

(B5/B37 Area) Groundwater Contamination Assessment and (B5 Area) Remedial Action Status Annual Report-2017

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Tomoka Farms Road Landfill, Volusia County



Submitted To:

**Florida Department of Environmental Protection
Waste Cleanup Program
Central District**

3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Prepared by:



HDR Inc.

200 West Forsyth Street, Suite 800
Jacksonville, Florida 32202
(904) 598-8900

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1.0 Introduction

On behalf of Volusia County Solid Waste Division (County), HDR Engineering, Inc. (HDR) has prepared this 2017 annual Groundwater Assessment (B5 and B37 Areas) and Remediation (B5 Area) Report for the Tomoka Farms Road Landfill (TFRL) in Volusia County. This report describes the monitoring activities, summarizes the analytical results, and provides recommendations.

2.0 Background

The TFRL began operation in 1969 as an unlined Class I landfill. Due to the discovery of vinyl chloride in groundwater in the B5 area in 1990, the County developed a Contamination Assessment Plan (CAP). In 1992, the Florida Department of Environmental Protection (FDEP) approved the CAP and the County began quarterly monitoring in the B5/B37 area of the TFRL.

In response to elevated and increasing concentrations of vinyl chloride in monitoring well B5-28 during the regular quarterly monitoring, the County voluntarily performed assessment activities to delineate the vertical and horizontal extent of volatile organic compounds (VOCs) in the groundwater, and to identify potential sources of the vinyl chloride. In November 2006, a geophysical survey was performed to identify possible sources of the VOCs, and test pits were excavated in January 2007 in the areas where anomalies were identified. The test pit excavations did not identify the source of the VOCs.

Assessment activities conducted in March 2007 at the site included a groundwater assessment of the area surrounding well B5-28. A direct-push drilling rig and an on-site laboratory were used to collect and analyze samples. During this assessment, the extent of the VOC impact was characterized as a small area within the confined surficial aquifer groundwater approximately 250 feet in length, 150 feet in width, centered approximately 20 feet south of well B5-28 and extending to a depth of approximately 40 feet bls. The assessment findings were submitted to the FDEP by SCS on April 24, 2007, recommending remediation of the VOC plume and continued quarterly groundwater monitoring at the site. The FDEP concurred with this recommendation and requested a Remedial Action Plan (RAP) on May 25, 2007. A RAP was submitted to the FDEP on October 30, 2007, recommending in-situ chemical oxidation utilizing RegenOx™ and an Oxygen Release Compound (ORC).

The FDEP provided a review of the RAP in correspondence dated February 5, 2008, and indicated that the RAP should be considered as a Limited Scope Remedial Action Plan (LSRAP) since the RAP only addressed the B-5 area of the TFRL. The FDEP also recommended implementation of a pilot test with the results submitted in a LSRAP Addendum. The pilot test was implemented on October 20, 2008, near well B5-28, and the findings submitted to the FDEP in a LSRAP Addendum dated November 17, 2008. In response, the FDEP issued a LSRAP Approval Order on March 19, 2009.

Remedial activities began with the installation of 10 temporary monitoring wells in the B5 area to monitor the effects of the remediation. The details of the well installation were documented in a Well Completion Report dated June 9, 2009. Baseline groundwater sampling for the B5 area remediation was performed on April 21 and 22, 2009. The first round of RegenOx™ injections was performed from June 22 through July 3, 2009, followed by the second round of injections from August 10 through 20, 2009. The second round of injections included the injection of an ORC meant to promote aerobic conditions in groundwater. Details of the injection procedures were submitted to the FDEP in accordance with the LSRP Approval Order in the B5 Area Remediation Status Report dated August 26, 2009.

Post remediation groundwater monitoring is currently being performed at the site to evaluate the effectiveness of the remediation. A comprehensive evaluation of the remedial effectiveness was submitted by SCS on November 22, 2011, approximately two years following the chemical injections.

Quarterly groundwater sampling of the B5/B37 area continued until the FDEP approved semiannual monitoring in a correspondence dated April 10, 2008. The April 10, 2008, correspondence also reduced the number of wells to be monitored. The remedial progress reports had been submitted under separate cover to the FDEP through the March 2012 sampling event. The FDEP approved combining the B5 remediation progress report with the B5/B37 Assessment Report in correspondence dated August 2, 2012. In a letter dated July 18, 2014, FDEP allowed the facility to remove six wells (B5-30A, B5-42, B5-43, B5-44, B37-5, and B37-14) from the required monitoring list. An additional four wells (B5, B5-30B, B-5-32, and B5-41B) were authorized to cease monitoring (FDEP letter dated February 17, 2016). Based on the review of the second semiannual 2014 Remedial Action Status Report and additional discussion in a meeting on May 21, 2015 with the County and HDR, the FDEP requested modifying five wells (TMW-1A, TMW-1B, TMW-2A, TMW-2B, and TMW-3A) located in a swale where standing water typically prevents monitoring. The modifications which included extending the casings, adding above ground protective casings, and resurveying the well elevations were completed on October 21, 2015. A new well (MW100-6) was installed in Zone 6 during the same mobilization. The new well was installed to be used as Zone 6 downgradient delineation well for the B5/B37 area and as an upgradient well for the proposed expansion cell.

In response to recommendations in the 2016 second semiannual report, FDEP on March 1, 2017 reduced the monitoring frequency requirement from semiannual to annual monitoring beginning in fall 2017. FDEP also agreed to discontinue 5 monitoring wells (B5-22, B5-25, B37-4, TMW-4A, and TMW-5A) from the monitoring list. Three wells (B5-37A, B5-37B, and MW-100-6) will remain on the list of wells to be monitored.

3.0 Groundwater Sampling

The current Assessment Monitoring system consists of 8 monitoring wells in the B5 Area and 5 monitoring wells in B37 Area (see Table 1). The FDEP has approved discontinuing sampling of three Assessment wells (B5-22, B5-25, B37-4) and two post remediation monitoring wells (TMW-4A, and TMW-5A). Monitoring well locations for the assessment wells are shown on Figures 1 and 2.

The B5 Area Remediation Status Monitoring system consists of eight temporary wells (TMW-1A/B, TMW-2A/B, TMW-3A/B, TMW-4B, and TMW-5B) and one assessment monitoring well (B5-28). Three temporary wells (TMW-1A through TMW-3A) were screened in Zone 4; and another five temporary wells (TMW-1B through TMW-5B) were screened in Zone 6 of the surficial aquifer. Zone 6 is below Zone 4 and is separated by a confining bed (clayey sand) in the surficial aquifer system and ranges from 40 to 60 ft below the ground surface. B5-28 is screened in Zone 4 (see Table 1). Another well (MW100-6) was installed down gradient from the TMW wells toward the northeast in October 2015 and was screened in Zone 6. Monitoring well locations for the remediation wells are shown on Figures 5 and 6.

The assessment groundwater monitoring wells were installed within two zones: the shallow surficial aquifer (Zone 1-2) and a deeper semi-confined surficial aquifer (Zone 4). Zones 1-2 consist of sands and silty sands that extend from the land surface to approximately 17 feet below land surface (bls). The two upper zones are separated by layers of silt and clayey sands extending from approximately 17 feet to 25 feet bls. Zone 4 consists of sands extending from approximately 25 to 36 feet bls. Beneath the Zone 4 sands is a semi-confining unit extending from approximately 36 to 47 feet bls.

Site maps indicating the locations of the Zone 1-2 and Zone 4 wells are included as Figures 1 and 2, respectively.

Pace Analytical (Pace) conducted the field sampling for the current monitoring event. Groundwater samples were collected utilizing a portable peristaltic pump and dedicated tubing from the monitoring wells. Prior to sampling, the monitoring wells were opened and allowed to equilibrate to static atmospheric pressure. Depth to groundwater was measured and the groundwater elevations were calculated at each monitoring location (Table 1). Groundwater from each monitoring well was purged and sampled in accordance with the current FDEP Standard Operating Procedures (SOPs). Following completion of purging activities, the wells were sampled using a portable peristaltic pump and dedicated tubing in the monitoring wells. Samples were collected to be analyzed for the parameters listed in Table 2. During sampling, field parameters (including pH, dissolved oxygen, specific conductivity, temperature, and turbidity) were recorded in a field-sampling log. Samples were collected, placed on ice in coolers, and shipped to PACE laboratory under a signed chain of custody documentation. Trip and equipment blanks were also included for the laboratory analyses.

4.0 Groundwater Elevation and Flow Direction

The depth to water and calculated groundwater elevations are presented in Table 1. The groundwater potentiometric contour maps and flow directions for Zone 1-2, Zone 4, and Zone 6 are presented in Figures 1, 2, 5, and 6 as described below:

- Figure 1 – Zone 1-2 B5 assessment wells: Groundwater typically flows southeasterly, which is consistent with the historic trend.
- Figure 2 – Zone 4 B5 and B37 assessment wells: During the September 2017 monitoring event flow was east-southeasterly which is typical for this area.
- Figure 5 – Zone 4 B5 remediation wells: During the September 2017 monitoring event flow was southeasterly which is typical for this area.
- Figure 6 – Zone 6 B5 remediation wells: Flow is generally southeasterly, but groundwater flowed toward northeasterly from TMW-2B toward TMW-1B and toward TMW-3B during September 2017 monitoring event.

The flow directions modeled in Figure 6 is slightly atypical of the historical norm, but flow directions modeled in Figures 1, 2 and 5 are generally consistent with the historic results. It has been noted in past reports that groundwater flow in the B5 Area has likely been influenced by wetlands and the canal west of the B5 area, and in the B37 Area Zone 4 groundwater flow may be influenced by the wetlands and the storm water detention pond east of the B37 area.

Table 1 Groundwater Elevation at B5/B37 Area Wells

Well ID	Well Type	Aquifer Zone	Top of Casing (feet, NGVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft, NGVD)	Date Measured
B5 Area Wells (Site ID: COM_68271)						
B-5	Assessment	4	32.59	3.50	29.09	9/27/17
B5-28	Assessment	4	31.07	2.15	28.92	9/27/17
B5-30B	Assessment	4	30.65	1.85	28.80	9/27/17
B5-32	Assessment	1-2	30.45	1.65	28.80	9/27/17
B5-35	Assessment	1-2	30.87	2.20	28.67	9/27/17
B5-37A	Assessment	1-2	30.01	1.75	28.26	9/27/17
B5-37B	Assessment	4	29.94	1.40	28.54	9/27/17
B5-41B	Assessment	4	34.32	5.18	29.14	9/27/17
TMW-1A	Remediation	4	31.42	2.85	28.57	9/27/17
TMW-2A	Remediation	4	31.99	3.20	28.79	9/27/17
TMW-3A	Remediation	4	32.81	4.00	28.81	9/27/17
TMW-1B	Remediation	6	31.51	8.15	23.36	9/27/17
TMW-2B	Remediation	6	31.88	8.50	23.38	9/27/17
TMW-3B	Remediation	6	29.09	11.08	18.01	9/27/17
TMW-4B	Remediation	6	32.57	7.00	25.57	9/27/17
TMW-5B	Remediation	6	33.64	5.42	28.22	9/27/17
MW 100-6	Remediation	6	31.71	8.65	23.06	9/27/17
B37 Area Wells (Site ID: COM_153864)						
B37-1	Assessment	4	28.63	0.90	27.73	9/27/17
B37-3	Assessment	4	31.17	3.45	27.72	9/27/17
B37-6	Assessment	4	32.93	5.45	27.48	9/27/17
B37-8	Assessment	4	31.23	4.55	26.68	9/27/17
B37-13	Assessment	4	31.86	4.55	27.31	9/27/17

Note: NGVD = National Geodetic Vertical Datum; TOC = Top of Casing.
 NM = Not measured.

5.0 Groundwater Monitoring Results

Groundwater samples for the site assessment monitoring wells were analyzed for VOCs (Appendix I List) by Environmental Protection Agency (EPA) Method 8260. For the remediation monitoring wells, select geochemical parameters (carbon dioxide, chloride, nitrate, sodium, sulfate, ethene, ethane, and methane) were also analyzed. The parameters analyzed are presented in Table 2. The results are summarized in Tables 3 through 5. The laboratory data reports and field logs for the Assessment Monitoring and Post Remediation Status Monitoring are included in Attachments 6 and 7, respectively.

5.1 Groundwater Assessment Monitoring

To assess the groundwater quality in the B5/B37 area, groundwater analytical results were compared to the following water quality standards of the Florida Administrative Code (FAC):

- Primary Drinking Water Standard (PDWS) (62-550, FAC).
- Secondary Drinking Water Standard (SDWS) (62-550, FAC).
- Groundwater Clean-up Target Level (GCTL) (62-777, FAC).

The following sections describe the findings of the 2017 annual sampling event within the B5/B37 area. Parameters detected at concentrations above applicable standards are discussed below.

5.1.1 B5 Area

During this monitoring event of the B5 area assessment, benzene and vinyl chloride were detected at levels above the PDWS. Benzene was detected slightly above the PDWS in one assessment well (B5-37B at 2 µg/L) (Table 3). Vinyl chloride was detected in B5-28 above the PDWS at 3.9 µg/L. These detections were both from surficial aquifer Zone 4. No VOCs were detected above applicable standards in the groundwater from B-35 or B-37A (Zone 1-2); and only chlorobenzene was detected from B5-37A slightly above the detection limit. VOC concentrations observed in Zone 1-2 and Zone 4 of the B5 area during this semiannual are shown in Figures 3 and 4, respectively. Historical laboratory analytical results for all VOC parameters detected this event in the B5 area are summarized in Attachment 2. The only other variance from groundwater standards was pH which was detected below the SDWS range (pH 6.5 – 8.5) in several wells. B5 wells have historically reported pH levels below the SDWS range, indicating a naturally acidic groundwater condition.

Table 2 Summary of Monitoring Parameters

Monitoring Type	Parameters	Field Parameters					MNA Indicating Parameters								VOCs
		pH	Specific Conductance	Temperature	Oxygen, Dissolved	Turbidity	Chloride	Carbon Dioxide	Nitrate as N	Sodium	Sulfate	Ethene	Ethane	Methane	VOCs
Assessment	B5-35	x	x	x	x	x									x
	B5-37A	x	x	x	x	x									x
	B5-37B	x	x	x	x	x									x
	B37-1	x	x	x	x	x									x
	B37-13	x	x	x	x	x									x
	B37-3	x	x	x		x									x
	B37-6	x	x	x	x	x									x
	B37-8	x	x	x	x	x									x
Post Remediation	MW 100-6	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	B5-28	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-1A	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-1B	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-2A	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-2B	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-3A	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-3B	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-4B	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	TMW-5B	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Note: x – Parameter was monitored;

**Table 3 Summary of Detected Parameters – B5 Area Assessment Monitoring
Sampled September 28 to 29, 2017**

Parameter	Standard	B5-37A	B5-35	B5-37B	Units
		Zone 1-2		Zone 4	
Field Monitoring Parameters					
pH	6.5-8.5**	6.45	6.33	6.36	S.U.
Temperature	NS	24.9	26.2	23.5	Deg. C
Specific Conductance	NS	1,392	645	1,737	µS/cm
Dissolved Oxygen	NS	0.11	0.17	0.1	mg/L
Turbidity	NS	5.15	6.3	2.74	NTU
VOCs					
1,4-Dichlorobenzene	75*	<0.5	<0.5	<0.5	µg/L
Benzene	1*	<0.1	<0.1	2.0	µg/L
Chlorobenzene	100*	4.4	<0.5	10.9	µg/L
cis-1,2-Dichloroethene	70*	<0.5	<0.5	0.96 l	µg/L
Toluene	40**	<0.5	<0.5	<0.5	µg/L
Vinyl chloride	1*	<0.5	<0.5	0.63 l	µg/L
Xylene (Total)	20**	<1.5	<1.5	<1.5	µg/L

Note:

* Primary Drinking Water Standard (Chapter 62-550, F.A.C.);

** Secondary Drinking Water Standard (Chapter 62-550, F.A.C.);

Bold number indicates the result is above the standard;

l - Analyte Concentration was between the detection limit and the reporting limit;

Groundwater results for B5-25 and B5-28 are provided in Table 5.

5.1.2 B37 Area

Groundwater data collected from the five wells screened in Zone 4 (B37-1, B37-3, B37-6, B37-8, and B37-13) from the B37 area during this event are summarized in Table 4. Benzene was detected above the PDWS in four wells (B37-1 at 4.2 µg/L, B37-3 at 2.7 µg/L, B37-6 at 2.8 µg/L, and B37-13 at 10.1 µg/L). Benzene was not detected in B37-8. Other VOCs detected were below reporting limits and/or applicable standards.

Benzene concentrations in the B37 Area appear to be somewhat stable with occasional spikes and non-detects reported. Benzene concentrations in Zone 4 are depicted in Figure 4. The only other parameter detected outside the applicable standards was pH, which was measured below or slightly above the lower limit of the SDWS range (6.5 to 8.5 units) in all wells. Low pH levels in the B37 area are consistent with historical results indicating a natural acidic soil and water conditions.

**Table 4 Summary of Detected Parameters – B37 Area - Assessment Monitoring
Sampled September 28 to 29, 2017**

Parameter	Standard	B37-1	B37-3	B37-6	B37-8	B37-13	Units
		Zone 4					
Field Monitoring Parameters							
pH	6.5-8.5**	6.19	6.26	6.32	5.43	6.38	S.U.
Temperature	NS	25.9	24.4	24.6	24.6	24.9	Deg. C
Specific Conductance	NS	1,709	1,582	1,263	192	2,132	µS/cm
Dissolved Oxygen	NS	0.14	0.05	0.12	0.08	0.09	mg/L
Turbidity	NS	4.73	0.68	9.07	1.03	2.56	NTU
VOCs							
1,4-Dichlorobenzene	75*	<0.5	<0.5	<0.5	<0.5	0.52 l	µg/L
Benzene	1*	4.2	2.7	2.8	<0.1	10.1	µg/L
Chlorobenzene	100*	2.8	1.1	1.9	<0.5	9.6	µg/L
cis-1,2-Dichloroethene	70*	0.66 l	<0.5	<0.5	<0.5	<0.5	µg/L
Toluene	40**	<0.5	<0.5	<0.5	<0.5	0.58 l	µg/L
Vinyl chloride	1*	0.83 l	<0.5	<0.5	<0.5	<0.5	µg/L
Xylene (Total)	20**	3.9	1.6 l	<1.5	<1.5	5.3	µg/L

Note: * Primary Drinking Water Standard (Chapter 62-550, F.A.C.);
 ** Secondary Drinking Water Standard (Chapter 62-550, F.A.C.);
 NS -No Standard has been established;
 Bold number indicates the result is above the standard;
 l – Analyte concentration was between the detection limit and the reporting limit.

5.2 Remediation Status Monitoring

The County is performing post-remediation annual monitoring in the B5 area to evaluate the remedial effectiveness of the implemented in-situ corrective measure. Table 5 summarizes the compounds detected in the Remediation Status Monitoring Wells during the 2017 annual sampling event, which includes an assessment well (B5-28), three remediation status monitoring wells (TMW-1A through TMW-3A) screened in Zone 4, five remediation status monitoring wells (TMW-1B through TMW-5B) screened in Zone 6, and a down gradient well (MW 100-6) screened in Zone 6.

As summarized in Table 5, the following VOCs were detected above the PDWS in the remediation monitoring wells: 1,1-dichloroethene (1,1-DCE), benzene, cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (T-1,2-DCE), trichloroethene (TCE), and vinyl chloride. These detections are consistent with the historic results. Trace levels of VOCs (cis-1,2-DCE and vinyl chloride) were detected in the downgradient well (MW-100-6) slightly above the detection limits but below any groundwater standards. VOC concentrations observed in the B5 Remediation Status Monitoring Area during the 2017 annual monitoring are shown in Figure 7. A table summarizing historically detected groundwater monitoring parameters is provided in Attachment 4. Time series trend plots for commonly detected VOCs are provided in Attachment 5. Field measured pH levels were detected slightly below the lower limit of the SDWS range in samples from six remediation status monitoring wells (TMW-1B, TMW-2A, TMW-2B, TMW-3A, TMW-3B, and TMW-5B) and a downgradient well (MW-100-6).

The following paragraphs discuss trends for parameters that exceeded the FAC applicable standards in the B5 Remediation Status Monitoring area during the 2017 annual event.

1,1-Dichloroethene

During the 2017 annual monitoring event, 1,1-DCE was detected above the PDWS of 7.0 µg/L in samples from two Zone 4 wells (TMW-1A and TMW-3A) and two Zone 6 wells (TMW-1B and TMW-3B). The 1,1-DCE concentrations for TMW-1A, TMW-3A and TMW-3B increased from the previous monitoring event; but these concentrations were still below the historic high from the site. The 1,1-DCE concentrations decreased from the previous monitoring event in TMW-1B and TMW-5B. The 1,1-DCE concentration in TMW-5B was below the PDWS and showed a decreasing trend.

Benzene

Benzene was detected slightly above the PDWS of 1 µg/L in TMW-1A and B, TMW-3A and B, and TMW-5B. Concentrations detected in these wells are decreasing over time from all wells except at TMW-3A and TMW-3B where benzene concentration increased slightly from the previous monitoring events. Overall, benzene concentrations appear to be stable or decreasing over time. Historical benzene concentrations and trends are presented in Attachments 4 and 5.

Cis-1,2-Dichloroethene

Cis-1,2-Dichloroethene was detected above the PDWS (70 µg/L) in two wells screened in Zone 4 (TMW-1A and TMW-3A) and four wells screened in Zone 6 (TMW-1B, TMW-2B, TMW-3B, and TMW-4B). The reported concentration of cis-1,2-DCE was much higher than the previous several monitoring events in TMW-1A, TMW-3A, and TMW-3B. But cis-1,2-DCE concentrations are below the PDWS and decreased over time from the other wells (B5-28, TMW-2A, and TMW-5B).

Trans-1,2-dichloroethene

Trans-1,2-Dichloroethene was not detected above the PDWS (100 µg/L) during the 2017 annual monitoring event except from one well (TMW-3B). Trans-1,2-Dichloroethene is the first time detected from TMW-3B above the PDWS.

Trichloroethene

Trichloroethene was detected above the PDWS of 3 µg/L in samples collected from five wells (TMW-1B, TMW-3A, TMW-3B, TMW-4B, and TMW-5B) during this event. Trichloroethene concentrations have significantly decreased in the up gradient well (TMW-5B), but they have increased significantly in the downgradient wells TMW-3A and TMW-3B (Attachment 5).

Vinyl Chloride

Vinyl chloride was detected above the PDWS of 1.0 µg/L in B5-28 and in all the temporary monitoring wells during this event. Vinyl chloride was not detected above the Method Detection Limit (MDL) in MW-100-6. However, the vinyl chloride concentrations in all other wells were higher this monitoring event compared to the previous monitoring event. Historical vinyl chloride concentrations are presented in Attachments 1 and 4 and time series plots of vinyl chloride concentrations are shown in Attachment 5.

Natural Attenuation Parameters

Remediation status monitoring included the collection of select natural attenuation parameters (Table 5). The natural attenuation monitoring parameters indicate that groundwater at this site is reduced and conditions are favorable for the continued natural attenuation of VOCs:

pH - Field measured pH ranged from 6.23 to 6.56 S.U. (below to slightly above the lower limit of the SDWS range (6.5-8.5 S.U.)) at all wells. These values are between the pH range of 6 and 7 S.U. and so are favorable for the anaerobic biodegradation process. These results are consistent with historical results.

Dissolved Oxygen and Redox – Dissolved oxygen levels were all below 1 mg/L. The groundwater redox potential values are all below 0 mV, indicating that groundwater is dominated by reduced conditions, which is favorable for the reductive degradation of chlorinated VOCs.

Nitrate and Sulfate – Nitrate was detected at trace level or was reported below the detection limit (0.025 mg/L), and all detections were below the PDWS.

Sulfate was detected at 7 wells between 4.4 and 122 mg/L, all below the SDWS. The low levels of nitrate and sulfate indicate favorable conditions for reductive dechlorination.

Ethene, Ethane, and Methane – Ethane and methane were detected from all post remediation monitoring wells and ethene was also detected from most temporary wells except TMW-2A and TMW-5B. These detections indicate the presence of organic substrate for microbial activity for the reductive monitored natural attenuation process resulting in degradation of VOCs from the groundwater.

Table 5 Summary of Detected Parameters – B5 Area Post Remediation Monitoring Wells
Sampled September 28 to 29, 2017

Parameter	Standard	Detected Results										Units
		B5-28	MW 100-6	TMW 1A	TMW 1B	TMW 2A	TMW 2B	TMW 3A	TMW 3B	TMW 4B	TMW 5B	
Field Monitoring Parameters												
pH	6.5-8.5	6.56	6.45	6.52	6.31	6.3	6.48	6.23	6.29	6.53	6.35	S.U.
Temperature	NS	24.9	23.9	23.2	24.2	24.3	25.8	24.7	26.3	25.9	24.7	Deg. C
Specific Conductance	NS	1,181	716	2,130	1,190	1,650	1,568	1,739	1,753	972	1,853	µS/cm
Dissolved Oxygen	NS	0.09	0.07	0.13	0.12	0.1	0.19	0.05	0.18	0.16	0.09	mg/L
Turbidity	NS	3.48	7.6	19.15	1.36	4.32	0.67	3.3	8.93	1.24	5.89	NTU
Oxidation Reduction Potential	NS	-112.7	-58.4	-106.1	-55.4	-92	-71.9	-70.4	-68.7	-85.4	-105.5	mV
General Chemistry												
Carbon Dioxide, Free	NS	5.6	2.9	9.6	3.8	6.9	5.1	6.7	6.6	3.3	7.8	mg/L
Chloride	250**	24.7	49	112	98.7	63.7	92.9	133	136	79.5	89.3	mg/L
Ethane	NS	64	36.6	3380	239	495	187	719	661	136	149	µg/L
Ethene	NS	<10	<10	470	430	<10	79.7	549	741	125	<100	µg/L
Methane	NS	4,570	7,650	26,300	12,000	11,900	4,960	32,200	31,500	8,180	31,900	µg/L
Nitrogen, Nitrate	10*	<0.025	<0.025	<0.025	<0.025	<0.025	0.025 l	<0.025	<0.025	<0.025	<0.025	mg/L
Sodium	160*	74.2	34.6	395	134	197	233	87.3	102	115	99.2	mg/L
Sulfate	250*	4.4 l	<2.5	36.9	77	46.6	122	<2.5	9.8	21.8	<2.5	mg/L
VOCs												
1,1-Dichloroethene	7*	<0.5	<0.5	11.2	229	<0.5	4	645	1,290	2	2.3	µg/L
Benzene	1*	0.28 l	<0.1	3.9	1.5	0.99 l	0.78 l	6.2	4.7	0.33 l	1.4	µg/L
Chlorobenzene	100*	1.9	<0.5	2.9	<0.5	1.3	<0.5	5.9	5.1	<0.5	7.1	µg/L
Chloroethane	12***	<0.5	<0.5	1.3 l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L
cis-1,2-Dichloroethene	70*	0.83 l	0.81 l	351	5,180	1.9	275	3,600	8,660	293	8.1	µg/L
Ethylbenzene	30**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	1.3	<0.5	<0.5	µg/L
Toluene	40**	<0.5	<0.5	9.3	4.3	<0.5	<0.5	5	5.1	1.2	<0.5	µg/L
trans-1,2-Dichloroethene	100*	<0.5	<0.5	1.2	15.6	<0.5	0.73 l	65.4	150	0.63 l	<0.5	µg/L
Trichloroethene	1*	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	1,310	1,560	3.5	3.6	µg/L
Vinyl chloride	1*	3.9	0.89 l	2,450	3,070	1.4	1,110	1,060	1,940	1,080	9.9	µg/L
Xylene (Total)	20**	<1.5	<1.5	4.3	<1.5	<1.5	<1.5	7.2	3.8	<1.5	<1.5	µg/L

Note: * Primary Drinking Water Standard (Chapter 62-550, F.A.C.);
 ** Secondary Drinking Water Standard (Chapter 62-550, F.A.C.);
 NS - No Standard;
 Bold number indicates that the result is above the applicable standard;
 I - Analyte concentration was between the detection limit and the reporting limit.

6.0 Quality Assurance/Quality Control

Field quality assurance/quality control (QA/QC) involves the routine collection and analysis of trip blanks, equipment blanks, and duplicate samples to verify that the sample collection and handling processes in the field have not impaired the quality of the samples. Laboratory QA/QC involves the routine collection and analysis of method reagent blanks, matrix spike and matrix spike duplicate (MS/MSD) samples, laboratory control samples (LCS), surrogate recoveries, and duplicate samples to verify that the sample analysis procedures have not impaired the quality of the samples. These results indicate that the groundwater data meet the QA/QC requirements.

HDR performed a review of the field and laboratory QC data and reports. The results indicate that sodium and carbon dioxide were detected in B5 area post remediation status monitoring equipment blanks. No detections were noted in B5 area post remediation status monitoring trip blanks.

7.0 Conclusions and Recommendations

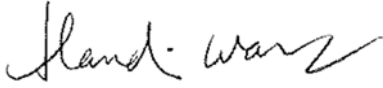
The groundwater quality of assessment monitoring and post remediation monitoring wells at the B5/B37 area during the 2017 annual sampling event is generally consistent with historical results, and six VOCs (1,1-dichloroethene, benzene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride) were detected above their respective PDWSs. The detected VOCs from two downgradient temporary wells (TMW-3A and TMW-3B) increased during this monitoring event, but they are still far below the historic high detected at the site. Vinyl chloride concentrations from most temporary wells spiked during this monitoring event. The VOCs detected at levels above the PDWS in the B5/B37 area only occurred in Zone 4 and Zone 6. VOCs were not detected above the PDWS in Zone 1-2. The following conclusions are based on the findings from this 2017 annual monitoring period:

- These data continue to indicate a substantial reduction of VOC levels since the in-situ chemical injections.
- Assessment Monitoring in the B-5 and B-37 area:
 - B5 Area: Benzene was detected slightly above the PDWS (1 µg/L) in one well (B5-37B).
 - B5 Area: Vinyl chloride was detected at levels above the PDWS at only one well (B5-28) in B5 assessment area monitoring wells during this event. The vinyl chloride concentration detected at B5-28 decreased significantly from the historic high and is now only slightly above the PDWS.
 - B37 Area: Benzene concentrations were above the PDWS in wells screened in Zone 4 in B37 area: B37-1, B37-3, B37-6, and B37-13. Benzene levels in the B5/B37 Areas generally are stable or decreasing with some fluctuation through the monitoring history.
- B-5 post remediation status monitoring:
 - During the 2017 annual event, 1,1-DCE, benzene, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride were detected above the PDWS. Most detected VOC concentrations from the Zone 6 up gradient wells (TMW-4B and TMW-5B) continued to show a decreasing trend, but these VOC concentrations showed an increasing trend in the Zone 6 downgradient well (TMW-3B) indicating a slow migration path of these VOCs along the groundwater flow direction. Zone 4 well TMW-3A also showed an increasing trend during this event. The vinyl chloride concentrations from five temporary wells (TMW-1A, TMW-1B, TMW-2B, TMW-3A, TMW-3B, and TMW-4B) also increased from the previous monitoring event. Overall, the detected VOC levels were much lower than the historic highs at the site.
 - No VOCs were detected above the PDWS in the downgradient well MW100-6.
 - Consistent with most monitoring events since 2008, dissolved oxygen levels measured in the groundwater are low. The results indicate that the ORC has completed releasing oxygen into the subsurface since the second ORC injection in August 2009 and reducing conditions have been established in the groundwater as indicated by low ORP and low dissolved oxygen levels.

Since no VOCs have been detected above any groundwater standards from B5-35, B5-37A, and B37-8 since September 2011, it is recommended that these wells be removed from annual monitoring. Annual groundwater monitoring for all the other wells will continue.

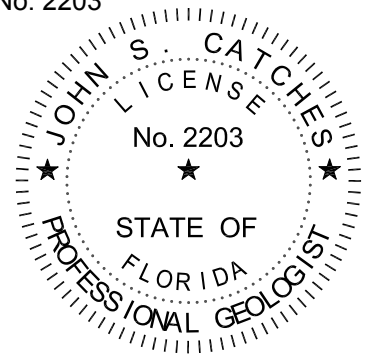
8.0 Professional Certification

This document has been prepared under my direction in substantial accordance with Florida Solid Waste Management Facility Regulations. The information contained within this report is to the best of my knowledge and belief, true, accurate, and complete.

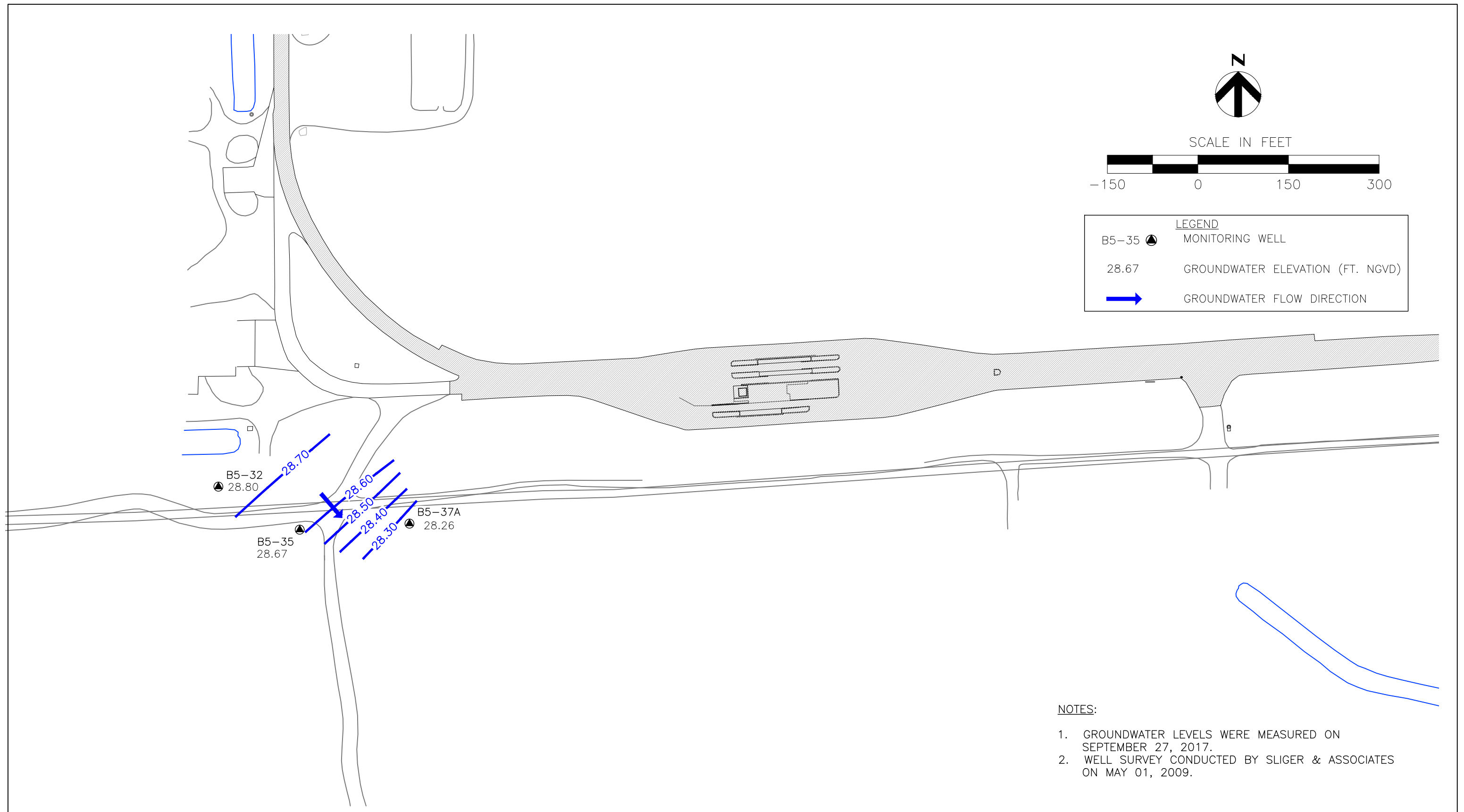


Handi Wang, PhD.
HDR Engineering, Inc.
Sr. Environmental Scientist

John Catches P.G.
HDR Engineering, Inc.
FL License No. 2203



FIGURES



PROJECT TITLE
TOMOKA FARMS ROAD LANDFILL B5/B37 ASSESSMENT

SHEET TITLE
ZONES 1&2 GROUNDWATER POTENTIOMETRIC MAP
2017 ANNUAL SAMPLING EVENT

PROJECT NUMBER
10020897

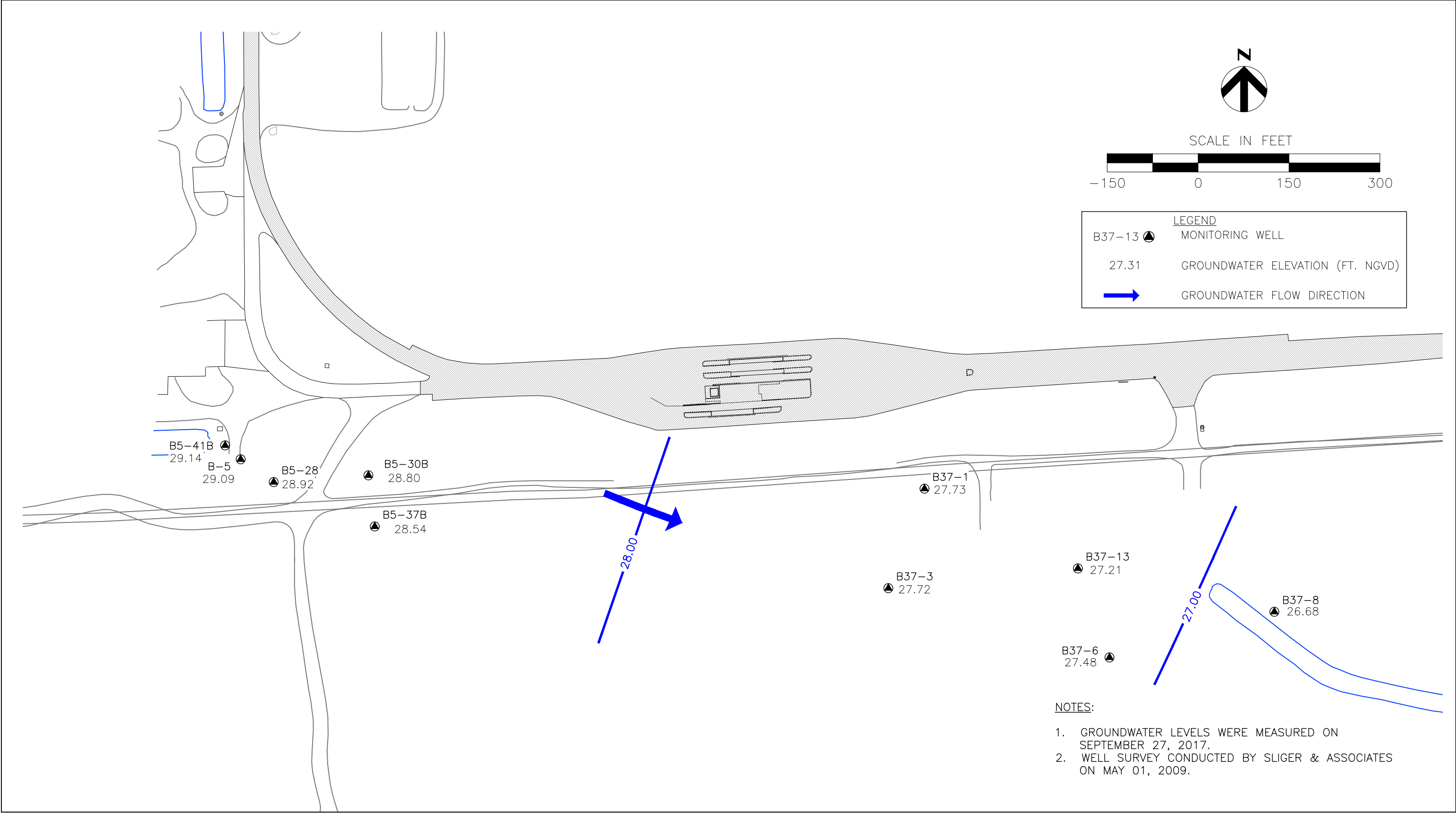
PROJECT MANAGER

DATE
OCT. 20, 2017

REFERENCE SHEET

REFERENCE DOCUMENT

EXHIBIT NUMBER
1



PROJECT TITLE
TOMOKA FARMS ROAD LANDFILL B5/B37 ASSESSMENT

SHEET TITLE
ZONE 4 GROUNDWATER POTENTIOMETRIC MAP
2017 ANNUAL SAMPLING EVENT

PROJECT NUMBER
10020897

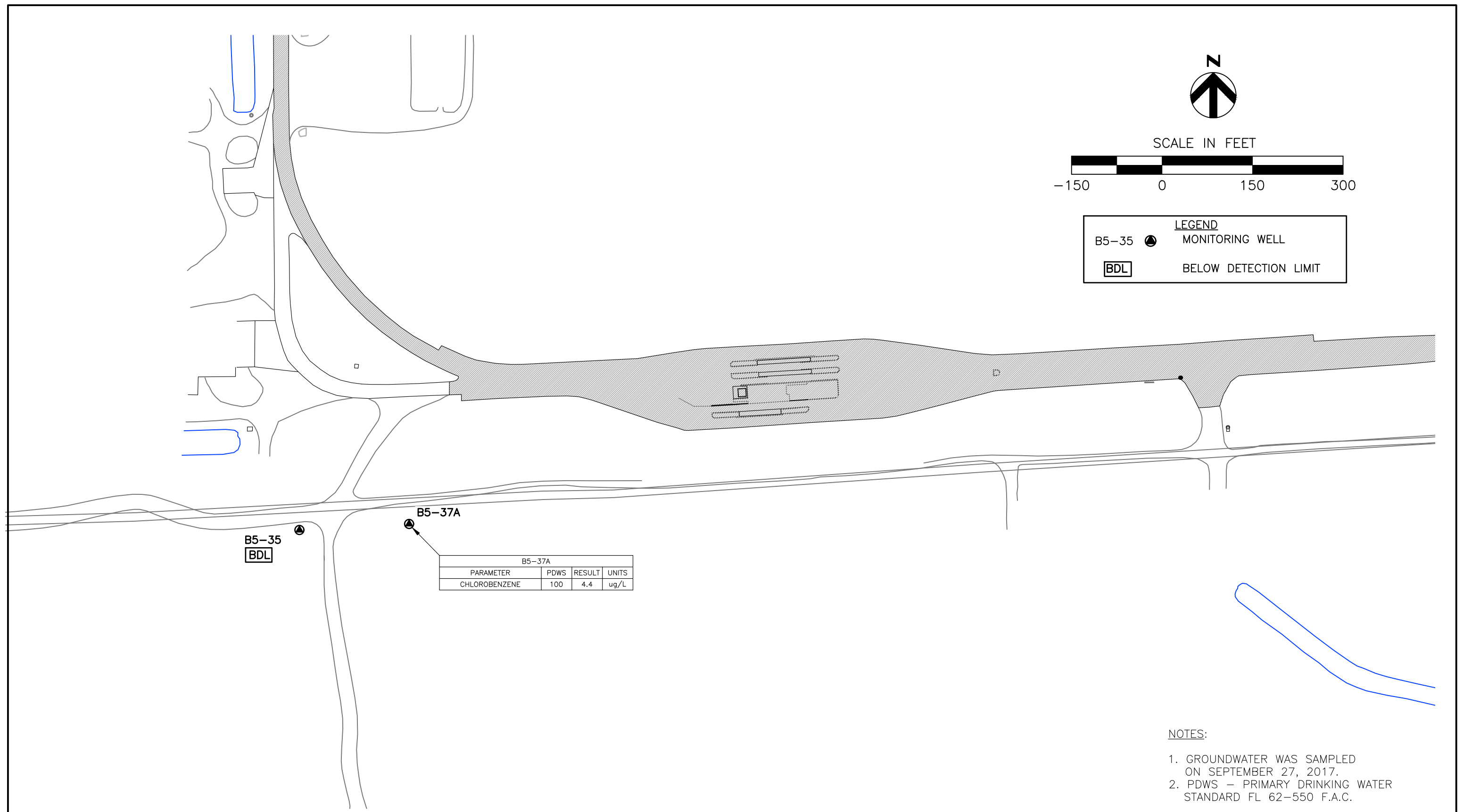
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EXHIBIT NUMBER
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PROJECT TITLE

TOMOKA FARMS ROAD LANDFILL B5/B37 ASSESSMENT

SHEET TITLE

ZONES 1&2 GROUNDWATER DETECTED VOC CONCENTRATION MAP
2017 ANNUAL SAMPLING EVENT

PROJECT NUMBER

10020897

PROJECT MANAGER

DATE

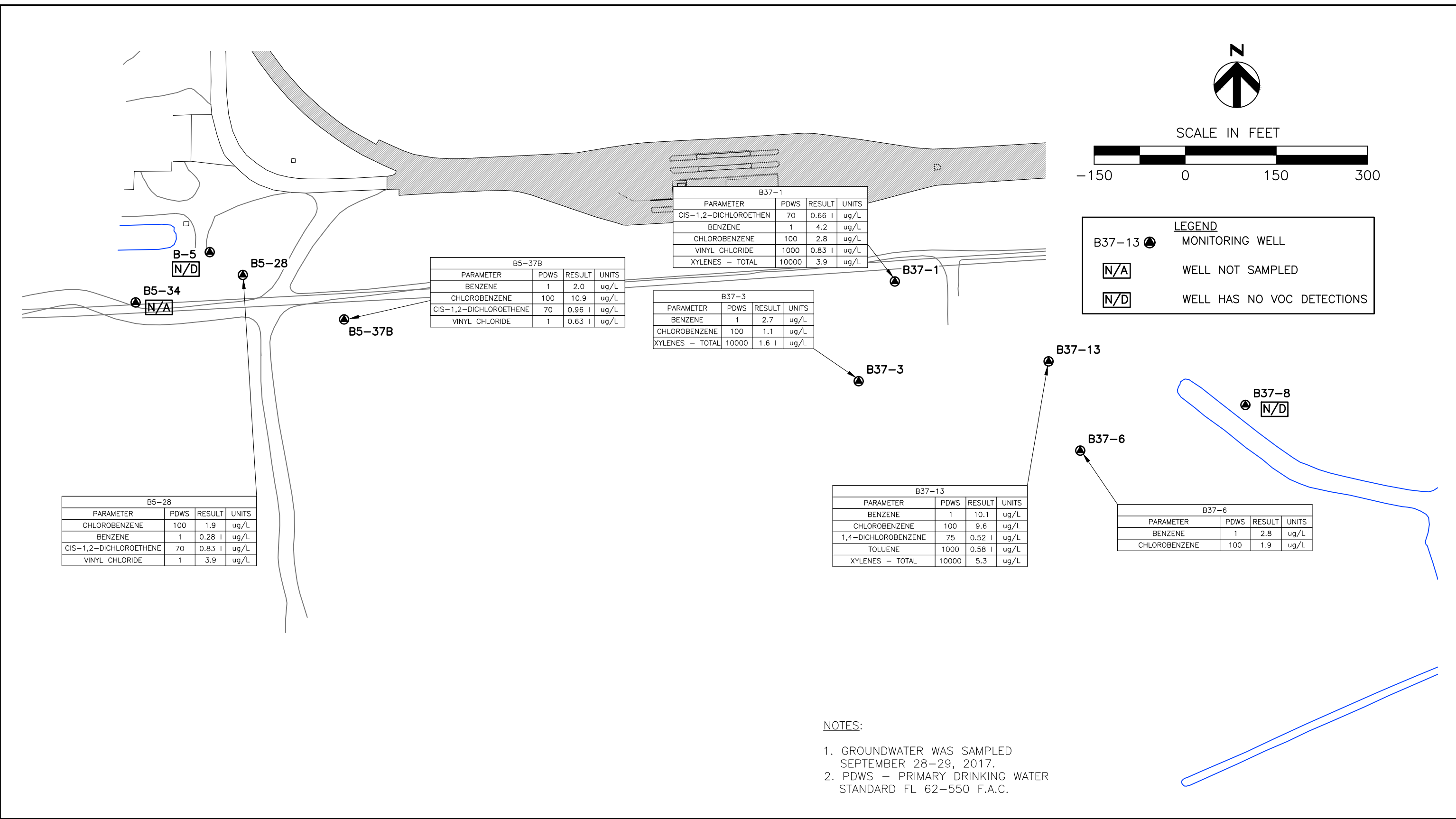
OCT. 20, 2017

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EXHIBIT NUMBER

3



PROJECT TITLE

TOMOKA FARMS ROAD LANDFILL B5/B37 ASSESSMENT

SHEET TITLE

ZONE 4 GROUNDWATER DETECTED VOC CONCENTRATION MAP
2017 ANNUAL SAMPLING EVENT

PROJECT NUMBER

10020897

PROJECT MANAGER

DATE

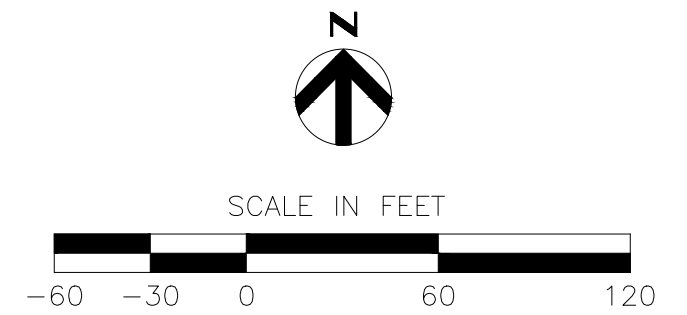
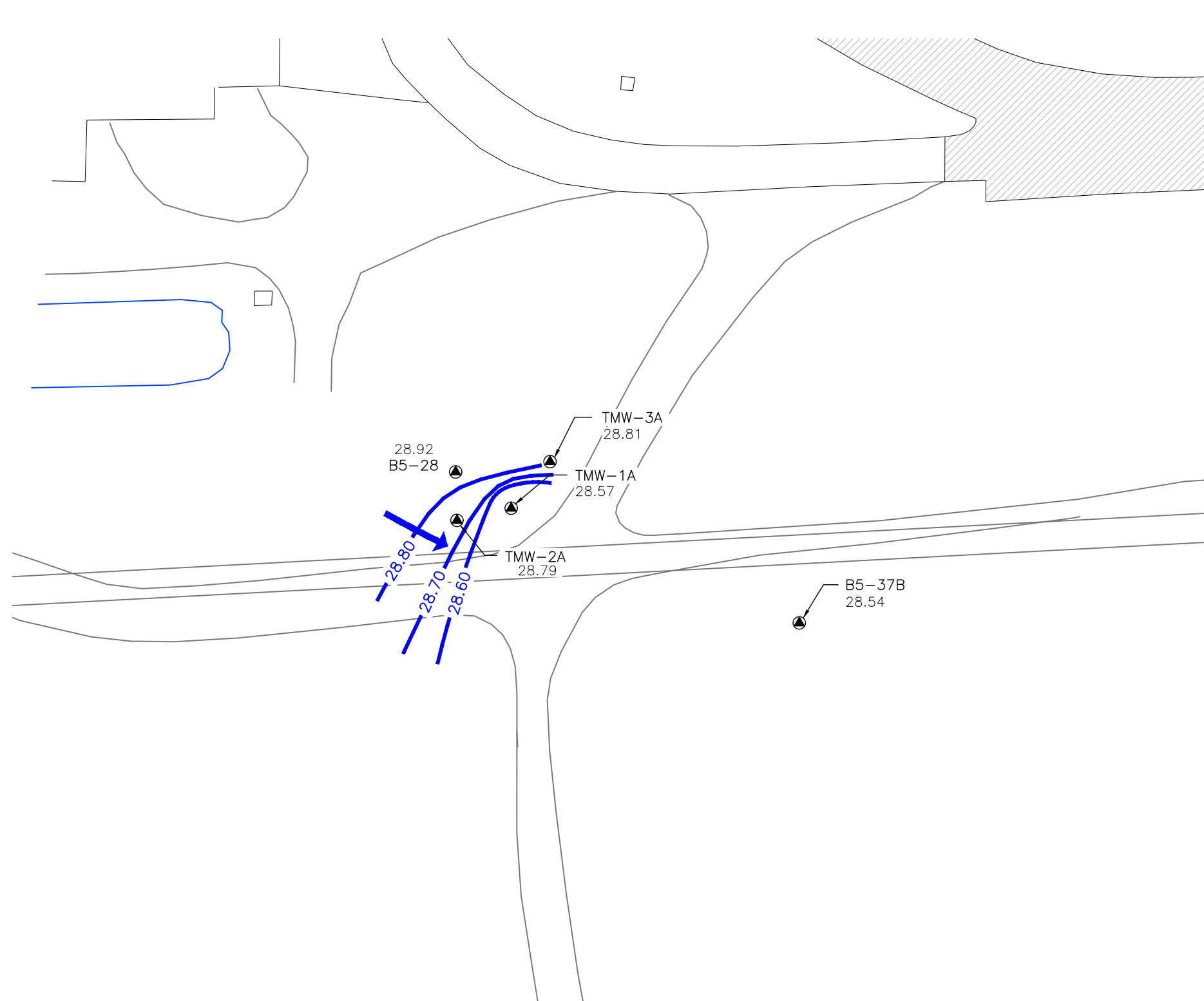
OCT. 20, 2017

REFERENCE SHEET

REFERENCE DOCUMENT

EXHIBIT NUMBER

4



LEGEND		
B5-28		MONITORING WELL
28.92		GROUNDWATER ELEVATION (FT. NGVD)
		GROUNDWATER FLOW DIRECTION

NOTES:

- GROUNDWATER LEVELS WERE MEASURED ON SEPTEMBER 27, 2017.
- WELL SURVEY CONDUCTED BY SLIGER & ASSOCIATES ON MAY 01, 2009.



PROJECT TITLE

TOMOKA FARMS ROAD LANDFILL REMEDIATION STATUS MONITORING

SHEET TITLE

ZONE 4 GROUNDWATER POTENTIOMETRIC MAP
2017 ANNUAL SAMPLING EVENT

PROJECT NUMBER

10020897

PROJECT MANAGER

DATE

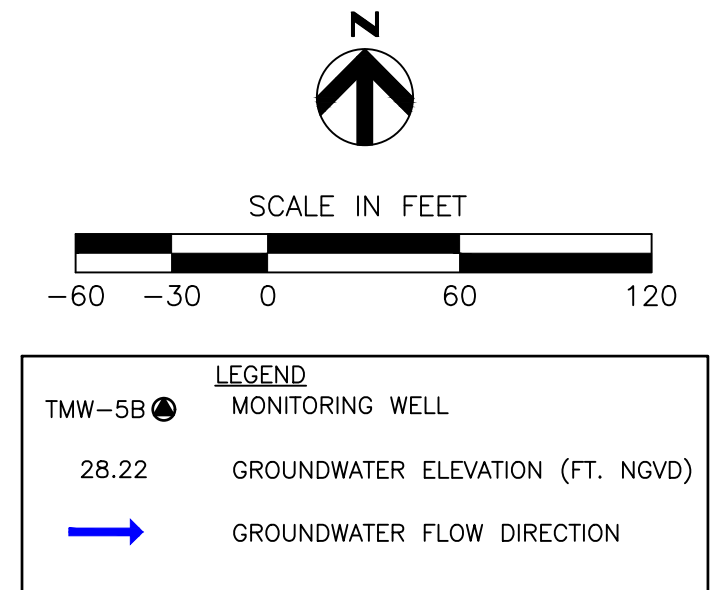
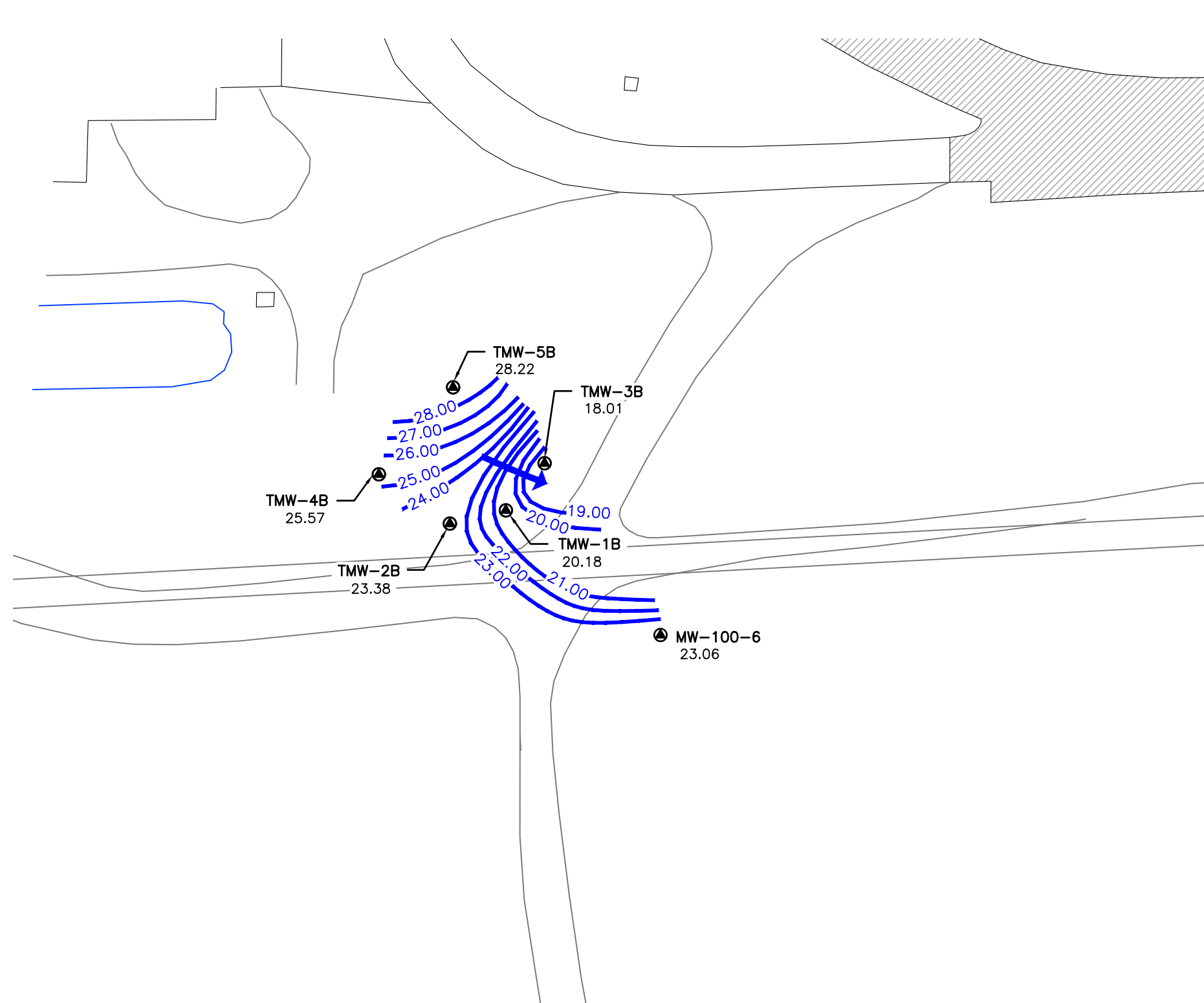
OCT. 20, 2017

REFERENCE SHEET

REFERENCE DOCUMENT

EXHIBIT NUMBER

5



NOTES:

1. GROUNDWATER LEVELS WERE MEASURED ON SEPTEMBER 27, 2017.
2. WELL SURVEY CONDUCTED BY SLIGER & ASSOCIATES ON MAY 01, 2009.



PROJECT TITLE

TOMOKA FARMS ROAD LANDFILL REMEDIATION STATUS MONITORING

SHEET TITLE

ZONE 6 GROUNDWATER POTENTIOMETRIC MAP
2017 ANNUAL SAMPLING EVENT

PROJECT NUMBER

10020897

PROJECT MANAGER

DATE

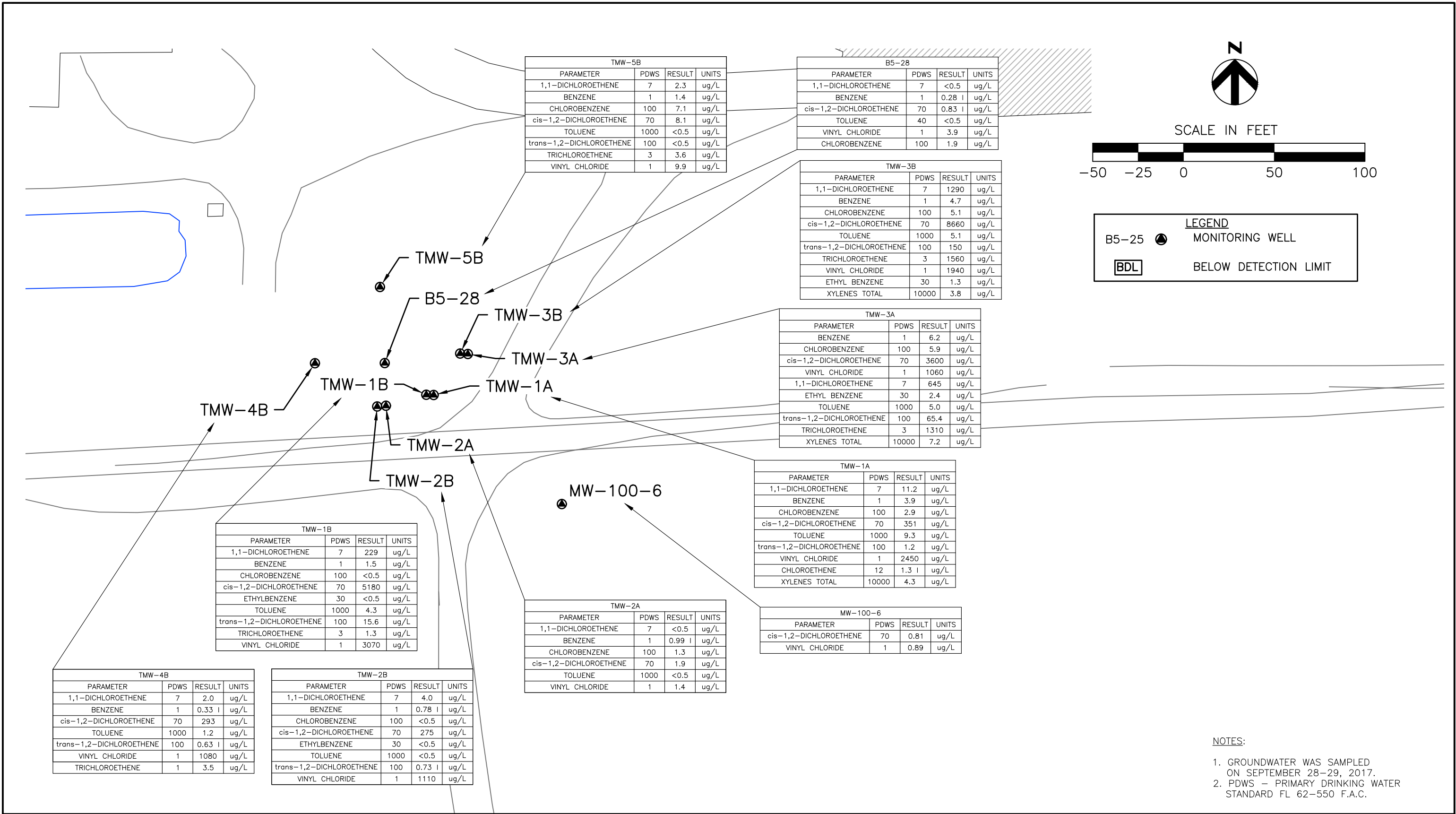
OCT. 20, 2017

REFERENCE SHEET

REFERENCE DOCUMENT

EXHIBIT NUMBER

6



PROJECT TITLE

TOMOKA FARMS ROAD LANDFILL REMEDIATION STATUS MONITORING

SHEET TITLE

ZONES 4&6 GROUNDWATER DETECTED VOC CONCENTRATION MAP
2017 ANNUAL REMEDIATION MONITORING EVENT

PROJECT NUMBER

10020897

PROJECT MANAGER

DATE

OCT. 20, 2017

REFERENCE SHEET

REFERENCE DOCUMENT

EXHIBIT NUMBER

7

ATTACHMENTS

Attachment 1 Chronology of Post Remediation Monitoring

Attachment 1

Chronology of Post-Remediation Groundwater Monitoring

<u>Event</u>	<u>Start Date</u>	<u>End Date</u>	<u>Comment</u>
LSRAP Approval Order Issued	3/19/2009	3/19/2009	Approved LSRAP Addendum
Monitoring Well Installations	4/7/2009	4/13/2009	10 temporary monitoring wells
Groundwater Sampling Event #1	4/21/2009	4/22/2009	Baseline Groundwater Sampling
Submittal of Monitoring Well Installation Report to FDEP	6/9/2009	6/9/2009	Completed
First RegenOX™ Injection	6/22/2009	7/3/2009	Injected 5,400 lbs of RegenOX™ diluted in approximately 9,000 gallons of water.
Groundwater Sampling Event #2	7/14/2009	7/17/2009	Performed between injection events, 11-days following completion of 1 st injection.
Second RegenOX™ /ORC Injection	8/10/2009	8/20/2009	Injected 5,400 lbs of RegenOX™ and 1,688 lbs of ORC diluted in approximately 9,000 gallons of water.
Submittal of 1st Remedial Action Status Report to the FDEP	8/26/2009	8/26/2009	FDEP responded on November 23, 2009 following the submittal of the 2 nd remedial status report. No comments received.
Groundwater Sampling Event #3	9/2/2009	9/3/2009	13-days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #4	9/15/2009	9/17/2009	26 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #5	9/28/2009	9/30/2009	39 days following completion of 2 nd injection (ORC injection).
Submittal of 2nd Remedial Action Status Report to the FDEP	10/30/2009	10/30/2009	FDEP responded on November 23, 2009 with no comments. Next remedial status report due by February 25, 2010.
Groundwater Sampling Event #6	10/14/2009	10/15/2009	53 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #7	11/10/2009	11/11/2009	80 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #8	12/8/2009	12/9/2009	108-days following completion of 2 nd injection (ORC injection).

Submittal of 3rd Remedial Action Status Report to the FDEP	01/25/2010	01/25/2010	FDEP responded on April 19, 2010 with no comments. Next remedial status report due by May 28, 2010.
Groundwater Sampling Event #9	3/10/2010	3/11/2010	200 days following completion of 2 nd injection (ORC injection).
Submittal of 4th Remedial Action Status Report to the FDEP	5/17/2010	5/17/2010	FDEP responded on June 22, 2010. FDEP requested a site map with well locations for all future status reports. Next remedial status report due by August 27, 2010.
Groundwater Sampling Event #10	6/2/2010	6/4/2010	286 days following completion of 2 nd injection (ORC injection).
Submittal of 5th Remedial Action Status Report to the FDEP	8/25/2010	8/25/2010	FDEP responded with no comments on February 23, 2011. Next remedial status report due by March 25, 2011
Groundwater Sampling Event #11	9/9/2010	9/11/2010	385 days following completion of 2 nd injection (ORC injection).
Submittal of 6th Remedial Action Status Report to the FDEP	10/25/2010	10/25/2010	FDEP responded with no comments on February 23, 2011. Next remedial status report due by March 25, 2011
Groundwater Sampling Event #12	12/7/2010	12/9/2010	443 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #13	3/8/2011	3/10/2011	564 days following completion of 2 nd injection (ORC injection).
Submittal of 7th Remedial Action Status Report to the FDEP	06/20/2011	06/20/2011	FDEP responded with no comments on February 23, 2011. Comprehensive report due by October 22, 2011
Groundwater Sampling Event #14	7/5/2011	7/7/2011	684 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #15	09/27/2011	09/28/2011	768 days following completion of 2 nd injection (ORC injection).
Request Time Extension for Comprehensive Report	10/25/2010	10/25/2010	FDEP granted extension. Comprehensive report due by November 22, 2011
Submittal of Comprehensive Report	11/22/2011	11/22/2011	FDEP responded with no comments on April 2, 2012.
Groundwater Sampling Event #16	12/27/2011	12/28/2011	859 days following completion of 2 nd injection (ORC injection).
Submittal of 8th Remedial Action Status Report to the FDEP	03/26/2012	03/26/2012	Awaiting FDEP comments.
Groundwater Sampling Event #17	3/13/2012	3/14/2012	936 days following completion of 2 nd injection (ORC injection).

Groundwater Sampling Event #18	9/24/2012	9/25/2012	1131 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #19	3/7/2013	3/8/2013	1295 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #20	9/18/2013	9/19/2013	1459 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #21	3/10/2014	3/13/2014	1663 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #22	9/15/2014	9/15/2014	1849 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #23	3/10/2015	3/13/2015	2027 days following completion of 2 nd injection (ORC injection)
Groundwater Sampling Event #24	9/14/2015	10/1/2015	2216 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #25	3/16/2016	3/18/2016	2394 days following completion of 2 nd injection (ORC injection).
Submittal: Request to Modify Monitoring Plan	9/12/2016	9/12/2016	2581 days following completion of 2 nd injection (ORC injection).
Groundwater Sampling Event #26	9/19/2016	9/28/2016	2588 days following completion of 2 nd injection (ORC injection).
FDEP Letter	3/1/2017	3/1/2017	Reduced monitoring requirement to annually in fall each year.
Groundwater Sampling Event #27	9/28/2017	9/29/2017	2962 days following completion of 2 nd injection (ORC injection).

Attachment 2
Historical VOCs Detected Data –B5 Area
Assessment Monitoring

Attachment 2a.
Historical 1,1-Dichloroethene (µg/L) Detected Data - B5 Area Assessment Monitoring
Tomoka Farms Road Landfill, Volusia County, Florida

Aquifer Zone	Zone 1-2		Zone 4	
Date	B5-35	B5-37A	B5-28	B5-37B
Jun-04	0.1 U	0.1 U	0.26 I	0.1 U
Oct-04	0.4 U	0.4 U	11	0.4 U
Dec-04	0.4 U	0.4 U	38	0.4 U
Mar-05	0.4 U	0.4 U	2 U	0.4 U
Jun-05	0.4 U	----	----	----
Sep-05	0.4 U	0.4 U	130	0.4 U
Dec-05	0.4 U	0.4 U	23	0.4 U
Mar-06	0.4 U	0.4 U	490	0.4 U
Jun-06	0.81 U	0.81 U	460	0.81 U
Sep-06	0.81 U	4.1	800	2.2
Dec-06	0.81 U	0.81 U	1500	0.81 U
Feb-07	0.81 U	0.81 U	1300	5.7
Jun-07	0.81 U	0.81 U	1000	0.81 U
Sep-07	0.81 U	0.81 U	1200	0.81 U
Dec-07	0.81 U	0.81 U	790	0.81 U
Mar-08	0.81 U	0.81 U	370	0.81 U
Sep-08	0.5 U	0.5 U	920	0.5 U
Mar-09	0.5 U	0.5 U	680	0.5 U
Sep-09	0.29 U	0.29 U	2400	0.29 U
May-10	0.30 U	0.30 U	660	0.30 U
Sep-10	0.5 U	0.5 U	1020	0.5 U
Mar-11	0.5 U	1.0 U	123 I	0.5 U
Sep-11	0.5 U	0.5 U	0.73 I	0.5 U
Mar-12	0.5 U	0.5 U	1.4	0.5 U
Sep-12	0.5 U	0.5 U	0.5 U	0.5 U
Mar-13	0.5 U	0.5 U	3.4	0.5 U
Sep-13	0.5 U	0.5 U	0.5 U	0.5 U
Mar-14	0.5 U	0.5 U	0.5 U	0.5 U
Sep-14	0.5 U	0.5 U	1.3	0.5 U
Mar-15	----	0.5 U	1.3	0.5 U
Sep-15	0.5 U	0.5 U	0.5 U	0.5 U
Mar-16	0.5 U	0.5 U	1.10	0.5 U
Sep-16	0.5 U	0.5 U	0.5 U	0.5 U
Sep-17	0.5 U	0.5 U	0.5 U	0.5 U

Notes: U = Non-detect or below the Detection Limit.
I = Analyte detected below the Practical Quantitation Limit.
Yellow Highlight = Exceeded Primary Drinking Water Standard (62-550 F.A.C.) of 7 µg/L.
µg/L = micrograms per liter.
--- = not analyzed.

Attachment 2b.
Historical Benzene (µg/L) Detected Data - B5 Area Assessment Monitoring
Tomoka Farms Road Landfill, Volusia County, Florida

Aquifer Zone	Zone 1-2		Zone 4	
Date	B5-35	B5-37A	B5-28	B5-37B
Jun-04	0.31 U	1.1	3.9	8
Oct-04	0.23 U	1.2	5	6.4
Dec-04	0.23 U	1.1	4.1	5.6
Mar-05	0.23 U	0.23 U	1.2 U	1.5
Jun-05	0.23 U	----	----	----
Sep-05	0.23 U	1.2	2.6	4.1
Dec-05	0.23 U	1.1	1.5	3.5
Mar-06	0.23 U	1.1	2	3.7
Jun-06	0.16 U	1	1.2	4.4
Sep-06	0.16 U	0.81 I	2.3	3.2
Dec-06	0.16 U	1.2	3.3	4.2
Feb-07	0.16 U	0.5 I	3	0.98 I
Jun-07	0.16 U	1	5.7	3.3
Sep-07	0.16 U	0.67 I	7.3 I	2.2
Dec-07	0.16 U	0.61 I	16 U	3.4
Mar-08	0.16 U	0.56 I	16 U	3.4
Sep-08	0.5 U	0.78 I	25 U	5.8
Mar-09	0.5 U	0.5 U	50 U	3.6
Sep-09	0.21 U	0.36 I	6.4	1.2
May-10	0.39 I	0.39 I	6.5	2.8
Sep-10	0.5 U	0.5 U	7.9	2.7
Mar-11	0.5 U	1.0 U	75.0 U	1.7
Sep-11	0.5 U	0.5 U	1.2	2
Mar-12	0.5 U	0.5 U	1	1.3
Sep-12	0.5 U	0.5 U	0.73 I	1.3
Mar-13	0.5	0.5 U	1.1	2
Sep-13	0.1 U	0.1 U	1	1.1
Mar-14	0.1 U	0.1 U	0.85 I	1.9
Sep-14	0.3 I	0.1 U	1.1	2.4
Mar-15	----	0.11 I	1.1	2.5
Sep-15	0.1 U	0.11 I	1.3	2.8
Mar-16	0.1 U	0.1 U	1.3	2.0
Sep-16	0.1 U	0.1 U	0.78 I	2.1
Sep-17	1.5 U	0.1 U	0.28 I	0.1 U

Notes: U = Non-detect or below the Detection Limit.
I = Analyte detected below the Practical Quantitation Limit.
Yellow Highlight = Exceeded Primary Drinking Water Standard (62-550 F.A.C.) of 1µg/L.
µg/L = micrograms per liter.
--- = not analyzed.

Attachment 2c.

**Historical cis-1,2-Dichloroethene (µg/L) Detected Data - B5 Area Assessment Monitoring
Tomoka Farms Road Landfill, Volusia County, Florida**

Aquifer Zone		Zone 1-2		Zone 4	
Date	B5-35	B5-37A	B5-28	B5-37B	
Jun-04	0.15 U	0.15 U	6.7	0.15 U	
Oct-04	0.17 U	0.17 U	230	0.17 U	
Dec-04	0.17 U	0.17 U	800	0.17 U	
Mar-05	0.17 U	0.17 U	77	0.17 U	
Jun-05	0.17 U	----	----	----	
Sep-05	0.17 U	3.4	1700	7	
Dec-05	0.17 U	0.17 U	390	0.17 U	
Mar-06	0.17 U	0.17 U	3600	0.17 U	
Jun-06	0.92 U	0.92 U	3400	0.92 U	
Sep-06	0.92 U	18	5700	8.4	
Dec-06	0.92 U	5.3	9000	7.3	
Feb-07	0.92 U	0.92 U	6700	26	
Jun-07	0.92 U	0.92 U	7100	0.92 U	
Sep-07	0.92 U	0.92 U	10000	0.92 U	
Dec-07	0.92 U	0.92 U	7000	0.92 U	
Mar-08	0.92 U	0.92 U	4700	0.92 U	
Sep-08	0.5 U	0.5 U	7700	0.5 U	
Mar-09	0.5 U	0.5 U	7400	0.5 U	
Sep-09	0.28 U	0.28 U	14000	0.28 U	
May-10	0.28 U	0.28 U	4200	0.28 U	
Sep-10	0.5 U	0.5 U	4490	0.50 U	
Mar-11	0.8 I	1.0 U	780	0.5 U	
Sep-11	0.5 U	0.5 U	6.8	0.5 U	
Mar-12	0.5 U	0.5 U	15	0.5 U	
Sep-12	0.5 U	0.5 U	8.1	0.5 U	
Mar-13	0.5 U	0.5 U	72.7	0.5 U	
Sep-13	0.5 U	0.5 U	5.4	0.5 U	
Mar-14	0.5 U	0.5 U	1.4	0.5 U	
Sep-14	0.5 U	0.5 U	4.5	0.93 I	
Mar-15	----	0.5 U	22.1	0.77 I	
Sep-15	0.5 U	0.5 U	44.1	0.84 I	
Mar-16	0.5 U	0.5 U	59.3	0.61 I	
Sep-16	0.5 U	0.5 U	0.59 I	0.5 U	
Sep-17	0.5 U	0.5 U	0.83 I	0.96 I	

Notes: U = Non-detect or below the Detection Limit.

I = Analyte detected below the Practical Quantitation Limit.

Yellow Highlight = Exceeded Primary Drinking Water Standard (62-550 F.A.C.) of 70 µg/L.

µg/L = micrograms per liter.

--- = not analyzed.

Attachment 2d.
Historical Trichloroethene (µg/L) Detected Data - B5 Area Assessment Monitoring
Tomoka Farms Road Landfill, Volusia County, Florida

Aquifer Zone	Zone 1-2		Zone 4	
Date	B5-37A	B5-35	B5-28	B5-37B
Jun-04	0.15 U	0.15 U	0.15 U	0.15 U
Oct-04	0.27 U	0.27 U	0.79 I	0.27 U
Dec-04	0.27 U	0.27 U	2.4	0.27 U
Mar-05	0.27 U	0.27 U	1.4 U	0.27 U
Jun-05	----	0.27 U	----	----
Sep-05	0.27 U	0.27 U	0.82 I	0.27 U
Dec-05	0.27 U	0.27 U	0.33 I	0.27 U
Mar-06	0.27 U	0.27 U	82	0.27 U
Jun-06	0.61 U	0.61 U	34	0.61 U
Sep-06	0.67 I	0.61 U	110	0.61 U
Dec-06	0.61 U	0.61 U	57	0.61 U
Feb-07	0.61 U	0.61 U	250	0.68 I
Jun-07	0.61 U	0.61 U	330	0.61 U
Sep-07	0.61 U	0.61 U	4.9 U	0.61 U
Dec-07	0.61 U	0.61 U	61 U	0.61 U
Mar-08	0.61 U	0.61 U	61 U	0.61 U
Sep-08	0.5 U	0.5 U	25 U	0.5 U
Mar-09	0.5 U	0.5 U	50 U	0.5 U
Sep-09	0.36 U	0.36 U	640	0.36 U
May-10	0.36 U	0.36 U	36	0.36 U
Sep-10	0.5 U	0.5 U	23.1	0.5 U
Mar-11	0.5 U	1.0 U	75 U	0.5 U
Sep-11	0.5 U	0.5 U	0.5 U	0.5 U
Mar-12	0.5 U	0.5 U	0.5 U	0.5 U
Sep-12	0.5 U	0.5 U	0.5 U	0.5 U
Mar-13	0.5 U	0.5 U	72.1	0.5 U
Sep-13	0.5 U	0.5 U	0.5 U	0.5 U
Mar-14	0.5 U	0.5 U	0.5 U	0.5 U
Sep-14	0.5 U	0.5 U	21.6	0.5 U
Mar-15	0.5 U	----	0.5 U	0.5 U
Sep-15	0.5 U	0.5 U	0.5 U	0.5 U
Mar-16	0.5 U	0.5 U	0.5 U	0.5 U
Sep-16	0.5 U	0.5 U	0.5 U	0.5 U
Sep-17	0.5 U	0.5 U	0.5 U	0.5 U

Notes:

U = Non-detect or below the Detection Limit.

I = Analyte detected below the Practical Quantitation Limit.

Yellow Highlight = Exceeded Primary Drinking Water Standard (62-550 F.A.C.) of 3 µg/L.

µg/L = micrograms per liter.

--- = not analyzed.

Attachment 2e.
Historical Vinyl Chloride (µg/L) Detected Data - B5 Area Assessment Monitoring
Tomoka Farms Road Landfill, Volusia County, Florida

Aquifer Zone	Zone 1-2		Zone 4	
Date	B5-35	B5-37A	B5-28	B5-37B
Jun-04	0.14 U	0.14 U	520	0.14 U
Oct-04	0.43 U	0.43 U	2600	0.43 U
Dec-04	0.43 U	0.43 U	3000	0.43 U
Mar-05	0.43 U	0.87 I	500	1.1
Jun-05	0.43 U	----	----	----
Sep-05	0.43 U	3.7	3000	7.4
Dec-05	0.43 U	0.43 U	550	0.43 U
Mar-06	0.43 U	0.43 U	2700	0.43 U
Jun-06	0.37 U	0.37 U	2000	0.37 U
Sep-06	0.37 U	8.5	4800	3.7
Dec-06	0.37 U	0.91 I	6100	1.2
Feb-07	0.37 U	0.37 U	5800	18
Jun-07	0.37 U	0.37 U	12000	0.37 U
Sep-07	0.37 U	0.37 U	10000	0.37 U
Dec-07	0.37 U	0.37 U	11000	0.37 U
Mar-08	0.37 U	0.37 U	6600	0.37 U
Sep-08	0.53 U	0.53 U	11000	0.53 U
Mar-09	0.53 U	0.53 U	12000	0.53 U
Sep-09	0.37 U	0.37 U	8500	0.37 U
May-10	0.40 U	0.40 U	2000	0.40 U
Sep-10	0.5 U	0.5 U	2460	0.5 U
Mar-11	0.58 I	1.0 U	596	0.5 U
Sep-11	0.5 U	0.5 U	185	0.5 U
Mar-12	0.5 U	0.5 U	48.2	0.5 U
Sep-12	0.5 U	0.5 U	45.3	0.5 U
Mar-13	33.3	0.5 U	341	0.5 U
Sep-13	11.2	0.5 U	112	0.5 U
Mar-14	0.64 I	0.5 U	23.7	0.5 U
Sep-14	2.1	0.5 U	13.8	0.5 U
Mar-15	----	0.5 U	57.5	0.5 U
Sep-15	0.5 U	0.5 U	290 J	0.5 U
Mar-16	0.5 U	0.5 U	651 L	0.5 U
Sep-16	0.5 U	0.5 U	4.6	0.5 U
Sep-17	0.5 U	0.5 U	3.9	0.63 I

Notes: U = Non-detect or below the Detection Limit.
I = Analyte detected below the Practical Quantitation Limit.
J = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L = Off-scale high and the actual value is known to be higher than the value given.
Yellow Highlight = Exceeded Primary Drinking Water Standard (62-550 F.A.C.) of 1 µg/L.
µg/L = micrograms per liter.
--- = not analyzed.

Attachment 2f.
Historical Xylenes (µg/L) Detected Data- B5 Area Assessment Monitoring
Tomoka Farms Road Landfill, Volusia County, Florida

Aquifer Zone	Zone 1-2		Zone 4	
Date	B5-35	B5-37A	B5-28	B5-37B
Jun-04	0.72 I	0.65 I	22	1.5
Oct-04	0.32 U	0.65 I	46	1.1
Dec-04	0.32 U	0.32 U	33	1.1
Mar-05	0.32 U	0.32 U	3.6 I	0.32 U
Jun-05	0.32 U	----	----	----
Sep-05	0.32 U	0.68 I	14	1.3
Dec-05	0.32 U	0.32 U	2.6	0.32 I
Mar-06	0.32 U	0.32 U	12	0.86 I
Jun-06	0.32 U	0.32 U	6.4	0.48 I
Sep-06	0.32 U	0.43 I	15	0.57 I
Dec-06	0.77 I	0.37 I	25	0.78 I
Feb-07	0.32 U	0.32 U	19	0.32 U
Jun-07	0.32 U	0.32 U	34	0.72 I
Sep-07	0.32 U	0.32 U	53	0.32 U
Dec-07	0.32 U	0.32 U	32 U	0.32 U
Mar-08	0.32 U	0.32 U	32 U	1.6
Sep-08	1 U	1 U	50 U	1 U
Mar-09	1 U	1 U	100 U	1 U
Sep-09	0.63 I	0.59 U	23	0.59 U
May-10	0.63 U	0.63 U	8.7	0.96 I
Sep-10	0.5 U	0.5 U	9.9	1.2
Mar-11	1.8	1.0 U	75	2.4
Sep-11	0.5 U	0.60 I	0.5 U	1.3
Mar-12	0.5 U	0.87 I	0.93 I	1.4
Sep-12	0.5 U	0.58 I	0.5 U	0.86 I
Mar-13	1.7	0.5	0.5 U	1.1
Sep-13	0.5 U	0.5 U	0.5 U	0.76 I
Mar-14	0.5 U	0.5 U	0.5 U	0.93 I
Sep-14	0.67 I	0.5 U	0.5 U	0.93 I
Mar-15	----	0.5 U	0.5 U	0.5 U
Sep-15	0.5 U	0.5 U	0.5 U	0.5 U
Mar-16	1.5 U	1.5 U	1.5 U	1.5 U
Sep-16	1.5 U	1.5 U	1.5 U	1.5 U
Sep-17	1.5 U	1.5 U	1.5 U	1.5 U

Notes: U = Non-detect or below the Detection Limit.
I = Analyte detected below the Practical Quantitation Limit.
Yellow Highlight = Exceeded Groundwater Cleanup Target Level (62-777 F.A.C.) of 20 µg/L.
µg/L = micrograms per liter.
--- = not analyzed.

Attachment 3
Historical Benzene Detected Data – B37 Area
Assessment Monitoring

Attachment 3.
Historical Benzene (µg/L) Detected Data - B37 Area Assessment Monitoring
Tomoka Farms Road Landfill, Volusia County, Florida

Aquifer Zone	Zone 4				
	B37-1	B37-3	B37-6	B37-8	B37-13
Jun-04	13	6.9	4.5	0.31 U	0.31 U
Oct-04	13	6.2	0.23 U	0.23 U	8.8
Dec-04	9.3	6.3	1.1	0.23 U	5
Mar-05	4.5	3.7	0.23 U	0.23 U	7.7
Jun-05	8.8	3.5	0.23 U	0.23 U	6.9
Sep-05	8.2	3.6	0.23 U	0.23 U	6.4
Dec-05	12	6.9	6	0.23 U	6.1
Mar-06	14	7.9	7.9	0.23 U	4.2
Jun-06	12	7.7	9.1	0.16 U	6.7
Sep-06	12	4.1	2.6	0.16 U	4.6
Dec-06	16	7.7	9.8	0.16 U	3.8
Feb-07	10	7.4	10	0.16 U	3.8
Jun-07	13	6.6	9.7	0.16 U	6.5
Sep-07	14	6.7	9	0.16 U	5.9
Dec-07	12	6.8	12	0.16 U	7.1
Mar-08	12	5	11	0.16 U	6.8
Sep-08	13	5.8	10	0.5 U	11
Mar-09	12	5	12	0.5 U	8.4
Sep-09	11	4.2	10	0.21 U	8.4
May-10	12	3.9	9.2	0.30 U	13
Sep-10	10.3	4.3	9.4	0.5 U	12.7
Mar-11	10.8	5	9.3	0.5 U	12.2
Sep-11	11.4	4.2	7.4	0.5 U	14.2
Mar-12	10	3	7.8	0.5 U	10.1
Sep-12	9.1	0.1 U	0.1 U	0.1 U	5.1
Mar-13	9.6	3.3	8.2	0.1 U	13.2
Sep-13	9.5	0.1 U	0.1 U	0.1 U	3.9
Mar-14	2.4	2.7	1.6	0.1 U	3.9
Sep-14	11.4	2.6	6.6	0.1 U	13.1
Mar-15	10.1	2.3	4.9	0.1 U	4.0
Sep-15	10.6	2.7	4.6	0.1 U	12.6
Mar-16	11.1	3.6	5.1	0.1 U	6.5
Sep-16	8.8	11.9	3.7	0.1 U	0.1 U
Sep-17	4.2	2.7	2.8	0.1 U	10.1

Notes:

U = Non-detect or below the Detection Limit.

I = Analyte detected below the Practical Quantitation Limit.

Yellow Highlight = Exceeded Primary Drinking Water Standard (62-550 F.A.C.) of 1µg/L.

µg/L = micrograms per liter.

--- = not analyzed.

Attachment 4
Historical Detected
Groundwater VOCs Data
- Post Remediation Status Monitoring

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
1,1-Dichloroethane	10/20/08	µg/L	70***	<0.5	----	----	----	----	----	----	----	----	----
1,1-Dichloroethane	04/20/09	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.87 I
1,1-Dichloroethane	07/13/09	µg/L	70***	<1.0	----	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<3.0
1,1-Dichloroethane	09/01/09	µg/L	70***	<0.63	----	<0.21	<0.21	<21	<21	<0.21	<42	<2.1	<42
1,1-Dichloroethane	09/14/09	µg/L	70***	<21	----	<10	<4.2	<100	<21	<0.21	<42	<2.1	<42
1,1-Dichloroethane	09/28/09	µg/L	70***	<21	----	<10	<4.2	<100	<21	<0.21	<42	<2.1	<42
1,1-Dichloroethane	10/14/09	µg/L	70***	<21	----	<10	<4.2	<100	<21	<0.21	<42	<2.1	<42
1,1-Dichloroethane	11/09/09	µg/L	70***	<21	----	<10	<4.2	<100	<21	<0.21	<42	<2.1	<42
1,1-Dichloroethane	12/07/09	µg/L	70***	<21	----	<2.1	<4.2	<100	<21	<0.63	<10	<2.1	<100
1,1-Dichloroethane	03/09/10	µg/L	70***	<21	----	<0.21	<0.21	<100	<21	<0.42	<10	<2.1	<100
1,1-Dichloroethane	06/02/10	µg/L	70***	<21	----	<10	<4.2	<100	<21	<0.63	<10	<2.1	<100
1,1-Dichloroethane	09/09/10	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	12/06/10	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	03/07/11	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	07/07/11	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	09/27/11	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	12/28/11	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	03/14/12	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	09/24/12	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	03/07/13	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	09/18/13	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	03/12/14	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	09/15/14	µg/L	70***	<0.5	----	----	----	----	----	----	----	<0.5	<0.5
1,1-Dichloroethane	03/10/15	µg/L	70***	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
1,1-Dichloroethane	09/15/15	µg/L	70***	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
1,1-Dichloroethane	11/10/15	µg/L	70***	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----
1,1-Dichloroethane	03/16/16	µg/L	70***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	09/27/16	µg/L	70***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	09/28/17	µg/L	70***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	10/20/08	µg/L	7*	510	----	----	----	----	----	----	----	----	----
1,1-Dichloroethene	04/20/09	µg/L	7*	1,900	----	8.1	4.6	2,400	50	32	450	<0.5	410
1,1-Dichloroethene	07/13/09	µg/L	7*	1,900	----	37	1.8	860	42	5.8	240	<10	880
1,1-Dichloroethene	09/01/09	µg/L	7*	2,400	----	58	1.9	910	76 I	10	150 I	<2.9	1,200
1,1-Dichloroethene	09/14/09	µg/L	7*	2,600	----	62	<5.0	760	380	9.8	120 I	<2.9	1,400
1,1-Dichloroethene	09/28/09	µg/L	7*	1,900	----	130	<5.0	820	320	12	170 I	<2.9	1,800
1,1-Dichloroethene	10/14/09	µg/L	7*	2,000	----	94	<5.0	730	250	19	160 I	<2.9	2,000
1,1-Dichloroethene	11/09/09	µg/L	7*	1,800	----	<14	130	1,200	350	16	190 I	<2.9	2,100
1,1-Dichloroethene	12/07/09	µg/L	7*	1,700	----	230	<5.0	1,200	290	13	140	<2.9	1,600
1,1-Dichloroethene	03/09/10	µg/L	7*	740	----	160	3	1,400	350	1.3 I	240	<3	2,300
1,1-Dichloroethene	06/02/10	µg/L	7*	1,500	----	50	8.4 I	540	160	<0.9	130	<3	2,800
1,1-Dichloroethene	09/09/10	µg/L	7*	483	----	22.3	55.6	282	155	1.4	70.8	<0.5	3,020
1,1-Dichloroethene	12/06/10	µg/L	7*	155	----	5.8	138	401	288	3	27.3	<0.5	3,060
1,1-Dichloroethene	03/07/11	µg/L	7*	342	----	4.9	150	289	290	1	15.9	0.51 I	2,780

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
1,1-Dichloroethene	07/07/11	µg/L	7*	2.4	----	313	192	2	247	<0.5	11.8	0.66 I	2,100
1,1-Dichloroethene	09/27/11	µg/L	7*	1.9	----	<0.5	200	90.6	117	<0.5	5.7	0.58 I	1,320 J
1,1-Dichloroethene	12/28/11	µg/L	7*	1.4 J	----	1.1 J	336	131 J	122 J	<0.5	3.2 J	6.2 J	2,940 J
1,1-Dichloroethene	03/14/12	µg/L	7*	<0.5	----	<0.5	236	157	95.5	<0.5	55.3	<0.5	1,210
1,1-Dichloroethene	09/24/12	µg/L	7*	<1	----	<0.5	207	171	57.1	<0.5	63.6	4.6	1,430
1,1-Dichloroethene	03/07/13	µg/L	7*	3.4	----	0.79	24.7	51.4	22.6	<0.5	1.8	0.85	916
1,1-Dichloroethene	09/18/13	µg/L	7*	<0.5	----	<0.5	253 J	174	0.85 I	<0.5	0.92 I	<0.5	174
1,1-Dichloroethene	03/11/14	µg/L	7*	<0.5	----	4.2	118	35	2.6	2.9	9.1	<0.5	1,450
1,1-Dichloroethene	09/15/14	µg/L	7*	1.3	----	----	----	----	----	----	----	6.1	1,050
1,1-Dichloroethene	03/10/15	µg/L	7*	1.3	----	----	----	----	----	----	174	<0.5	312
1,1-Dichloroethene	09/15/15	µg/L	7*	<0.5	----	<0.5	2.3	4.9	2.3	----	163	0.83 I	245
1,1-Dichloroethene	11/10/15	µg/L	7*	----	<0.5	299	2	4.9	3.2	<0.5	----	----	----
1,1-Dichloroethene	03/16/16	µg/L	7*	1.1	<0.5	4.2	362 L	1.1	2.3	<0.5	139	2.3	74.2
1,1-Dichloroethene	09/27/16	µg/L	7*	<0.5	<0.5	2.8	598	<0.5	4.1	7.3	101	2.9	9.9
1,1-Dichloroethene	09/28/17	µg/L	7*	<0.5	<0.5	11.2	229	<0.5	4	645	1,290	2	2.3
Benzene	10/20/08	µg/L	1*	11	----	----	----	----	----	----	----	----	----
Benzene	04/20/09	µg/L	1*	10	----	7.3	1.3	10	<0.5	3.6	<0.5	<0.5	4.4
Benzene	07/13/09	µg/L	1*	11	----	6.9	<1.0	7.4	<1.0	3.6	1.2 I	<10	3.8
Benzene	09/01/09	µg/L	1*	6.4	----	7.4	0.41 I	<21	<21	4.1	<42	<2.1	<42
Benzene	09/14/09	µg/L	1*	<21	----	<10	<4.2	<100	<21	3.9	<42	<2.1	<42
Benzene	09/28/09	µg/L	1*	<21	----	<10	<4.2	<100	<21	3.6	<42	<2.1	<42
Benzene	10/14/09	µg/L	1*	<21	----	<10	<4.2	<100	<21	3.9	<42	<2.1	<42
Benzene	11/09/09	µg/L	1*	<21	----	<10	4.8 I	<100	<21	3.5	<42	<2.1	<42
Benzene	12/07/09	µg/L	1*	<21	----	6.2 I	<4.2	<100	<21	3.2	<10	<2.1	<100
Benzene	03/09/10	µg/L	1*	<30	----	7.6	<0.3	<150	<30	3.7	<15	<3	<150
Benzene	06/02/10	µg/L	1*	<30	----	<15	<6	<150	<30	2.5 I	<15	<3	<150
Benzene	09/09/10	µg/L	1*	7.4	----	7	<0.5	11.4	1.3	4.7	3.5	<0.5	9.2
Benzene	12/06/10	µg/L	1*	5.6	----	6.9	<0.5	13.4	<2.5	3.7	3.5	<0.5	6.8
Benzene	03/07/11	µg/L	1*	2.8	----	6	<0.5	12.1	1.2	4.1	3.7	<0.5	2.5
Benzene	07/07/11	µg/L	1*	1.3	----	13.6	1	6.8	1.8	4.5	4.6	<0.5	5.4
Benzene	09/27/11	µg/L	1*	1	----	4.7	1.1	10.8	2	4.5	3.1	<0.5	7.1
Benzene	12/28/11	µg/L	1*	1.4	----	6.4	1.7	13.7	2.6	4.8	4.2 J	<0.5	8.6
Benzene	03/14/12	µg/L	1*	<0.5	----	3.4	<0.5	12	<0.5	<0.5	1.9	<0.5	2.2
Benzene	09/24/12	µg/L	1*	0.58	----	3.9	1.6	9.7	1.7	3.5	4.3	0.35	5.2
Benzene	03/07/13	µg/L	1*	1.1	----	5.2	0.55	12.4	0.92	5.9	2.3	0.15	5.5
Benzene	09/18/13	µg/L	1*	1	----	5.2	1.3 J	14.8	0.11 I	6.5	3.8	0.17 I	0.32 I
Benzene	03/11/14	µg/L	1*	0.85 I	----	5.6	2	12.3	<0.1	<0.1	2.9	<0.1	4.8
Benzene	09/15/14	µg/L	1*	1.1	----	----	----	----	----	----	----	0.13 I	4.8
Benzene	03/10/15	µg/L	1*	1.1	----	----	----	----	----	----	3.8	<0.1	3.8 I
Benzene	09/15/15	µg/L	1*	1.3	----	----	----	----	----	----	4.1	0.21 I	3.3
Benzene	11/10/15	µg/L	1*	----	<0.1	2	<0.1	4.3	2.4	3.4	----	----	----
Benzene	03/16/16	µg/L	1*	1.3	<0.1	5.0	2.4	4.4	2.8	4.9	3.8	0.31 I	1.8
Benzene	09/27/16	µg/L	1*	0.78 I	<0.1	4.6	2.5	2.7	2.6	5.5	3.5	<0.1	1.3

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
Benzene	09/28/17	µg/L	1*	0.28 l	<0.1	3.9	1.5	0.99 l	0.78 l	6.2	4.7	0.33 l	1.4
Chlorobenzene	10/20/08	µg/L	100*	2.1	----	----	----	----	----	----	----	----	----
Chlorobenzene	04/20/09	µg/L	100*	2	----	1.5	<5.0	<5.0	<5.0	3.3	<5.0	<5.0	<5.0
Chlorobenzene	07/13/09	µg/L	100*	2.3	----	2	<1.0	0.78 l	<1.0	4.8	<3.0	<10	1.5 l
Chlorobenzene	09/01/09	µg/L	100*	1.5 l	----	2.3	<0.23	<23	<23	5.6	<46	<2.3	<46
Chlorobenzene	09/14/09	µg/L	100*	<23	----	<12	<4.6	<120	<23	5.2	<46	<2.3	<46
Chlorobenzene	09/28/09	µg/L	100*	<23	----	<12	<4.6	<120	<23	5.3	<46	<2.3	<46
Chlorobenzene	10/14/09	µg/L	100*	<23	----	<12	<4.6	<120	<23	5.6	<46	<2.3	<46
Chlorobenzene	11/09/09	µg/L	100*	<23	----	<12	<4.6	<120	<23	5.7	<46	<2.3	<46
Chlorobenzene	12/07/09	µg/L	100*	<23	----	<2.3	<4.6	<120	<23	4.8	<12	<2.3	<120
Chlorobenzene	03/09/10	µg/L	100*	<23	----	2.7	<0.23	<120	<23	5.9	<12	<2.3	<120
Chlorobenzene	06/02/10	µg/L	100*	<23	----	<12	<4.6	<120	<23	3.9	<12	<2.3	<120
Chlorobenzene	09/09/10	µg/L	100*	1.7	----	2.4	<0.5	1.6	<0.5	6.3	3	<0.5	2.9
Chlorobenzene	12/06/10	µg/L	100*	2.3	----	2.7	<0.5	1.7	<2.5	6.1	3.3	<0.5	3
Chlorobenzene	03/07/11	µg/L	100*	<0.5	----	<0.5	<0.5	<0.5	<0.5	6.1	<0.5	<0.5	<0.5
Chlorobenzene	07/07/11	µg/L	100*	2.7	----	2.3	<0.5	3.2	<0.5	8.2	7.2	<0.5	5
Chlorobenzene	09/27/11	µg/L	100*	2.7	----	2.3	<0.5	1.8	<0.5	6.1	5.4	<0.5	4.2
Chlorobenzene	12/28/11	µg/L	100*	4	----	3	<0.5	<0.5	<0.5	7.4	<0.5	<0.5	5
Chlorobenzene	03/14/12	µg/L	100*	0.54 l	----	<0.5	<0.5	<0.5	<0.5	1.8	3.9	<0.5	0.99 l
Chlorobenzene	09/24/12	µg/L	100*	2.4	----	2.2	<0.5	2	<0.5	5.5	4.9	<0.5	3.8
Chlorobenzene	03/07/13	µg/L	100*	3	----	3.9	<0.5	2.7	<0.5	6.3	3	<0.5	3.7
Chlorobenzene	09/18/13	µg/L	100*	2.4	----	2.9	<0.5	2.4	<0.5	<0.5	2.7	<0.5	4
Chlorobenzene	04/11/14	µg/L	100*	2.7	----	3.7	<0.5	2.4	<0.5	7	3	<0.5	4.4
Chlorobenzene	09/15/14	µg/L	100*	1.8	----	----	----	----	----	----	----	<0.5	3.7
Chlorobenzene	03/10/15	µg/L	100*	1.6	----	----	----	----	----	----	3.5	<0.5	<0.5
Chlorobenzene	09/15/15	µg/L	100*	1.4	----	----	----	----	----	----	4.3	<0.5	5.1
Chlorobenzene	11/10/15	µg/L	100*	----	<0.5	0.7 l	3.4	1.8	<0.5	5.6	----	----	----
Chlorobenzene	03/16/16	µg/L	100*	<0.5	<0.5	3.5	0.71 l	1.5	0.58 l	5.9	4.6	<0.5	5.2
Chlorobenzene	09/27/16	µg/L	100*	1.8	<0.5	3.2	0.71 l	1.2	<0.5	5.3	3.6	<0.5	6.7
Chlorobenzene	09/28/17	µg/L	100*	1.9	<0.5	2.9	<0.5	1.3	<0.5	5.9	5.1	<0.5	7.1
Chloroethane	09/24/12	µg/L	12***	<1	----	<0.5	<0.5	<0.5	13.4	<0.5	<0.5	<0.5	<0.5
Chloroethane	03/07/13	µg/L	12***	<0.5	----	<0.5	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	<0.5
Chloroethane	04/11/14	µg/L	12***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	09/15/14	µg/L	12***	<0.5	----	----	----	----	----	----	----	<0.5	<0.5
Chloroethane	03/10/15	µg/L	12***	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Chloroethane	09/15/15	µg/L	12***	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Chloroethane	11/10/15	µg/L	12***	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----
Chloroethane	03/16/16	µg/L	12***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	09/27/16	µg/L	12***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	09/28/17	µg/L	12***	<0.5	<0.5	1.31 l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	10/20/08	µg/L	70***	<0.5	----	----	----	----	----	----	----	----	----
Chloroform	04/20/09	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	07/13/09	µg/L	70***	<0.26	----	<0.26	<0.26	<0.78	<0.26	<0.26	<0.78	<2.6	2.3 l

October 2008 through September 2017

October 2008 through September 2017													
Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
Chloroform	09/01/09	µg/L	70***	6	----	<0.26	<0.26	<26	<26	<0.26	<5.02	3.6 I	<5.02
Chloroform	09/14/09	µg/L	70***	<26	----	<13	<5.0.2	<130	<26	<0.26	<5.02	<2.6	<5.02
Chloroform	09/28/09	µg/L	70***	<26	----	<13	<5.0.2	<130	<26	<0.26	<5.02	<2.6	<5.02
Chloroform	10/14/09	µg/L	70***	<26	----	<13	<5.0.2	<130	<26	<0.26	<5.02	<2.6	<5.02
Chloroform	11/09/09	µg/L	70***	<26	----	<13	<5.0.2	<130	<26	<0.26	<5.02	<2.6	<5.02
Chloroform	12/07/09	µg/L	70***	<26	----	<2.6	<5.0.2	<130	<26	<0.78	<13	<2.6	<130
Chloroform	03/09/10	µg/L	70***	<36	----	<0.36	<0.36	<180	<36	<0.72	<18	<3.6	<180
Chloroform	06/02/10	µg/L	70***	<36	----	<18	<7.2	<180	<36	<1.1	<18	<3.6	<180
Chloroform	09/09/10	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	12/06/10	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
Chloroform	03/07/11	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	07/07/11	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	09/27/11	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	12/28/11	µg/L	70***	<0.5	----	<0.5	<0.5 J	<0.5	0.77 I	<0.5	<0.5 J	<0.5	<0.5
Chloroform	03/14/12	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	09/24/12	µg/L	70***	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	03/07/13	µg/L	70***	<0.5	----	<0.5	<0.5	0.53	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	04/11/14	µg/L	70***	<0.5	----	<0.5	<0.5	1.53	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	09/15/14	µg/L	70***	<0.5	----	----	----	----	----	----	----	<0.5	<0.5
Chloroform	03/10/15	µg/L	70***	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Chloroform	09/15/15	µg/L	70***	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Chloroform	11/10/15	µg/L	70***	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----
Chloroform	03/16/16	µg/L	70***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	09/27/16	µg/L	70***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	09/28/17	µg/L	70***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane	10/20/08	µg/L	2.7***	<0.5	----	----	----	----	----	----	----	----	----
Chloromethane	04/20/09	µg/L	2.7***	<1.0	----	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<1.0
Chloromethane	07/13/09	µg/L	2.7***	<1.0	----	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<3.0
Chloromethane	09/01/09	µg/L	2.7***	<0.87	----	<0.29	<0.29	<29	<29	<0.29	<5.0	<2.9	<5.08
Chloromethane	09/14/09	µg/L	2.7***	<29	----	<14	<5.0	<					

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
Chloromethane	09/24/12	µg/L	2.7***	<0.62	----	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
Chloromethane	03/07/13	µg/L	2.7***	<0.62	----	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
Chloromethane	03/08/13	µg/L	2.7***	<0.62	----	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
Chloromethane	03/11/14	µg/L	2.7***	<0.62	----	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
Chloromethane	09/15/14	µg/L	2.7***	<0.62	----	----	----	----	----	----	----	<0.62	<0.62
Chloromethane	03/10/15	µg/L	2.7***	<0.62	----	----	----	----	----	----	<0.62	<0.62	<0.62
Chloromethane	09/15/15	µg/L	2.7***	<0.62	----	----	----	----	----	----	<0.62	<0.62	<0.62
Chloromethane	11/10/15	µg/L	2.7***	----	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	----	----	----
Chloromethane	03/16/16	µg/L	2.7***	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
Chloromethane	09/27/16	µg/L	2.7***	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
Chloromethane	09/28/17	µg/L	2.7***	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
cis-1,2-Dichloroethene	10/20/08	µg/L	70*	5,600	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethene	04/20/09	µg/L	70*	6,500	----	1,500	930	13,000	3,900	310	15,000	13	3,500
cis-1,2-Dichloroethene	07/13/09	µg/L	70*	15,000	----	650	240	7,400	880	78	4,400	29	8,400
cis-1,2-Dichloroethene	09/01/09	µg/L	70*	14,000	----	1,100	220	7,900	1,800	85	1,700	40	13,000
cis-1,2-Dichloroethene	09/14/09	µg/L	70*	15,000	----	900	240	4,700	4,900	89	1,800	42	14,000
cis-1,2-Dichloroethene	09/28/09	µg/L	70*	10,000	----	1,600	200	4,500	3,400	97	1,700	39	16,000
cis-1,2-Dichloroethene	10/14/09	µg/L	70*	11,000	----	1,300	190	3,600	3,000	140	1,700	48	19,000
cis-1,2-Dichloroethene	11/09/09	µg/L	70*	8,500	----	56	1,500	5,500	4,900	120	1,400	40	22,000
cis-1,2-Dichloroethene	12/07/09	µg/L	70*	7,600	----	2,700	99	7,200	5,000	100	860	35	20,000
cis-1,2-Dichloroethene	03/09/10	µg/L	70*	4,100	----	2,000	100	7,200	3,700	15	1,400	28	25,000
cis-1,2-Dichloroethene	06/02/10	µg/L	70*	9,300	----	680	230	3,300	2,200	7.7	800	22	24,000
cis-1,2-Dichloroethene	09/09/10	µg/L	70*	2,800	----	371	1,180	1,890	2,250	13.9	504 J	18.8	19,700
cis-1,2-Dichloroethene	12/06/10	µg/L	70*	926	----	154	2760	2450	3600	28.8	240	17.2	20000
cis-1,2-Dichloroethene	03/07/11	µg/L	70*	1840	----	126	3120	1840	<0.50	12.8	150	28	19800
cis-1,2-Dichloroethene	07/07/11	µg/L	70*	30.2	----	2750	5290	97	4650	2	170	52	17000
cis-1,2-Dichloroethene	09/27/11	µg/L	70*	23.5	----	30.3	5490	1240	3960	1.8	112	87.9	13400 J
cis-1,2-Dichloroethene	12/28/11	µg/L	70*	10.1	----	30.8	5300	845 J	4050	3.3	52.7 J	141	20600
cis-1,2-Dichloroethene	03/14/12	µg/L	70*	8.9	----	50.2	5990	903	3570	0.88 I	633	111	9400
cis-1,2-Dichloroethene	09/24/12	µg/L	70*	1	----	26.3	4,150	1,720	2,730	0.56	746	359	11,200
cis-1,2-Dichloroethene	03/07/13	µg/L	70*	72.7	----	59.4	629	1,700	759	5	34	124	6,500
cis-1,2-Dichloroethene	09/18/13	µg/L	70*	5.4	----	124	11,70 QJ	955 Q	38.4	1.2	114	99.5	15,200
cis-1,2-Dichloroethene	03/11/14	µg/L	70*	1.4	----	172	2,110	545	28.9	5.2	108	4.8	8,910
cis-1,2-Dichloroethene	09/15/14	µg/L	70*	0.5 U	----	----	----	----	----	----	----	0.91 I	165
cis-1,2-Dichloroethene	03/10/15	µg/L	70*	22.1	----	----	----	----	----	----	<3.1	35.9	1,600
cis-1,2-Dichloroethene	09/15/15	µg/L	70*	44.1	----	----	----	----	----	----	2,420	190	733
cis-1,2-Dichloroethene	01/10/15	µg/L	70*	----	<0.5	6230	108	123	189	<0.5	----	----	----
cis-1,2-Dichloroethene	03/16/16	µg/L	70*	59.3	<0.5	215 L	4,790 L	29.3	237 L	7.5	2,210	403	215 Q
cis-1,2-Dichloroethene	09/27/16	µg/L	70*	0.59 I	<0.5	167	9640	1.2	291	152	1070	438	35.7
cis-1,2-Dichloroethene	09/28/17	µg/L	70*	0.83 I	0.81 I	351	5,180	1.9	275	3600	8660	293	8.1
Ethylbenzene	09/24/12	µg/L	700*	<1	----	----	----	----	----	----	<0.5	<0.5	2.1
Ethylbenzene	03/07/13	µg/L	700*	<0.5	----	----	----	----	----	----	<0.5	<0.5	1.3
Ethylbenzene	09/18/13	µg/L	700*	<0.5	----	----	----	----	----	----	<0.5	<0.5	1

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
Ethylbenzene	03/11/14	µg/L	700*	<0.5	----	----	----	----	----	----	<0.5	<0.5	1.2
Ethylbenzene	09/15/14	µg/L	700*	<0.5	----	----	----	----	----	----	----	<0.5	0.51 l
Ethylbenzene	03/10/15	µg/L	700*	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Ethylbenzene	09/15/15	µg/L	700*	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Ethylbenzene	11/10/15	µg/L	700*	----	<0.5	0.68 l	<0.5	<0.5	<0.5	<0.5	----	----	----
Ethylbenzene	03/16/16	µg/L	700*	<0.5	<0.5	<0.5	1.0	<0.5	0.54 l	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	09/27/16	µg/L	700*	<0.5	<0.5	<0.5	1.3	<0.6	<0.5	1.7	<0.5	<0.5	<0.5
Ethylbenzene	09/28/17	µg/L	700*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	1.3	<0.5	<0.5
Tetrachloroethene	10/20/08	µg/L	3*	<0.5	----	----	----	----	----	----	----	----	----
Tetrachloroethene	04/20/09	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	07/13/09	µg/L	3*	0.84 l	----	<0.5	<0.5	<1.0	<0.5	<1.0	<3.0	<10	<3.0
Tetrachloroethene	09/01/09	µg/L	3*	<1.1	----	<0.36	<0.36	<36	<36	<0.36	<72	<3.6	<72
Tetrachloroethene	09/14/09	µg/L	3*	<36	----	<18	<7.2	<180	<36	<0.36	<72	<3.6	<72
Tetrachloroethene	09/28/09	µg/L	3*	<36	----	<18	<7.2	<180	<36	<0.36	<72	<3.6	<72
Tetrachloroethene	10/14/09	µg/L	3*	<36	----	<18	<7.2	<180	<36	<0.36	<72	<3.6	<72
Tetrachloroethene	11/09/09	µg/L	3*	<36	----	<18	<7.2	<180	<36	<0.36	<72	<3.6	<72
Tetrachloroethene	12/07/09	µg/L	3*	<36	----	<3.6	<7.2	<180	<36	<1.1	<18	<3.6	<180
Tetrachloroethene	03/09/10	µg/L	3*	<82	----	<0.82	<0.82	<410	<82	<1.6	<41	<8.2	<410
Tetrachloroethene	06/02/10	µg/L	3*	<82	----	<41	<16	<410	<82	<2.5	<41	<8.2	<410
Tetrachloroethene	09/09/10	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	12/06/10	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	03/07/11	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1
Tetrachloroethene	07/07/11	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	09/27/11	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	12/28/11	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.54 l
Tetrachloroethene	03/14/12	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	09/24/12	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	0.70 l	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	03/07/13	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	09/18/13	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	03/11/14	µg/L	3*	<0.5	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	09/15/14	µg/L	3*	<0.5	----	----	----	----	----	----	----	<0.5	<0.5
Tetrachloroethene	03/10/15	µg/L	3*	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Tetrachloroethene	09/15/15	µg/L	3*	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Tetrachloroethene	03/16/16	µg/L	3*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	09/27/16	µg/L	3*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	09/28/17	µg/L	3*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	10/20/08	µg/L	40**	110	----	----	----	----	----	----	----	----	----
Toluene	04/20/09	µg/L	40**	74	----	68	34	480	28	0.58 l	13	0.58 l	2.6
Toluene	07/13/09	µg/L	40**	79	----	54	31	160	40	<1.0	5.7	<10	8.7
Toluene	09/01/09	µg/L	40**	38	----	33	32	77 l	29 l	<0.28	<5.06	<2.8	<5.06
Toluene	09/14/09	µg/L	40**	39 l	----	22 l	24	<140	41 l	0.31 l	<5.06	<2.8	<5.06
Toluene	09/28/09	µg/L	40**	<28	----	33 l	21	<140	<28	<0.28	<5.06	<2.8	<5.06
Toluene	10/14/09	µg/L	40**	29 l	----	22 l	17 l	<140	28 l	0.29 l	<5.06	<2.8	<5.06

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
Toluene	11/09/09	µg/L	40**	<28	----	<14	18 l	<140	49 l	<0.28	<5.06	<2.8	<5.06
Toluene	12/07/09	µg/L	40**	<28	----	28	11 l	<140	61 l	<0.84	<14	<2.8	<140
Toluene	03/09/10	µg/L	40**	<28	----	18	1.8	<140	40 l	<0.56	<14	<2.8	<140
Toluene	06/02/10	µg/L	40**	<28	----	<14	<5.0	<140	40 l	<0.84	<14	<2.8	<140
Toluene	09/09/10	µg/L	40**	13.7	----	10.5	1.9	21.3	43.3	0.84 l	1.7	2.3	9.2
Toluene	12/06/10	µg/L	40**	5.1	----	6.2	4.8	21.2	54.6	0.51 l	1.2	1.4	7.9
Toluene	03/07/11	µg/L	40**	3	----	9.3	5.3	21.1	41.8	<0.5	0.59 l	0.87 l	5.6
Toluene	07/07/11	µg/L	40**	<0.5	----	28.3	8.4	7.9	63.1	<0.5	0.70 l	0.86 l	7.2
Toluene	09/27/11	µg/L	40**	<0.5	----	4.5	7.6	11.9	55.3	<0.5	<0.5	0.69 l	7
Toluene	12/28/11	µg/L	40**	<0.5	----	5.2	11.4	9.4 J	57.4	<0.5	<0.5	0.74 l	10.3
Toluene	03/14/12	µg/L	40**	<0.5	----	2.9	11.7	18.1	67.1	<0.5	<0.5	<0.5	2
Toluene	09/24/12	µg/L	40**	<1	----	2.9	8.3	15.3	25.2	<0.5	2.1	2	4.3
Toluene	03/07/13	µg/L	40**	3.5	----	1.3	28.3	10.2	0.51	0.95	<0.5	0.81	<0.5
Toluene	09/18/13	µg/L	40**	<0.5	----	3.4	4.3	31.1	0.68 l	<0.5	0.7 l	<0.5	2.7
Toluene	03/11/14	µg/L	40**	<0.5	----	6.2	10	21.4	<0.5	<0.5	<0.5	<0.5	3.1
Toluene	09/15/14	µg/L	40**	<0.5	----	----	----	----	----	----	----	<0.5	1.8
Toluene	03/10/15	µg/L	40**	<0.5	----	----	----	----	----	----	1.2	<0.5	2.8
Toluene	09/15/15	µg/L	40**	0.84 l	----	----	----	----	----	----	1.2	1.3 l	0.63
Toluene	11/10/15	µg/L	40**	----	<0.5	14.2	2.6	2.2	14.3	<0.5	----	----	----
Toluene	03/16/16	µg/L	40**	1.7	<0.5	3.7	14.7	1.3	14.7	<0.5	1.7	1.7	0.71 l
Toluene	09/27/16	µg/L	40**	<0.5	<0.5	3.2	12.7	<0.5	12.7	9.5	2.2	1.8	<0.5
Toluene	09/28/17	µg/L	40**	<0.5	<0.5	9.3	4.3	<0.5	<0.5	5	5.1	1.2	<0.5
trans-1,2-Dichloroethene	10/20/08	µg/L	100*	33	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethene	04/20/09	µg/L	100*	75	----	<0.5	0.83 l	77	4.3	2.2	50	<0.5	61
trans-1,2-Dichloroethene	07/13/09	µg/L	100*	160	----	1.2	<0.5	69	9.4	<1.0	21	<10.0	160
trans-1,2-Dichloroethene	09/01/09	µg/L	100*	110	----	9.3	1.7	130	<40	0.42 l	<80	<4	270
trans-1,2-Dichloroethene	09/14/09	µg/L	100*	140	----	<20	<8	<200	<40	<0.4	<80	<4	<80
trans-1,2-Dichloroethene	09/28/09	µg/L	100*	<74	----	<20	<8.0	<200	<40	0.44 l	<80	<4.0	300
trans-1,2-Dichloroethene	10/14/09	µg/L	100*	76 l	----	<20	<8.0	<200	<40	1	<80	<4.0	310
trans-1,2-Dichloroethene	11/09/09	µg/L	100*	71 l	----	<20	<8	<200	49 l	0.79 l	<80	<4	360
trans-1,2-Dichloroethene	12/07/09	µg/L	100*	74 l	----	11	<8	<200	59 l	<1.2	<20	<4	300 l
trans-1,2-Dichloroethene	03/09/10	µg/L	100*	<40	----	5.4	<0.4	<200	<40	<0.8	<20	<4	390 l
trans-1,2-Dichloroethene	06/02/10	µg/L	100*	<40	----	<20	<8	<200	<40	<1.2	<20	<4	560
trans-1,2-Dichloroethene	09/09/10	µg/L	100*	14.6	----	0.94 l	3.8	14.8	15.4	<0.5	2	<0.5	592
trans-1,2-Dichloroethene	12/06/10	µg/L	100*	5.4	----	<0.5	12.7	15.9	20.9	<0.5	0.76 l	<0.5	530
trans-1,2-Dichloroethene	03/07/11	µg/L	100*	17.5	----	<0.5	15.2	9.7	26.7	<0.5	0.71 l	<0.5	465
trans-1,2-Dichloroethene	07/07/11	µg/L	100*	<0.5	----	18	35.6	<0.5	40.1	<0.5	<0.5	<0.5	406
trans-1,2-Dichloroethene	09/27/11	µg/L	100*	<0.5	----	<0.5	40.9	5.6	12.5	<0.5	<0.5	<0.5	340 J
trans-1,2-Dichloroethene	12/28/11	µg/L	100*	<0.5	----	<0.5	50.6 J	5.8	24	<0.5	<0.5	1.8	577
trans-1,2-Dichloroethene	03/14/12	µg/L	100*	<0.5	----	<0.5	42.5	8.3	22.1	<0.5	6	<0.5	226
trans-1,2-Dichloroethene	09/24/12	µg/L	100*	<1	----	<0.5	42.9	7.8	9.2	<0.5	7.1	0.78	262
trans-1,2-Dichloroethene	03/07/13	µg/L	100*	0.75	----	<0.5	9.3	23	7.7	<0.5	<0.5	<0.5	184
trans-1,2-Dichloroethene	09/18/13	µg/L	100*	<0.5	----	<0.5	9.8	6.7	<0.5	<0.5	<0.5	<0.5	43.9

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
trans-1,2-Dichloroethene	03/11/14	µg/L	100*	<0.5	----	0.61 I	22.3	2.9	<0.5	<0.5	0.67 I	<0.5	231
trans-1,2-Dichloroethene	09/15/14	µg/L	100*	<0.5	----	----	----	----	----	----	----	0.91 I	165
trans-1,2-Dichloroethene	03/10/15	µg/L	100*	<0.5	----	----	----	----	----	----	10	<0.5	47.5
trans-1,2-Dichloroethene	09/15/15	µg/L	100*	<0.5	----	----	----	----	----	----	8.6	<0.5	25.2
trans-1,2-Dichloroethene	11/10/15	µg/L	100*	----	<0.5	216	<0.5	0.58 I	<0.5	<0.5	----	----	----
trans-1,2-Dichloroethene	03/16/16	µg/L	100*	<0.5	<0.5	0.78 I	111	<0.5	0.71 I	<0.5	8.8	0.91 I	3.7
trans-1,2-Dichloroethene	09/27/16	µg/L	100*	<0.5	<0.5	<0.5	28	<0.5	0.63 I	<0.5	4.2	1.0 I	<0.5
trans-1,2-Dichloroethene	09/28/17	µg/L	100*	<0.5	<0.5	1.2	15.6	<0.5	0.73 I	65.4	150	0.63 I	<0.6
Trichloroethene	10/20/08	µg/L	3*	1.5	----	----	----	----	----	----	----	----	----
Trichloroethene	04/20/09	µg/L	3*	23	----	<0.5	1	56	5.4	50	2100	1.8	2,000
Trichloroethene	07/13/09	µg/L	3*	150	----	<0.5	<0.5	400	0.52	2	450	6.4 I	11,000
Trichloroethene	09/01/09	µg/L	3*	640	----	<0.36	<0.36	390	<36	3.5	140 I	<3.6	14,000
Trichloroethene	09/14/09	µg/L	3*	720	----	<18	<7.2	<180	160	1.9	76 I	<3.6	14,000
Trichloroethene	09/28/09	µg/L	3*	240	----	<18	<7.2	<180	100	4.2	<72	<3.6	23,000
Trichloroethene	10/14/09	µg/L	3*	220	----	<18	<7.2	<180	100	7.3	130 I	<3.6	25,000
Trichloroethene	11/09/09	µg/L	3*	170	----	<18	<7.2	<180	200	5.6	130 I	<3.6	26,000
Trichloroethene	12/07/09	µg/L	3*	160	----	5.2 I	<7.2	400 I	280	3.6	100	<3.6	24,000
Trichloroethene	03/09/10	µg/L	3*	<36	----	<0.36	<0.36	<180	140	<0.72	170	<3.6	30,000
Trichloroethene	06/02/10	µg/L	3*	<36	----	<18	<7.2	<180	<36	<1.1	47 I	<3.6	43,000
Trichloroethene	09/09/10	µg/L	3*	9.1	----	<0.5	<0.5	5.8	117	<0.5	2.9 J	<0.5	44,400
Trichloroethene	12/06/10	µg/L	3*	3.6	----	<0.5	1.1	4.3	49.3	<0.5	0.84 I	<0.5	41,300
Trichloroethene	03/07/11	µg/L	3*	8.8	----	<0.5	2.4	1.9	32.6	<0.5	0.9 I	1.9	34,800
Trichloroethene	07/07/11	µg/L	3*	10.4	----	3.1	10.2	<0.5	16.8	<0.5	<0.5	3.2	35,700
Trichloroethene	09/27/11	µg/L	3*	20.3	----	<0.5	19.3	<0.5	6.4	0.67 I	<0.5	5.5	16,100 J
Trichloroethene	12/28/11	µg/L	3*	9.5	----	<0.5	<0.5	<0.5	1.6	<0.5	0.68 IJ	<0.5	50,300
Trichloroethene	03/14/12	µg/L	3*	5.6	----	<0.5	29	<0.5	2.5	<0.5	69.2	<0.5	992
Trichloroethene	09/24/12	µg/L	3*	<1	----	<0.5	5	<0.5	<0.5	<0.5	60.9	<0.5	24,200
Trichloroethene	03/07/13	µg/L	3*	72.1	----	<0.5	0.72	<0.5	<0.5	<0.5	<0.5	<0.5	9,110
Trichloroethene	09/18/13	µg/L	3*	<0.5	----	0.74 I	3 J	<0.5	<0.5	0.92 I	1.5	10.6	21,700
Trichloroethene	03/11/14	µg/L	3*	<0.5	----	15.1	21.7	27.9	13.7	50.7	38.1	<0.5	14,400
Trichloroethene	09/15/14	µg/L	3*	21.6	----	----	----	----	----	----	----	133	8,930
Trichloroethene	03/10/15	µg/L	3*	<0.5	----	----	----	----	----	----	72.8	7 I	2,130
Trichloroethene	09/15/15	µg/L	3*	<0.5	----	----	----	----	----	----	16.5	<0.5	583
Trichloroethene	11/10/15	µg/L	3*	----	<0.5	0.81 I	<0.5	<0.5	<0.5	<0.5	----	----	----
Trichloroethene	03/16/16	µg/L	3*	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	14.1	<0.5	61.7
Trichloroethene	09/27/16	µg/L	3*	<0.5	<0.5	<0.5	3.1	<0.5	<0.5	<0.5	11.4	<0.5	3.5
Trichloroethene	09/28/17	µg/L	3*	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	1310	1560	3.5	3.6
Vinyl chloride	10/20/08	µg/L	1*	8,700	----	----	----	----	----	----	----	----	----
Vinyl chloride	04/20/09	µg/L	1*	7,000	----	3,700	1,600	16,000	8,800	280	2,200	270	1,700
Vinyl chloride	07/13/09	µg/L	1*	10,000	----	3,400	880	9,400	2,400	100	870	290	1,500
Vinyl chloride	09/01/09	µg/L	1*	8,500	----	3,700	1,300	8,500	2,200	130	500	480	1,600
Vinyl chloride	09/14/09	µg/L	1*	8,600	----	2,700	1,300	6,200	4,900	170	530	580	2,200
Vinyl chloride	09/28/09	µg/L	1*	7,000	----	4,500	1,300	7,500	3,700	140	610	610	2,600

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
Vinyl chloride	10/14/09	µg/L	1*	6,200	----	2,700	1,200	7,400	3,900	190	520	800	2,700
Vinyl chloride	11/09/09	µg/L	1*	4,800	----	430	2,700	8,700	5,900	160	380	670	2,600
Vinyl chloride	12/07/09	µg/L	1*	2,300	----	4,400	610	10,000	5,300	120	160	380	1,600
Vinyl chloride	03/09/10	µg/L	1*	1,600	----	2,500	370	7,700	5,000	47	410	350	1,500
Vinyl chloride	06/02/10	µg/L	1*	4,200	----	1,200	480	4,700	4,100	41	400	300	1,300
Vinyl chloride	09/09/10	µg/L	1*	1,930	----	1,030	1,010	2,280	3,080	57	428 J	350	909
Vinyl chloride	12/06/10	µg/L	1*	593	----	633	1,720	2,470	3,960	79	360	229	839
Vinyl chloride	03/07/11	µg/L	1*	875	----	856	2,190	2,690	3,640	42	418	459	748
Vinyl chloride	07/07/11	µg/L	1*	367	----	2,650	2,590	513	3,960	13	367	454	703
Vinyl chloride	09/27/11	µg/L	1*	163	----	163 J	2,470	1,550	3,770	18	208	509	618 J
Vinyl chloride	12/28/11	µg/L	1*	51.6	----	809	4300	2420 J	<0.5	44.3	256 J	770	1,620
Vinyl chloride	03/14/12	µg/L	1*	33.5	----	658	3,420	1,390	3,690	16.6	452	304	672
Vinyl chloride	09/24/12	µg/L	1*	15.7	----	431	2,990	3,830	4,440	7.1	363	709	1,160
Vinyl chloride	03/07/13	µg/L	1*	341	----	410	689	3,380	1,180	18.4	62.3	271	1,140
Vinyl chloride	09/18/13	µg/L	1*	112	----	812	474 Q	2,510 Q	24.8	1.4	480	1,000	91.5
Vinyl chloride	03/11/14	µg/L	1*	23.7	----	819	1,420	3,030	7	1.2	295	6.4	768
Vinyl chloride	09/15/14	µg/L	1*	13.8	----	----	----	----	----	----	----	297	523
Vinyl chloride	03/10/15	µg/L	1*	57.5	----	----	----	----	----	----	321	465	151
Vinyl chloride	09/15/15	µg/L	1*	290 J	----	----	----	----	----	----	566	926	202
Vinyl chloride	11/10/15	µg/L	1*	----	<0.5	7,990	727	870	2,430	13.4	----	----	----
Vinyl chloride	03/16/16	µg/L	1*	651 L	<0.5	1,090 L	4,670 L	406 L	2,940 L	8.1	714	1,250	92.9
Vinyl chloride	09/27/16	µg/L	1*	4.6	<0.5	1,430	7,890	15.7	3,280	303	1,570	1,250	45.6
Vinyl chloride	09/28/17	µg/L	1*	3.9	0.89 I	2,450	3,070	1.4	1,110	1,060	1,940	1,080	9.9
Xylenes, Total	10/20/08	µg/L	20**	59	----	----	----	----	----	----	----	----	----
Xylenes, Total	04/20/09	µg/L	20**	49	----	16	3.4	120	7.5	<1.0	3.6	<1.0	1.5 I
Xylenes, Total	07/13/09	µg/L	20**	57	----	14	<1.0	95	3.1	<3.0	<9.0	<30	<9.0
Xylenes, Total	09/01/09	µg/L	20**	23	----	9.9	0.63 I	<5.09	<5.09	<0.59	<120	<5.0.9	<120
Xylenes, Total	09/14/09	µg/L	20**	<5.09	----	<30	<12	<300	<5.09	<0.59	<120	<5.0.9	<120
Xylenes, Total	09/28/09	µg/L	20**	<5.09	----	<30	<12	<300	<5.09	<0.59	<120	<5.0.9	<120
Xylenes, Total	10/14/09	µg/L	20**	<5.09	----	<30	<12	<300	<5.09	<0.59	<120	<5.0.9	<120
Xylenes, Total	11/09/09	µg/L	20**	<5.09	----	<30	<12	<300	<5.09	<0.59	<120	<5.0.9	<120
Xylenes, Total	12/07/09	µg/L	20**	<5.09	----	9 I	<12	<300	<5.09	<1.8	<30	<5.0.9	<300
Xylenes, Total	03/09/10	µg/L	20**	<63	----	9.9	<0.63	<320	<63	<1.3	<32	<6.3	<320
Xylenes, Total	06/02/10	µg/L	20**	<63	----	<32	<13	<320	<63	<1.9	<32	<6.3	<320
Xylenes, Total	09/09/10	µg/L	20**	7.5	----	7.7	0.53 I	60.5	5.6	1	0.93 I	1	7.6
Xylenes, Total	12/06/10	µg/L	20**	3.7	----	5.4	<0.5	57.8	5.1	0.77 I	0.76 I	0.77 I	6.3
Xylenes, Total	03/07/11	µg/L	20**	7.5	----	11.5	5.5	55.8	8.8	5.7	5.8	5.4	9
Xylenes, Total	07/07/11	µg/L	20**	0.75 I	----	51.6	1.3	7.9	7.1	0.93 I	1.1	<0.5	6.1
Xylenes, Total	09/27/11	µg/L	20**	<0.5	----	3.7	1	23.6	6.1	0.87 I	<0.5	<0.5	7.4
Xylenes, Total	12/28/11	µg/L	20**	1.5	----	4.8	2.9	33.8	7.9	1.8	5.9	1.4	6.3
Xylenes, Total	03/14/12	µg/L	20**	<0.5	----	1.6	0.78 I	33.8	6.4	<0.5	<0.5	<0.5	1.5
Xylenes, Total	09/24/12	µg/L	20**	<1	----	2.7	2.5	32.6	6.6	0.56	<0.5	<0.5	6.8

Attachment 4
Historical Organic Compounds Detected in Groundwater
B5 Area Remediation, Tomoka Farms Landfill, Volusia County, Florida
October 2008 through September 2017

Parameter	Date	Units	Standard	B5-28	MW100-6	TMW-1A	TMW-1B	TMW-2A	TMW-2B	TMW-3A	TMW-3B	TMW-4B	TMW-5B
Xylenes, Total	03/07/13	µg/L	20**	<0.6	----	1.1	<0.6	51.5	1.6	0.56	0.57	<0.6	1.2
Xylenes, Total	09/18/13	µg/L	20**	<0.5	----	2.3	0.85 l	50.1	1.4	0.53 l	0.54 l	<0.5	2.6
Xylenes, Total	03/12/14	µg/L	20**	<0.5	----	2.5	25	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
Xylenes, Total	09/15/14	µg/L	20**	<0.5	----	----	----	----	----	----	----	<0.5	1.4
Xylenes, Total	03/10/15	µg/L	20**	<0.5	----	----	----	----	----	----	<0.5	<5	<12.5
Xylenes, Total	09/15/15	µg/L	20**	<0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5
Xylenes, Total	11/10/15	µg/L	20**	----	<1.5	6.3	1.8 l	<1.5	7.9	1.9 l	----	----	----
Xylenes, Total	03/16/16	µg/L	20**	<1.5	<1.5	3.2	7.0	<1.5	6.9	<1.5	<1.5	<1.5	<1.5
Xylenes, Total	09/27/16	µg/L	20**	<1.5	<1.5	3.6	7.7	<1.5	5.7	7.3	<1.5	<1.5	<1.5
Xylenes, Total	09/28/17	µg/L	20**	<1.5	<1.5	4.3	<1.5	<1.5	<1.5	7.2	3.8	<1.5	<1.5

NOTES:

NS = No Standard.

--- = Parameter not analyzed; µg/l = micrograms per liter.

J - Estimated value. Laboratory quality control was outside control limits.

l = Indicates a result greater or equal to the MDL but less than the reporting limit (RL)

L - Off scale high and the actual concentration is known to be higher than the value given.

V = Parameter detected in the associated Method Blank.

Q = Sample held beyond the accepted holding time.

*PDWS = Primary Drinking Water Standard (Chapter 62-550, F.A.C.)

**SDWS = Secondary Drinking Water Standard (Chapter 62-550, F.A.C.)

***GCTL = Groundwater Cleanup Target Level (Chapter 62-777, F.A.C.)

The October 20, 2008 sample was collected at well B5-28 prior to performing the pilot test, which was performed on the same day simulating an actual RegenOx injection.

The samples collected the week of April 20, 2009 were collected prior to the RegenOx injection events (except the pilot test) and are considered the baseline concentrations.

The first round of chemical injections of RegenOx were performed June 22 through July 3, 2009.

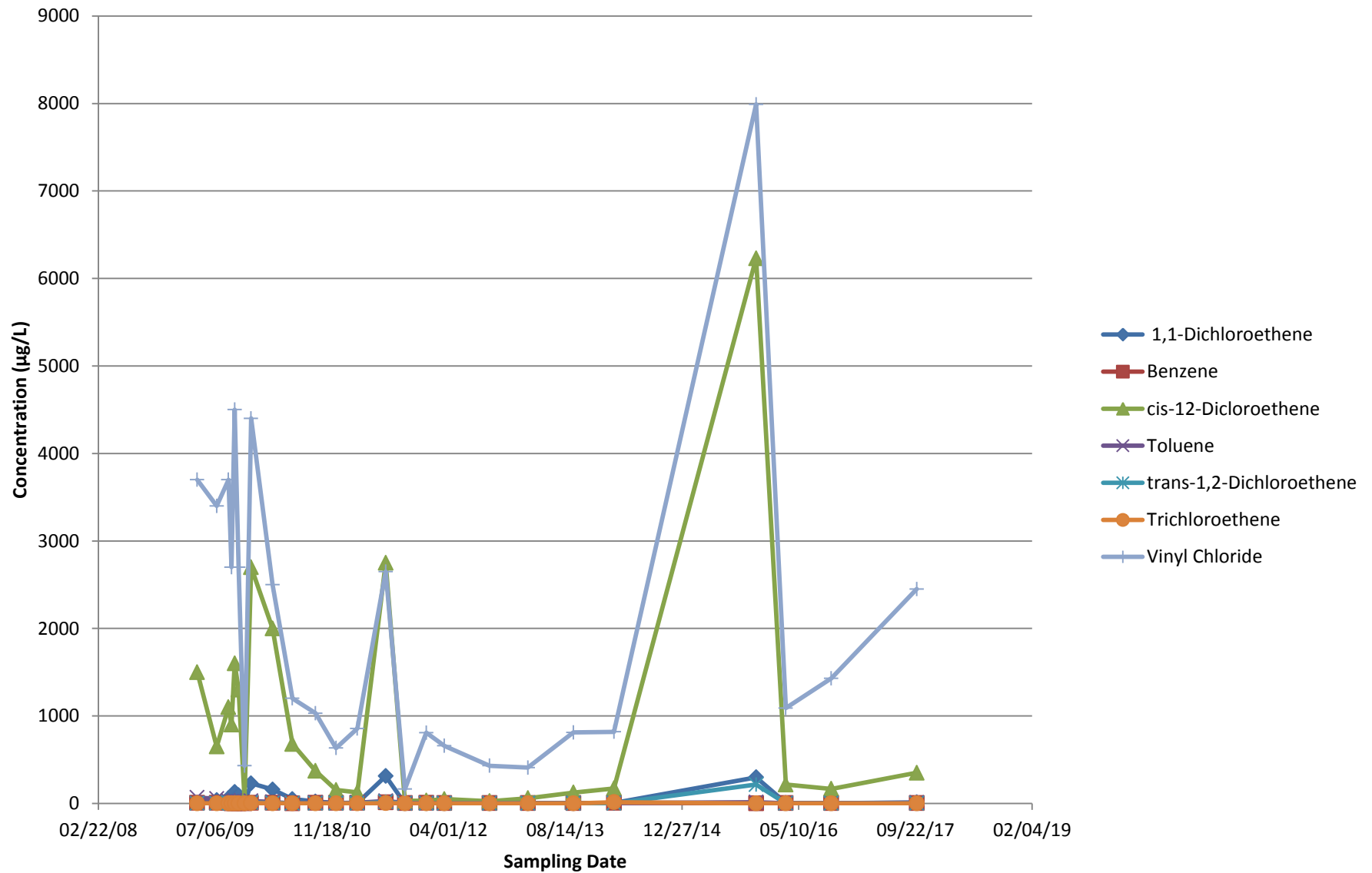
The second round of chemical injections of RegenOx & ORC were performed August 10 through 20, 2009.

A yellow high-lighted cell indicates the result is above the respective standard.

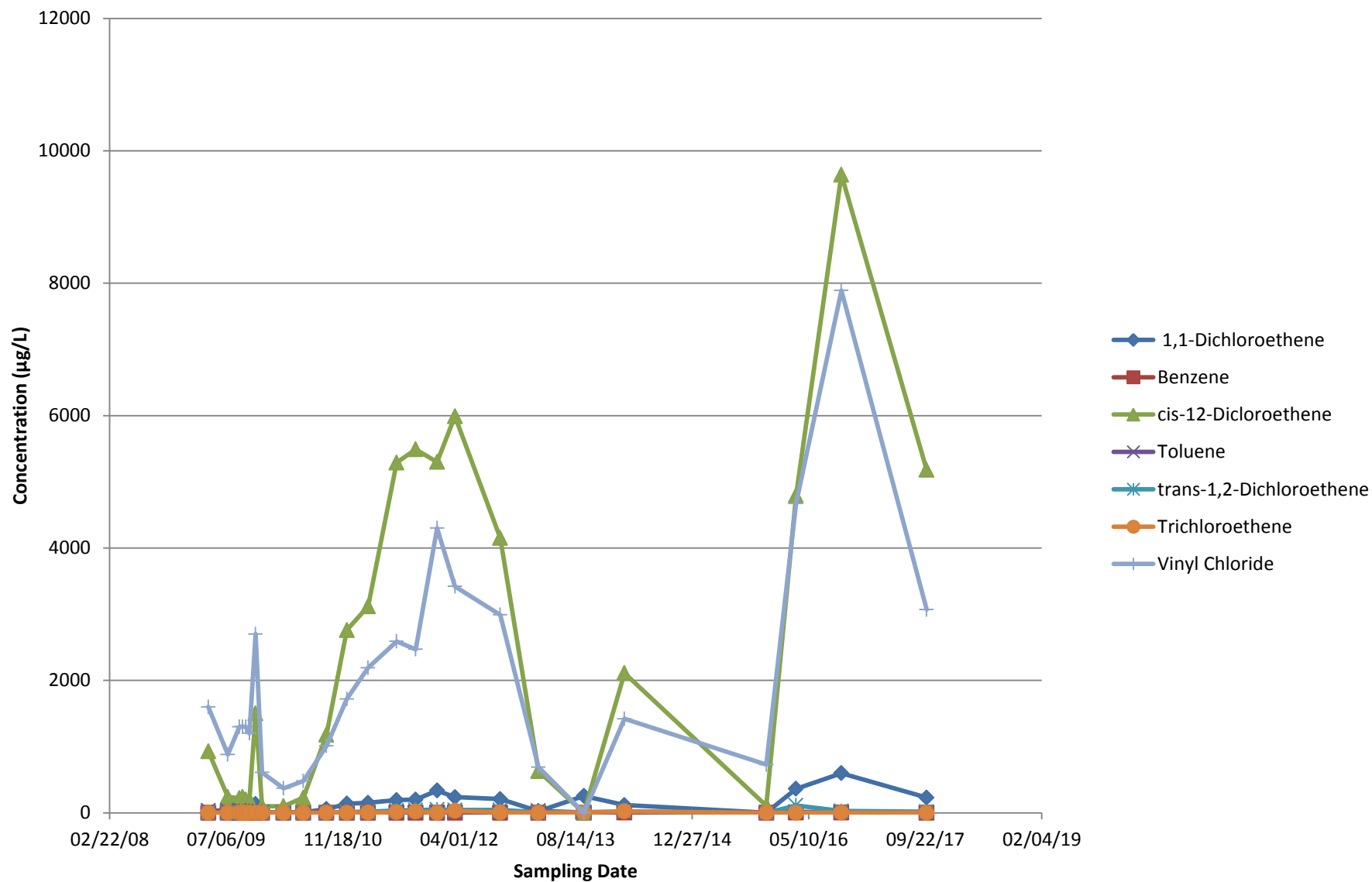
Attachment 5
Time Series Plots of VOC Concentrations
- Post Remediation Status Monitoring

Time Series Plots of VOC Concentrations

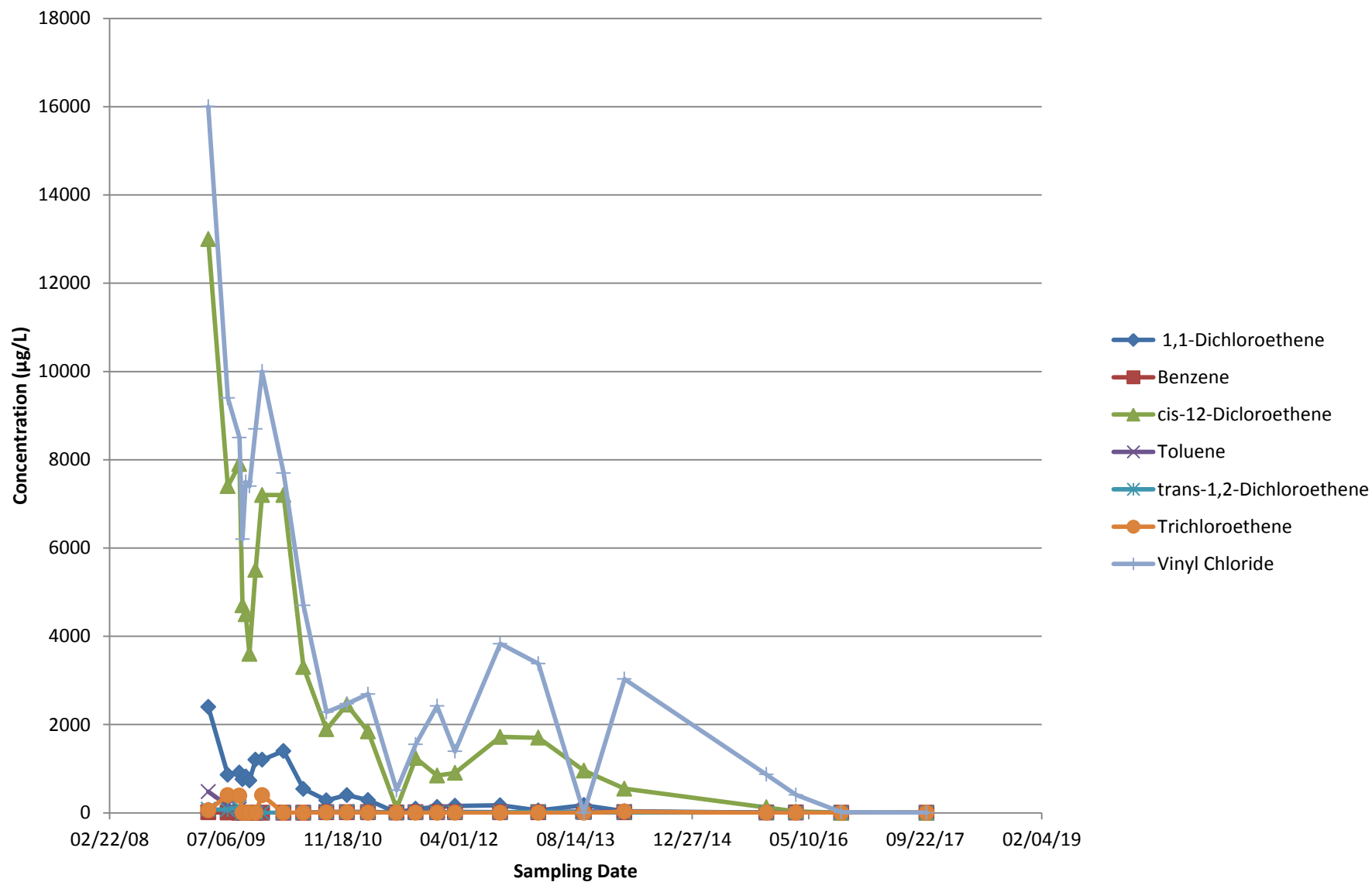
TMW-1A - TFRL



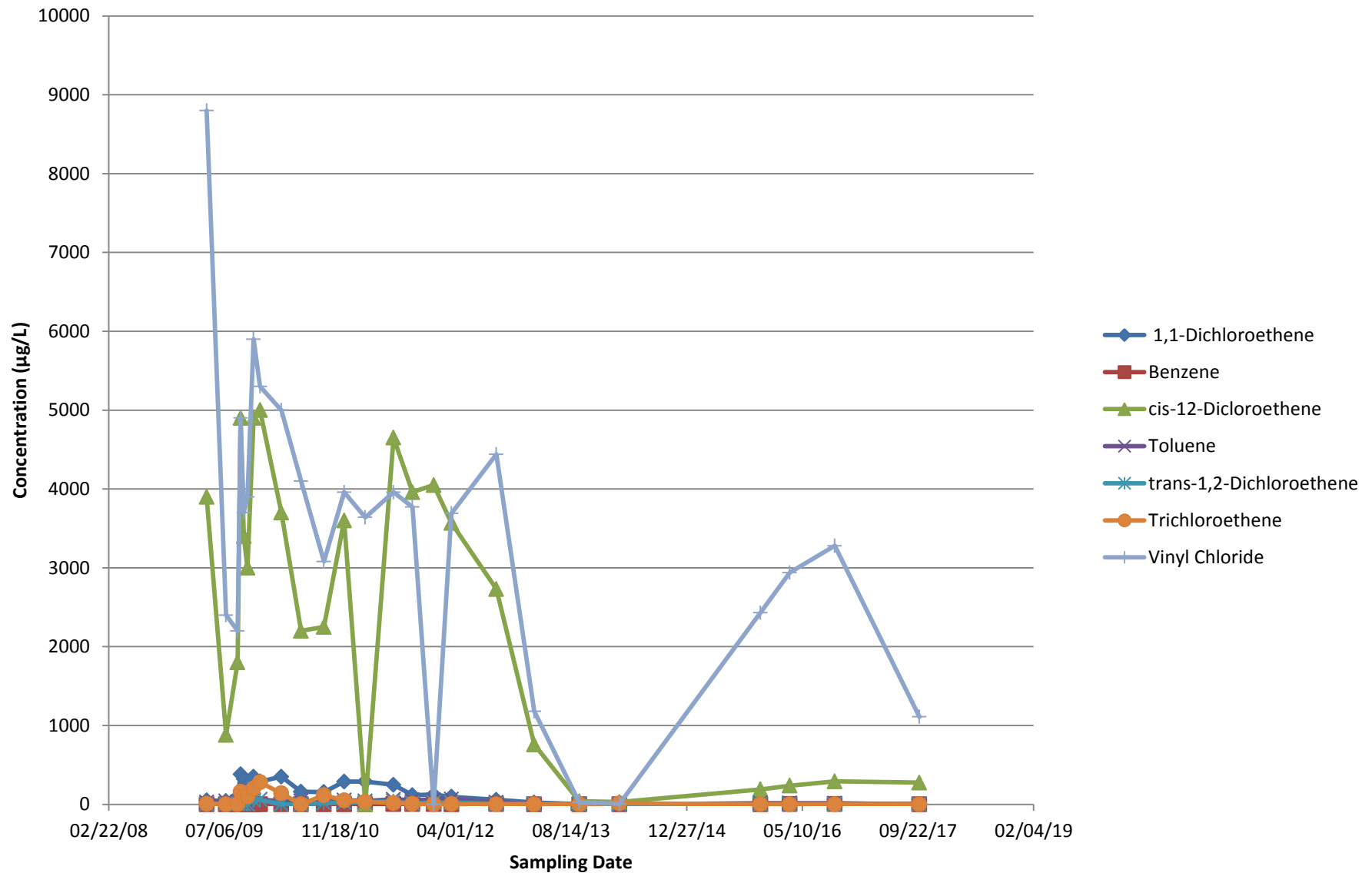
Time Series Plots of VOC Concentrations TMW-1B - TFRL



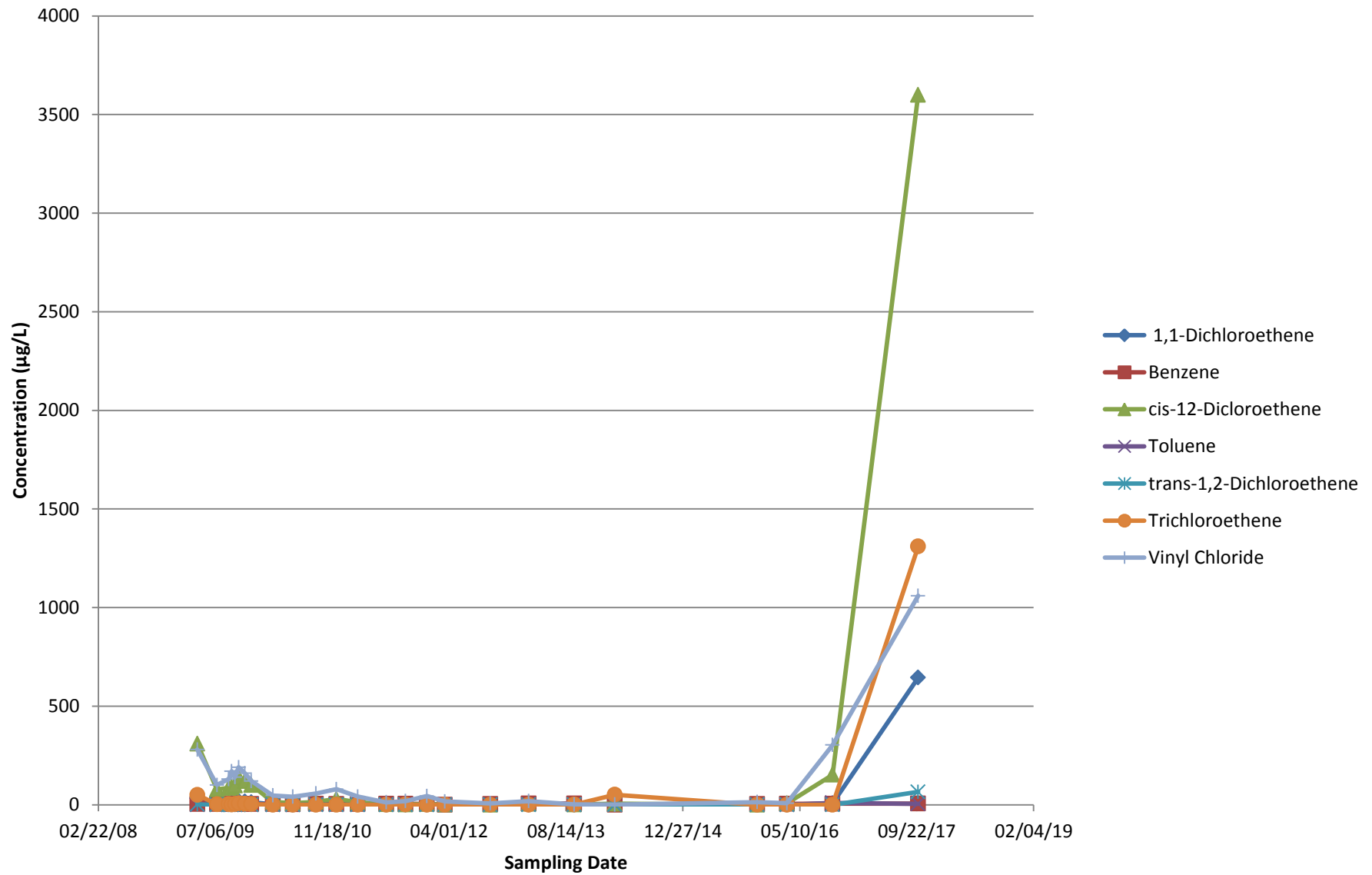
Time Series Plots of VOC Concentrations TMW-2A - TFRL



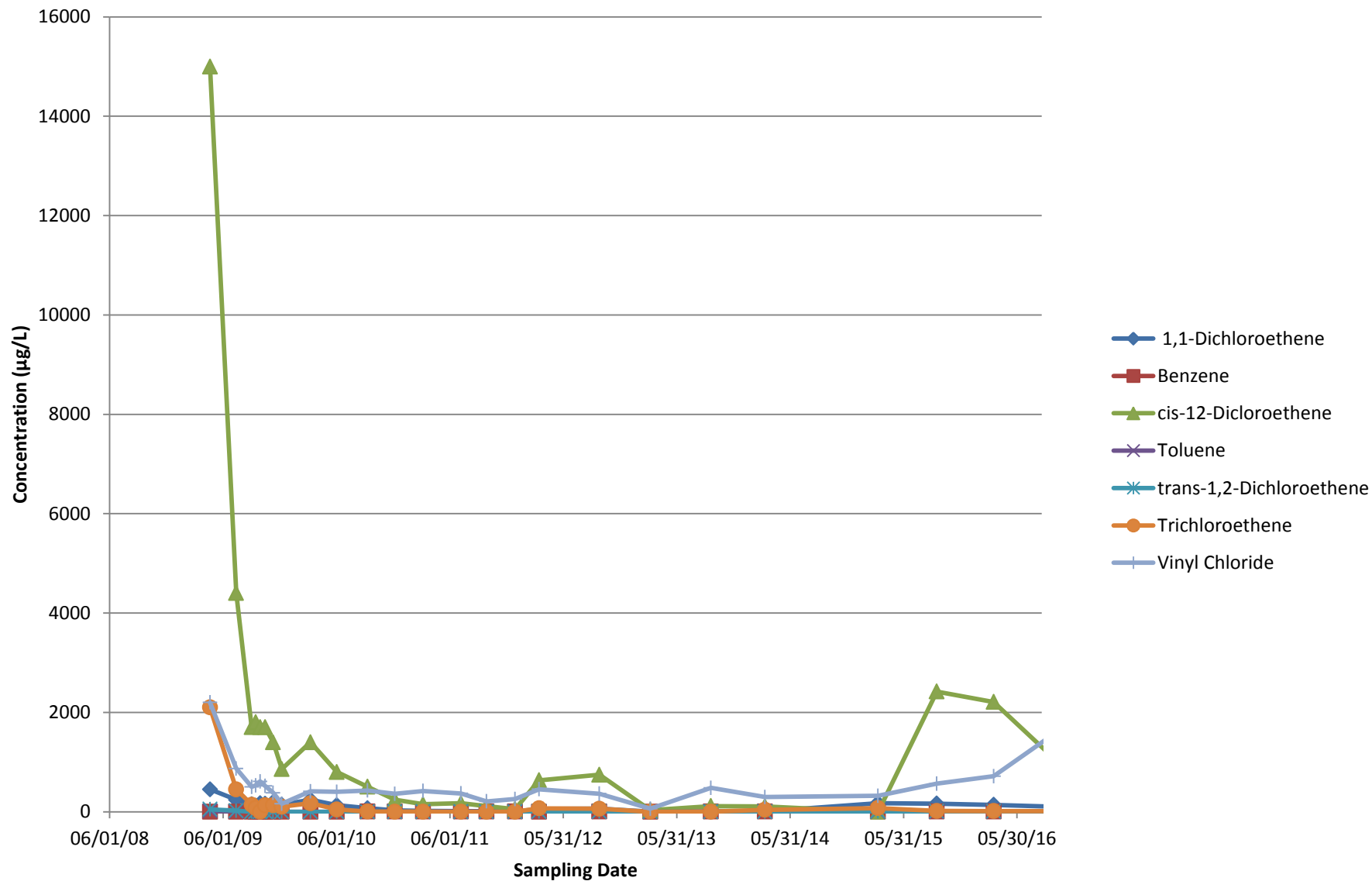
Time Series Plots of VOC Concentraions TMW-2B - TFRL



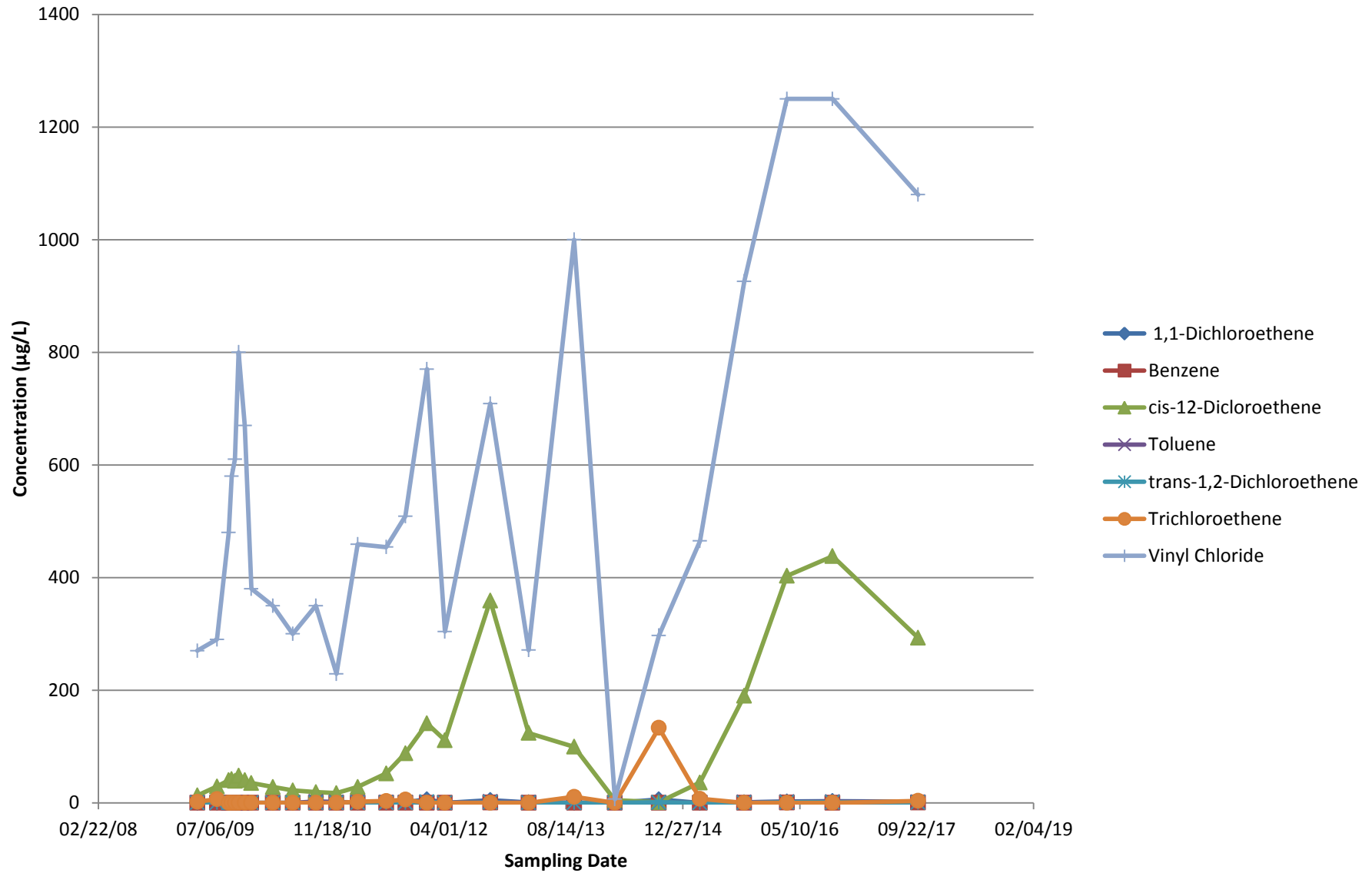
Time Series Plots of VOC Concentrations TMW-3A - TFRL



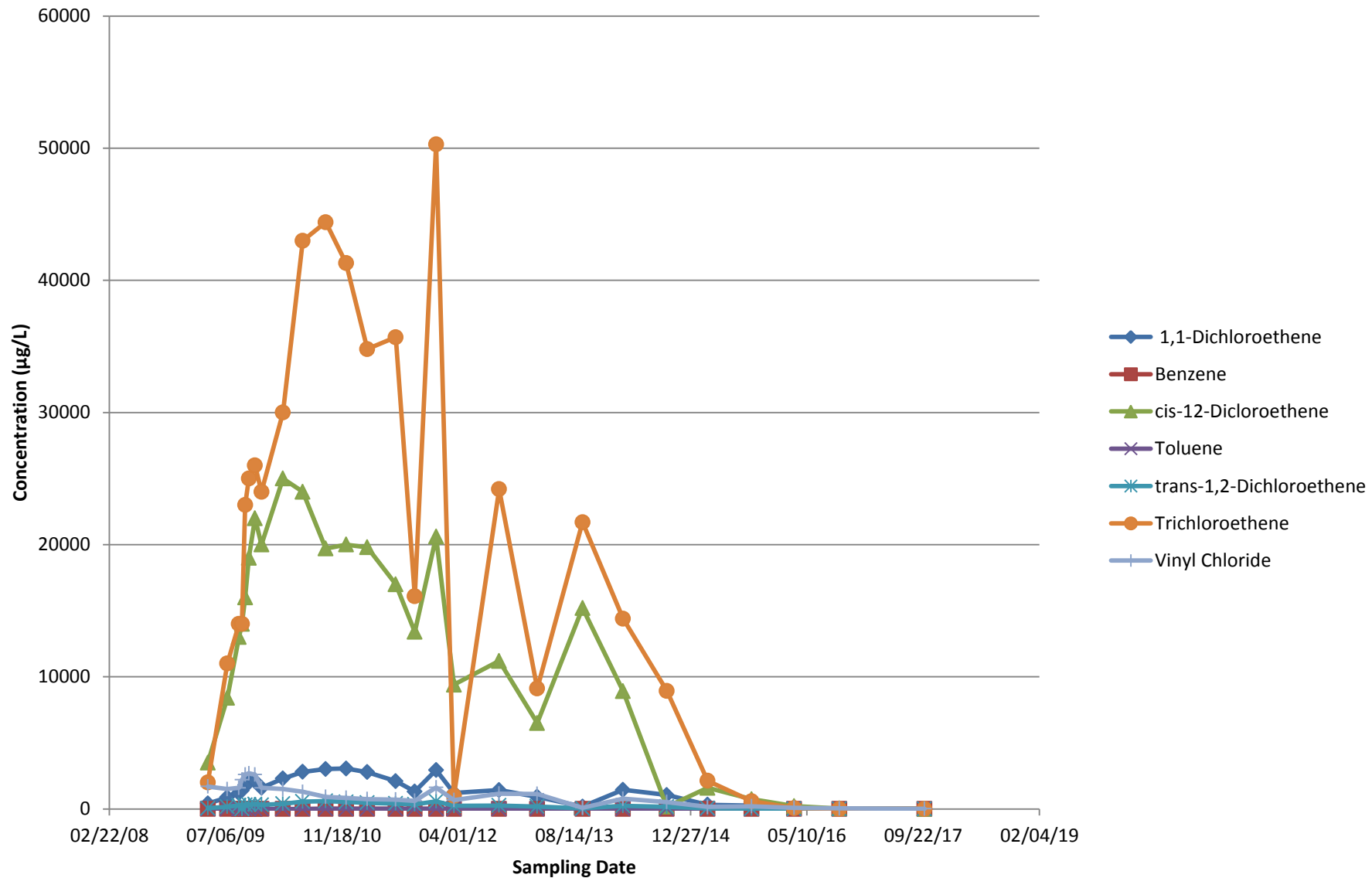
Time Series Plots of VOC Concentrations TMW-3B - TFRL



Time Series Plots of VOC Concentrations TMW-4B - TFRL



Time Series Plots of VOC Concentrations TMW-5B - TFR1



Attachment 6
Laboratory Reports and Field Data Sheets
– Assessment Monitoring

October 04, 2017

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF B5/37 Study
Pace Project No.: 35338860

Dear Ms. Stirk:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, HDR Engineering, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35338860001	EQ BLK 9/28/17	Water	09/28/17 08:47	09/28/17 16:25
35338860002	B5-35	Water	09/28/17 09:10	09/28/17 16:25
35338860003	B5-35 DUP	Water	09/28/17 09:10	09/28/17 16:25
35338860004	B5-37A	Water	09/28/17 09:44	09/28/17 16:25
35338860005	B5-37B	Water	09/28/17 10:23	09/28/17 16:25
35338860006	B37-1	Water	09/28/17 11:33	09/28/17 16:25
35338860007	B37-8	Water	09/28/17 12:19	09/28/17 16:25
35338860008	B37-6	Water	09/28/17 13:40	09/28/17 16:25
35338860009	B37-13	Water	09/28/17 14:39	09/28/17 16:25
35338860010	B37-3	Water	09/28/17 15:36	09/28/17 16:25
35338860011	TRIP BLANK 9/28/17	Water	09/28/17 00:01	09/28/17 16:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338860001	EQ BLK 9/28/17	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860002	B5-35	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860003	B5-35 DUP	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860004	B5-37A	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860005	B5-37B	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860006	B37-1	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860007	B37-8	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860008	B37-6	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860009	B37-13	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860010	B37-3	EPA 8011	SMH	2	PASI-O
		EPA 8260	BTN	48	PASI-O
35338860011	TRIP BLANK 9/28/17	EPA 8260	BTN	50	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338860002	B5-35					
	Field pH	6.33	Std. Units		10/02/17 11:48	
	Field Temperature	26.2	deg C		10/02/17 11:48	
	Field Specific Conductance	645	umhos/cm		10/02/17 11:48	
	Oxygen, Dissolved	0.17	mg/L		10/02/17 11:48	
	REDOX	-45.5	mV		10/02/17 11:48	
	Turbidity	6.30	NTU		10/02/17 11:48	
	Depth to Water	2.20	feet		10/02/17 11:48	
35338860003	B5-35 DUP					
	Field pH	6.33	Std. Units		10/02/17 11:50	
	Field Temperature	26.2	deg C		10/02/17 11:50	
	Field Specific Conductance	645	umhos/cm		10/02/17 11:50	
	Oxygen, Dissolved	0.17	mg/L		10/02/17 11:50	
	REDOX	-45.5	mV		10/02/17 11:50	
	Turbidity	6.30	NTU		10/02/17 11:50	
	Depth to Water	2.20	feet		10/02/17 11:50	
35338860004	B5-37A					
	Field pH	6.45	Std. Units		10/02/17 11:51	
	Field Temperature	24.9	deg C		10/02/17 11:51	
	Field Specific Conductance	1392	umhos/cm		10/02/17 11:51	
	Oxygen, Dissolved	0.11	mg/L		10/02/17 11:51	
	REDOX	-83.7	mV		10/02/17 11:51	
	Turbidity	5.15	NTU		10/02/17 11:51	
	Depth to Water	1.75	feet		10/02/17 11:51	
EPA 8260	Chlorobenzene	4.4	ug/L	1.0	10/02/17 02:12	
35338860005	B5-37B					
	Field pH	6.36	Std. Units		10/02/17 11:51	
	Field Temperature	23.5	deg C		10/02/17 11:51	
	Field Specific Conductance	1737	umhos/cm		10/02/17 11:51	
	Oxygen, Dissolved	0.10	mg/L		10/02/17 11:51	
	REDOX	-69.8	mV		10/02/17 11:51	
	Turbidity	2.74	NTU		10/02/17 11:51	
	Depth to Water	1.40	feet		10/02/17 11:51	
EPA 8260	Benzene	2.0	ug/L	1.0	10/02/17 02:37	
EPA 8260	Chlorobenzene	10.9	ug/L	1.0	10/02/17 02:37	
EPA 8260	cis-1,2-Dichloroethene	0.96 l	ug/L	1.0	10/02/17 02:37	
EPA 8260	Vinyl chloride	0.63 l	ug/L	1.0	10/02/17 02:37	
35338860006	B37-1					
	Field pH	6.19	Std. Units		10/02/17 11:52	
	Field Temperature	25.9	deg C		10/02/17 11:52	
	Field Specific Conductance	1709	umhos/cm		10/02/17 11:52	
	Oxygen, Dissolved	0.14	mg/L		10/02/17 11:52	
	REDOX	-49.3	mV		10/02/17 11:52	
	Turbidity	4.77	NTU		10/02/17 11:52	
	Depth to Water	0.90	feet		10/02/17 11:52	
EPA 8260	Benzene	4.2	ug/L	1.0	10/02/17 03:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338860006	B37-1					
EPA 8260	Chlorobenzene	2.8	ug/L	1.0	10/02/17 03:03	
EPA 8260	cis-1,2-Dichloroethene	0.66 l	ug/L	1.0	10/02/17 03:03	
EPA 8260	Vinyl chloride	0.83 l	ug/L	1.0	10/02/17 03:03	
EPA 8260	Xylene (Total)	3.9	ug/L	3.0	10/02/17 03:03	
35338860007	B37-8					
	Field pH	5.43	Std. Units		10/02/17 11:54	
	Field Temperature	24.6	deg C		10/02/17 11:54	
	Field Specific Conductance	192	umhos/cm		10/02/17 11:54	
	Oxygen, Dissolved	0.08	mg/L		10/02/17 11:54	
	REDOX	58.7	mV		10/02/17 11:54	
	Turbidity	1.03	NTU		10/02/17 11:54	
	Depth to Water	4.55	feet		10/02/17 11:54	
35338860008	B37-6					
	Field pH	6.32	Std. Units		10/02/17 11:54	
	Field Temperature	24.6	deg C		10/02/17 11:54	
	Field Specific Conductance	1263	umhos/cm		10/02/17 11:54	
	Oxygen, Dissolved	0.12	mg/L		10/02/17 11:54	
	REDOX	-56.7	mV		10/02/17 11:54	
	Turbidity	9.07	NTU		10/02/17 11:54	
	Depth to Water	5.45	feet		10/02/17 11:54	
EPA 8260	Benzene	2.8	ug/L	1.0	10/02/17 03:54	
EPA 8260	Chlorobenzene	1.9	ug/L	1.0	10/02/17 03:54	
35338860009	B37-13					
	Field pH	6.38	Std. Units		10/02/17 11:55	
	Field Temperature	24.9	deg C		10/02/17 11:55	
	Field Specific Conductance	2132	umