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 12:32	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 12:32	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 12:32	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 12:32	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 12:32	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 12:32	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 12:32	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/26/2019 12:32	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.057	I	ug/L	1	0.10	0.050	2/21/2019 13:43	T

VOLATILES

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512008**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-69A**

Date Collected: 02/12/19 09:55

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 13:37	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 13:37	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:37	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 13:37	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 13:37	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 13:37	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 13:37	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 13:37	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:37	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 13:37	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 13:37	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 13:37	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 13:37	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 13:37	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 13:37	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 13:37	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:37	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 13:37	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:37	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 13:37	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 13:37	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 13:37	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:37	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 13:37	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 13:37	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 13:37	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 13:37	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 13:37	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 13:37	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 13:37	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 13:37	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 13:37	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 13:37	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:37	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 13:37	T
Trichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 13:37	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 13:37	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512008**
Sample ID: **TH-69A**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 09:55

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 13:37	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:37	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 13:37	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 13:37	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:37	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 13:37	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 13:37	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 13:37	T
1,2-Dichloroethane-d4 (S)	103		%	1	70-128		2/15/2019 13:37	
Toluene-d8 (S)	102		%	1	77-119		2/15/2019 13:37	
Bromofluorobenzene (S)	116		%	1	86-123		2/15/2019 13:37	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 13:37	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 13:37	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-130		2/15/2019 13:37	
Toluene-d8 (S)	101		%	1	70-130		2/15/2019 13:37	
Bromofluorobenzene (S)	107		%	1	70-130		2/15/2019 13:37	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.36		mg/L	1	0.10	0.025	2/26/2019 12:33	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	300		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	40		mg/L	1	5.0	2.6	2/19/2019 15:01	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 18:48	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512009**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-19**

Date Collected: 02/12/19 10:26

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	419.7		umhos/cm	1			2/12/2019 10:26	....
Dissolved Oxygen	0.17		mg/L	1			2/12/2019 10:26	....
ORP-2580BW	-55.5		mV	1			2/12/2019 10:26	....
Temperature	23.4		°C	1			2/12/2019 10:26	....
Turbidity	0.37		NTU	1			2/12/2019 10:26	....
pH	7.08		SU	1			2/12/2019 10:26	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 16:45	T
Iron	26	U	ug/L	1	100	26	2/15/2019 16:45	T
Sodium	14		mg/L	1	0.20	0.17	2/15/2019 16:45	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 16:45	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 13:00	J
Arsenic	0.077	U	ug/L	1	1.0	0.077	2/26/2019 13:00	J
Barium	4.4		ug/L	1	0.60	0.24	2/26/2019 13:00	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:00	J
Chromium	0.11	U	ug/L	1	2.0	0.11	2/26/2019 13:00	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:00	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 13:00	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:00	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:00	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:00	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:00	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:00	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/26/2019 13:00	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/21/2019 13:46	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512009**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-19**

Date Collected: 02/12/19 10:26

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 14:04	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 14:04	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:04	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 14:04	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 14:04	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 14:04	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 14:04	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 14:04	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:04	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 14:04	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 14:04	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 14:04	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 14:04	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 14:04	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 14:04	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 14:04	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:04	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 14:04	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:04	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 14:04	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 14:04	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 14:04	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:04	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 14:04	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 14:04	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 14:04	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 14:04	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 14:04	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 14:04	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 14:04	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 14:04	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 14:04	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 14:04	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:04	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 14:04	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:04	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 14:04	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512009**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-19**

Date Collected: 02/12/19 10:26

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 14:04	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:04	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 14:04	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 14:04	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:04	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 14:04	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:04	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 14:04	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-128		2/15/2019 14:04	
Toluene-d8 (S)	100		%	1	77-119		2/15/2019 14:04	
Bromofluorobenzene (S)	116		%	1	86-123		2/15/2019 14:04	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 14:04	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 14:04	T
1,2-Dichloroethane-d4 (S)	106		%	1	70-130		2/15/2019 14:04	
Toluene-d8 (S)	99		%	1	70-130		2/15/2019 14:04	
Bromofluorobenzene (S)	106		%	1	70-130		2/15/2019 14:04	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.33		mg/L	1	0.10	0.025	2/26/2019 12:34	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	310		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	8.3		mg/L	1	5.0	2.6	2/19/2019 15:02	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 17:37	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512010**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-36A**

Date Collected: 02/12/19 10:46

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	201.9		umhos/cm	1			2/12/2019 10:46	....
Dissolved Oxygen	1.27		mg/L	1			2/12/2019 10:46	....
ORP-2580BW	53.2		mV	1			2/12/2019 10:46	....
Temperature	25.3		°C	1			2/12/2019 10:46	....
Turbidity	4.5		NTU	1			2/12/2019 10:46	....
pH	5.61		SU	1			2/12/2019 10:46	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:06	T
Iron	190		ug/L	1	100	26	2/15/2019 17:06	T
Sodium	4.1		mg/L	1	0.20	0.17	2/15/2019 17:06	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:06	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 13:04	J
Arsenic	0.43	I	ug/L	1	1.0	0.077	2/26/2019 13:04	J
Barium	5.8		ug/L	1	0.60	0.24	2/26/2019 13:04	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:04	J
Chromium	0.54	I	ug/L	1	2.0	0.11	2/26/2019 13:04	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:04	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 13:04	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:04	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:04	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:04	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:04	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:04	J
Vanadium	1.2	I	ug/L	1	2.0	0.71	2/26/2019 13:04	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/21/2019 13:50	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512010**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-36A**

Date Collected: 02/12/19 10:46

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 02:48	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 02:48	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 02:48	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 02:48	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 02:48	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 02:48	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 02:48	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 02:48	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 02:48	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 02:48	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 02:48	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 02:48	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 02:48	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 02:48	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 02:48	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 02:48	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 02:48	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 02:48	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 02:48	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 02:48	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 02:48	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 02:48	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 02:48	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 02:48	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 02:48	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 02:48	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 02:48	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 02:48	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 02:48	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 02:48	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 02:48	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 02:48	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 02:48	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 02:48	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 02:48	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 02:48	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 02:48	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512010**
Sample ID: **TH-36A**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 10:46

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 02:48	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 02:48	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 02:48	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 02:48	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 02:48	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 02:48	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 02:48	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 02:48	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-128		2/16/2019 02:48	
Toluene-d8 (S)	100		%	1	77-119		2/16/2019 02:48	
Bromofluorobenzene (S)	104		%	1	86-123		2/16/2019 02:48	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 14:30	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 14:30	T
1,2-Dichloroethane-d4 (S)	128		%	1	70-130		2/15/2019 14:30	
Toluene-d8 (S)	105		%	1	70-130		2/15/2019 14:30	
Bromofluorobenzene (S)	124		%	1	70-130		2/15/2019 14:30	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.15		mg/L	1	0.10	0.025	2/26/2019 12:36	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	110		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	9.4		mg/L	1	5.0	2.6	2/19/2019 15:03	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 17:50	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512011**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-71A**

Date Collected: 02/12/19 11:19

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	1408		umhos/cm	1			2/12/2019 11:19	....
Dissolved Oxygen	0.15		mg/L	1			2/12/2019 11:19	....
ORP-2580BW	-20.6		mV	1			2/12/2019 11:19	....
Temperature	24.7		°C	1			2/12/2019 11:19	....
Turbidity	4.67		NTU	1			2/12/2019 11:19	....
pH	6.03		SU	1			2/12/2019 11:19	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:10	T
Iron	22000		ug/L	1	100	26	2/15/2019 17:10	T
Sodium	46		mg/L	1	0.20	0.17	2/15/2019 17:10	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:10	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.15	I	ug/L	1	0.70	0.11	2/26/2019 13:08	J
Arsenic	1.4		ug/L	1	1.0	0.077	2/26/2019 13:08	J
Barium	9.8		ug/L	1	0.60	0.24	2/26/2019 13:08	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:08	J
Chromium	0.36	I	ug/L	1	2.0	0.11	2/26/2019 13:08	J
Cobalt	0.19	I	ug/L	1	0.50	0.19	2/26/2019 13:08	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 13:08	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:08	J
Nickel	1.2	I	ug/L	1	2.0	0.98	2/26/2019 13:08	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:08	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:08	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:08	J
Vanadium	3.1		ug/L	1	2.0	0.71	2/26/2019 13:08	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	I	ug/L	1	0.10	0.050	2/21/2019 13:52	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512011**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-71A**

Date Collected: 02/12/19 11:19

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 14:57	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 14:57	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:57	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 14:57	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 14:57	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 14:57	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 14:57	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 14:57	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:57	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 14:57	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 14:57	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 14:57	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 14:57	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 14:57	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 14:57	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 14:57	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:57	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 14:57	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:57	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 14:57	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 14:57	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 14:57	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:57	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 14:57	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 14:57	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 14:57	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 14:57	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 14:57	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 14:57	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 14:57	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 14:57	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 14:57	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 14:57	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:57	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 14:57	T
Trichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 14:57	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 14:57	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512011**
Sample ID: **TH-71A**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 11:19

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 14:57	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:57	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 14:57	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 14:57	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:57	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 14:57	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 14:57	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 14:57	T
1,2-Dichloroethane-d4 (S)	111		%	1	70-128		2/15/2019 14:57	
Toluene-d8 (S)	105		%	1	77-119		2/15/2019 14:57	
Bromofluorobenzene (S)	126	J1	%	1	86-123		2/15/2019 14:57	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 14:57	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 14:57	T
1,2-Dichloroethane-d4 (S)	112		%	1	70-130		2/15/2019 14:57	
Toluene-d8 (S)	104		%	1	70-130		2/15/2019 14:57	
Bromofluorobenzene (S)	116		%	1	70-130		2/15/2019 14:57	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	1.7		mg/L	1	0.10	0.025	2/26/2019 12:37	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	1100		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	260		mg/L	5	25	13	2/19/2019 15:24	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 18:47	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512012**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-68**

Date Collected: 02/12/19 12:01

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	198		umhos/cm	1			2/12/2019 12:01	....
Dissolved Oxygen	1.53		mg/L	1			2/12/2019 12:01	....
ORP-2580BW	1.4		mV	1			2/12/2019 12:01	....
Temperature	27.1		°C	1			2/12/2019 12:01	....
Turbidity	18.7		NTU	1			2/12/2019 12:01	....
pH	5.44		SU	1			2/12/2019 12:01	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:14	T
Iron	330		ug/L	1	100	26	2/15/2019 17:14	T
Sodium	6.3		mg/L	1	0.20	0.17	2/15/2019 17:14	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:14	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.12	I	ug/L	1	0.70	0.11	2/26/2019 13:21	J
Arsenic	1.1		ug/L	1	1.0	0.077	2/26/2019 13:21	J
Barium	6.0		ug/L	1	0.60	0.24	2/26/2019 13:21	J
Cadmium	0.076	I	ug/L	1	0.50	0.064	2/26/2019 13:21	J
Chromium	3.1		ug/L	1	2.0	0.11	2/26/2019 13:21	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:21	J
Copper	0.79		ug/L	1	0.70	0.35	2/26/2019 13:21	J
Lead	0.43	I	ug/L	1	0.70	0.24	2/26/2019 13:21	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:21	J
Selenium	0.70	I	ug/L	1	5.0	0.58	2/26/2019 13:21	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:21	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:21	J
Vanadium	2.4		ug/L	1	2.0	0.71	2/26/2019 13:21	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/21/2019 13:55	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512012**
Sample ID: **TH-68**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 12:01

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 21:28	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 21:28	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:28	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 21:28	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 21:28	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 21:28	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 21:28	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 21:28	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:28	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 21:28	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 21:28	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 21:28	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 21:28	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 21:28	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 21:28	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 21:28	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:28	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 21:28	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:28	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 21:28	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 21:28	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 21:28	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:28	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 21:28	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 21:28	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 21:28	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 21:28	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 21:28	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 21:28	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 21:28	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 21:28	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 21:28	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 21:28	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:28	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 21:28	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:28	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 21:28	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512012**
Sample ID: **TH-68**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 12:01

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 21:28	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:28	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 21:28	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 21:28	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:28	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 21:28	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:28	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 21:28	T
1,2-Dichloroethane-d4 (S)	113		%	1	70-128		2/15/2019 21:28	
Toluene-d8 (S)	102		%	1	77-119		2/15/2019 21:28	
Bromofluorobenzene (S)	112		%	1	86-123		2/15/2019 21:28	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 21:28	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 21:28	T
1,2-Dichloroethane-d4 (S)	115		%	1	70-130		2/15/2019 21:28	
Toluene-d8 (S)	101		%	1	70-130		2/15/2019 21:28	
Bromofluorobenzene (S)	103		%	1	70-130		2/15/2019 21:28	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.04	I	mg/L	1	0.10	0.025	2/26/2019 12:47	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	170		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	9.7		mg/L	1	5.0	2.6	2/19/2019 15:04	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	I	mg/L	1	0.20	0.18	2/13/2019 17:59	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512013**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-64**

Date Collected: 02/12/19 12:43

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	229.3		umhos/cm	1			2/12/2019 12:43	....
Dissolved Oxygen	0.86		mg/L	1			2/12/2019 12:43	....
ORP-2580BW	121.5		mV	1			2/12/2019 12:43	....
Temperature	26.2		°C	1			2/12/2019 12:43	....
Turbidity	10.13		NTU	1			2/12/2019 12:43	....
pH	4.49		SU	1			2/12/2019 12:43	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:18	T
Iron	520		ug/L	1	100	26	2/15/2019 17:18	T
Sodium	8.6		mg/L	1	0.20	0.17	2/15/2019 17:18	T
Zinc	9.0	I	ug/L	1	10	7.4	2/15/2019 17:18	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.24	I	ug/L	1	0.70	0.11	2/26/2019 13:25	J
Arsenic	0.30	I	ug/L	1	1.0	0.077	2/26/2019 13:25	J
Barium	36		ug/L	1	0.60	0.24	2/26/2019 13:25	J
Cadmium	0.53		ug/L	1	0.50	0.064	2/26/2019 13:25	J
Chromium	1.5	I	ug/L	1	2.0	0.11	2/26/2019 13:25	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:25	J
Copper	0.68	I	ug/L	1	0.70	0.35	2/26/2019 13:25	J
Lead	0.66	I	ug/L	1	0.70	0.24	2/26/2019 13:25	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:25	J
Selenium	1.2	I	ug/L	1	5.0	0.58	2/26/2019 13:25	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:25	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:25	J
Vanadium	6.5		ug/L	1	2.0	0.71	2/26/2019 13:25	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/21/2019 13:57	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512013**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-64**

Date Collected: 02/12/19 12:43

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 21:55	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 21:55	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:55	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 21:55	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 21:55	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 21:55	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 21:55	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 21:55	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:55	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 21:55	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 21:55	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 21:55	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 21:55	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 21:55	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 21:55	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 21:55	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:55	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 21:55	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:55	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 21:55	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 21:55	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 21:55	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:55	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 21:55	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 21:55	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 21:55	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 21:55	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 21:55	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 21:55	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 21:55	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 21:55	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 21:55	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 21:55	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:55	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 21:55	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 21:55	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 21:55	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512013**
Sample ID: **TH-64**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 12:43

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 21:55	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:55	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 21:55	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 21:55	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:55	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 21:55	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 21:55	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 21:55	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-128		2/15/2019 21:55	
Toluene-d8 (S)	101		%	1	77-119		2/15/2019 21:55	
Bromofluorobenzene (S)	117		%	1	86-123		2/15/2019 21:55	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 21:55	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 21:55	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-130		2/15/2019 21:55	
Toluene-d8 (S)	100		%	1	70-130		2/15/2019 21:55	
Bromofluorobenzene (S)	107		%	1	70-130		2/15/2019 21:55	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	U	mg/L	1	0.10	0.025	2/26/2019 12:38	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	180		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	12		mg/L	1	5.0	2.6	2/19/2019 15:04	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 17:36	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512014**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-61A**

Date Collected: 02/12/19 13:34

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	294.5		umhos/cm	1			2/12/2019 13:34	....
Dissolved Oxygen	0.3		mg/L	1			2/12/2019 13:34	....
ORP-2580BW	20.9		mV	1			2/12/2019 13:34	....
Temperature	25.7		°C	1			2/12/2019 13:34	....
Turbidity	1.46		NTU	1			2/12/2019 13:34	....
pH	5.61		SU	1			2/12/2019 13:34	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:21	T
Iron	180		ug/L	1	100	26	2/15/2019 17:21	T
Sodium	3.7		mg/L	1	0.20	0.17	2/15/2019 17:21	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:21	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.42	I	ug/L	1	0.70	0.11	2/26/2019 13:29	J
Arsenic	0.34	I	ug/L	1	1.0	0.077	2/26/2019 13:29	J
Barium	4.2		ug/L	1	0.60	0.24	2/26/2019 13:29	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:29	J
Chromium	0.88	I	ug/L	1	2.0	0.11	2/26/2019 13:29	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:29	J
Copper	1.8		ug/L	1	0.70	0.35	2/26/2019 13:29	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:29	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:29	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:29	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:29	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:29	J
Vanadium	20		ug/L	1	2.0	0.71	2/26/2019 13:29	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/21/2019 14:00	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512014**
Sample ID: **TH-61A**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 13:34

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 22:21	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 22:21	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:21	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 22:21	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 22:21	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 22:21	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 22:21	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 22:21	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:21	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 22:21	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 22:21	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 22:21	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 22:21	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 22:21	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 22:21	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 22:21	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:21	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 22:21	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:21	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 22:21	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 22:21	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 22:21	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:21	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 22:21	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 22:21	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 22:21	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 22:21	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 22:21	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 22:21	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 22:21	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 22:21	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 22:21	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 22:21	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:21	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 22:21	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:21	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 22:21	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512014**
Sample ID: **TH-61A**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 13:34

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 22:21	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:21	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 22:21	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 22:21	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:21	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 22:21	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:21	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 22:21	T
1,2-Dichloroethane-d4 (S)	109		%	1	70-128		2/15/2019 22:21	
Toluene-d8 (S)	102		%	1	77-119		2/15/2019 22:21	
Bromofluorobenzene (S)	115		%	1	86-123		2/15/2019 22:21	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 22:21	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 22:21	T
1,2-Dichloroethane-d4 (S)	111		%	1	70-130		2/15/2019 22:21	
Toluene-d8 (S)	101		%	1	70-130		2/15/2019 22:21	
Bromofluorobenzene (S)	106		%	1	70-130		2/15/2019 22:21	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.04	I	mg/L	1	0.10	0.025	2/26/2019 12:39	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	270		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	5.6		mg/L	1	5.0	2.6	2/19/2019 15:05	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 18:49	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512015**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-61**

Date Collected: 02/12/19 14:03

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	160		umhos/cm	1			2/12/2019 14:03	....
Dissolved Oxygen	0.43		mg/L	1			2/12/2019 14:03	....
ORP-2580BW	-30.2		mV	1			2/12/2019 14:03	....
Temperature	26		°C	1			2/12/2019 14:03	....
Turbidity	1.72		NTU	1			2/12/2019 14:03	....
pH	5.47		SU	1			2/12/2019 14:03	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:25	T
Iron	180		ug/L	1	100	26	2/15/2019 17:25	T
Sodium	3.2		mg/L	1	0.20	0.17	2/15/2019 17:25	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:25	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 13:34	J
Arsenic	0.49	I	ug/L	1	1.0	0.077	2/26/2019 13:34	J
Barium	4.7		ug/L	1	0.60	0.24	2/26/2019 13:34	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:34	J
Chromium	0.86	I	ug/L	1	2.0	0.11	2/26/2019 13:34	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:34	J
Copper	0.59	I	ug/L	1	0.70	0.35	2/26/2019 13:34	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:34	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:34	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:34	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:34	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:34	J
Vanadium	1.8	I	ug/L	1	2.0	0.71	2/26/2019 13:34	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	I	ug/L	1	0.10	0.050	2/21/2019 14:02	T

VOLATILES

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512015**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **TH-61**

Date Collected: 02/12/19 14:03

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 22:48	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 22:48	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:48	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 22:48	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 22:48	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 22:48	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 22:48	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 22:48	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:48	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 22:48	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 22:48	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 22:48	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 22:48	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 22:48	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 22:48	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 22:48	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:48	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 22:48	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:48	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 22:48	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 22:48	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 22:48	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:48	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 22:48	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 22:48	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 22:48	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 22:48	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 22:48	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 22:48	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 22:48	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 22:48	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 22:48	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 22:48	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:48	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 22:48	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 22:48	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 22:48	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512015**
Sample ID: **TH-61**

Date Received: 02/12/19 14:55 Matrix: Water
Date Collected: 02/12/19 14:03

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 22:48	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:48	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 22:48	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 22:48	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:48	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 22:48	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 22:48	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 22:48	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-128		2/15/2019 22:48	
Toluene-d8 (S)	100		%	1	77-119		2/15/2019 22:48	
Bromofluorobenzene (S)	117		%	1	86-123		2/15/2019 22:48	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 22:48	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 22:48	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-130		2/15/2019 22:48	
Toluene-d8 (S)	99		%	1	70-130		2/15/2019 22:48	
Bromofluorobenzene (S)	107		%	1	70-130		2/15/2019 22:48	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.08	I	mg/L	1	0.10	0.025	2/26/2019 12:40	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	130		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	5.2		mg/L	1	5.0	2.6	2/19/2019 15:06	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 18:44	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512016**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/12/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 10:04	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 10:04	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:04	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 10:04	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 10:04	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 10:04	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 10:04	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 10:04	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:04	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 10:04	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 10:04	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 10:04	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 10:04	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 10:04	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 10:04	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 10:04	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:04	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 10:04	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:04	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 10:04	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 10:04	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 10:04	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:04	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 10:04	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 10:04	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 10:04	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 10:04	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 10:04	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 10:04	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 10:04	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 10:04	T
Methylene Chloride	8.4	U	ug/L	1	2.0	1.0	2/15/2019 10:04	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 10:04	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:04	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 10:04	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 10:04	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512016**

Date Received: 02/12/19 14:55 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/12/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 10:04	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 10:04	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:04	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 10:04	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 10:04	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:04	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 10:04	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 10:04	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 10:04	T
1,2-Dichloroethane-d4 (S)	100		%	1	70-128		2/15/2019 10:04	
Toluene-d8 (S)	102		%	1	77-119		2/15/2019 10:04	
Bromofluorobenzene (S)	107		%	1	86-123		2/15/2019 10:04	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 10:04	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 10:04	T
1,2-Dichloroethane-d4 (S)	102		%	1	70-130		2/15/2019 10:04	
Toluene-d8 (S)	101		%	1	70-130		2/15/2019 10:04	
Bromofluorobenzene (S)	98		%	1	70-130		2/15/2019 10:04	

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512017**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-78**

Date Collected: 02/13/19 11:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	529		umhos/cm	1			2/13/2019 11:05	....
Dissolved Oxygen	0.34		mg/L	1			2/13/2019 11:05	....
ORP-2580BW	-207.3		mV	1			2/13/2019 11:05	....
Temperature	22.8		°C	1			2/13/2019 11:05	....
Turbidity	0.61		NTU	1			2/13/2019 11:05	....
pH	7.82		SU	1			2/13/2019 11:05	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:29	T
Iron	230		ug/L	1	100	26	2/15/2019 17:29	T
Sodium	30		mg/L	1	0.20	0.17	2/15/2019 17:29	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:29	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 13:37	J
Arsenic	0.077	U	ug/L	1	1.0	0.077	2/26/2019 13:37	J
Barium	31		ug/L	1	0.60	0.24	2/26/2019 13:37	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:37	J
Chromium	0.11	U	ug/L	1	2.0	0.11	2/26/2019 13:37	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:37	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 13:37	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:37	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:37	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:37	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:37	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:37	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/26/2019 13:37	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 10:49	T

VOLATILES

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512017**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-78**

Date Collected: 02/13/19 11:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 23:15	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 23:15	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:15	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 23:15	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 23:15	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 23:15	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 23:15	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 23:15	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:15	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 23:15	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 23:15	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 23:15	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 23:15	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 23:15	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 23:15	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 23:15	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:15	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 23:15	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:15	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 23:15	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 23:15	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 23:15	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:15	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 23:15	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 23:15	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 23:15	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 23:15	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 23:15	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 23:15	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 23:15	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 23:15	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 23:15	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 23:15	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:15	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 23:15	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:15	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 23:15	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512017**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-78**

Date Collected: 02/13/19 11:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 23:15	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:15	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 23:15	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 23:15	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:15	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 23:15	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:15	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 23:15	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-128		2/15/2019 23:15	
Toluene-d8 (S)	99		%	1	77-119		2/15/2019 23:15	
Bromofluorobenzene (S)	115		%	1	86-123		2/15/2019 23:15	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 23:15	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 23:15	T
1,2-Dichloroethane-d4 (S)	110		%	1	70-130		2/15/2019 23:15	
Toluene-d8 (S)	98		%	1	70-130		2/15/2019 23:15	
Bromofluorobenzene (S)	105		%	1	70-130		2/15/2019 23:15	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.35		mg/L	1	0.10	0.025	2/26/2019 13:56	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	310		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	32		mg/L	1	5.0	2.6	2/21/2019 14:26	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 18:56	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512018**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-70A**

Date Collected: 02/13/19 12:28

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	645		umhos/cm	1			2/13/2019 12:28	....
Dissolved Oxygen	0.09		mg/L	1			2/13/2019 12:28	....
ORP-2580BW	-76.5		mV	1			2/13/2019 12:28	....
Temperature	25.2		°C	1			2/13/2019 12:28	....
Turbidity	89.1		NTU	1			2/13/2019 12:28	....
pH	6.24		SU	1			2/13/2019 12:28	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:33	T
Iron	43000		ug/L	1	100	26	2/15/2019 17:33	T
Sodium	9.9		mg/L	1	0.20	0.17	2/15/2019 17:33	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:33	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 13:41	J
Arsenic	4.2		ug/L	1	1.0	0.077	2/26/2019 13:41	J
Barium	12		ug/L	1	0.60	0.24	2/26/2019 13:41	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:41	J
Chromium	0.62	I	ug/L	1	2.0	0.11	2/26/2019 13:41	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:41	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 13:41	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:41	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:41	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:41	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:41	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:41	J
Vanadium	3.9		ug/L	1	2.0	0.71	2/26/2019 13:41	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 10:52	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512018**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-70A**

Date Collected: 02/13/19 12:28

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/15/2019 23:41	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/15/2019 23:41	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:41	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/15/2019 23:41	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/15/2019 23:41	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/15/2019 23:41	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/15/2019 23:41	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/15/2019 23:41	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:41	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 23:41	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/15/2019 23:41	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/15/2019 23:41	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/15/2019 23:41	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/15/2019 23:41	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/15/2019 23:41	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/15/2019 23:41	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:41	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/15/2019 23:41	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:41	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/15/2019 23:41	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/15/2019 23:41	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/15/2019 23:41	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:41	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/15/2019 23:41	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/15/2019 23:41	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/15/2019 23:41	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/15/2019 23:41	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/15/2019 23:41	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/15/2019 23:41	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/15/2019 23:41	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/15/2019 23:41	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/15/2019 23:41	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/15/2019 23:41	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:41	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/15/2019 23:41	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/15/2019 23:41	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/15/2019 23:41	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512018**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-70A**

Date Collected: 02/13/19 12:28

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/15/2019 23:41	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:41	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/15/2019 23:41	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/15/2019 23:41	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:41	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/15/2019 23:41	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/15/2019 23:41	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/15/2019 23:41	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-128		2/15/2019 23:41	
Toluene-d8 (S)	100		%	1	77-119		2/15/2019 23:41	
Bromofluorobenzene (S)	111		%	1	86-123		2/15/2019 23:41	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/15/2019 23:41	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/15/2019 23:41	T
1,2-Dichloroethane-d4 (S)	106		%	1	70-130		2/15/2019 23:41	
Toluene-d8 (S)	99		%	1	70-130		2/15/2019 23:41	
Bromofluorobenzene (S)	102		%	1	70-130		2/15/2019 23:41	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	1.5		mg/L	1	0.10	0.025	2/26/2019 13:57	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	370		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	39		mg/L	1	5.0	2.6	2/21/2019 14:28	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 18:55	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512019**
Sample ID: **TH-65**

Date Received: 02/13/19 14:38 Matrix: Water
Date Collected: 02/13/19 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	228.9		umhos/cm	1			2/13/2019 13:05	....
Dissolved Oxygen	0.31		mg/L	1			2/13/2019 13:05	....
ORP-2580BW	-57.2		mV	1			2/13/2019 13:05	....
Temperature	23.3		°C	1			2/13/2019 13:05	....
Turbidity	1.82		NTU	1			2/13/2019 13:05	....
pH	5.58		SU	1			2/13/2019 13:05	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/15/2019 17:36	T
Iron	1000		ug/L	1	100	26	2/15/2019 17:36	T
Sodium	9.7		mg/L	1	0.20	0.17	2/15/2019 17:36	T
Zinc	7.4	U	ug/L	1	10	7.4	2/15/2019 17:36	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 13:45	J
Arsenic	7.9		ug/L	1	1.0	0.077	2/26/2019 13:45	J
Barium	0.83		ug/L	1	0.60	0.24	2/26/2019 13:45	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:45	J
Chromium	1.6	I	ug/L	1	2.0	0.11	2/26/2019 13:45	J
Cobalt	0.62		ug/L	1	0.50	0.19	2/26/2019 13:45	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 13:45	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:45	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:45	J
Selenium	0.67	I	ug/L	1	5.0	0.58	2/26/2019 13:45	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:45	J
Thallium	0.072	I	ug/L	1	0.20	0.057	2/26/2019 13:45	J
Vanadium	2.4		ug/L	1	2.0	0.71	2/26/2019 13:45	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 10:55	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512019**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-65**

Date Collected: 02/13/19 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 00:08	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 00:08	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:08	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 00:08	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 00:08	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 00:08	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 00:08	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 00:08	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:08	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 00:08	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 00:08	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 00:08	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 00:08	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 00:08	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 00:08	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 00:08	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:08	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 00:08	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:08	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 00:08	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 00:08	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 00:08	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:08	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 00:08	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 00:08	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 00:08	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 00:08	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 00:08	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 00:08	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 00:08	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 00:08	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 00:08	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 00:08	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:08	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 00:08	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:08	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 00:08	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512019**

Date Received: 02/13/19 14:38 Matrix: Water

Sample ID: **TH-65**

Date Collected: 02/13/19 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 00:08	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:08	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 00:08	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 00:08	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:08	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 00:08	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:08	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 00:08	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-128		2/16/2019 00:08	
Toluene-d8 (S)	99		%	1	77-119		2/16/2019 00:08	
Bromofluorobenzene (S)	111		%	1	86-123		2/16/2019 00:08	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 00:08	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 00:08	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-130		2/16/2019 00:08	
Toluene-d8 (S)	98		%	1	70-130		2/16/2019 00:08	
Bromofluorobenzene (S)	102		%	1	70-130		2/16/2019 00:08	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.80		mg/L	1	0.10	0.025	2/26/2019 13:58	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	230		mg/L	1	10	10	2/14/2019 13:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	15		mg/L	1	5.0	2.6	2/21/2019 14:29	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/13/2019 18:57	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512020**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-66A**

Date Collected: 02/14/19 10:41

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	278.5		umhos/cm	1			2/14/2019 10:41	....
Dissolved Oxygen	0.27		mg/L	1			2/14/2019 10:41	....
ORP-2580BW	-44.7		mV	1			2/14/2019 10:41	....
Temperature	21.9		°C	1			2/14/2019 10:41	....
Turbidity	0.48		NTU	1			2/14/2019 10:41	....
pH	5.81		SU	1			2/14/2019 10:41	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:09	T
Iron	1600		ug/L	1	100	26	2/19/2019 16:09	T
Sodium	7.9		mg/L	1	0.20	0.17	2/19/2019 16:09	T
Zinc	7.4	U	ug/L	1	10	7.4	2/19/2019 16:09	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.35	I	ug/L	1	0.70	0.11	2/26/2019 13:49	J
Arsenic	2.8		ug/L	1	1.0	0.077	2/26/2019 13:49	J
Barium	2.5		ug/L	1	0.60	0.24	2/26/2019 13:49	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:49	J
Chromium	0.52	I	ug/L	1	2.0	0.11	2/26/2019 13:49	J
Cobalt	0.97		ug/L	1	0.50	0.19	2/26/2019 13:49	J
Copper	0.85		ug/L	1	0.70	0.35	2/26/2019 13:49	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:49	J
Nickel	2.1		ug/L	1	2.0	0.98	2/26/2019 13:49	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:49	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:49	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:49	J
Vanadium	12		ug/L	1	2.0	0.71	2/26/2019 13:49	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 10:57	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512020**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-66A**

Date Collected: 02/14/19 10:41

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 00:35	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 00:35	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:35	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 00:35	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 00:35	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 00:35	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 00:35	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 00:35	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:35	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 00:35	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 00:35	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 00:35	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 00:35	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 00:35	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 00:35	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 00:35	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:35	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 00:35	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:35	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 00:35	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 00:35	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 00:35	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:35	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 00:35	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 00:35	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 00:35	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 00:35	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 00:35	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 00:35	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 00:35	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 00:35	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 00:35	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 00:35	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:35	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 00:35	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 00:35	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 00:35	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512020**
Sample ID: **TH-66A**

Date Received: 02/14/19 14:30 Matrix: Water
Date Collected: 02/14/19 10:41

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 00:35	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:35	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 00:35	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 00:35	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:35	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 00:35	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 00:35	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 00:35	T
1,2-Dichloroethane-d4 (S)	106		%	1	70-128		2/16/2019 00:35	
Toluene-d8 (S)	100		%	1	77-119		2/16/2019 00:35	
Bromofluorobenzene (S)	116		%	1	86-123		2/16/2019 00:35	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 00:35	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 00:35	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-130		2/16/2019 00:35	
Toluene-d8 (S)	99		%	1	70-130		2/16/2019 00:35	
Bromofluorobenzene (S)	107		%	1	70-130		2/16/2019 00:35	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	1.6		mg/L	1	0.10	0.029	2/27/2019 15:12	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	240		mg/L	1	10	10	2/19/2019 10:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	17		mg/L	1	5.0	2.6	2/21/2019 14:17	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:38	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512021**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-66**

Date Collected: 02/14/19 11:13

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	261.3		umhos/cm	1			2/14/2019 11:13	....
Dissolved Oxygen	0.11		mg/L	1			2/14/2019 11:13	....
ORP-2580BW	0.8		mV	1			2/14/2019 11:13	....
Temperature	23.5		°C	1			2/14/2019 11:13	....
Turbidity	0.63		NTU	1			2/14/2019 11:13	....
pH	5.86		SU	1			2/14/2019 11:13	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:13	T
Iron	2900		ug/L	1	100	26	2/19/2019 16:13	T
Sodium	6.4		mg/L	1	0.20	0.17	2/19/2019 16:13	T
Zinc	13		ug/L	1	10	7.4	2/19/2019 16:13	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 13:53	J
Arsenic	2.2		ug/L	1	1.0	0.077	2/26/2019 13:53	J
Barium	1.0		ug/L	1	0.60	0.24	2/26/2019 13:53	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 13:53	J
Chromium	0.68	I	ug/L	1	2.0	0.11	2/26/2019 13:53	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 13:53	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 13:53	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:53	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 13:53	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 13:53	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:53	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 13:53	J
Vanadium	1.2	I	ug/L	1	2.0	0.71	2/26/2019 13:53	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:00	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512021**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-66**

Date Collected: 02/14/19 11:13

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 08:58	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 08:58	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:58	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 08:58	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 08:58	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 08:58	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 08:58	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 08:58	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:58	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 08:58	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 08:58	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 08:58	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 08:58	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 08:58	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 08:58	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 08:58	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:58	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 08:58	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:58	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 08:58	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 08:58	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 08:58	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:58	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 08:58	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 08:58	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 08:58	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 08:58	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 08:58	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 08:58	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 08:58	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 08:58	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 08:58	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 08:58	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:58	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 08:58	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:58	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 08:58	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512021**
Sample ID: **TH-66**

Date Received: 02/14/19 14:30 Matrix: Water
Date Collected: 02/14/19 11:13

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 08:58	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:58	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 08:58	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 08:58	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:58	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 08:58	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:58	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 08:58	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-128		2/16/2019 08:58	
Toluene-d8 (S)	99		%	1	77-119		2/16/2019 08:58	
Bromofluorobenzene (S)	115		%	1	86-123		2/16/2019 08:58	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 08:58	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 08:58	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-130		2/16/2019 08:58	
Toluene-d8 (S)	98		%	1	70-130		2/16/2019 08:58	
Bromofluorobenzene (S)	105		%	1	70-130		2/16/2019 08:58	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	1.1	J4	mg/L	1	0.10	0.029	2/27/2019 15:12	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	160		mg/L	1	10	10	2/19/2019 10:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	14		mg/L	1	5.0	2.6	2/21/2019 14:19	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:36	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512022**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-67**

Date Collected: 02/14/19 11:57

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	243.8		umhos/cm	1			2/14/2019 11:57	....
Dissolved Oxygen	0.66		mg/L	1			2/14/2019 11:57	....
ORP-2580BW	118.9		mV	1			2/14/2019 11:57	....
Temperature	21.7		°C	1			2/14/2019 11:57	....
Turbidity	2.75		NTU	1			2/14/2019 11:57	....
pH	6.08		SU	1			2/14/2019 11:57	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:17	T
Iron	130		ug/L	1	100	26	2/19/2019 16:17	T
Sodium	7.5		mg/L	1	0.20	0.17	2/19/2019 16:17	T
Zinc	78		ug/L	1	10	7.4	2/19/2019 16:17	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	1.7		ug/L	1	0.70	0.11	2/26/2019 13:57	J
Arsenic	0.50	I	ug/L	1	1.0	0.077	2/26/2019 13:57	J
Barium	3.7		ug/L	1	0.60	0.24	2/26/2019 13:57	J
Cadmium	0.37	I	ug/L	1	0.50	0.064	2/26/2019 13:57	J
Chromium	0.52	I	ug/L	1	2.0	0.11	2/26/2019 13:57	J
Cobalt	1.0		ug/L	1	0.50	0.19	2/26/2019 13:57	J
Copper	3.6		ug/L	1	0.70	0.35	2/26/2019 13:57	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 13:57	J
Nickel	2.6		ug/L	1	2.0	0.98	2/26/2019 13:57	J
Selenium	0.79	I	ug/L	1	5.0	0.58	2/26/2019 13:57	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 13:57	J
Thallium	0.27		ug/L	1	0.20	0.057	2/26/2019 13:57	J
Vanadium	23		ug/L	1	2.0	0.71	2/26/2019 13:57	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:03	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512022**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-67**

Date Collected: 02/14/19 11:57

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 09:25	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 09:25	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:25	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 09:25	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 09:25	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 09:25	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 09:25	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 09:25	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:25	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 09:25	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 09:25	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 09:25	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 09:25	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 09:25	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 09:25	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 09:25	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:25	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 09:25	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:25	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 09:25	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 09:25	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 09:25	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:25	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 09:25	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 09:25	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 09:25	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 09:25	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 09:25	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 09:25	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 09:25	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 09:25	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 09:25	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 09:25	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:25	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 09:25	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:25	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 09:25	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512022**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-67**

Date Collected: 02/14/19 11:57

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 09:25	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:25	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 09:25	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 09:25	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:25	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 09:25	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:25	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 09:25	T
1,2-Dichloroethane-d4 (S)	110		%	1	70-128		2/16/2019 09:25	
Toluene-d8 (S)	97		%	1	77-119		2/16/2019 09:25	
Bromofluorobenzene (S)	111		%	1	86-123		2/16/2019 09:25	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 09:25	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 09:25	T
1,2-Dichloroethane-d4 (S)	111		%	1	70-130		2/16/2019 09:25	
Toluene-d8 (S)	96		%	1	70-130		2/16/2019 09:25	
Bromofluorobenzene (S)	102		%	1	70-130		2/16/2019 09:25	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.23		mg/L	1	0.10	0.029	2/27/2019 15:12	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	140		mg/L	1	10	10	2/19/2019 10:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	13		mg/L	1	5.0	2.6	2/21/2019 14:19	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:40	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512023**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-22A**

Date Collected: 02/14/19 12:59

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	177.4		umhos/cm	1			2/14/2019 12:59	....
Dissolved Oxygen	0.11		mg/L	1			2/14/2019 12:59	....
ORP-2580BW	73.2		mV	1			2/14/2019 12:59	....
Temperature	20.9		°C	1			2/14/2019 12:59	....
Turbidity	8.01		NTU	1			2/14/2019 12:59	....
pH	4.47		SU	1			2/14/2019 12:59	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:21	T
Iron	950		ug/L	1	100	26	2/19/2019 16:21	T
Sodium	3.2		mg/L	1	0.20	0.17	2/19/2019 16:21	T
Zinc	7.4	U	ug/L	1	10	7.4	2/19/2019 16:21	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A					
			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 14:15	J
Arsenic	0.23	I	ug/L	1	1.0	0.077	2/26/2019 14:15	J
Barium	26		ug/L	1	0.60	0.24	2/26/2019 14:15	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 14:15	J
Chromium	1.4	I	ug/L	1	2.0	0.11	2/26/2019 14:15	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 14:15	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 14:15	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 14:15	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 14:15	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 14:15	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 14:15	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 14:15	J
Vanadium	1.3	I	ug/L	1	2.0	0.71	2/26/2019 14:15	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A					
			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:05	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512023**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-22A**

Date Collected: 02/14/19 12:59

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260B						
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 09:51	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 09:51	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:51	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 09:51	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 09:51	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 09:51	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 09:51	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 09:51	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:51	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 09:51	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 09:51	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 09:51	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 09:51	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 09:51	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 09:51	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 09:51	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:51	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 09:51	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:51	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 09:51	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 09:51	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 09:51	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:51	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 09:51	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 09:51	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 09:51	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 09:51	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 09:51	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 09:51	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 09:51	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 09:51	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 09:51	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 09:51	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:51	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 09:51	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 09:51	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 09:51	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512023**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **TH-22A**

Date Collected: 02/14/19 12:59

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 09:51	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:51	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 09:51	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 09:51	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:51	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 09:51	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 09:51	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 09:51	T
1,2-Dichloroethane-d4 (S)	106		%	1	70-128		2/16/2019 09:51	
Toluene-d8 (S)	98		%	1	77-119		2/16/2019 09:51	
Bromofluorobenzene (S)	116		%	1	86-123		2/16/2019 09:51	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 09:51	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 09:51	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-130		2/16/2019 09:51	
Toluene-d8 (S)	97		%	1	70-130		2/16/2019 09:51	
Bromofluorobenzene (S)	106		%	1	70-130		2/16/2019 09:51	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.58		mg/L	1	0.10	0.029	2/27/2019 15:12	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	170		mg/L	1	10	10	2/19/2019 10:00	T
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Analysis Desc: Chlorides,SM4500-Cl-
E,Water

Analytical Method: SM 4500-Cl-E

Chloride	9.3		mg/L	1	5.0	2.6	2/21/2019 14:20	T
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Analysis Desc: Nitrate,Nitrite
SM4500NO3F,Water

Analytical Method: SM 4500NO3-F

Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:46	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512024**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **Duplicate**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:24	T
Iron	86	I	ug/L	1	100	26	2/19/2019 16:24	T
Sodium	7.0		mg/L	1	0.20	0.17	2/19/2019 16:24	T
Zinc	72		ug/L	1	10	7.4	2/19/2019 16:24	T
Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	1.7		ug/L	1	0.70	0.11	2/26/2019 14:19	J
Arsenic	0.45	I	ug/L	1	1.0	0.077	2/26/2019 14:19	J
Barium	3.0		ug/L	1	0.60	0.24	2/26/2019 14:19	J
Cadmium	0.34	I	ug/L	1	0.50	0.064	2/26/2019 14:19	J
Chromium	0.30	I	ug/L	1	2.0	0.11	2/26/2019 14:19	J
Cobalt	0.94		ug/L	1	0.50	0.19	2/26/2019 14:19	J
Copper	3.1		ug/L	1	0.70	0.35	2/26/2019 14:19	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 14:19	J
Nickel	2.7		ug/L	1	2.0	0.98	2/26/2019 14:19	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 14:19	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 14:19	J
Thallium	0.27		ug/L	1	0.20	0.057	2/26/2019 14:19	J
Vanadium	20		ug/L	1	2.0	0.71	2/26/2019 14:19	J
Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:27	T
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 10:18	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 10:18	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:18	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 10:18	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 10:18	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 10:18	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 10:18	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512024**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **Duplicate**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 10:18	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:18	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 10:18	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 10:18	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 10:18	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 10:18	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 10:18	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 10:18	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 10:18	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:18	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 10:18	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:18	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 10:18	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 10:18	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 10:18	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:18	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 10:18	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 10:18	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 10:18	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 10:18	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 10:18	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 10:18	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 10:18	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 10:18	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 10:18	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 10:18	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:18	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 10:18	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:18	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 10:18	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 10:18	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:18	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 10:18	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 10:18	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:18	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 10:18	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:18	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 10:18	T
1,2-Dichloroethane-d4 (S)	104		%	1	70-128		2/16/2019 10:18	
Toluene-d8 (S)	101		%	1	77-119		2/16/2019 10:18	

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512024**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **Duplicate**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	114		%	1	86-123		2/16/2019 10:18	
Analysis Desc: 8260B SIM Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B (SIM)								
1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 10:18	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 10:18	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-130		2/16/2019 10:18	
Toluene-d8 (S)	100		%	1	70-130		2/16/2019 10:18	
Bromofluorobenzene (S)	105		%	1	70-130		2/16/2019 10:18	

WET CHEMISTRY

Analysis Desc: Ammonia,E350.1,Water								
Analytical Method: EPA 350.1								
Ammonia (N)	0.14		mg/L	1	0.10	0.029	2/27/2019 15:12	T
Analysis Desc: Tot Dissolved Solids,SM2540C								
Analytical Method: SM 2540 C								
Total Dissolved Solids	140		mg/L	1	10	10	2/19/2019 10:00	T
Analysis Desc: Chlorides,SM4500-Cl-E,Water								
Analytical Method: SM 4500-Cl-E								
Chloride	14		mg/L	1	5.0	2.6	2/21/2019 14:30	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water								
Analytical Method: SM 4500NO3-F								
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:47	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512025**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 10:44	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 10:44	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:44	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 10:44	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 10:44	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 10:44	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 10:44	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 10:44	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:44	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 10:44	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 10:44	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 10:44	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 10:44	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 10:44	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 10:44	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 10:44	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:44	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 10:44	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:44	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 10:44	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 10:44	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 10:44	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:44	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 10:44	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 10:44	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 10:44	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 10:44	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 10:44	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 10:44	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 10:44	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 10:44	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 10:44	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 10:44	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:44	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 10:44	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 10:44	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512025**

Date Received: 02/14/19 14:30 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 10:44	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 10:44	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:44	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 10:44	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 10:44	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:44	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 10:44	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 10:44	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 10:44	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-128		2/16/2019 10:44	
Toluene-d8 (S)	99		%	1	77-119		2/16/2019 10:44	
Bromofluorobenzene (S)	112		%	1	86-123		2/16/2019 10:44	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 10:44	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 10:44	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-130		2/16/2019 10:44	
Toluene-d8 (S)	98		%	1	70-130		2/16/2019 10:44	
Bromofluorobenzene (S)	103		%	1	70-130		2/16/2019 10:44	

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512026**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 02/14/19 09:28

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis, Water			Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 15:58	T
Iron	26	U	ug/L	1	100	26	2/19/2019 15:58	T
Zinc	7.4	U	ug/L	1	10	7.4	2/19/2019 15:58	T
Analysis Desc: SW846 6020B			Preparation Method: SW-846 3010A					
Analysis, Total			Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 17:54	J
Arsenic	0.077	U	ug/L	1	1.0	0.077	2/26/2019 17:54	J
Barium	0.24	U	ug/L	1	0.60	0.24	2/26/2019 17:54	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 17:54	J
Chromium	0.11	U	ug/L	1	2.0	0.11	2/26/2019 17:54	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 17:54	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 17:54	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 17:54	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 17:54	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 17:54	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 17:54	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 17:54	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/26/2019 17:54	J
Analysis Desc: SW846 7470A			Preparation Method: SW-846 7470A					
Analysis, Water			Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:30	T
Microbiology								
Analysis Desc: Fecal Coliform			Analytical Method: SM 9222D					
MF, SM9222D, Water								
Coliform Fecal	1	U	#/100 mL	1	1	1	2/14/2019 16:58	T
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 11:11	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 11:11	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:11	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512026**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 02/14/19 09:28

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 11:11	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 11:11	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 11:11	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 11:11	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 11:11	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:11	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 11:11	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 11:11	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 11:11	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 11:11	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 11:11	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 11:11	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 11:11	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:11	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 11:11	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:11	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 11:11	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 11:11	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 11:11	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:11	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 11:11	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 11:11	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 11:11	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 11:11	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 11:11	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 11:11	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 11:11	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 11:11	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 11:11	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 11:11	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:11	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 11:11	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:11	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 11:11	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 11:11	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:11	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 11:11	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 11:11	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:11	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 11:11	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512026**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 02/14/19 09:28

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:11	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 11:11	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-128		2/16/2019 11:11	
Toluene-d8 (S)	99		%	1	77-119		2/16/2019 11:11	
Bromofluorobenzene (S)	112		%	1	86-123		2/16/2019 11:11	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 11:11	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 11:11	T
1,2-Dichloroethane-d4 (S)	109		%	1	70-130		2/16/2019 11:11	
Toluene-d8 (S)	98		%	1	70-130		2/16/2019 11:11	
Bromofluorobenzene (S)	103		%	1	70-130		2/16/2019 11:11	

WET CHEMISTRY

Analysis Desc: Total
Nitrogen, Calculated, Water

Analytical Method: Calculation

Total Nitrogen	0.18	U	mg/L	1	0.40	0.18	3/12/2019 14:30	T
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Analysis Desc: Unionized
Ammonia, DEP SOP, Water

Analytical Method: DEP SOP 10/03/83

Unionized Ammonia	0.00053		mg/L	1		0.00017	2/27/2019 15:12	T
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Analysis Desc: Total
Phosphorus, E365.4, Analysis

Preparation Method: Copper Sulfate Digestion

Analytical Method: EPA 365.4

Total Phosphorus (as P)	0.046	U	mg/L	1	0.10	0.046	2/22/2019 10:07	T
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Analysis Desc: COD, E410.4, Water

Analytical Method: EPA 410.4

Chemical Oxygen Demand	24	U	mg/L	1	50	24	2/18/2019 11:40	T
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Analysis Desc: Chlorophyll
A, SM10200H, Water

Analytical Method: SM 10200 H

Chlorophyll A	2.5	U	mg/m3	1	5.0	2.5	2/22/2019 11:00	G
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Analysis Desc:
Hardness, SM2340C, Water

Analytical Method: SM 2340C

Hardness (as CaCO3)	2.6	U	mg/L	1	10	2.6	2/22/2019 10:30	T
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Analysis Desc: Tot Dissolved
Solids, SM2540C

Analytical Method: SM 2540 C

Total Dissolved Solids	10	U	mg/L	1	10	10	2/19/2019 10:00	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512026**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 02/14/19 09:28

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TSS,SM2540D,Water		Analytical Method: SM 2540D						
Total Suspended Solids	1.0	U	mg/L	1	1.0	1.0	2/20/2019 12:00	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:44	T
Analysis Desc: BOD,SM5210B,Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	2/15/2019 09:27	T
Analysis Desc: TOC,SM5310B,Water		Analytical Method: SM 5310B						
Total Organic Carbon	0.44	I	mg/L	1	1.0	0.42	2/25/2019 09:50	G

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512027**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Mine-Cut 1D**

Date Collected: 02/14/19 09:42

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	314.5		umhos/cm	1			2/14/2019 09:42	....
Dissolved Oxygen	1.38		mg/L	1			2/14/2019 09:42	....
ORP-2580BW	61.8		mV	1			2/14/2019 09:42	....
Temperature	17.7		°C	1			2/14/2019 09:42	....
Turbidity	0.71		NTU	1			2/14/2019 09:42	....
pH	6.43		SU	1			2/14/2019 09:42	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:28	T
Iron	380		ug/L	1	100	26	2/19/2019 16:28	T
Zinc	8.3	I	ug/L	1	10	7.4	2/19/2019 16:28	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.13	I	ug/L	1	0.70	0.11	2/26/2019 17:58	J
Arsenic	0.21	I	ug/L	1	1.0	0.077	2/26/2019 17:58	J
Barium	1.9		ug/L	1	0.60	0.24	2/26/2019 17:58	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 17:58	J
Chromium	0.34	I	ug/L	1	2.0	0.11	2/26/2019 17:58	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 17:58	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 17:58	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 17:58	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 17:58	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 17:58	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 17:58	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 17:58	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/26/2019 17:58	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:32	T

Microbiology

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512027**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Mine-Cut 1D**

Date Collected: 02/14/19 09:42

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Fecal Coliform MF,SM9222D,Water		Analytical Method: SM 9222D						
Coliform Fecal	60	B	#/100 mL	10	10	10	2/14/2019 16:58	T

VOLATILES

Analysis Desc: 8260B Analysis, Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 11:37	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 11:37	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:37	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 11:37	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 11:37	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 11:37	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 11:37	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 11:37	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:37	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 11:37	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 11:37	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 11:37	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 11:37	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 11:37	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 11:37	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 11:37	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:37	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 11:37	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:37	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 11:37	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 11:37	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 11:37	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:37	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 11:37	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 11:37	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 11:37	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 11:37	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 11:37	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 11:37	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 11:37	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 11:37	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 11:37	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512027**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Mine-Cut 1D**

Date Collected: 02/14/19 09:42

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 11:37	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:37	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 11:37	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 11:37	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 11:37	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 11:37	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:37	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 11:37	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 11:37	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:37	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 11:37	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 11:37	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 11:37	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-128		2/16/2019 11:37	
Toluene-d8 (S)	99		%	1	77-119		2/16/2019 11:37	
Bromofluorobenzene (S)	113		%	1	86-123		2/16/2019 11:37	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 11:37	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 11:37	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-130		2/16/2019 11:37	
Toluene-d8 (S)	98		%	1	70-130		2/16/2019 11:37	
Bromofluorobenzene (S)	103		%	1	70-130		2/16/2019 11:37	

WET CHEMISTRY

Analysis Desc: Total

Analytical Method: Calculation

Nitrogen, Calculated, Water

Total Nitrogen	0.18	U	mg/L	1	0.40	0.18	3/12/2019 14:50	T
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Analysis Desc: Unionized

Analytical Method: DEP SOP 10/03/83

Ammonia, DEP SOP, Water

Unionized Ammonia	0.00047		mg/L	1		0.000032	2/27/2019 15:12	T
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Analysis Desc: Total

Preparation Method: Copper Sulfate Digestion

Phosphorus, E365.4, Analysis

Analytical Method: EPA 365.4

Total Phosphorus (as P)	1.4		mg/L	5	0.50	0.23	2/22/2019 10:07	T
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Analysis Desc: COD, E410.4, Water

Analytical Method: EPA 410.4

Chemical Oxygen Demand	33	I	mg/L	1	50	24	2/18/2019 11:40	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512027**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Mine-Cut 1D**

Date Collected: 02/14/19 09:42

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Chlorophyll A, SM10200H, Water		Analytical Method: SM 10200 H						
Chlorophyll A	16		mg/m3	1	5.0	2.5	2/22/2019 11:00	G
Analysis Desc: Hardness, SM2340C, Water		Analytical Method: SM 2340C						
Hardness (as CaCO3)	130		mg/L	1	10	2.6	2/22/2019 10:30	T
Analysis Desc: Tot Dissolved Solids, SM2540C		Analytical Method: SM 2540 C						
Total Dissolved Solids	260		mg/L	1	10	10	2/19/2019 10:00	T
Analysis Desc: TSS, SM2540D, Water		Analytical Method: SM 2540D						
Total Suspended Solids	2.8		mg/L	2	2.0	2.0	2/20/2019 12:00	T
Analysis Desc: Nitrate, Nitrite SM4500NO3F, Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:48	T
Analysis Desc: BOD, SM5210B, Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	4.2		mg/L	1	2.0	2.0	2/15/2019 09:30	T
Analysis Desc: TOC, SM5310B, Water		Analytical Method: SM 5310B						
Total Organic Carbon	17		mg/L	1	1.0	0.42	2/25/2019 09:50	G

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512028**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3B2B**

Date Collected: 02/14/19 13:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	249		umhos/cm	1			2/14/2019 13:30	....
Dissolved Oxygen	6.15		mg/L	1			2/14/2019 13:30	....
ORP-2580BW	176.5		mV	1			2/14/2019 13:30	....
Temperature	17.5		°C	1			2/14/2019 13:30	....
Turbidity	1.1		NTU	1			2/14/2019 13:30	....
pH	5.45		SU	1			2/14/2019 13:30	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:32	T
Iron	330		ug/L	1	100	26	2/19/2019 16:32	T
Zinc	11		ug/L	1	10	7.4	2/19/2019 16:32	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 18:02	J
Arsenic	0.26	I	ug/L	1	1.0	0.077	2/26/2019 18:02	J
Barium	8.6		ug/L	1	0.60	0.24	2/26/2019 18:02	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 18:02	J
Chromium	0.69	I	ug/L	1	2.0	0.11	2/26/2019 18:02	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 18:02	J
Copper	0.55	I	ug/L	1	0.70	0.35	2/26/2019 18:02	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 18:02	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 18:02	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 18:02	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 18:02	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 18:02	J
Vanadium	0.75	I	ug/L	1	2.0	0.71	2/26/2019 18:02	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:35	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512028**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3B2B**

Date Collected: 02/14/19 13:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Fecal Coliform MF,SM9222D,Water Analytical Method: SM 9222D								
Coliform Fecal	1200	B	#/100 mL	100	100	100	2/14/2019 16:58	T

VOLATILES

Analysis Desc: 8260B Analysis, Water Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 12:04	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 12:04	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:04	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 12:04	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 12:04	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 12:04	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 12:04	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 12:04	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:04	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 12:04	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 12:04	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 12:04	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 12:04	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 12:04	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 12:04	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 12:04	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:04	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 12:04	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:04	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 12:04	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 12:04	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 12:04	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:04	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 12:04	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 12:04	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 12:04	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 12:04	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 12:04	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 12:04	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 12:04	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 12:04	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 12:04	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512028**
Sample ID: **Stream 3B2B**

Date Received: 02/14/19 15:00 Matrix: Water
Date Collected: 02/14/19 13:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 12:04	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:04	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 12:04	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:04	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 12:04	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 12:04	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:04	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 12:04	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 12:04	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:04	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 12:04	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:04	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 12:04	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-128		2/16/2019 12:04	
Toluene-d8 (S)	98		%	1	77-119		2/16/2019 12:04	
Bromofluorobenzene (S)	115		%	1	86-123		2/16/2019 12:04	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 12:04	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 12:04	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-130		2/16/2019 12:04	
Toluene-d8 (S)	97		%	1	70-130		2/16/2019 12:04	
Bromofluorobenzene (S)	105		%	1	70-130		2/16/2019 12:04	

WET CHEMISTRY

Analysis Desc: Total
Nitrogen, Calculated, Water

Analytical Method: Calculation

Total Nitrogen	0.18	U	mg/L	1	0.40	0.18	3/12/2019 14:55	T
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Analysis Desc: Unionized
Ammonia, DEP SOP, Water

Analytical Method: DEP SOP 10/03/83

Unionized Ammonia	0.000014		mg/L	1		0.0000033	2/27/2019 15:12	T
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Analysis Desc: Total
Phosphorus, E365.4, Analysis

Preparation Method: Copper Sulfate Digestion

Analytical Method: EPA 365.4

Total Phosphorus (as P)	0.10		mg/L	1	0.10	0.046	2/22/2019 10:07	T
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Analysis Desc: COD, E410.4, Water

Analytical Method: EPA 410.4

Chemical Oxygen Demand	24	U	mg/L	1	50	24	2/18/2019 11:40	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512028**
Sample ID: **Stream 3B2B**

Date Received: 02/14/19 15:00 Matrix: Water
Date Collected: 02/14/19 13:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Chlorophyll A, SM10200H, Water		Analytical Method: SM 10200 H						
Chlorophyll A	2.5	U	mg/m3	1	5.0	2.5	2/22/2019 11:00	G
Analysis Desc: Hardness, SM2340C, Water		Analytical Method: SM 2340C						
Hardness (as CaCO3)	56		mg/L	1	10	2.6	2/22/2019 10:30	T
Analysis Desc: Tot Dissolved Solids, SM2540C		Analytical Method: SM 2540 C						
Total Dissolved Solids	210		mg/L	1	10	10	2/19/2019 10:00	T
Analysis Desc: TSS, SM2540D, Water		Analytical Method: SM 2540D						
Total Suspended Solids	2.8		mg/L	2	2.0	2.0	2/20/2019 12:00	T
Analysis Desc: Nitrate, Nitrite SM4500NO3F, Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:49	T
Analysis Desc: BOD, SM5210B, Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	2/15/2019 09:33	T
Analysis Desc: TOC, SM5310B, Water		Analytical Method: SM 5310B						
Total Organic Carbon	10		mg/L	1	1.0	0.42	2/25/2019 09:50	G

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512029**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3C2**

Date Collected: 02/14/19 13:50

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	228.6		umhos/cm	1			2/14/2019 13:50	....
Dissolved Oxygen	7.54		mg/L	1			2/14/2019 13:50	....
ORP-2580BW	155.6		mV	1			2/14/2019 13:50	....
Temperature	18		°C	1			2/14/2019 13:50	....
Turbidity	1.21		NTU	1			2/14/2019 13:50	....
pH	6		SU	1			2/14/2019 13:50	....
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:51	T
Iron	220		ug/L	1	100	26	2/19/2019 16:51	T
Zinc	9.9	I	ug/L	1	10	7.4	2/19/2019 16:51	T
Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.15	I	ug/L	1	0.70	0.11	2/26/2019 18:06	J
Arsenic	0.40	I	ug/L	1	1.0	0.077	2/26/2019 18:06	J
Barium	4.6		ug/L	1	0.60	0.24	2/26/2019 18:06	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 18:06	J
Chromium	0.67	I	ug/L	1	2.0	0.11	2/26/2019 18:06	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 18:06	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 18:06	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 18:06	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 18:06	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 18:06	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 18:06	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 18:06	J
Vanadium	1.1	I	ug/L	1	2.0	0.71	2/26/2019 18:06	J
Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:38	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512029**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3C2**

Date Collected: 02/14/19 13:50

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Fecal Coliform MF,SM9222D,Water Analytical Method: SM 9222D								
Coliform Fecal	290		#/100 mL	10	10	10	2/14/2019 16:58	T

VOLATILES

Analysis Desc: 8260B Analysis, Water Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 12:31	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 12:31	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:31	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 12:31	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 12:31	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 12:31	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 12:31	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 12:31	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:31	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 12:31	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 12:31	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 12:31	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 12:31	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 12:31	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 12:31	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 12:31	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:31	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 12:31	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:31	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 12:31	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 12:31	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 12:31	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:31	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 12:31	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 12:31	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 12:31	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 12:31	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 12:31	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 12:31	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 12:31	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 12:31	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 12:31	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512029**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3C2**

Date Collected: 02/14/19 13:50

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 12:31	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:31	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 12:31	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:31	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 12:31	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 12:31	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:31	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 12:31	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 12:31	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:31	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 12:31	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:31	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 12:31	T
1,2-Dichloroethane-d4 (S)	105		%	1	70-128		2/16/2019 12:31	
Toluene-d8 (S)	100		%	1	77-119		2/16/2019 12:31	
Bromofluorobenzene (S)	115		%	1	86-123		2/16/2019 12:31	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 12:31	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 12:31	T
1,2-Dichloroethane-d4 (S)	106		%	1	70-130		2/16/2019 12:31	
Toluene-d8 (S)	99		%	1	70-130		2/16/2019 12:31	
Bromofluorobenzene (S)	106		%	1	70-130		2/16/2019 12:31	

WET CHEMISTRY

Analysis Desc: Total

Analytical Method: Calculation

Nitrogen, Calculated, Water

Total Nitrogen	0.18	U	mg/L	1	0.40	0.18	3/12/2019 15:00	T
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Analysis Desc: Unionized

Analytical Method: DEP SOP 10/03/83

Ammonia, DEP SOP, Water

Unionized Ammonia	0.0058		mg/L	1		0.000012	2/27/2019 15:12	T
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Analysis Desc: Total

Preparation Method: Copper Sulfate Digestion

Phosphorus, E365.4, Analysis

Analytical Method: EPA 365.4

Total Phosphorus (as P)	0.30		mg/L	1	0.10	0.046	2/22/2019 10:07	T
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Analysis Desc: COD, E410.4, Water

Analytical Method: EPA 410.4

Chemical Oxygen Demand	24	U	mg/L	1	50	24	2/18/2019 11:40	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512029**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3C2**

Date Collected: 02/14/19 13:50

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Chlorophyll A, SM10200H, Water		Analytical Method: SM 10200 H						
Chlorophyll A	2.5	U	mg/m3	1	5.0	2.5	2/22/2019 11:00	G
Analysis Desc: Hardness, SM2340C, Water		Analytical Method: SM 2340C						
Hardness (as CaCO3)	76		mg/L	1	10	2.6	2/22/2019 10:30	T
Analysis Desc: Tot Dissolved Solids, SM2540C		Analytical Method: SM 2540 C						
Total Dissolved Solids	160		mg/L	1	10	10	2/19/2019 10:00	T
Analysis Desc: TSS, SM2540D, Water		Analytical Method: SM 2540D						
Total Suspended Solids	3.2		mg/L	2	2.0	2.0	2/20/2019 12:00	T
Analysis Desc: Nitrate, Nitrite SM4500NO3F, Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 18:19	T
Analysis Desc: BOD, SM5210B, Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	2/15/2019 09:36	T
Analysis Desc: TOC, SM5310B, Water		Analytical Method: SM 5310B						
Total Organic Carbon	13		mg/L	1	1.0	0.42	2/25/2019 09:50	G

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512030**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3A**

Date Collected: 02/14/19 14:06

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	195.3		umhos/cm	1			2/14/2019 14:06	....
Dissolved Oxygen	0.63		mg/L	1			2/14/2019 14:06	....
ORP-2580BW	165.9		mV	1			2/14/2019 14:06	....
Temperature	18.2		°C	1			2/14/2019 14:06	....
Turbidity	1.09		NTU	1			2/14/2019 14:06	....
pH	5.46		SU	1			2/14/2019 14:06	....

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:54	T
Iron	900		ug/L	1	100	26	2/19/2019 16:54	T
Zinc	10		ug/L	1	10	7.4	2/19/2019 16:54	T

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 18:09	J
Arsenic	0.25	I	ug/L	1	1.0	0.077	2/26/2019 18:09	J
Barium	16		ug/L	1	0.60	0.24	2/26/2019 18:09	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 18:09	J
Chromium	0.65	I	ug/L	1	2.0	0.11	2/26/2019 18:09	J
Cobalt	0.25	I	ug/L	1	0.50	0.19	2/26/2019 18:09	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 18:09	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 18:09	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 18:09	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 18:09	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 18:09	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 18:09	J
Vanadium	0.96	I	ug/L	1	2.0	0.71	2/26/2019 18:09	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:40	T

Microbiology

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512030**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3A**

Date Collected: 02/14/19 14:06

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Fecal Coliform MF,SM9222D,Water		Analytical Method: SM 9222D						
Coliform Fecal	50	B	#/100 mL	10	10	10	2/14/2019 16:58	T

VOLATILES

Analysis Desc: 8260B Analysis, Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 12:57	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 12:57	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:57	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 12:57	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 12:57	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 12:57	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 12:57	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 12:57	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:57	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 12:57	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 12:57	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 12:57	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 12:57	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 12:57	T
Acetone	1.6	I	ug/L	1	2.0	1.0	2/16/2019 12:57	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 12:57	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:57	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 12:57	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:57	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 12:57	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 12:57	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 12:57	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:57	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 12:57	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 12:57	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 12:57	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 12:57	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 12:57	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 12:57	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 12:57	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 12:57	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 12:57	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512030**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Stream 3A**

Date Collected: 02/14/19 14:06

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 12:57	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:57	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 12:57	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 12:57	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 12:57	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 12:57	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:57	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 12:57	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 12:57	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:57	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 12:57	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 12:57	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 12:57	T
1,2-Dichloroethane-d4 (S)	107		%	1	70-128		2/16/2019 12:57	
Toluene-d8 (S)	97		%	1	77-119		2/16/2019 12:57	
Bromofluorobenzene (S)	114		%	1	86-123		2/16/2019 12:57	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 12:57	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 12:57	T
1,2-Dichloroethane-d4 (S)	109		%	1	70-130		2/16/2019 12:57	
Toluene-d8 (S)	96		%	1	70-130		2/16/2019 12:57	
Bromofluorobenzene (S)	105		%	1	70-130		2/16/2019 12:57	

WET CHEMISTRY

Analysis Desc: Total

Analytical Method: Calculation

Nitrogen, Calculated, Water

Total Nitrogen	0.18	U	mg/L	1	0.40	0.18	3/12/2019 15:00	T
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Analysis Desc: Unionized

Analytical Method: DEP SOP 10/03/83

Ammonia, DEP SOP, Water

Unionized Ammonia	0.00036		mg/L	1		0.0000035	2/27/2019 15:12	T
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Analysis Desc: Total

Preparation Method: Copper Sulfate Digestion

Phosphorus, E365.4, Analysis

Analytical Method: EPA 365.4

Total Phosphorus (as P)	0.046	U	mg/L	1	0.10	0.046	2/22/2019 10:07	T
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Analysis Desc: COD, E410.4, Water

Analytical Method: EPA 410.4

Chemical Oxygen Demand	24	U	mg/L	1	50	24	2/18/2019 11:40	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512030**
Sample ID: **Stream 3A**

Date Received: 02/14/19 15:00 Matrix: Water
Date Collected: 02/14/19 14:06

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Chlorophyll A, SM10200H, Water		Analytical Method: SM 10200 H						
Chlorophyll A	2.5	U	mg/m3	1	5.0	2.5	2/22/2019 11:00	G
Analysis Desc: Hardness, SM2340C, Water		Analytical Method: SM 2340C						
Hardness (as CaCO3)	72		mg/L	1	10	2.6	2/22/2019 10:30	T
Analysis Desc: Tot Dissolved Solids, SM2540C		Analytical Method: SM 2540 C						
Total Dissolved Solids	100		mg/L	1	10	10	2/19/2019 10:00	T
Analysis Desc: TSS, SM2540D, Water		Analytical Method: SM 2540D						
Total Suspended Solids	2.5	U	mg/L	2.5	2.5	2.5	2/20/2019 12:00	T
Analysis Desc: Nitrate, Nitrite SM4500NO3F, Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:39	T
Analysis Desc: BOD, SM5210B, Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	2/15/2019 09:39	T
Analysis Desc: TOC, SM5310B, Water		Analytical Method: SM 5310B						
Total Organic Carbon	8.3		mg/L	1	1.0	0.42	2/25/2019 09:50	G

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512031**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Duplicate**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Beryllium	0.29	U	ug/L	1	0.60	0.29	2/19/2019 16:58	T
Iron	380		ug/L	1	100	26	2/19/2019 16:58	T
Zinc	7.4	U	ug/L	1	10	7.4	2/19/2019 16:58	T
Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.11	U	ug/L	1	0.70	0.11	2/26/2019 18:13	J
Arsenic	0.22	I	ug/L	1	1.0	0.077	2/26/2019 18:13	J
Barium	1.9		ug/L	1	0.60	0.24	2/26/2019 18:13	J
Cadmium	0.064	U	ug/L	1	0.50	0.064	2/26/2019 18:13	J
Chromium	0.38	I	ug/L	1	2.0	0.11	2/26/2019 18:13	J
Cobalt	0.19	U	ug/L	1	0.50	0.19	2/26/2019 18:13	J
Copper	0.35	U	ug/L	1	0.70	0.35	2/26/2019 18:13	J
Lead	0.24	U	ug/L	1	0.70	0.24	2/26/2019 18:13	J
Nickel	0.98	U	ug/L	1	2.0	0.98	2/26/2019 18:13	J
Selenium	0.58	U	ug/L	1	5.0	0.58	2/26/2019 18:13	J
Silver	0.068	U	ug/L	1	0.50	0.068	2/26/2019 18:13	J
Thallium	0.057	U	ug/L	1	0.20	0.057	2/26/2019 18:13	J
Vanadium	0.71	U	ug/L	1	2.0	0.71	2/26/2019 18:13	J
Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.050	U	ug/L	1	0.10	0.050	2/22/2019 11:43	T
Microbiology								
Analysis Desc: Fecal Coliform MF, SM9222D, Water			Analytical Method: SM 9222D					
Coliform Fecal	40	B	#/100 mL	10	10	10	2/14/2019 16:58	T
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 13:24	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 13:24	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 13:24	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512031**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Duplicate**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 13:24	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 13:24	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 13:24	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 13:24	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 13:24	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 13:24	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 13:24	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 13:24	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 13:24	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 13:24	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 13:24	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 13:24	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 13:24	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 13:24	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 13:24	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 13:24	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 13:24	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 13:24	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 13:24	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 13:24	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 13:24	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 13:24	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 13:24	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 13:24	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 13:24	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 13:24	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 13:24	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 13:24	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 13:24	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 13:24	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 13:24	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 13:24	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 13:24	T
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 13:24	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 13:24	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 13:24	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 13:24	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 13:24	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 13:24	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 13:24	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512031**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Duplicate**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 13:24	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 13:24	T
1,2-Dichloroethane-d4 (S)	106		%	1	70-128		2/16/2019 13:24	
Toluene-d8 (S)	101		%	1	77-119		2/16/2019 13:24	
Bromofluorobenzene (S)	114		%	1	86-123		2/16/2019 13:24	

Analysis Desc: 8260B SIM Analysis, Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 13:24	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 13:24	T
1,2-Dichloroethane-d4 (S)	108		%	1	70-130		2/16/2019 13:24	
Toluene-d8 (S)	100		%	1	70-130		2/16/2019 13:24	
Bromofluorobenzene (S)	104		%	1	70-130		2/16/2019 13:24	

WET CHEMISTRY

Analysis Desc: Total

Analytical Method: Calculation

Nitrogen, Calculated, Water

Total Nitrogen	0.18	U	mg/L	1	0.40	0.18	3/12/2019 15:05	T
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Analysis Desc: Unionized

Analytical Method: DEP SOP 10/03/83

Ammonia, DEP SOP, Water

Unionized Ammonia	0.00011		mg/L	1		0.0000033	2/27/2019 15:12	T
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Analysis Desc: Total

Preparation Method: Copper Sulfate Digestion

Phosphorus, E365.4, Analysis

Analytical Method: EPA 365.4

Total Phosphorus (as P)	1.3		mg/L	5	0.50	0.23	2/22/2019 10:07	T
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Analysis Desc: COD, E410.4, Water

Analytical Method: EPA 410.4

Chemical Oxygen Demand	37	I	mg/L	1	50	24	2/18/2019 11:40	T
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Analysis Desc: Chlorophyll

Analytical Method: SM 10200 H

A, SM10200H, Water

Chlorophyll A	10		mg/m3	1	5.0	2.5	2/22/2019 11:00	G
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Analysis Desc:

Analytical Method: SM 2340C

Hardness, SM2340C, Water

Hardness (as CaCO3)	110	J4	mg/L	1	10	2.6	2/22/2019 10:30	T
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Analysis Desc: Tot Dissolved

Analytical Method: SM 2540 C

Solids, SM2540C

Total Dissolved Solids	230		mg/L	1	10	10	2/19/2019 10:00	T
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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512031**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Duplicate**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TSS,SM2540D,Water		Analytical Method: SM 2540D						
Total Suspended Solids	3.6		mg/L	2	2.0	2.0	2/18/2019 12:00	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.18	U	mg/L	1	0.20	0.18	2/14/2019 17:41	T
Analysis Desc: BOD,SM5210B,Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	5.2		mg/L	1	2.0	2.0	2/15/2019 09:42	T
Analysis Desc: TOC,SM5310B,Water		Analytical Method: SM 5310B						
Total Organic Carbon	17		mg/L	1	1.0	0.42	2/25/2019 09:50	G

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512032**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260B					
1,1,1,2-Tetrachloroethane	0.64	U	ug/L	1	1.0	0.64	2/16/2019 08:32	T
1,1,1-Trichloroethane	0.44	U	ug/L	1	1.0	0.44	2/16/2019 08:32	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:32	T
1,1,2-Trichloroethane	0.46	U	ug/L	1	1.0	0.46	2/16/2019 08:32	T
1,1-Dichloroethane	0.86	U	ug/L	1	1.0	0.86	2/16/2019 08:32	T
1,1-Dichloroethylene	0.70	U	ug/L	1	1.0	0.70	2/16/2019 08:32	T
1,2,3-Trichloropropane	0.58	U	ug/L	1	1.0	0.58	2/16/2019 08:32	T
1,2-Dichlorobenzene	0.63	U	ug/L	1	1.0	0.63	2/16/2019 08:32	T
1,2-Dichloroethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:32	T
1,2-Dichloropropane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 08:32	T
1,4-Dichlorobenzene	0.97	U	ug/L	1	1.0	0.97	2/16/2019 08:32	T
2-Butanone (MEK)	0.59	U	ug/L	1	1.0	0.59	2/16/2019 08:32	T
2-Hexanone	0.99	U	ug/L	1	1.0	0.99	2/16/2019 08:32	T
4-Methyl-2-pentanone (MIBK)	0.93	U	ug/L	1	1.0	0.93	2/16/2019 08:32	T
Acetone	1.0	U	ug/L	1	2.0	1.0	2/16/2019 08:32	T
Acrylonitrile	1.9	U	ug/L	1	5.0	1.9	2/16/2019 08:32	T
Benzene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:32	T
Bromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/16/2019 08:32	T
Bromodichloromethane	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:32	T
Bromoform	0.88	U	ug/L	1	1.0	0.88	2/16/2019 08:32	T
Bromomethane	0.97	U	ug/L	1	1.0	0.97	2/16/2019 08:32	T
Carbon Disulfide	0.49	U	ug/L	1	1.0	0.49	2/16/2019 08:32	T
Carbon Tetrachloride	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:32	T
Chlorobenzene	0.56	U	ug/L	1	1.0	0.56	2/16/2019 08:32	T
Chloroethane	0.38	U	ug/L	1	1.0	0.38	2/16/2019 08:32	T
Chloroform	0.31	U	ug/L	1	1.0	0.31	2/16/2019 08:32	T
Chloromethane	0.53	U	ug/L	1	1.0	0.53	2/16/2019 08:32	T
Dibromochloromethane	0.40	U	ug/L	1	1.0	0.40	2/16/2019 08:32	T
Dibromomethane	0.76	U	ug/L	1	1.0	0.76	2/16/2019 08:32	T
Ethylbenzene	0.26	U	ug/L	1	1.0	0.26	2/16/2019 08:32	T
Iodomethane (Methyl Iodide)	0.65	U	ug/L	1	1.0	0.65	2/16/2019 08:32	T
Methylene Chloride	1.0	U	ug/L	1	2.0	1.0	2/16/2019 08:32	T
Styrene	0.84	U	ug/L	1	1.0	0.84	2/16/2019 08:32	T
Tetrachloroethylene (PCE)	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:32	T
Toluene	0.45	U	ug/L	1	1.0	0.45	2/16/2019 08:32	T
Trichloroethene	0.60	U	ug/L	1	1.0	0.60	2/16/2019 08:32	T

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ANALYTICAL RESULTS

Workorder: T1902512 SELF Semi-Annual

Lab ID: **T1902512032**

Date Received: 02/14/19 15:00 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/14/19 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	0.84	U	ug/L	1	1.0	0.84	2/16/2019 08:32	T
Vinyl Acetate	0.40	U	ug/L	1	1.0	0.40	2/16/2019 08:32	T
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:32	T
Xylene (Total)	0.56	U	ug/L	1	3.0	0.56	2/16/2019 08:32	T
cis-1,2-Dichloroethylene	0.51	U	ug/L	1	1.0	0.51	2/16/2019 08:32	T
cis-1,3-Dichloropropene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:32	T
trans-1,2-Dichloroethylene	0.50	U	ug/L	1	1.0	0.50	2/16/2019 08:32	T
trans-1,3-Dichloropropylene	0.20	U	ug/L	1	1.0	0.20	2/16/2019 08:32	T
trans-1,4-Dichloro-2-butene	0.39	U	ug/L	1	1.0	0.39	2/16/2019 08:32	T
1,2-Dichloroethane-d4 (S)	111		%	1	70-128		2/16/2019 08:32	
Toluene-d8 (S)	97		%	1	77-119		2/16/2019 08:32	
Bromofluorobenzene (S)	106		%	1	86-123		2/16/2019 08:32	

Analysis Desc: 8260B SIM Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	0.020	U	ug/L	1	0.020	0.020	2/16/2019 08:32	T
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	0.020	0.020	2/16/2019 08:32	T
1,2-Dichloroethane-d4 (S)	113		%	1	70-130		2/16/2019 08:32	
Toluene-d8 (S)	96		%	1	70-130		2/16/2019 08:32	
Bromofluorobenzene (S)	98		%	1	70-130		2/16/2019 08:32	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T1902512 SELF Semi-Annual

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.
- B Indicates that the analyte was detected in the method blank. The recorded result is associated with a contaminated blank.
- J1 Surrogate Failure
- J4 Estimated Result

LAB QUALIFIERS

- G DOH Certification #E82001(AEL-G)(FL NELAC Certification)
- J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^ Not Certified

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

QC Batch: WCAI/9139 Analysis Method: SM 4500NO3-F
QC Batch Method: SM 4500NO3-F Prepared:
Associated Lab Samples: T1902512001, T1902512002, T1902512004, T1902512006

METHOD BLANK: 2996003

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	0.18	0.18 U

LABORATORY CONTROL SAMPLE: 2996004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	1	1.0	102	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2996005 2996006 Original: T1902466002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	0.33	1	1.4	1.4	109	110	90-110	1	10	

QC Batch: WCAI/9140 Analysis Method: SM 4500NO3-F
QC Batch Method: SM 4500NO3-F Prepared:
Associated Lab Samples: T1902512003, T1902512005

METHOD BLANK: 2996008

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	0.18	0.18 U

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 2996009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Nitrate (as N)	mg/L	1	0.95	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2996010 2996011 Original: T1902512003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY											
Nitrate (as N)	mg/L	0	1	1.0	1.1	104	108	90-110	4	10	

QC Batch: DGM/2908

Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A

Prepared: 02/12/2019 10:00

Associated Lab Samples: T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006

METHOD BLANK: 2996596

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE: 2996597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2996598 2996599 Original: M1900719001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Mercury	ug/L	0.042	1	1.3	1.3	130	132	80-120	1	20	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

QC Batch: DGMj/2904 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 02/14/2019 03:30
Associated Lab Samples: T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006

METHOD BLANK: 2997327

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS			
Vanadium	ug/L	0.71	0.71 U
Chromium	ug/L	0.11	0.11 U
Cobalt	ug/L	0.19	0.19 U
Nickel	ug/L	0.98	0.98 U
Copper	ug/L	0.35	0.35 U
Arsenic	ug/L	0.077	0.077 U
Selenium	ug/L	0.58	0.58 U
Silver	ug/L	0.068	0.068 U
Cadmium	ug/L	0.064	0.064 U
Antimony	ug/L	0.11	0.11 U
Barium	ug/L	0.24	0.24 U
Thallium	ug/L	0.057	0.057 U
Lead	ug/L	0.24	0.24 U

LABORATORY CONTROL SAMPLE: 2997328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
METALS					
Vanadium	ug/L	50	43	85	80-120
Chromium	ug/L	50	44	88	80-120
Cobalt	ug/L	50	44	87	80-120
Nickel	ug/L	50	44	88	80-120
Copper	ug/L	50	46	92	80-120
Arsenic	ug/L	50	44	88	80-120
Selenium	ug/L	50	48	96	80-120
Silver	ug/L	50	47	93	80-120
Cadmium	ug/L	50	48	96	80-120
Antimony	ug/L	50	47	95	80-120
Barium	ug/L	50	43	86	80-120
Thallium	ug/L	50	43	85	80-120
Lead	ug/L	50	42	84	80-120

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2997329 2997330 Original: G1901247001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Vanadium	ug/L	2	50	45	45	86	86	75-125	0	20	
Chromium	ug/L	1.5	50	45	45	87	87	75-125	0	20	
Cobalt	ug/L	0.89	50	42	42	83	83	75-125	0	20	
Nickel	ug/L	1.6	50	44	43	84	83	75-125	1	20	
Copper	ug/L	6.3	50	51	48	89	84	75-125	5	20	
Arsenic	ug/L	0.55	50	38	39	74	77	75-125	4	20	
Selenium	ug/L	0	50	35	39	71	79	75-125	11	20	
Silver	ug/L	0.0078	50	43	43	87	86	75-125	1	20	
Cadmium	ug/L	0.08	50	47	46	93	92	75-125	2	20	
Antimony	ug/L	0.26	50	42	43	84	85	75-125	1	20	
Barium	ug/L	4.4	50	47	47	85	85	75-125	1	20	
Thallium	ug/L	0.019	50	44	44	88	88	75-125	1	20	
Lead	ug/L	24	50	76	69	104	89	75-125	10	20	

QC Batch: WCAI/9168 Analysis Method: SM 4500NO3-F

QC Batch Method: SM 4500NO3-F Prepared:

Associated Lab Samples: T1902512009, T1902512010, T1902512012, T1902512013

METHOD BLANK: 2998146

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Nitrate (as N)	mg/L	0.18	0.18	U

LABORATORY CONTROL SAMPLE: 2998147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Nitrate (as N)	mg/L	1	1.0	104	90-110	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2998148 2998149 Original: T1902670001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	0.72	1	1.8	1.8	106	110	90-110	2	10	

QC Batch: WCAI/9169

Analysis Method: SM 4500NO3-F

QC Batch Method: SM 4500NO3-F

Prepared:

Associated Lab Samples: T1902512008, T1902512011, T1902512014, T1902512015, T1902512017, T1902512018, T1902512019

METHOD BLANK: 2998152

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	0.18	0.18	U

LABORATORY CONTROL SAMPLE: 2998153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	1	1.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2998154 2998155 Original: T1902653001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	1.3	1	2.4	2.3	109	102	90-110	3	10	

QC Batch: WCAI/9178

Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Prepared:

Associated Lab Samples: T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006, T1902512008,

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

METHOD BLANK: 2998574

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Dissolved Solids	mg/L	10	10 U

LABORATORY CONTROL SAMPLE: 2998575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	660	720	110	85-115

SAMPLE DUPLICATE: 2998576

Original: T1902517003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	380	360	5	10	
QC Batch:	WCAI/9179		Analysis Method:		SM 2540 C	
QC Batch Method:	SM 2540 C		Prepared:			
Associated Lab Samples:	T1902512013, T1902512014, T1902512015, T1902512017, T1902512018, T1902512019					

METHOD BLANK: 2998578

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Dissolved Solids	mg/L	10	10 U

LABORATORY CONTROL SAMPLE: 2998579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	660	650	98	85-115

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

SAMPLE DUPLICATE: 2998580

Original: T1902512013

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	180	190	2	10	
QC Batch:	WCAI/9199		Analysis Method:		SM 4500NO3-F	
QC Batch Method:	SM 4500NO3-F		Prepared:			
Associated Lab Samples:	T1902512020, T1902512021, T1902512022, T1902512023, T1902512024, T1902512026, T1902512027,					

METHOD BLANK: 2999752

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrate (as N)	mg/L	0.18	0.18 U

LABORATORY CONTROL SAMPLE: 2999753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Nitrate (as N)	mg/L	1	0.90	90	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2999754 2999755 Original: T1902756007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD Qualifiers
WET CHEMISTRY										
Nitrate (as N)	mg/L	0	1	0.94	0.90	94	90	90-110	4	10

QC Batch: WCAI/9206 Analysis Method: SM 4500NO3-F
QC Batch Method: SM 4500NO3-F Prepared:
Associated Lab Samples: T1902512029

METHOD BLANK: 2999813

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

METHOD BLANK: 2999813

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Nitrate (as N)	mg/L	0.18	0.18 U

LABORATORY CONTROL SAMPLE: 2999814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	1	0.92	92	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2999815 2999816 Original: T1902512029

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Nitrate (as N)	mg/L	0	1	0.92	0.91	92	91	90-110	1	10	

QC Batch: WCA/9214

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Prepared:

Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

METHOD BLANK: 3000121

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Biochemical Oxygen Demand	mg/L	2.0	2.0 U

LABORATORY CONTROL SAMPLE: 3000122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Biochemical Oxygen Demand	mg/L	200	190	98	84.6-115.4

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

SAMPLE DUPLICATE: 3000123

Original: T1902719001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Biochemical Oxygen Demand	mg/L	1200	1100	15	20
QC Batch:	DGMt/2917		Analysis Method:	SW-846 6010	
QC Batch Method:	SW-846 3010A		Prepared:	02/15/2019 10:00	
Associated Lab Samples:	T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006, T1902512008,				

METHOD BLANK: 3000539

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS			
Beryllium	ug/L	0.29	0.29 U
Iron	ug/L	26	26 U
Sodium	mg/L	0.17	0.17 U
Zinc	ug/L	7.4	7.4 U

LABORATORY CONTROL SAMPLE: 3000540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
METALS					
Beryllium	ug/L	400	400	101	80-120
Iron	ug/L	25000	25000	99	80-120
Sodium	mg/L	50	51	101	80-120
Zinc	ug/L	400	370	93	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000541

3000542

Original: T1902512002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD Qualifiers
METALS										
Beryllium	ug/L	0.013	400	380	390	94	98	75-125	4	20
Iron	ug/L	7	25000	24000	25000	94	99	75-125	5	20
Sodium	mg/L	17	50	63	66	93	98	75-125	5	20

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000541 3000542 Original: T1902512002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Zinc	ug/L	0.25	400	340	360	86	91	75-125	5	20	

QC Batch: WCAI/9249

Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4

Prepared:

Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

METHOD BLANK: 3001314

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY Chemical Oxygen Demand	mg/L	24	24	U

LABORATORY CONTROL SAMPLE: 3001315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Chemical Oxygen Demand	mg/L	500	490	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001317 3001318 Original: T1902719001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Chemical Oxygen Demand	mg/L	3200	5000	8200	8200	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001321 3001322 Original: T1902729001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Chemical Oxygen Demand	mg/L	760	500	1300	1300	102	102	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

QC Batch: WCAI/9255 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Prepared:
Associated Lab Samples: T1902512031

METHOD BLANK: 3001405

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Suspended Solids	mg/L	1.0	1.0 U

LABORATORY CONTROL SAMPLE: 3001406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	200	210	104	85-115

SAMPLE DUPLICATE: 3001407 Original: T1902703002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	130	130	2	10

QC Batch: MSVt/3303 Analysis Method: SW-846 8260B (SIM)
QC Batch Method: SW-846 5030B Prepared: 02/14/2019 18:30
Associated Lab Samples: T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006, T1902512007,

METHOD BLANK: 3001609

Parameter	Units	Blank Result	Reporting Limit Qualifiers
VOLATILES			
Ethylene Dibromide (EDB)	ug/L	0.020	0.020 U
1,2-Dibromo-3-Chloropropane	ug/L	0.020	0.020 U
1,2-Dichloroethane-d4 (S)	%	105	70-130
Toluene-d8 (S)	%	95	70-130
Bromofluorobenzene (S)	%	98	70-130

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3001610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Ethylene Dibromide (EDB)	ug/L	0.8	0.79	99	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.70	88	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	
Bromofluorobenzene (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001611 3001612 Original: T1902512001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
VOLATILES											
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.76	0.85	95	106	70-130	11	30	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.66	0.70	83	88	70-130	6	30	
1,2-Dichloroethane-d4 (S)	%	105				114	111	70-130	3		
Toluene-d8 (S)	%	97				103	102	70-130	2		
Bromofluorobenzene (S)	%	97				101	101	70-130	0		

QC Batch: MSVt/3305

Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B

Prepared: 02/14/2019 18:30

Associated Lab Samples: T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006, T1902512007,

METHOD BLANK: 3001621

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.53	0.53 U	
Vinyl Chloride	ug/L	0.20	0.20 U	
Bromomethane	ug/L	0.97	0.97 U	
Chloroethane	ug/L	0.38	0.38 U	
Trichlorofluoromethane	ug/L	0.84	0.84 U	
Acetone	ug/L	1.0	1.0 U	
1,1-Dichloroethylene	ug/L	0.70	0.70 U	
Iodomethane (Methyl Iodide)	ug/L	0.65	0.65 U	
Acrylonitrile	ug/L	1.9	1.9 U	
Methylene Chloride	ug/L	1.0	1.0 U	
Carbon Disulfide	ug/L	0.49	0.49 U	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

METHOD BLANK: 3001621

Parameter	Units	Blank Result	Reporting	
			Limit	Qualifiers
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	U
1,1-Dichloroethane	ug/L	0.86	0.86	U
Vinyl Acetate	ug/L	0.40	0.40	U
2-Butanone (MEK)	ug/L	0.59	0.59	U
cis-1,2-Dichloroethylene	ug/L	0.51	0.51	U
Bromochloromethane	ug/L	0.33	0.33	U
Chloroform	ug/L	0.31	0.31	U
1,2-Dichloroethane	ug/L	0.60	0.60	U
1,1,1-Trichloroethane	ug/L	0.44	0.44	U
Carbon Tetrachloride	ug/L	0.60	0.60	U
Benzene	ug/L	0.20	0.20	U
Dibromomethane	ug/L	0.76	0.76	U
1,2-Dichloropropane	ug/L	0.76	0.76	U
Trichloroethene	ug/L	0.60	0.60	U
Bromodichloromethane	ug/L	0.60	0.60	U
cis-1,3-Dichloropropene	ug/L	0.20	0.20	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.93	0.93	U
trans-1,3-Dichloropropylene	ug/L	0.20	0.20	U
1,1,2-Trichloroethane	ug/L	0.46	0.46	U
Toluene	ug/L	0.45	0.45	U
2-Hexanone	ug/L	0.99	0.99	U
Dibromochloromethane	ug/L	0.40	0.40	U
Tetrachloroethylene (PCE)	ug/L	0.60	0.60	U
1,1,1,2-Tetrachloroethane	ug/L	0.64	0.64	U
Chlorobenzene	ug/L	0.56	0.56	U
Ethylbenzene	ug/L	0.26	0.26	U
Bromoform	ug/L	0.88	0.88	U
Styrene	ug/L	0.84	0.84	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.58	0.58	U
1,4-Dichlorobenzene	ug/L	0.97	0.97	U
1,2-Dichlorobenzene	ug/L	0.63	0.63	U
trans-1,4-Dichloro-2-butene	ug/L	0.39	0.39	U
Xylene (Total)	ug/L	0.56	0.56	U
1,2-Dichloroethane-d4 (S)	%	104	70-128	
Toluene-d8 (S)	%	96	77-119	
Bromofluorobenzene (S)	%	106	86-123	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3001622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Chloromethane	ug/L	40	39	97	70-130	
Vinyl Chloride	ug/L	40	43	107		
Bromomethane	ug/L	40	40	99		
Chloroethane	ug/L	40	38	96		
Trichlorofluoromethane	ug/L	40	40	99		
Acetone	ug/L	40	43	108	70-130	
1,1-Dichloroethylene	ug/L	40	40	101		
Iodomethane (Methyl Iodide)	ug/L	40	0.65	0		
Acrylonitrile	ug/L	40	39	98		
Methylene Chloride	ug/L	40	43	109		
Carbon Disulfide	ug/L	40	35	87	70-130	
trans-1,2-Dichloroethylene	ug/L	40	39	97		
1,1-Dichloroethane	ug/L	40	40	100		
Vinyl Acetate	ug/L	40	41	102		
2-Butanone (MEK)	ug/L	40	39	98		
cis-1,2-Dichloroethylene	ug/L	40	39	97	70-130	
Bromochloromethane	ug/L	40	40	101		
Chloroform	ug/L	40	37	94		
1,2-Dichloroethane	ug/L	40	39	98		
1,1,1-Trichloroethane	ug/L	40	39	97		
Carbon Tetrachloride	ug/L	40	40	101	70-130	
Benzene	ug/L	40	36	90		
Dibromomethane	ug/L	40	39	96		
1,2-Dichloropropane	ug/L	40	40	100		
Trichloroethene	ug/L	40	40	99		
Bromodichloromethane	ug/L	40	38	94	70-130	
cis-1,3-Dichloropropene	ug/L	40	33	83		
4-Methyl-2-pentanone (MIBK)	ug/L	40	40	100		
trans-1,3-Dichloropropylene	ug/L	40	34	85		
1,1,2-Trichloroethane	ug/L	40	39	99		
Toluene	ug/L	40	40	99	70-130	
2-Hexanone	ug/L	40	41	102		
Dibromochloromethane	ug/L	40	42	106		
Tetrachloroethylene (PCE)	ug/L	40	43	107		
1,1,1,2-Tetrachloroethane	ug/L	40	41	102		
Chlorobenzene	ug/L	40	41	103	70-130	
Ethylbenzene	ug/L	40	40	101		
Bromoform	ug/L	40	43	107		
Styrene	ug/L	40	42	104		
1,1,2,2-Tetrachloroethane	ug/L	40	39	96		
1,2,3-Trichloropropane	ug/L	40	36	90		

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3001622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	40	37	92		
1,2-Dichlorobenzene	ug/L	40	38	94	70-130	
Xylene (Total)	ug/L	120	120	101	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-128	
Toluene-d8 (S)	%			100	77-119	
Bromofluorobenzene (S)	%			88	86-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001623 3001624 Original: T1902512011

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
VOLATILES											
Chloromethane	ug/L	0	20	21	21	104	105		1		
Vinyl Chloride	ug/L	0	20	21	21	106	107	70-130	1	20	
Bromomethane	ug/L	0	20	14	17	71	87		21		
Chloroethane	ug/L	0	20	20	20	100	102		2		
Trichlorofluoromethane	ug/L	0	20	20	20	101	102		2		
Acetone	ug/L	0	20	19	19	94	96		2		
1,1-Dichloroethylene	ug/L	0	20	20	21	102	106	70-130	3	20	
Iodomethane (Methyl Iodide)	ug/L	0	20	0.65	0.65U	0	0		0		
Acrylonitrile	ug/L	0	20	17	18	87	88		2		
Methylene Chloride	ug/L	0	20	21	22	105	108		3		
Carbon Disulfide	ug/L	0	20	17	18	86	88		2		
trans-1,2-Dichloroethylene	ug/L	0	20	20	20	99	100		1		
1,1-Dichloroethane	ug/L	0	20	20	21	102	106		4		
Vinyl Acetate	ug/L	0	20	19	20	96	99		3		
2-Butanone (MEK)	ug/L	0	20	18	18	88	90		2		
cis-1,2-Dichloroethylene	ug/L	0	20	20	20	98	98	70-130	1	20	
Bromochloromethane	ug/L	0	20	21	23	107	113		5		
Chloroform	ug/L	0	20	19	19	96	96	70-130	0	20	
1,2-Dichloroethane	ug/L	0	20	21	21	103	106		3		
1,1,1-Trichloroethane	ug/L	0	20	19	20	97	99		2		
Carbon Tetrachloride	ug/L	0	20	20	20	98	101		3		
Benzene	ug/L	0	20	18	18	88	89	70-130	1	20	
Dibromomethane	ug/L	0	20	20	20	99	99		1		
1,2-Dichloropropane	ug/L	0	20	20	20	101	102		1		
Trichloroethene	ug/L	0	20	19	20	96	98	70-130	2	20	
Bromodichloromethane	ug/L	0	20	19	19	94	96		2		
cis-1,3-Dichloropropene	ug/L	0	20	16	16	79	81		3		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	18	18	91	92		2		

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001623 3001624 Original: T1902512011

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
trans-1,3-Dichloropropylene	ug/L	0	20	16	16	78	80		2		
1,1,2-Trichloroethane	ug/L	0	20	19	20	96	98		3		
Toluene	ug/L	0	20	19	19	96	97	70-130	1	20	
2-Hexanone	ug/L	0	20	18	18	89	90		1		
Dibromochloromethane	ug/L	0	20	19	20	96	100		5		
Tetrachloroethylene (PCE)	ug/L	0	20	21	21	105	105	70-130	0	20	
1,1,1,2-Tetrachloroethane	ug/L	0	20	19	19	95	97		2		
Chlorobenzene	ug/L	0	20	19	20	97	98	70-130	1	20	
Ethylbenzene	ug/L	0	20	19	19	95	95	70-130	0	20	
Bromoform	ug/L	0	20	18	19	92	93		1		
Styrene	ug/L	0	20	19	20	97	99		2		
1,1,2,2-Tetrachloroethane	ug/L	0	20	17	18	86	88		2		
1,2,3-Trichloropropane	ug/L	0	20	15	15	74	74		1		
1,4-Dichlorobenzene	ug/L	0	20	18	18	91	89		2		
1,2-Dichlorobenzene	ug/L	0	20	18	19	92	95	70-130	3	20	
Xylene (Total)	ug/L	0	60	57	58	95	96	70-130	1	20	
1,2-Dichloroethane-d4 (S)	%	111				106	107	70-128	2		
Toluene-d8 (S)	%	105				101	98	77-119	3		
Bromofluorobenzene (S)	%	126				97	94	86-123	3		

QC Batch: MSVt/3307

Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B

Prepared: 02/15/2019 18:30

Associated Lab Samples: T1902512021, T1902512022, T1902512023, T1902512024, T1902512025, T1902512026, T1902512027,

METHOD BLANK: 3001961

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.020	0.020	U
1,2-Dichloroethane-d4 (S)	%	112	70-130	
Toluene-d8 (S)	%	98	70-130	
Bromofluorobenzene (S)	%	97	70-130	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3001962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Ethylene Dibromide (EDB)	ug/L	0.8	0.87	109	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.64	80	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
Toluene-d8 (S)	%			97	70-130	
Bromofluorobenzene (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001963 3001964 Original: T1902512030

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.67	0.75	84	94	70-130	11	30
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.61	0.58	76	73	70-130	5	30
1,2-Dichloroethane-d4 (S)	%	109				126	119	70-130	6	
Toluene-d8 (S)	%	96				104	103	70-130	0	
Bromofluorobenzene (S)	%	105				106	103	70-130	3	

QC Batch: MSVt/3309

Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B

Prepared: 02/15/2019 18:30

Associated Lab Samples: T1902512021, T1902512022, T1902512023, T1902512024, T1902512025, T1902512026, T1902512027,

METHOD BLANK: 3001968

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.53	0.53 U	
Vinyl Chloride	ug/L	0.20	0.20 U	
Bromomethane	ug/L	0.97	0.97 U	
Chloroethane	ug/L	0.38	0.38 U	
Trichlorofluoromethane	ug/L	0.84	0.84 U	
Acetone	ug/L	1.0	1.0 U	
1,1-Dichloroethylene	ug/L	0.70	0.70 U	
Iodomethane (Methyl Iodide)	ug/L	0.65	0.65 U	
Acrylonitrile	ug/L	1.9	1.9 U	
Methylene Chloride	ug/L	1.0	1.0 U	
Carbon Disulfide	ug/L	0.49	0.49 U	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

METHOD BLANK: 3001968

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,2-Dichloroethylene	ug/L	0.50	0.50	U
1,1-Dichloroethane	ug/L	0.86	0.86	U
Vinyl Acetate	ug/L	0.40	0.40	U
2-Butanone (MEK)	ug/L	0.59	0.59	U
cis-1,2-Dichloroethylene	ug/L	0.51	0.51	U
Bromochloromethane	ug/L	0.33	0.33	U
Chloroform	ug/L	0.31	0.31	U
1,2-Dichloroethane	ug/L	0.60	0.60	U
1,1,1-Trichloroethane	ug/L	0.44	0.44	U
Carbon Tetrachloride	ug/L	0.60	0.60	U
Benzene	ug/L	0.20	0.20	U
Dibromomethane	ug/L	0.76	0.76	U
1,2-Dichloropropane	ug/L	0.76	0.76	U
Trichloroethene	ug/L	0.60	0.60	U
Bromodichloromethane	ug/L	0.60	0.60	U
cis-1,3-Dichloropropene	ug/L	0.20	0.20	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.93	0.93	U
trans-1,3-Dichloropropylene	ug/L	0.20	0.20	U
1,1,2-Trichloroethane	ug/L	0.46	0.46	U
Toluene	ug/L	0.45	0.45	U
2-Hexanone	ug/L	0.99	0.99	U
Dibromochloromethane	ug/L	0.40	0.40	U
Tetrachloroethylene (PCE)	ug/L	0.60	0.60	U
1,1,1,2-Tetrachloroethane	ug/L	0.64	0.64	U
Chlorobenzene	ug/L	0.56	0.56	U
Ethylbenzene	ug/L	0.26	0.26	U
Bromoform	ug/L	0.88	0.88	U
Styrene	ug/L	0.84	0.84	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.58	0.58	U
1,4-Dichlorobenzene	ug/L	0.97	0.97	U
1,2-Dichlorobenzene	ug/L	0.63	0.63	U
trans-1,4-Dichloro-2-butene	ug/L	0.39	0.39	U
Xylene (Total)	ug/L	0.56	0.56	U
1,2-Dichloroethane-d4 (S)	%	109	70-128	
Toluene-d8 (S)	%	99	77-119	
Bromofluorobenzene (S)	%	106	86-123	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3001969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Chloromethane	ug/L	20	20	101		
Vinyl Chloride	ug/L	20	20	102	70-130	
Bromomethane	ug/L	20	11	55		
Chloroethane	ug/L	20	20	102		
Trichlorofluoromethane	ug/L	20	20	101		
Acetone	ug/L	20	18	93		
1,1-Dichloroethylene	ug/L	20	21	106	70-130	
Iodomethane (Methyl Iodide)	ug/L	20	0.65	0		
Acrylonitrile	ug/L	20	18	91		
Methylene Chloride	ug/L	20	23	113		
Carbon Disulfide	ug/L	20	16	81		
trans-1,2-Dichloroethylene	ug/L	20	19	97		
1,1-Dichloroethane	ug/L	20	21	106		
Vinyl Acetate	ug/L	20	21	105		
2-Butanone (MEK)	ug/L	20	19	93		
cis-1,2-Dichloroethylene	ug/L	20	19	95	70-130	
Bromochloromethane	ug/L	20	23	115		
Chloroform	ug/L	20	18	91	70-130	
1,2-Dichloroethane	ug/L	20	22	108		
1,1,1-Trichloroethane	ug/L	20	20	99		
Carbon Tetrachloride	ug/L	20	20	100		
Benzene	ug/L	20	17	83	70-130	
Dibromomethane	ug/L	20	20	98		
1,2-Dichloropropane	ug/L	20	21	103		
Trichloroethene	ug/L	20	20	100	70-130	
Bromodichloromethane	ug/L	20	18	91		
cis-1,3-Dichloropropene	ug/L	20	15	76		
4-Methyl-2-pentanone (MIBK)	ug/L	20	19	96		
trans-1,3-Dichloropropylene	ug/L	20	15	77		
1,1,2-Trichloroethane	ug/L	20	19	96		
Toluene	ug/L	20	19	94	70-130	
2-Hexanone	ug/L	20	19	94		
Dibromochloromethane	ug/L	20	20	100		
Tetrachloroethylene (PCE)	ug/L	20	20	99	70-130	
1,1,1,2-Tetrachloroethane	ug/L	20	19	96		
Chlorobenzene	ug/L	20	19	97	70-130	
Ethylbenzene	ug/L	20	18	92	70-130	
Bromoform	ug/L	20	19	94		
Styrene	ug/L	20	19	97		
1,1,2,2-Tetrachloroethane	ug/L	20	17	83		
1,2,3-Trichloropropane	ug/L	20	14	69		

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3001969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	20	18	91		
1,2-Dichlorobenzene	ug/L	20	18	92	70-130	
Xylene (Total)	ug/L	60	56	93	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-128	
Toluene-d8 (S)	%			98	77-119	
Bromofluorobenzene (S)	%			94	86-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001970 3001971 Original: T1902512029

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
VOLATILES											
Chloromethane	ug/L	0	20	22	22	112	113		1		
Vinyl Chloride	ug/L	0	20	24	24	118	118	70-130	0	20	
Bromomethane	ug/L	0	20	15	17	74	84		13		
Chloroethane	ug/L	0	20	20	21	102	105		2		
Trichlorofluoromethane	ug/L	0	20	21	21	107	107		0		
Acetone	ug/L	0	20	16	17	80	84		5		
1,1-Dichloroethylene	ug/L	0	20	22	23	109	113	70-130	4	20	
Iodomethane (Methyl Iodide)	ug/L	0	20	0.65	0.65U	0	0		0		
Acrylonitrile	ug/L	0	20	16	16	78	81		4		
Methylene Chloride	ug/L	0	20	23	23	114	117		2		
Carbon Disulfide	ug/L	0	20	18	18	90	90		0		
trans-1,2-Dichloroethylene	ug/L	0	20	20	21	100	105		5		
1,1-Dichloroethane	ug/L	0	20	22	22	110	111		0		
Vinyl Acetate	ug/L	0	20	19	20	97	99		2		
2-Butanone (MEK)	ug/L	0	20	16	16	80	82		2		
cis-1,2-Dichloroethylene	ug/L	0	20	20	21	100	103	70-130	2	20	
Bromochloromethane	ug/L	0	20	24	24	118	120		2		
Chloroform	ug/L	0	20	20	20	98	100	70-130	2	20	
1,2-Dichloroethane	ug/L	0	20	23	22	113	112		1		
1,1,1-Trichloroethane	ug/L	0	20	21	21	103	104		1		
Carbon Tetrachloride	ug/L	0	20	21	21	104	107		3		
Benzene	ug/L	0	20	18	18	91	91	70-130	1	20	
Dibromomethane	ug/L	0	20	21	21	103	103		0		
1,2-Dichloropropane	ug/L	0	20	21	22	107	108		0		
Trichloroethene	ug/L	0	20	20	20	99	100	70-130	2	20	
Bromodichloromethane	ug/L	0	20	20	20	101	100		0		
cis-1,3-Dichloropropene	ug/L	0	20	16	16	81	82		0		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	17	17	85	87		2		

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3001970 3001971 Original: T1902512029

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
trans-1,3-Dichloropropylene	ug/L	0	20	17	17	83	85		2		
1,1,2-Trichloroethane	ug/L	0	20	20	20	99	101		2		
Toluene	ug/L	0	20	20	20	98	100	70-130	3	20	
2-Hexanone	ug/L	0	20	16	17	80	84		5		
Dibromochloromethane	ug/L	0	20	19	21	96	106		10		
Tetrachloroethylene (PCE)	ug/L	0	20	21	22	103	110	70-130	7	20	
1,1,1,2-Tetrachloroethane	ug/L	0	20	19	20	95	101		6		
Chlorobenzene	ug/L	0	20	20	20	99	101	70-130	2	20	
Ethylbenzene	ug/L	0	20	19	20	97	100	70-130	3	20	
Bromoform	ug/L	0	20	17	19	85	94		10		
Styrene	ug/L	0	20	20	21	100	104		4		
1,1,2,2-Tetrachloroethane	ug/L	0	20	16	17	82	85		4		
1,2,3-Trichloropropane	ug/L	0	20	14	15	70	73		3		
1,4-Dichlorobenzene	ug/L	0	20	18	20	89	101		13		
1,2-Dichlorobenzene	ug/L	0	20	18	20	89	101	70-130	13	20	
Xylene (Total)	ug/L	0	60	59	60	98	100	70-130	2	20	
1,2-Dichloroethane-d4 (S)	%	105				114	109	70-128	4		
Toluene-d8 (S)	%	100				102	100	77-119	3		
Bromofluorobenzene (S)	%	115				94	99	86-123	5		

QC Batch: WCA/9277

Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Prepared:

Associated Lab Samples: T1902512020, T1902512021, T1902512022, T1902512023, T1902512024, T1902512026, T1902512027,

METHOD BLANK: 3002605

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10 U	

LABORATORY CONTROL SAMPLE: 3002606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	660	740	112	85-115	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

SAMPLE DUPLICATE: 3002607

Original: T1902769001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	24000	24000	0	10	
QC Batch:	DGMt/2930		Analysis Method:	SW-846 6010		
QC Batch Method:	SW-846 3010A		Prepared:	02/19/2019 10:00		
Associated Lab Samples:	T1902512020, T1902512021, T1902512022, T1902512023, T1902512024, T1902512026, T1902512027,					

METHOD BLANK: 3002793

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Beryllium	ug/L	0.29	0.29 U	
Iron	ug/L	26	26 U	
Sodium	mg/L	0.17	0.17 U	
Zinc	ug/L	7.4	7.4 U	

LABORATORY CONTROL SAMPLE: 3002794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Beryllium	ug/L	400	380	95	80-120	
Iron	ug/L	25000	23000	92	80-120	
Sodium	mg/L	50	48	95	80-120	
Zinc	ug/L	400	340	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002795

3002796

Original: T1902668001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Beryllium	ug/L	0	400	350	350	87	89	75-125	2	20	
Iron	ug/L	3.2	25000	22000	23000	88	89	75-125	2	20	
Sodium	mg/L	53	50	94	96	82	84	75-125	1	20	
Zinc	ug/L	2.9	400	320	320	79	81	75-125	2	20	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

QC Batch: WCAI/9307 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Prepared:
Associated Lab Samples: T1902512026, T1902512027

METHOD BLANK: 3003887

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Suspended Solids	mg/L	1.0	1.0 U

LABORATORY CONTROL SAMPLE: 3003888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	200	210	106	85-115

SAMPLE DUPLICATE: 3003889 Original: T1902734001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	380	380	2	10

QC Batch: WCAI/9308 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Prepared:
Associated Lab Samples: T1902512028, T1902512029, T1902512030

METHOD BLANK: 3003890

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Suspended Solids	mg/L	1.0	1.0 U

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3003891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Suspended Solids	mg/L	200	210	105	85-115	

SAMPLE DUPLICATE: 3003892

Original: T1902748003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Suspended Solids	mg/L	260	270	2	10	
QC Batch:	WCAI/9314		Analysis Method:		SM 4500-Cl-E	
QC Batch Method:	SM 4500-Cl-E		Prepared:			
Associated Lab Samples:				T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006, T1902512008,		

METHOD BLANK: 3003948

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	2.6	2.6	U

LABORATORY CONTROL SAMPLE: 3003949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	50	51	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003950

3003951

Original: T1902512004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	91	50	140	140	89	89	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003952 3003953 Original: T1902512005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Chloride	mg/L	260	50	290	300	65	74	90-110	2	10	

QC Batch: WCAI/9338 Analysis Method: EPA 365.4
QC Batch Method: Copper Sulfate Digestion Prepared: 02/21/2019 10:00
Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

METHOD BLANK: 3004643

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY Total Phosphorus (as P)	mg/L	0.046	0.046	U

LABORATORY CONTROL SAMPLE: 3004645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Total Phosphorus (as P)	mg/L	1	1.1	107	80-120	

LABORATORY CONTROL SAMPLE: 3004650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Total Phosphorus (as P)	mg/L	1.1	1.0	94	80-120	

MATRIX SPIKE SAMPLE: 3004653 Original: T1902728002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Total Phosphorus (as P)	mg/L	1.6	1	2.7	108	80-120	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

QC Batch: MICt/3059 Analysis Method: SM 9222D
QC Batch Method: SM 9222D Prepared:
Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

METHOD BLANK: 3004821

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Microbiology Coliform Fecal	#/100 mL	1	1	U

METHOD BLANK: 3004833

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Microbiology Coliform Fecal	#/100 mL	1	1	U

SAMPLE DUPLICATE: 3004832 Original: T1902771002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Microbiology Coliform Fecal	#/100 mL	1U	1	0		

QC Batch: DGMt/2949 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 02/21/2019 08:00
Associated Lab Samples: T1902512008, T1902512009, T1902512010, T1902512011, T1902512012, T1902512013, T1902512014, T1902512015

METHOD BLANK: 3006073

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS Mercury	ug/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE: 3006074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3006074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006075 3006076 Original: M1900839021

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.043	1	0.97	0.96	97	96	80-120	0	20	

QC Batch: WCAI/9363

Analysis Method: SM 4500-Cl-E

QC Batch Method: SM 4500-Cl-E

Prepared:

Associated Lab Samples: T1902512017, T1902512018, T1902512019, T1902512020, T1902512021, T1902512022, T1902512023, T1902512024

METHOD BLANK: 3006463

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	2.6	2.6 U	

LABORATORY CONTROL SAMPLE: 3006464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	50	50	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006465 3006466 Original: T1902512020

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	17	50	69	69	104	104	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3006467 3006468 Original: T1902512017

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Chloride	mg/L	32	50	82	81	99	98	90-110	1	10	

QC Batch: WCAI/9374

Analysis Method: SM 2340C

QC Batch Method: SM 2340C

Prepared:

Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

METHOD BLANK: 3007105

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY Hardness (as CaCO ₃)	mg/L	2.6	2.6	U

LABORATORY CONTROL SAMPLE: 3007106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Hardness (as CaCO ₃)	mg/L	400	390	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3007107 3007108 Original: T1902347001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Hardness (as CaCO ₃)	mg/L			370	370				1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031589 3031590 Original: T1902512031

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Hardness (as CaCO ₃)	mg/L	110	200	310	370	100	132	90-110	19	10	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

QC Batch: WCAg/5460 Analysis Method: SM 10200 H
QC Batch Method: SM 10200 H Prepared:
Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

METHOD BLANK: 3007348

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Chlorophyll A	mg/m3	2.5	2.5 U

SAMPLE DUPLICATE: 3007347 Original: A1901476001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY Chlorophyll A	mg/m3		32	4	35

SAMPLE DUPLICATE: 3007349 Original: T1902512027

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY Chlorophyll A	mg/m3	16	16	0	35

SAMPLE DUPLICATE: 3007523 Original: T1902588002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY Chlorophyll A	mg/m3	2.5U	2.5	0	35

QC Batch: DGM/2954 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 02/22/2019 07:30
Associated Lab Samples: T1902512017, T1902512018, T1902512019, T1902512020, T1902512021, T1902512022, T1902512023,

METHOD BLANK: 3007463

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS Mercury	ug/L	0.050	0.050 U

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3007464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3007465 3007466 Original: G1901332001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Mercury	ug/L	0.016	1	0.97	0.95	97	95	80-120	3	20	

QC Batch: DGMj/2956

Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A

Prepared: 02/26/2019 03:30

Associated Lab Samples: T1902512008, T1902512009, T1902512010, T1902512011, T1902512012, T1902512013, T1902512014, T1902512015,

METHOD BLANK: 3008862

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	0.71	0.71	U
Chromium	ug/L	0.11	0.11	U
Cobalt	ug/L	0.19	0.19	U
Nickel	ug/L	0.98	0.98	U
Copper	ug/L	0.35	0.35	U
Arsenic	ug/L	0.077	0.077	U
Selenium	ug/L	0.58	0.58	U
Silver	ug/L	0.068	0.068	U
Cadmium	ug/L	0.064	0.064	U
Antimony	ug/L	0.11	0.11	U
Barium	ug/L	0.24	0.24	U
Thallium	ug/L	0.057	0.057	U
Lead	ug/L	0.24	0.24	U

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3008863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Vanadium	ug/L	50	42	84	80-120	
Chromium	ug/L	50	43	86	80-120	
Cobalt	ug/L	50	42	85	80-120	
Nickel	ug/L	50	43	86	80-120	
Copper	ug/L	50	45	89	80-120	
Arsenic	ug/L	50	42	84	80-120	
Selenium	ug/L	50	44	89	80-120	
Silver	ug/L	50	50	100	80-120	
Cadmium	ug/L	50	48	96	80-120	
Antimony	ug/L	50	47	95	80-120	
Barium	ug/L	50	43	85	80-120	
Thallium	ug/L	50	41	81	80-120	
Lead	ug/L	50	44	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008913 3008914 Original: T1902512008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Vanadium	ug/L	0.3	50	40	41	80	83	75-125	3	20	
Chromium	ug/L	0.45	50	41	43	82	84	75-125	3	20	
Cobalt	ug/L	0.023	50	39	40	79	81	75-125	3	20	
Nickel	ug/L	0.11	50	39	41	79	81	75-125	3	20	
Copper	ug/L	0.073	50	39	40	78	81	75-125	4	20	
Arsenic	ug/L	0.18	50	41	42	81	83	75-125	2	20	
Selenium	ug/L	0.042	50	42	44	84	87	75-125	4	20	
Silver	ug/L	0	50	46	47	92	94	75-125	3	20	
Cadmium	ug/L	0	50	46	47	92	95	75-125	3	20	
Antimony	ug/L	0.1	50	47	47	93	94	75-125	1	20	
Barium	ug/L	4.7	50	46	48	83	87	75-125	4	20	
Thallium	ug/L	0	50	42	43	84	86	75-125	2	20	
Lead	ug/L	0.032	50	45	45	89	90	75-125	1	20	

QC Batch: DGMj/2957

Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A

Prepared: 02/26/2019 03:30

Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

METHOD BLANK: 3008870

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	0.71	0.71	U
Chromium	ug/L	0.11	0.11	U
Cobalt	ug/L	0.19	0.19	U
Nickel	ug/L	0.98	0.98	U
Copper	ug/L	0.35	0.35	U
Arsenic	ug/L	0.077	0.077	U
Selenium	ug/L	0.58	0.58	U
Silver	ug/L	0.068	0.068	U
Cadmium	ug/L	0.064	0.064	U
Antimony	ug/L	0.11	0.11	U
Barium	ug/L	0.24	0.24	U
Thallium	ug/L	0.057	0.057	U
Lead	ug/L	0.24	0.24	U

LABORATORY CONTROL SAMPLE: 3008871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Vanadium	ug/L	50	40	81	80-120	
Chromium	ug/L	50	41	82	80-120	
Cobalt	ug/L	50	40	81	80-120	
Nickel	ug/L	50	40	81	80-120	
Copper	ug/L	50	42	84	80-120	
Arsenic	ug/L	50	42	84	80-120	
Selenium	ug/L	50	43	87	80-120	
Silver	ug/L	50	47	93	80-120	
Cadmium	ug/L	50	47	95	80-120	
Antimony	ug/L	50	49	98	80-120	
Barium	ug/L	50	44	87	80-120	
Thallium	ug/L	50	73	146	80-120	
Lead	ug/L	50	45	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008872 3008873 Original: J1902354007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Qualifiers
METALS										

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008872 3008873 Original: J1902354007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
Vanadium	ug/L	30	50	70	70	80	80	75-125	0	20	
Chromium	ug/L	1.4	50	41	42	79	81	75-125	1	20	
Cobalt	ug/L	0.057	50	39	38	77	77	75-125	1	20	
Nickel	ug/L	0.87	50	39	39	78	78	75-125	0	20	
Copper	ug/L	1.1	50	41	40	79	79	75-125	1	20	
Arsenic	ug/L	0.3	50	41	41	81	82	75-125	1	20	
Selenium	ug/L	4	50	49	48	90	87	75-125	2	20	
Silver	ug/L	0	50	45	45	90	90	75-125	0	20	
Cadmium	ug/L	0.0032	50	46	46	92	93	75-125	0	20	
Antimony	ug/L	0.4	50	49	50	97	99	75-125	2	20	
Barium	ug/L	1.8	50	44	44	85	85	75-125	0	20	
Thallium	ug/L	0.0023	50	41	41	82	82	75-125	0	20	
Lead	ug/L	0.076	50	44	45	88	89	75-125	1	20	

QC Batch: WCAg/5497

Analysis Method: SM 5310B

QC Batch Method: SM 5310B

Prepared:

Associated Lab Samples: T1902512026, T1902512027, T1902512028, T1902512029, T1902512030, T1902512031

METHOD BLANK: 3009339

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY Total Organic Carbon	mg/L	0.42	0.42	U

LABORATORY CONTROL SAMPLE: 3009341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Total Organic Carbon	mg/L	10	10	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009342 3009343 Original: M1900906001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY											

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009342 3009343 Original: M1900906001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	5.4	25	31	32	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009344 3009345 Original: M1900922001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Total Organic Carbon	mg/L	1.8	25	26	26	98	96	90-110	2	10	

QC Batch: WCA/9433

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Prepared:

Associated Lab Samples: T1902512001, T1902512002, T1902512003, T1902512004, T1902512005, T1902512006

METHOD BLANK: 3009550

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.025	0.025	U

LABORATORY CONTROL SAMPLE: 3009551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.5	0.49	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009668 3009669 Original: T1902459002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	-0.03	1	1.1	1.1	109	109	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

QC Batch: WCAI/9436 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: T1902512008, T1902512009, T1902512010, T1902512011, T1902512012, T1902512013, T1902512014, T1902512015
METHOD BLANK: 3009568

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.025	0.025 U

LABORATORY CONTROL SAMPLE: 3009569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.5	0.52	105	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009662 3009663 Original: F1900598001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.23	1	1.3	1.3	106	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3009664 3009665 Original: T1902512009

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.33	1	1.4	1.4	103	104	90-110	0	10	

QC Batch: WCAI/9442 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: T1902512017, T1902512018, T1902512019

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

METHOD BLANK: 3009715

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.025	0.025 U

LABORATORY CONTROL SAMPLE: 3009716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.5	0.51	103	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010172 3010173 Original: T1902545002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	1.7	1	2.8	2.8	103	101	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010174 3010175 Original: T1902664004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0	1	1.0	1.1	104	107	90-110	3	10

QC Batch: WCAI/9491 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: T1902512020, T1902512021, T1902512022, T1902512023, T1902512024

METHOD BLANK: 3011931

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.029	0.029 U

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QUALITY CONTROL DATA

Workorder: T1902512 SELF Semi-Annual

LABORATORY CONTROL SAMPLE: 3011932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	1	0.90	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011933 3011934 Original: T1902512021

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	1.1	1	2.4	2.4	132	131	90-110	1	10	

QUALITY CONTROL DATA QUALIFIERS

Workorder: T1902512 SELF Semi-Annual

QUALITY CONTROL 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.
- J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512001	Field Blank			SM 4500NO3-F	WCAt/9139
T1902512002	TH-40			SM 4500NO3-F	WCAt/9139
T1902512004	TH-28A			SM 4500NO3-F	WCAt/9139
T1902512006	TH-58			SM 4500NO3-F	WCAt/9139
T1902512003	TH-57			SM 4500NO3-F	WCAt/9140
T1902512005	TH-72			SM 4500NO3-F	WCAt/9140
T1902512001	Field Blank	SW-846 7470A	DGMt/2908	SW-846 7470A	CVAt/1505
T1902512002	TH-40	SW-846 7470A	DGMt/2908	SW-846 7470A	CVAt/1505
T1902512003	TH-57	SW-846 7470A	DGMt/2908	SW-846 7470A	CVAt/1505
T1902512004	TH-28A	SW-846 7470A	DGMt/2908	SW-846 7470A	CVAt/1505
T1902512005	TH-72	SW-846 7470A	DGMt/2908	SW-846 7470A	CVAt/1505
T1902512006	TH-58	SW-846 7470A	DGMt/2908	SW-846 7470A	CVAt/1505
T1902512001	Field Blank	SW-846 3010A	DGMj/2904	SW-846 6020	ICMj/1738
T1902512002	TH-40	SW-846 3010A	DGMj/2904	SW-846 6020	ICMj/1738
T1902512003	TH-57	SW-846 3010A	DGMj/2904	SW-846 6020	ICMj/1738
T1902512004	TH-28A	SW-846 3010A	DGMj/2904	SW-846 6020	ICMj/1738
T1902512005	TH-72	SW-846 3010A	DGMj/2904	SW-846 6020	ICMj/1738
T1902512006	TH-58	SW-846 3010A	DGMj/2904	SW-846 6020	ICMj/1738
T1902512009	TH-19			SM 4500NO3-F	WCAt/9168
T1902512010	TH-36A			SM 4500NO3-F	WCAt/9168
T1902512012	TH-68			SM 4500NO3-F	WCAt/9168
T1902512013	TH-64			SM 4500NO3-F	WCAt/9168
T1902512008	TH-69A			SM 4500NO3-F	WCAt/9169
T1902512011	TH-71A			SM 4500NO3-F	WCAt/9169
T1902512014	TH-61A			SM 4500NO3-F	WCAt/9169
T1902512015	TH-61			SM 4500NO3-F	WCAt/9169
T1902512017	TH-78			SM 4500NO3-F	WCAt/9169
T1902512018	TH-70A			SM 4500NO3-F	WCAt/9169

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512019	TH-65			SM 4500NO3-F	WCAt/9169
T1902512001	Field Blank			SM 2540 C	WCAt/9178
T1902512002	TH-40			SM 2540 C	WCAt/9178
T1902512003	TH-57			SM 2540 C	WCAt/9178
T1902512004	TH-28A			SM 2540 C	WCAt/9178
T1902512005	TH-72			SM 2540 C	WCAt/9178
T1902512006	TH-58			SM 2540 C	WCAt/9178
T1902512008	TH-69A			SM 2540 C	WCAt/9178
T1902512009	TH-19			SM 2540 C	WCAt/9178
T1902512010	TH-36A			SM 2540 C	WCAt/9178
T1902512011	TH-71A			SM 2540 C	WCAt/9178
T1902512012	TH-68			SM 2540 C	WCAt/9178
T1902512013	TH-64			SM 2540 C	WCAt/9179
T1902512014	TH-61A			SM 2540 C	WCAt/9179
T1902512015	TH-61			SM 2540 C	WCAt/9179
T1902512017	TH-78			SM 2540 C	WCAt/9179
T1902512018	TH-70A			SM 2540 C	WCAt/9179
T1902512019	TH-65			SM 2540 C	WCAt/9179
T1902512020	TH-66A			SM 4500NO3-F	WCAt/9199
T1902512021	TH-66			SM 4500NO3-F	WCAt/9199
T1902512022	TH-67			SM 4500NO3-F	WCAt/9199
T1902512023	TH-22A			SM 4500NO3-F	WCAt/9199
T1902512024	Duplicate			SM 4500NO3-F	WCAt/9199
T1902512026	Field Blank			SM 4500NO3-F	WCAt/9199
T1902512027	Mine-Cut 1D			SM 4500NO3-F	WCAt/9199
T1902512028	Stream 3B2B			SM 4500NO3-F	WCAt/9199
T1902512030	Stream 3A			SM 4500NO3-F	WCAt/9199
T1902512031	Duplicate			SM 4500NO3-F	WCAt/9199
T1902512029	Stream 3C2			SM 4500NO3-F	WCAt/9206

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512026	Field Blank			SM 5210B	WCA/t/9214
T1902512027	Mine-Cut 1D			SM 5210B	WCA/t/9214
T1902512028	Stream 3B2B			SM 5210B	WCA/t/9214
T1902512029	Stream 3C2			SM 5210B	WCA/t/9214
T1902512030	Stream 3A			SM 5210B	WCA/t/9214
T1902512031	Duplicate			SM 5210B	WCA/t/9214
T1902512001	Field Blank	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512002	TH-40	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512003	TH-57	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512004	TH-28A	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512005	TH-72	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512006	TH-58	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512008	TH-69A	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512009	TH-19	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512010	TH-36A	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512011	TH-71A	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512012	TH-68	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512013	TH-64	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512014	TH-61A	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512015	TH-61	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512017	TH-78	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512018	TH-70A	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512019	TH-65	SW-846 3010A	DGM/t/2917	SW-846 6010	ICP/t/2100
T1902512026	Field Blank			EPA 410.4	WCA/t/9249
T1902512027	Mine-Cut 1D			EPA 410.4	WCA/t/9249
T1902512028	Stream 3B2B			EPA 410.4	WCA/t/9249
T1902512029	Stream 3C2			EPA 410.4	WCA/t/9249
T1902512030	Stream 3A			EPA 410.4	WCA/t/9249
T1902512031	Duplicate			EPA 410.4	WCA/t/9249
T1902512031	Duplicate			SM 2540D	WCA/t/9255

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512001	Field Blank	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512002	TH-40	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512003	TH-57	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512004	TH-28A	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512005	TH-72	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512006	TH-58	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512007	Trip Blank	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512008	TH-69A	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512009	TH-19	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512010	TH-36A	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512011	TH-71A	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512012	TH-68	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512013	TH-64	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512014	TH-61A	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512015	TH-61	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512016	Trip Blank	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512017	TH-78	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512018	TH-70A	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512019	TH-65	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512020	TH-66A	SW-846 5030B	MSVt/3303	SW-846 8260B (SIM)	MSVt/3304
T1902512001	Field Blank	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512002	TH-40	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512003	TH-57	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512004	TH-28A	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512005	TH-72	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512006	TH-58	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512007	Trip Blank	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512008	TH-69A	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512009	TH-19	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512010	TH-36A	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512011	TH-71A	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512012	TH-68	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512013	TH-64	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512014	TH-61A	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512015	TH-61	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512016	Trip Blank	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512017	TH-78	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512018	TH-70A	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512019	TH-65	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512020	TH-66A	SW-846 5030B	MSVt/3305	SW-846 8260B	MSVt/3306
T1902512021	TH-66	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512022	TH-67	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512023	TH-22A	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512024	Duplicate	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512025	Trip Blank	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512026	Field Blank	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512027	Mine-Cut 1D	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512028	Stream 3B2B	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512029	Stream 3C2	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512030	Stream 3A	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512031	Duplicate	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512032	Trip Blank	SW-846 5030B	MSVt/3307	SW-846 8260B (SIM)	MSVt/3308
T1902512021	TH-66	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512022	TH-67	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512023	TH-22A	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512024	Duplicate	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512025	Trip Blank	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512026	Field Blank	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512027	Mine-Cut 1D	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512028	Stream 3B2B	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512029	Stream 3C2	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512030	Stream 3A	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512031	Duplicate	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310
T1902512032	Trip Blank	SW-846 5030B	MSVt/3309	SW-846 8260B	MSVt/3310

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512020	TH-66A			SM 2540 C	WCA/t/9277
T1902512021	TH-66			SM 2540 C	WCA/t/9277
T1902512022	TH-67			SM 2540 C	WCA/t/9277
T1902512023	TH-22A			SM 2540 C	WCA/t/9277
T1902512024	Duplicate			SM 2540 C	WCA/t/9277
T1902512026	Field Blank			SM 2540 C	WCA/t/9277
T1902512027	Mine-Cut 1D			SM 2540 C	WCA/t/9277
T1902512028	Stream 3B2B			SM 2540 C	WCA/t/9277
T1902512029	Stream 3C2			SM 2540 C	WCA/t/9277
T1902512030	Stream 3A			SM 2540 C	WCA/t/9277
T1902512031	Duplicate			SM 2540 C	WCA/t/9277
T1902512020	TH-66A	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512021	TH-66	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512022	TH-67	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512023	TH-22A	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512024	Duplicate	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512026	Field Blank	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512027	Mine-Cut 1D	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512028	Stream 3B2B	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512029	Stream 3C2	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512030	Stream 3A	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512031	Duplicate	SW-846 3010A	DGM/t/2930	SW-846 6010	ICP/t/2108
T1902512026	Field Blank			SM 2540D	WCA/t/9307
T1902512027	Mine-Cut 1D			SM 2540D	WCA/t/9307
T1902512028	Stream 3B2B			SM 2540D	WCA/t/9308
T1902512029	Stream 3C2			SM 2540D	WCA/t/9308
T1902512030	Stream 3A			SM 2540D	WCA/t/9308
T1902512001	Field Blank			SM 4500-CI-E	WCA/t/9314
T1902512002	TH-40			SM 4500-CI-E	WCA/t/9314

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512003	TH-57			SM 4500-CI-E	WCA/t/9314
T1902512004	TH-28A			SM 4500-CI-E	WCA/t/9314
T1902512005	TH-72			SM 4500-CI-E	WCA/t/9314
T1902512006	TH-58			SM 4500-CI-E	WCA/t/9314
T1902512008	TH-69A			SM 4500-CI-E	WCA/t/9314
T1902512009	TH-19			SM 4500-CI-E	WCA/t/9314
T1902512010	TH-36A			SM 4500-CI-E	WCA/t/9314
T1902512011	TH-71A			SM 4500-CI-E	WCA/t/9314
T1902512012	TH-68			SM 4500-CI-E	WCA/t/9314
T1902512013	TH-64			SM 4500-CI-E	WCA/t/9314
T1902512014	TH-61A			SM 4500-CI-E	WCA/t/9314
T1902512015	TH-61			SM 4500-CI-E	WCA/t/9314
T1902512026	Field Blank	Copper Sulfate Digestion	WCA/t/9338	EPA 365.4	WCA/t/9358
T1902512027	Mine-Cut 1D	Copper Sulfate Digestion	WCA/t/9338	EPA 365.4	WCA/t/9358
T1902512028	Stream 3B2B	Copper Sulfate Digestion	WCA/t/9338	EPA 365.4	WCA/t/9358
T1902512029	Stream 3C2	Copper Sulfate Digestion	WCA/t/9338	EPA 365.4	WCA/t/9358
T1902512030	Stream 3A	Copper Sulfate Digestion	WCA/t/9338	EPA 365.4	WCA/t/9358
T1902512031	Duplicate	Copper Sulfate Digestion	WCA/t/9338	EPA 365.4	WCA/t/9358
T1902512026	Field Blank			SM 9222D	MIC/t/3059
T1902512027	Mine-Cut 1D			SM 9222D	MIC/t/3059
T1902512028	Stream 3B2B			SM 9222D	MIC/t/3059
T1902512029	Stream 3C2			SM 9222D	MIC/t/3059
T1902512030	Stream 3A			SM 9222D	MIC/t/3059
T1902512031	Duplicate			SM 9222D	MIC/t/3059
T1902512008	TH-69A	SW-846 7470A	DGM/t/2949	SW-846 7470A	CVA/t/1517
T1902512009	TH-19	SW-846 7470A	DGM/t/2949	SW-846 7470A	CVA/t/1517
T1902512010	TH-36A	SW-846 7470A	DGM/t/2949	SW-846 7470A	CVA/t/1517
T1902512011	TH-71A	SW-846 7470A	DGM/t/2949	SW-846 7470A	CVA/t/1517
T1902512012	TH-68	SW-846 7470A	DGM/t/2949	SW-846 7470A	CVA/t/1517
T1902512013	TH-64	SW-846 7470A	DGM/t/2949	SW-846 7470A	CVA/t/1517
T1902512014	TH-61A	SW-846 7470A	DGM/t/2949	SW-846 7470A	CVA/t/1517

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512015	TH-61	SW-846 7470A	DGMt/2949	SW-846 7470A	CVAt/1517
T1902512017	TH-78			SM 4500-CI-E	WCAt/9363
T1902512018	TH-70A			SM 4500-CI-E	WCAt/9363
T1902512019	TH-65			SM 4500-CI-E	WCAt/9363
T1902512020	TH-66A			SM 4500-CI-E	WCAt/9363
T1902512021	TH-66			SM 4500-CI-E	WCAt/9363
T1902512022	TH-67			SM 4500-CI-E	WCAt/9363
T1902512023	TH-22A			SM 4500-CI-E	WCAt/9363
T1902512024	Duplicate			SM 4500-CI-E	WCAt/9363
T1902512026	Field Blank			SM 2340C	WCAt/9374
T1902512027	Mine-Cut 1D			SM 2340C	WCAt/9374
T1902512028	Stream 3B2B			SM 2340C	WCAt/9374
T1902512029	Stream 3C2			SM 2340C	WCAt/9374
T1902512030	Stream 3A			SM 2340C	WCAt/9374
T1902512031	Duplicate			SM 2340C	WCAt/9374
T1902512026	Field Blank			SM 10200 H	WCAg/5460
T1902512027	Mine-Cut 1D			SM 10200 H	WCAg/5460
T1902512028	Stream 3B2B			SM 10200 H	WCAg/5460
T1902512029	Stream 3C2			SM 10200 H	WCAg/5460
T1902512030	Stream 3A			SM 10200 H	WCAg/5460
T1902512031	Duplicate			SM 10200 H	WCAg/5460
T1902512017	TH-78	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512018	TH-70A	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512019	TH-65	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512020	TH-66A	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512021	TH-66	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512022	TH-67	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512023	TH-22A	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512024	Duplicate	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518

Report ID: 859283 - 356701

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512026	Field Blank	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512027	Mine-Cut 1D	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512028	Stream 3B2B	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512029	Stream 3C2	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512030	Stream 3A	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512031	Duplicate	SW-846 7470A	DGMt/2954	SW-846 7470A	CVAt/1518
T1902512008	TH-69A	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512009	TH-19	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512010	TH-36A	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512011	TH-71A	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512012	TH-68	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512013	TH-64	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512014	TH-61A	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512015	TH-61	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512017	TH-78	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512018	TH-70A	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512019	TH-65	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512020	TH-66A	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512021	TH-66	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512022	TH-67	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512023	TH-22A	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512024	Duplicate	SW-846 3010A	DGMj/2956	SW-846 6020	ICMj/1753
T1902512026	Field Blank	SW-846 3010A	DGMj/2957	SW-846 6020	ICMj/1754
T1902512027	Mine-Cut 1D	SW-846 3010A	DGMj/2957	SW-846 6020	ICMj/1754
T1902512028	Stream 3B2B	SW-846 3010A	DGMj/2957	SW-846 6020	ICMj/1754
T1902512029	Stream 3C2	SW-846 3010A	DGMj/2957	SW-846 6020	ICMj/1754
T1902512030	Stream 3A	SW-846 3010A	DGMj/2957	SW-846 6020	ICMj/1754
T1902512031	Duplicate	SW-846 3010A	DGMj/2957	SW-846 6020	ICMj/1754
T1902512026	Field Blank			SM 5310B	WCAg/5497
T1902512027	Mine-Cut 1D			SM 5310B	WCAg/5497
T1902512028	Stream 3B2B			SM 5310B	WCAg/5497

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512029	Stream 3C2			SM 5310B	WCAg/5497
T1902512030	Stream 3A			SM 5310B	WCAg/5497
T1902512031	Duplicate			SM 5310B	WCAg/5497
T1902512001	Field Blank			EPA 350.1	WCAt/9433
T1902512002	TH-40			EPA 350.1	WCAt/9433
T1902512003	TH-57			EPA 350.1	WCAt/9433
T1902512004	TH-28A			EPA 350.1	WCAt/9433
T1902512005	TH-72			EPA 350.1	WCAt/9433
T1902512006	TH-58			EPA 350.1	WCAt/9433
T1902512008	TH-69A			EPA 350.1	WCAt/9436
T1902512009	TH-19			EPA 350.1	WCAt/9436
T1902512010	TH-36A			EPA 350.1	WCAt/9436
T1902512011	TH-71A			EPA 350.1	WCAt/9436
T1902512012	TH-68			EPA 350.1	WCAt/9436
T1902512013	TH-64			EPA 350.1	WCAt/9436
T1902512014	TH-61A			EPA 350.1	WCAt/9436
T1902512015	TH-61			EPA 350.1	WCAt/9436
T1902512017	TH-78			EPA 350.1	WCAt/9442
T1902512018	TH-70A			EPA 350.1	WCAt/9442
T1902512019	TH-65			EPA 350.1	WCAt/9442
T1902512020	TH-66A			EPA 350.1	WCAt/9491
T1902512021	TH-66			EPA 350.1	WCAt/9491
T1902512022	TH-67			EPA 350.1	WCAt/9491
T1902512023	TH-22A			EPA 350.1	WCAt/9491
T1902512024	Duplicate			EPA 350.1	WCAt/9491
T1902512026	Field Blank			DEP SOP 10/03/83	WCAt/9495
T1902512027	Mine-Cut 1D			DEP SOP 10/03/83	WCAt/9495
T1902512028	Stream 3B2B			DEP SOP 10/03/83	WCAt/9495

Report ID: 859283 - 356701

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1902512 SELF Semi-Annual

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1902512029	Stream 3C2			DEP SOP 10/03/83	WCAt/9495
T1902512030	Stream 3A			DEP SOP 10/03/83	WCAt/9495
T1902512031	Duplicate			DEP SOP 10/03/83	WCAt/9495
T1902512002	TH-40	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512003	TH-57	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512004	TH-28A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512005	TH-72	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512006	TH-58	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512008	TH-69A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512009	TH-19	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512010	TH-36A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512011	TH-71A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512012	TH-68	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512013	TH-64	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512014	TH-61A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512015	TH-61	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512017	TH-78	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512018	TH-70A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512019	TH-65	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512020	TH-66A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512021	TH-66	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512022	TH-67	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512023	TH-22A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512026	Field Blank	Calculation	CLCt/	Calculation	CLCt/
T1902512027	Mine-Cut 1D	Calculation	CLCt/	Calculation	CLCt/
T1902512027	Mine-Cut 1D	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512028	Stream 3B2B	Calculation	CLCt/	Calculation	CLCt/
T1902512028	Stream 3B2B	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512029	Stream 3C2	Calculation	CLCt/	Calculation	CLCt/
T1902512029	Stream 3C2	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512030	Stream 3A	Calculation	CLCt/	Calculation	CLCt/
T1902512030	Stream 3A	Field Measurements	FLDt/	Field Measurements	FLDt/
T1902512031	Duplicate	Calculation	CLCt/	Calculation	CLCt/

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☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850 219 6274 • Fax 850 219 6275
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813 630 9616 • Fax 813 630 4327

Client Name: Hills, Co. Public Utilities		Project Name: SELF Semi-Annual												
Address: 332 North Falkenburg Rd.		P.O. Number/Project Number: N/A												
Tampa, Florida 33619		Project Location: Southeast County Landfill												
Phone: (813) 663-3222		REMARKS/SPECIAL INSTRUCTIONS:												
FAX: (813) 274-6801														
Contact: Michael Townsel														
Sampled By: T. Aguilera S. Fuller														
Turn Around Time: ☒ STANDARD ☐ RUSH														
Page: 1 of 1														
SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	TIME	MATRIX	NO. COUNT	ANALYSIS REQUIRED	40 CFR Part 258 Appendix I	Fe, Hg, Na	Total Ammonia-N	Nitrate	Chloride	TDS	LABORATORY I.D. NUMBER
	Field Blank	-	2/11/19	9:45	OI	8		X	X	X	X	X	X	W1
	TH-40	G	2/11/19	10:12	GW	8		X	X	X	X	X	X	W2
	TH-57	G	2/11/19	10:35	GW	8		X	X	X	X	X	X	W3
	TH-28A	G	2/11/19	11:02	GW	8		X	X	X	X	X	X	W4
	TH-72	G	2/11/19	12:11	GW	8		X	X	X	X	X	X	W5
	TH-58	G	2/11/19	12:31	GW	8		X	X	X	X	X	X	W6
	Trip Blank	-	2/11/19	-	-	1		X						W7
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 ☒ Temperature when received 38 (in degrees Celsius)

Form revised: 09/19/2012 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: 1A S: 1V

Relinquished by:		Date	Time	Received by:	Date	Time
1	<i>[Signature]</i>	2/11/19	15:09	<i>[Signature]</i>	2-11-19	15:07
2						
3						
4						

FOR DRINKING WATER USE (When PWS information not otherwise supplied)

PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____
Site Address: _____



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☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Hills, Co. Public Utilities		Project Name: SELF Semi-Annual												
Address: 332 North Falkenburg Rd.		P.O. Number/Project Number: N/A												
Tampa, Florida 33619		Project Location: Southeast County Landfill												
Phone: (813) 663-3222		REMARKS/SPECIAL INSTRUCTIONS:												
FAX: (813) 274-6801														
Contact: Michael Townsel														
Sampled By: T. Aguilera S. Falter														
Turn Around Time: ☒ STANDARD ☐ RUSH														
Page: 1 of 1														
SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	TIME	MATRIX	NO COUNT	ANALYSIS REQUIRED	40 CFR Part 258 Appendix I	Fe, Hg, Na	Total Ammonia-N	Nitrate	Chloride	TDS	LABORATORY I.D. NUMBER
TH-69A		G	2/12/19	9:55	GW	8		X	X	X	X	X	X	008
TH-19		G	2/12/19	10:26	GW	8		X	X	X	X	X	X	009
TH-36A		G	2/12/19	10:46	GW	8		X	X	X	X	X	X	010
TH-71A		G	2/12/19	11:19	GW	8		X	X	X	X	X	X	011
TH-68		G	2/12/19	12:01	GW	8		X	X	X	X	X	X	012
TH-64		G	2/12/19	12:43	GW	8		X	X	X	X	X	X	013
TH-61A		G	2/12/19	13:34	GW	6		X	X	X	X	X	X	014
TH-61		G	2/12/19	14:03	GW	8		X	X	X	X	X	X	015
Trip Blank		-	2/12/19	-	-	1		X						016

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SI = 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 Temperature when received 5.9 (in degrees Celsius)

Form revised 09/19/2012 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: 1A S: 1V

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	2/12/19	14:55	<i>[Signature]</i>	2/12/19	14:55

FOR DRINKING WATER USE (When PWS information not otherwise supplied)

PWS ID: _____ Phone: _____
Contact Person: _____
Supplier of Water: _____
Site-Address: _____



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- ☐ **Miramar:** 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
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- ☐ **Tampa:** 9810 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9516 • Fax 813.630.4327

Client Name: Hills. Co. Public Utilities		Project Name: SELF Semi-Annual		BOTTLE SIZE & TYPE		LABORATORY I.D. NUMBER												
Address: 332 North Falkenburg Rd.		P.O. Number/Project Number: N/A																
Tampa, Florida 33619		Project Location: Southeast County Landfill																
Phone: (813) 663-3222		REMARKS/SPECIAL INSTRUCTIONS																
FAX: (813) 274-6801																		
Contact: Michael Townsel																		
Sampled By: T. Aguilar S. Fuller																		
Turn Around Time: ☒ STANDARD ☐ RUSH																		
Page: 1 of 1																		
SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE TIME		MATRIX	NO. COUNT	ANALYSIS REQUIRED	40 CFR Part 258 Appendix I	Fe, Hg, Na	Total Ammonia-N	Nitrate	Chloride	TDS					
	TH-66A	G	2/14/19	10:41	GW	8		X	X	X	X	X	X					622-27
	TH-66	G	2/14/19	11:13	GW	8		X	X	X	X	X	X					021-30
	TH-67	G	2/14/19	11:57	GW	8		X	X	X	X	X	X					022-32
	TH-22A	G	2/14/19	12:59	GW	8		X	X	X	X	X	X					023-37
	Duplicate	G	2/14/19	—	GW	8		X	X	X	X	X	X					024-35
	Trip Blank	—	2/14/19	—	—	1		X										025-36
																		622-27

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

Reelied on ice	☒ Yes	☐ No	☐ Vac	Temp. taken from sample	☒ Temp. from blank	Where required pH checked	☒ 7	Temperature when received	5 °C	(in degrees celsius)
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Form revised 09/19/2012

Form revised 09/19/2012

Device used for measuring Temp b

1: 1A 5: 1V

FOR DRINKING WATER USE (When PWS information not otherwise supplied)

PWS ID:

Contact Person:

Supplier of Water:

Site-Address:



Environmental Laboratories, Inc.

+1902512

[illegible]

Received on line	☒ Yes	☐ No	Tempn taken from sample	☒ Temp from blank
Where required	☒ pH checked		Temperature when received	5.6 (in degrees celcius)

Form revised 09/19/2012

Device used for measuring Tempo by unique

Relinquished by:

Time

Received by:

Time

FOR DRINKING WATER USE (When PWS information not otherwise supplied)

PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site Address: _____

1	✓	med	2/14/91	15:00	✓	2/14/91	7:30
2							7:30
3							2:10
4							1:10



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☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Hills, Co. Public Utilities		Project Name: SELF Semi-Annual		BOTTLE SIZE & TYPE		LABORATORY I.D. NUMBER											
Address: 332 North Falkenburg Rd.		P.O. Number/Project Number: N/A															
Tampa, Florida 33619		Project Location: Southeast County Landfill															
Phone: (813) 663-3222		REMARKS/SPECIAL INSTRUCTIONS:															
FAX: (813) 274-6801																	
Contact: Michael Townsel																	
Sampled By: T. Aquila J. Fuller																	
Turn Around Time: ☒ STANDARD ☐ RUSH																	
Page: 2 of 2																	
SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED	Chlorophyll A	Nitrogen	COD							
			DATE	TIME													
	Field Blank	-	2/14/19	9:28		DI	13		X	X							026
	Mine-Cut 10	G	2/14/19	9:42		SW	13		X	X							027
	Stream SB2B	G	2/14/19	13:30		SW	13		X	X							028
	Stream 3C2	G	2/14/19	13:50		SW	13		X	X							029
	Stream 3A	G	2/14/19	14:06		SW	13		X	X							030
	Duplicate	G	2/14/19	-		SW	13		X	X							031
	Top Blank	-	2/14/19	-		-	2										032
																	033
																	034
																	035
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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 Temperature when received 57.6 (in degrees Celsius)
Form revised 09/19/2012 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: 1A S: 1V)

Relinquished by: <u>T. Aquila</u> Date: <u>2/14/19</u> Time: <u>15:00</u>		Received by: <u>m</u> Date: <u>2/14/19</u> Time: <u>15:00</u>	
1			
2			
3			
4			

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

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: Field Blank	SAMPLE ID: Field Blank DATE: 2/11/19

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)
2/11/19 Field Blank											

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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Aguilar J. Fuller				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 9:45		SAMPLING ENDED AT: 9:47	
PUMP OR TUBING DEPTH IN WELL (feet): N/A				TUBING MATERIAL CODE: N/A				FIELD-FILTERED: Y ☒ (N)		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 COC FOR ANALYSIS** **ORP: N/A**

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 = Bailor; 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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-40	SAMPLE ID: TH-40 DATE: 2/11/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 155.9 ft to 165.9 ft	STATIC DEPTH TO WATER (feet): 85.02	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (165.9 feet - 85.02 feet) X 0.16 gallons/foot = 12.94 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): 164.9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 164.9	PURGING INITIATED AT: 9:33	PURGING ENDED AT: 10:12	TOTAL VOLUME PURGED (gallons): 14.43

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)
10:08	12.95	12.95	0.37	85.02	7.29	23.6	388.7	0.27	0.17	Clear	None
10:10	0.74	13.69	0.37	85.02	7.30	23.6	388.6	0.28	0.22	Clear	None
10:12	0.74	14.43	0.37	85.02	7.28	23.5	388.2	0.26	0.29	Clear	None

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: J. Aguilera J. Fulk				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 10:12		SAMPLING ENDED AT: 10:16	
PUMP OR TUBING DEPTH IN WELL (feet): 164.9				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y ☒ N			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 COC FOR ANALYSIS** ORP: **10:08(-66.9), 10:10(-69.1), 10:12(-70.7)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-57	SAMPLE ID: TH-57 DATE: 2/11/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 16.83 ft to 26.83 ft	STATIC DEPTH TO WATER (feet): 18.63	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (26.83 feet - 18.63 feet) X 0.16 gallons/foot = 1.312 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): 25.83	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.83	PURGING INITIATED AT: 10:25	PURGING ENDED AT: 10:35	TOTAL VOLUME PURGED (gallons): 3.3

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)
10:29	1.32	1.32	0.33	18.82	5.53	28.0	392.7	1.25	0.55	Clear	None
10:31	0.66	1.98	0.33	18.82	5.38	28.0	371.9	1.00	0.09	Clear	None
10:33	0.66	2.64	0.33	18.82	5.26	28.0	365.3	0.56	0.31	Clear	None
10:35	0.66	3.30	0.33	18.82	5.25	28.1	360.0	0.24	0.11	Clear	None

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 J. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 10:35		SAMPLING ENDED AT: 10:39	
PUMP OR TUBING DEPTH IN WELL (feet): 25.83				TUBING MATERIAL CODE: T				FIELD-FILTERED: Y (N)		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 COC FOR ANALYSIS** ORP: **10:29(-73.7), 10:31(-92.0), 10:33(-101.8), 10:35(-109.6)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-28A	SAMPLE ID: TH-28A DATE: 2/11/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 24.3 ft to 34.3 ft	STATIC DEPTH TO WATER (feet): 27.94	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (34.3 feet - 27.94 feet) X 0.16 gallons/foot = 1.02 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): 33.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33.3	PURGING INITIATED AT: 10:47	PURGING ENDED AT: 11:02	TOTAL VOLUME PURGED (gallons): 2.4

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)
10:54	1.12	1.12	0.16	28.14	5.07	27.5	441.6	1.24	6.04	Clear	None
10:56	0.32	1.44	0.16	28.14	5.09	27.7	428.9	0.90	5.96	Clear	None
10:58	0.32	1.76	0.16	28.14	5.06	27.8	416.6	0.68	4.69	Clear	None
11:00	0.32	2.08	0.16	28.14	5.05	27.8	404.0	0.57	4.27	Clear	None
11:02	0.32	2.4	0.16	28.14	5.05	27.9	397.0	0.52	3.07	Clear	None

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 J. Fuller				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 11:02		SAMPLING ENDED AT: 11:08	
PUMP OR TUBING DEPTH IN WELL (feet): 33.3				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) FILTER SIZE: _____ μm			Filtration Equipment Type: _____		
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			
							ORP: 11:02 (-35.8)		

REMARKS: **SEE COC FOR ANALYSIS** **ORP: 10:54(7.2), 10:56(-9.9), 10:58(-20.8), 11:00(-30.8)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-72	SAMPLE ID: TH-72 DATE: 2/11/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 180 ft to 190 ft	STATIC DEPTH TO WATER (feet): 86.40	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (190 feet - 86.40 feet) X 0.16 gallons/foot = 16.6 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): 189	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 189	PURGING INITIATED AT: 11:25	PURGING ENDED AT: 12:11	TOTAL VOLUME PURGED (gallons): 18.4

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)
12:07	16.8	16.8	0.4	86.40	6.57	23.7	1557	1.28	1.69	Clear	None
12:09	0.8	17.6	0.4	86.40	6.57	23.7	1551	0.86	0.42	Clear	None
12:11	0.8	18.4	0.4	86.40	6.57	23.7	1544	0.58	0.14	Clear	None

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" = 0.0028; 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 J. Fuller				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 12:11		SAMPLING ENDED AT: 12:15	
PUMP OR TUBING DEPTH IN WELL (feet): 189				TUBING MATERIAL CODE: T		FIELD FILTERED: Y (N) FILTER SIZE: _____ μm Filtration Equipment Type: _____					
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 COC FOR ANALYSIS** ORP: **12:07 (-74.2), 12:09 (-74.8), 12:11 (-78.6)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-58	SAMPLE ID: TH-58 DATE: 2/11/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 22.92 ft to 32.92 ft	STATIC DEPTH TO WATER (feet): 27.97	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (32.92 feet - 27.97 feet) X 0.16 gallons/foot = 0.792 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): 31.92	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31.92	PURGING INITIATED AT: 12:22	PURGING ENDED AT: 12:31	TOTAL VOLUME PURGED (gallons): 1.44

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)
12:27	0.8	0.8	0.16	28.15	5.85	26.6	386.6	0.74	1.42	Clear	None
12:29	0.32	1.12	0.16	28.15	5.80	26.7	381.3	0.59	2.36	Clear	None
12:31	0.32	1.44	0.16	28.15	5.76	26.8	379.6	0.49	0.84	Clear	None

2/11/19

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 J. Fuller		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLING INITIATED AT: 12:31	SAMPLING ENDED AT: 12:37
PUMP OR TUBING DEPTH IN WELL (feet): 31.92		TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N)	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 COC FOR ANALYSIS** ORP: **12:27(12.5), 12:29(8.7), 12:31(7.2)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: TH-69A		SAMPLE ID: TH-69A	
		DATE: 2/12/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 20 ft to 35 ft	STATIC DEPTH TO WATER (feet): 24.76	PURGE PUMP TYPE OR BAILER: BP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable)

$$= (35 \text{ feet} - 24.76 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.64 \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

EQUIPMENT VOLUME:
(only fill out if applicable)

$$= \text{N/A gallons} + (\text{N/A gallons/foot} \times \text{N/A feet}) + \text{N/A gallons} = \text{N/A gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34	PURGING INITIATED AT: 9:41	PURGING ENDED AT: 9:55	TOTAL VOLUME PURGED (gallons): 4.62
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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)
9:46	1.65	1.65	0.33	25.01	6.15	26.0	487.5	0.42	47.4	cloudy	None
9:51	1.65	3.30	0.33	25.01	6.06	26.0	494.2	0.33	4.23	clear	None
9:53	0.66	3.96	0.33	25.01	6.04	26.0	496.8	0.24	2.54	clear	None
9:55	0.66	4.62	0.33	25.01	6.03	26.0	499.4	0.21	7.20	clear	None
2/12/19											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.97; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TURING 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. Arcule / J. Fuller	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 9:55	SAMPLING ENDED AT: 9:59
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PUMP OR TUBING	TUBING	FIELD-FILTERED: Y <u>N</u>	FILTER SIZE: _____ μ m
DEPTH IN WELL (feet): 34	MATERIAL CODE: T	Filtration Equipment Type: _____	

FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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[illegible]

REMARKS: SEE COC FOR ANALYSIS

ORP:

$9.46(13.2), 9.51(-3.4), 9.53(-6.3), 9.55(-9.5)$

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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = 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:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: TH-19	SAMPLE ID: TH-19	DATE: 2/12/19	

PURGING DATA

WELL		TUBING		WELL SCREEN INTERVAL		STATIC DEPTH		PURGE PUMP TYPE			
DIAMETER (inches): 2		DIAMETER (inches): 1/2		DEPTH: 143.6 ft to 153.6 ft		TO WATER (feet): 91.13		OR BAILER: BP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (153.6 feet - 91.13 feet) X 0.16 gallons/foot = 10.00 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			FINAL PUMP OR TUBING			PURGING		PURGING		TOTAL VOLUME	
DEPTH IN WELL (feet): 152.6			DEPTH IN WELL (feet): 152.6			INITIATED AT: 10:06		ENDED AT: 10:26		PURGED (gallons): 12.96	
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)
10:22	10.08	10.08	0.72	91.32	7.07	23.4	419.5	0.17	0.73	Clear	None
10:24	1.44	11.52	0.72	91.32	7.08	23.4	419.3	0.18	0.54	Clear	None
10:26	1.44	12.96	0.72	91.32	7.08	23.4	419.7	0.17	0.37	Clear	None
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" = 0.008; 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: <i>T. Aguilar J. Fuller</i>				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: <i>10:26</i>		SAMPLING ENDED AT: <i>10:38</i>		
PUMP OR TUBING DEPTH IN WELL (feet): <i>152.6</i>				TUBING MATERIAL CODE: <i>T</i>			FIELD-FILTERED: Y <i>(N)</i> Filtration Equipment Type:		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP Y <i>(N)</i>				TUBING Y <i>(N replaced)</i>				DUPLICATE: Y <i>(N)</i>				
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 COC FOR ANALYSIS							ORP: <i>10:22(-47.0), 10:24(-52.0), 10:26(-55.5)</i>					
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 = Bailor; 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:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ 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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: TH-36A	SAMPLE ID: TH-36A	DATE: 2/12/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 28.7 ft to 38.7 ft	STATIC DEPTH TO WATER (feet): 32.08	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (38.7 \text{ feet} - 32.08 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.06 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{N/A gallons} + (\text{N/A gallons/foot} \times \text{N/A feet}) + \text{N/A gallons} = \text{N/A gallons}$				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.7	PURGING INITIATED AT: 10:35	PURGING ENDED AT: 10:46	TOTAL VOLUME PURGED (gallons): 2.86

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:40	1.3	1.3	0.26	32.20	6.02	25.2	202.0	2.19	12.4	Clear	None
10:42	0.52	1.82	0.26	32.20	5.81	25.2	199.3	1.57	13.7	Clear	None
10:44	0.52	2.34	0.26	32.20	5.66	25.3	201.2	1.30	7.14	Clear	None
10:46	0.52	2.86	0.26	32.20	5.61	25.3	201.9	1.27	4.5	Clear	None

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 J. Fuller		SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 10:46	SAMPLING ENDED AT: 10:50
PUMP OR TUBING DEPTH IN WELL (feet): 37.7		TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N)	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 COC FOR ANALYSIS** ORP: **10:40(73.1), 10:42(65.8), 10:44(62.6), 10:46(53.2)**

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)

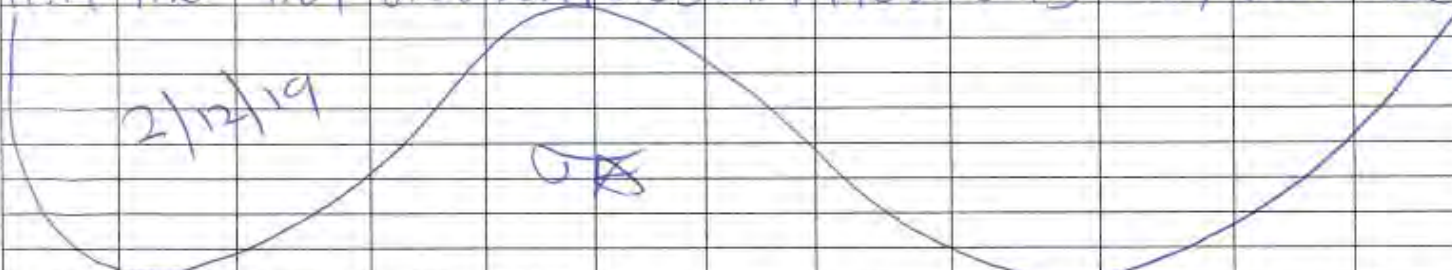
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever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

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: TH-71A	SAMPLE ID: TH-71A	DATE: 2/12/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.5	WELL SCREEN INTERVAL DEPTH: 22.78 ft to 37.78 ft	STATIC DEPTH TO WATER (feet): 26.52	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (37.78 feet - 26.52 feet) X 0.16 gallons/foot = 1.8 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): 36.78			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36.78			PURGING INITIATED AT: 11:11		PURGING ENDED AT: 11:19		TOTAL VOLUME PURGED (gallons): 4.64	
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)
11:15	2.32	2.32	0.58	26.77	6.00	24.6	1375	0.24	4.95	Clear	None
11:17	1.16	3.48	0.58	26.77	6.02	24.6	1398	0.23	4.41	Clear	None
11:19	1.16	4.64	0.58	26.77	6.03	24.7	1408	0.15	4.67	Clear	None
2/12/19 OT 											

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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Aguilar J. Fuller		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLING INITIATED AT: 11:19	SAMPLING ENDED AT: 11:23				
PUMP OR TUBING DEPTH IN WELL (feet): 36.78		TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N)	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 COC FOR ANALYSIS		ORP: 11:15(-12.1), 11:17(-17.0), 11:19(-20.6)	
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 = Bailor; 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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-68	SAMPLE ID: TH-68 DATE: 2/12/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 12.2 ft to 22.2 ft	STATIC DEPTH TO WATER (feet): 13.85	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (22.2 feet - 13.85 feet) X 0.16 gallons/foot = 1.34 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): 21.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.2	PURGING INITIATED AT: 11:34	PURGING ENDED AT: 12:01	TOTAL VOLUME PURGED (gallons): 1.62

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)
11:57	1.38	1.38	0.06	17.75	5.42	27.2	199.6	0.93	18.8	Clear	None
11:59	0.12	1.5	0.06	17.75	5.44	27.2	199.0	0.84	18.3	Clear	None
12:01	0.12	1.62	0.06	17.75	5.44	27.1	198.0	1.53	18.7	Clear	None

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 J. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 12:01		SAMPLING ENDED AT: 12:08	
PUMP OR TUBING DEPTH IN WELL (feet): 21.2				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y ☒ N ☐			FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y ☒ TUBING Y ☒ (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 COC FOR ANALYSIS** ORP: **11:57(-6.1), 11:59(-5.2), 12:01(1.4)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-64	SAMPLE ID: TH-64 DATE: 2/12/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 9.20 ft to 19.20 ft	STATIC DEPTH TO WATER (feet): 16.42	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (19.20 feet - 16.42 feet) X 0.16 gallons/foot = 0.445 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): 18.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18.2	PURGING INITIATED AT: 12:25	PURGING ENDED AT: 12:43	TOTAL VOLUME PURGED (gallons): 1.08

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)
12:33	0.48	0.48	0.06	16.53	4.38	26.9	243.1	0.61	19.3	Clear	None
12:35	0.12	0.6	0.06	16.53	4.45	26.7	241.9	0.50	18.6	1	1
12:37	0.12	0.72	0.06	16.53	4.47	26.6	238.5	0.94	12.4		
12:39	0.12	0.84	0.06	16.53	4.48	26.4	234.7	0.99	11.5		
12:41	0.12	0.96	0.06	16.53	4.48	26.3	231.7	0.89	11.6		
12:43	0.12	1.08	0.06	16.53	4.49	26.2	229.3	0.86	10.13		
2/12/19 JAS											

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: J. Aguilar J. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 12:43		SAMPLING ENDED AT: 12:50	
PUMP OR TUBING DEPTH IN WELL (feet): 18.2				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y ☒ (N) FILTER SIZE: _____ µm Filtration Equipment Type: _____					
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			
							12:41 (134.0)		
							12:43 (126.5)		

REMARKS: **SEE COC FOR ANALYSIS** ORP: **12:33(207.1), 12:35(192.8), 12:37(171.5), 12:39(148.3)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-61A	SAMPLE ID: TH-61A DATE: 2/12/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 13.18 ft to 23.18 ft	STATIC DEPTH TO WATER (feet): 16.50	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (23.18 feet - 16.50 feet) X 0.16 gallons/foot = 1.07 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): 22.18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.18	PURGING INITIATED AT: 13:12	PURGING ENDED AT: 13:34	TOTAL VOLUME PURGED (gallons): 1.32

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)
13:30	1.08	1.08	0.06	17.52	5.58	25.9	297.1	0.64	2.69	Clear	None
13:32	0.12	1.2	0.06	17.52	5.55	25.7	295.0	0.27	1.48	Clear	None
13:34	0.12	1.32	0.06	17.52	5.61	25.7	294.5	0.30	1.46	Clear	None

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: J. Aguilar / J. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 13:34		SAMPLING ENDED AT: 13:40	
PUMP OR TUBING DEPTH IN WELL (feet): 22.18				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N)		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 COC FOR ANALYSIS** ORP: **13:30(28.4), 13:32(26.5), 13:34(20.9)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-61	SAMPLE ID: TH-61 DATE: 2/12/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 15.9 ft to 25.9 ft	STATIC DEPTH TO WATER (feet): 16.27	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (25.9 feet - 16.27 feet) X 0.16 gallons/foot = 1.54 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): 24.9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.9	PURGING INITIATED AT: 13:51	PURGING ENDED AT: 14:03	TOTAL VOLUME PURGED (gallons): 2.52

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)
13:59	1.68	1.68	0.21	16.86	5.48	26.0	161.0	0.51	1.72	Clear	None
14:01	0.42	2.1	0.21	16.86	5.47	26.1	160.6	0.35	2.04	Clear	None
14:03	0.42	2.52	0.21	16.86	5.47	26.0	160.0	0.43	1.72	Clear	None

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" = 0.0028; 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 J. F. F...				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 14:03		SAMPLING ENDED AT: 14:09	
PUMP OR TUBING DEPTH IN WELL (feet): 24.9				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N)		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 COC FOR ANALYSIS** ORP: **13:59 (-13.5), 14:01 (-21.3), 14:03 (-30.2)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO. TH-78	SAMPLE ID: TH-78	DATE: 2/13/19	

PURGING DATA

WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 1/2		WELL SCREEN INTERVAL DEPTH 163.14 ft to 178.14 ft		STATIC DEPTH TO WATER (feet): 69.44		PURGE PUMP TYPE OR BAILER: BP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (178.14 feet - 69.44 feet) X 0.16 gallons/foot = 17.39 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): 177.14			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 177.14			PURGING INITIATED AT: 10:08		PURGING ENDED AT: 11:05		TOTAL VOLUME PURGED (gallons): 18:31	
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)
11:01	17.49	17.49	0.33	69.48	7.86	22.8	529	0.44	0.67	clear	None
11:03	0.66	18.15	0.33	69.48	7.80	22.8	530	0.38	0.80	clear	None
11:05	0.66	18.81	0.33	69.48	7.82	22.8	529	0.34	0.61	clear	None
2/13/19 CT											
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. Amador J-Fuller				SAMPLER(S) SIGNATURE(S): <i>T. Amador J-Fuller</i>				SAMPLING INITIATED AT: 11:05		SAMPLING ENDED AT: 11:09	
PUMP OR TUBING : DEPTH IN WELL (feet): 177.14				TUBING MATERIAL CODE: T			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 COC FOR ANALYSIS							ORP: 11.01(-205.5), 11.03(-204.4), 11.05(-207.3)				
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 = Bailor; 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: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-70A	SAMPLE ID: TH-70A DATE: 2/13/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 21.58 ft to 36.58 ft	STATIC DEPTH TO WATER (feet): 26.60	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (36.58 feet - 26.60 feet) X 0.16 gallons/foot = 1.60 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): 35.58	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.58	PURGING INITIATED AT: 11:48	PURGING ENDED AT: 12:28	TOTAL VOLUME PURGED (gallons): 8.4

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 (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:56	1.68	1.68	0.21	26.68	6.44	25.1	646	0.33	178.3	Orange	None
12:04	1.68	3.36	0.21	26.68	6.33	25.1	646	0.15	196	Orange	None
12:12	1.68	5.04	0.21	26.68	6.29	25.2	646	0.15	172.8	Orange	None
12:20	1.68	6.72	0.21	26.68	6.26	25.2	645	0.11	124.4	Orange	None
12:28	1.68	8.4	0.21	26.68	6.24	25.2	645	0.09	89.1	Orange	None
O A 2/13/19											

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" = 0.008; 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 / J. Fuller	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: 12:28	SAMPLING ENDED AT: 12:34
PUMP OR TUBING DEPTH IN WELL (feet): 35.58	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y ☒ (N)	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			
							ORP: 12:28 (-76.5)		

REMARKS: **SEE COC FOR ANALYSIS** **ORP:** 11:56 (-86.7), 12:04 (-82.6), 12:12 (-80.7), 12:20 (-78.4)

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: TH-65	SAMPLE ID: TH-65	DATE: 2/13/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 13 ft to 23 ft	STATIC DEPTH TO WATER (feet): 13.46	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (23 feet - 13.46 feet) X 0.16 gallons/foot = 1.53 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): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 12:48	PURGING ENDED AT: 13:05	TOTAL VOLUME PURGED (gallons): 2.04

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)
13:01	1.56	1.56	0.12	14.60	5.61	23.3	231.0	0.25	1.13	Clear	None
13:03	0.24	1.8	0.12	14.60	5.58	23.2	229.4	0.43	1.70	Clear	None
13:05	0.24	2.04	0.12	14.60	5.58	23.3	228.9	0.31	1.82	Clear	None

2/13/19

ORP

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" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Aquilar J. Fuller		SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 13:05	SAMPLING ENDED AT: 13:11
PUMP OR TUBING DEPTH IN WELL (feet): 22		TUBING MATERIAL CODE: T	FIELD-FILTERED: Y ☒ (N)	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 COC FOR ANALYSIS** ORP: **13:01 (-35.5), 13:03 (-45.5), 13:05 (-57.2)**

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 = Bailor; 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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-66A	SAMPLE ID: TH-66A DATE: 2/14/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 5.37 ft to 15.37 ft	STATIC DEPTH TO WATER (feet): 8.53	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (15.37 feet - 8.53 feet) X 0.16 gallons/foot = 1.09 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): 14.37	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.37	PURGING INITIATED AT: 10:15	PURGING ENDED AT: 10:41	TOTAL VOLUME PURGED (gallons): 1.3

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)
10:37	1.1	1.1	0.05	9.74	5.78	21.9	278.2	0.26	1.22	Clear	None
10:39	0.1	1.2	0.05	9.74	5.80	21.9	278.3	0.27	0.68	Clear	None
10:41	0.1	1.3	0.05	9.74	5.81	21.9	278.5	0.27	0.48	Clear	None

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 J. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 10:41		SAMPLING ENDED AT: 10:55	
PUMP OR TUBING DEPTH IN WELL (feet): 14.37				TUBING MATERIAL CODE: T				FIELD-FILTERED: Y ☒ N ☐		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 COC FOR ANALYSIS** ORP: **10:37(-39.5), 10:39(-43.3), 10:41(-44.7)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-66	SAMPLE ID: TH-66 DATE: 2/14/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 11.30 ft to 21.30 ft	STATIC DEPTH TO WATER (feet): 8.11	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (21.30 feet - 8.11 feet) X 0.16 gallons/foot = 2.11 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): 20.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.30	PURGING INITIATED AT: 11:00	PURGING ENDED AT: 11:13	TOTAL VOLUME PURGED (gallons): 3.38

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)
11:09	2.34	2.34	0.26	8.43	5.89	23.4	270.3	0.12	1.1	Clear	None
11:11	0.52	2.86	0.26	8.43	5.87	23.4	265.8	0.11	0.78	Clear	None
11:13	0.52	3.38	0.26	8.43	5.86	23.5	261.3	0.11	0.63	Clear	None

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" = 0.0025; 5/16" = 0.004; 3/8" = 0.008; 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: J. Aguilar J. Fuller				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 11:13		SAMPLING ENDED AT: 11:20	
PUMP OR TUBING DEPTH IN WELL (feet): 20.30				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) FILTER SIZE: _____ μm Filtration Equipment Type:					
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 COC FOR ANALYSIS** ORP: **11:09(2.5), 11:11(1.3), 11:13(0.8)**

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.

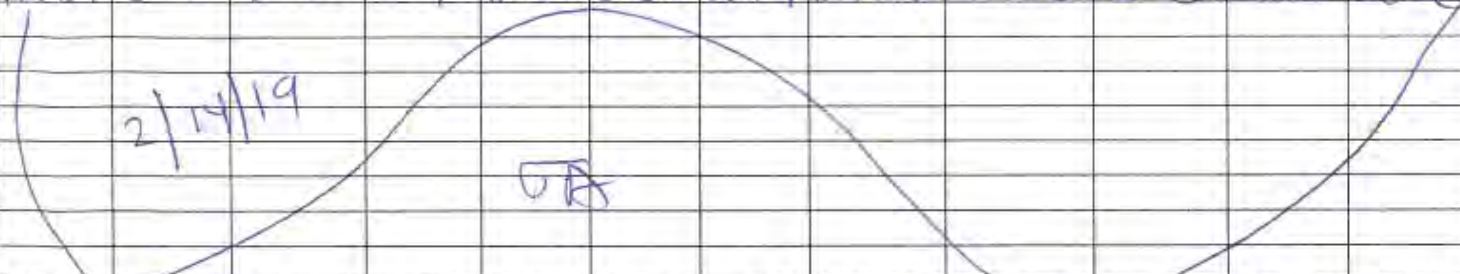
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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)

Form FD 9000-24

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: TH-67	SAMPLE ID: TH-67	DATE: 2/14/19	

PURGING DATA

WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 1/2		WELL SCREEN INTERVAL DEPTH: 5.25 ft to 15.25 ft		STATIC DEPTH TO WATER (feet): 5.63		PURGE PUMP TYPE OR BAILER: BP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (15.25 feet - 5.63 feet) X 0.16 gallons/foot = 1.54 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): 14.25			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.25			PURGING INITIATED AT: 11:37		PURGING ENDED AT: 11:57		TOTAL VOLUME PURGED (gallons): 2	
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)
11:53	1.6	1.6	0.1	6.60	6.02	21.9	254.4	0.70	3.28	Clear	None
11:55	0.2	1.8	0.1	6.60	6.05	21.8	249.0	0.65	4.09	Clear	None
11:57	0.2	2.0	0.1	6.60	6.08	21.7	243.8	0.66	2.75	Clear	None
2/14/19  JA											
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 J. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: 11:57		SAMPLING ENDED AT: 12:05	
PUMP OR TUBING DEPTH IN WELL (feet): 14.25				TUBING MATERIAL CODE: T			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 COC FOR ANALYSIS							ORP: 11:53(121.0), 11:55(119.9), 11:57(118.9)			
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 = Bailor; 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:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: TH-22A	SAMPLE ID: TH-22A	DATE: 2/14/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 17.90 ft to 27.90 ft	STATIC DEPTH TO WATER (feet): 4.09	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (27.90 feet - 4.09 feet) X 0.16 gallons/foot = 3.61 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): 26.90	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26.90	PURGING INITIATED AT: 12:40	PURGING ENDED AT: 12:59	TOTAL VOLUME PURGED (gallons): 4.94

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)
12:55	3.9	3.9	0.26	4.54	4.49	20.9	178.0	0.14	4.97	Clear	None
12:57	0.52	4.42	0.26	4.54	4.48	20.9	177.4	0.11	4.92	Clear	None
12:59	0.52	4.94	0.26	4.54	4.47	20.9	177.4	0.11	5.01	Clear	None

2/14/19

OK

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" = 0.008; 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: J. Aguilar / J. Fuller		SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 12:59	SAMPLING ENDED AT: 13:05
PUMP OR TUBING DEPTH IN WELL (feet): 26.90		TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N)	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 COC FOR ANALYSIS** ORP: **12:55 (78.9), 12:57 (76.4), 12:59 (73.2)**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: Duplicate	SAMPLE ID: Duplicate DATE: 2/14/19

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X 0.16 gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = 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)
2/14/19 Duplicate DA											

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: J. Amador / Fuller				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: N/A		SAMPLING ENDED AT: N/A	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD FILTERED: Y ☒ N ☐		FILTER SIZE: μm			
FIELD DECONTAMINATION: PUMP Y ☒ TUBING Y ☒ (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 COC FOR ANALYSIS** ORP: **N/A**

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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO.: Field Blank	SAMPLE ID: Field Blank DATE: 2/14/19

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)
2/14/19 X											

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" = 0.0008; 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: J. Aguilar J. Fuller				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 9:28		SAMPLING ENDED AT: 9:31	
PUMP OR TUBING DEPTH IN WELL (feet): N/A				TUBING MATERIAL CODE: N/A		FIELD-FILTERED: Y ☒ N			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 COC FOR ANALYSIS** **ORP: N/A**

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)

Form FD 9000-24

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: Mine-Cut 1D	SAMPLE ID: Mine-Cut 1D	DATE: 2/14/19	

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: BAILER
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

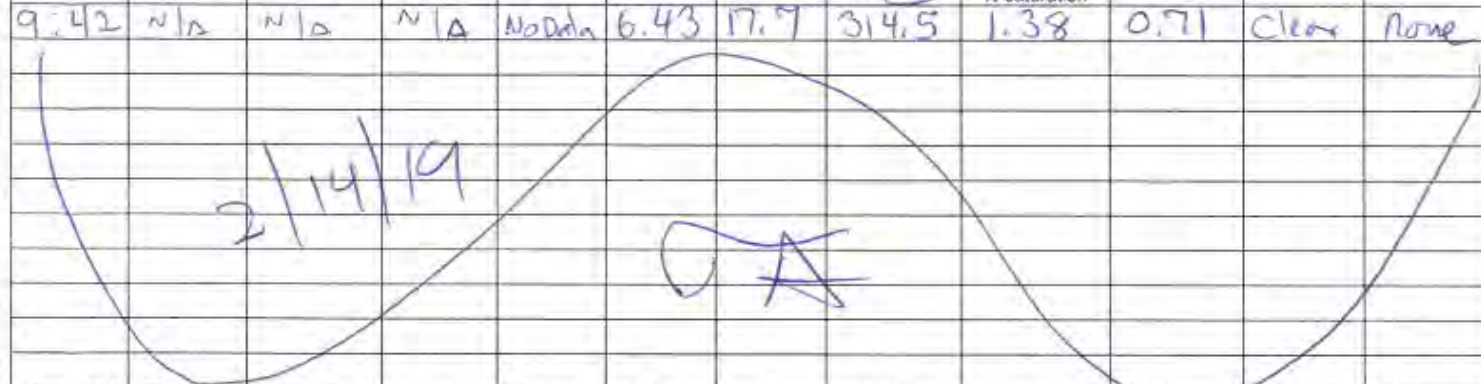
$$= (\text{N/A} \text{ feet} - \text{N/A} \text{ feet}) \times \text{N/A} \text{ gallons/foot} = \text{N/A} \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

$$= \text{N/A gallons} + (\text{N/A gallons/foot} \times \text{N/A feet}) + \text{N/A gallons} = \text{N/A gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 2/1	PURGING ENDED AT: 2/1	TOTAL VOLUME PURGED (gallons): N/A
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TIME	VOLUME PURGED (gallons)	CUMUL. 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)
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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 = Baller, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Agostino / J. Fuller	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 9:42	SAMPLING ENDED AT: 9:47
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PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD FILTERED: Y (N) Filtration Equipment Type: _____	FILTER SIZE: _____ μ m
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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[illegible]

REMARKS: SEE COC FOR ANALYSIS ORP: 9.42 (61.8)

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:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: 3B2B	SAMPLE ID: 3B2B DATE: 2/14/19

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:
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = 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):
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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)
13:30	N/A	N/A	N/A	No Data	5.45	17.5	249.0	6.15	1.10	Clear	None

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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Aguilera S. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 13:30		SAMPLING ENDED AT: 13:35	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☒ (N)		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 COC FOR ANALYSIS** ORP: **13:30 (176.5)**

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 = Bailor; 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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: Stream 3C2	SAMPLE ID: Stream 3C2	DATE: 2/14/19	

PURGING DATA

WELL		TUBING		WELL SCREEN INTERVAL		STATIC DEPTH		PURGE PUMP TYPE OR BAILER			
DIAMETER (inches): N/A		DIAMETER (inches): N/A		DEPTH: N/A ft to N/A ft		TO WATER (feet): N/A					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (\text{N/A feet} - \text{N/A feet}) \times \text{N/A gallons/foot} = \text{N/A gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{N/A gallons} + (\text{N/A gallons/foot} \times \text{N/A feet}) + \text{N/A gallons} = \text{N/A gallons}$											
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 pS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:50	N/A	N/A	N/A	N/A	6.00	18.0	228.6	7.54	1.21	Clear	N/A
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" = 0.0028; 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:	
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 COC FOR ANALYSIS ORP: 13.50(155.6)									
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 = Bailor; 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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings < 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill		SITE LOCATION: Lithia, Florida	
WELL NO: Stream 3A	SAMPLE ID: Stream 3A	DATE: 2/14/19	

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

$$= (\quad \text{N/A} \quad \text{feet} - \quad \text{N/A} \quad \text{feet}) \times \quad \text{N/A} \quad \text{gallons/foot} = \quad \text{N/A} \quad \text{gallons}$$

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

$$= \text{N/A gallons} + (\text{N/A gallons/foot} \times \text{N/A feet}) + \text{N/A gallons} = \text{N/A gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>N/A</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>N/A</u>	PURGING INITIATED AT: <u>N/A</u>	PURGING ENDED AT: <u>N/A</u>	TOTAL VOLUME PURGED (gallons): <u>N/A</u>
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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 dS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:06	N/A	N/A	N/A	N/A	5.46	18.2	195.3	0.63	1.09	clear	None

2/14/19

JS

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 / J. Fuller	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 14:06	SAMPLING ENDED AT: 14:11
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PUMP OR TUBING	TUBING	FIELD FILTERED: Y ☒ N	FILTER SIZE: _____ μ m
DEPTH IN WELL (feet): N/A	MATERIAL CODE: N/A	Filtration Equipment Type:	

FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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[illegible]

REMARKS: SEE COC FOR ANALYSIS ORP: 14.06(165.9)

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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: Duplicate	SAMPLE ID: Duplicate DATE: 2/14/19

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X 0.16 gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = 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)
2/14/19 Duplicate OK											

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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Amador J. Fuller				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: —		SAMPLING ENDED AT: —	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☒ N ☐			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 COC FOR ANALYSIS** **ORP: N/A**

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 = Bailor; 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)



Advanced
Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: T1902512
Client Name: Hillsborough County Public Utilities
ProjectID: SELF Semi-Annual

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 7470A
Preparation: SW-846 7470A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The matrix spike (MS) and matrix spike duplicate (MSD) recoveries of Mercury for M1900719001 were outside control criteria. Recovery in the Laboratory Control Sample (LCS)) was 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.
E. Serial Diluion: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other:



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Project No.: T1902512
Client Name: Hillsborough County Public Utilities
ProjectID: SELF Semi-Annual

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 6020
Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The matrix spike (MS) recovery of Arsenic for G1901247001 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS), Matrix Spike Duplicate (MSD), and RPD were acceptable, which indicates the analytical batch was in control. No further corrective action is required.
E. Serial Dilution: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other:



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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 8260B
Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Surrogates: The upper control criterion was exceeded for the surrogate bromofluorbenzene in samples T1902512004 and T1902512011. 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. No target analytes associated with this surrogate were detected in the client samples. The outlier surrogates are qualified with a J1.
D. Spikes: All acceptance criteria were met.
E. Internal Standard: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other: The trip blank T1902512016 contained DCM due to lab contamination. No DCM was in the client samples, the data is not effected.



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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 8260B (SIM)
Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Surrogates: All acceptance criteria were met.
D. Spikes: All acceptance criteria were met.
E. Internal Standard: The internal standard 1,4-difluorobenzene failed to meet control criteria for the matrix spike 3001963. No target analytes are associated with this internal standard, the data is not effected.
F. Samples: Sample analyses proceeded normally.
G. Other:



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I. Receipt

No Exceptions were encountered.

II. Holding Times

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

III. Method

Analysis: SM 4500-Cl-E
Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The matrix spike (MS) and matrix spike duplicate (MSD) recoveries of Chloride for T1902512004 and T1902512005 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action is required.
E. Serial Dilution: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other:



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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 351.2
Preparation: Copper Sulfate Digestion

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The matrix spike (MS) and matrix spike duplicate (MSD) recoveries of TKN for T1902728002 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and %RPD 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 was required.
E. Serial Dilution: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other:



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I. Receipt

No Exceptions were encountered.

II. Holding Times

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

III. Method

Analysis: SM 2340C
Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The relative percent difference (RPD) for Total between the Matrix Spike (MS) and the Matrix Spike Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3007110 in comparison with 3007109. Spike recoveries in the LCS and CCV were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.
E. Serial Dilution: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other:



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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 350.1
Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The matrix spike recoveries of Ammonia for T1902512021 & T1902731002 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS), and %RPD were acceptable, which indicates the analytical batch was in control. No further corrective action was required.
E. Serial Dilution: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other:



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Queue: ICMj

Batch Number: 1754

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 6020

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for TI in the Initial Calibration Verification (ICV), 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.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other: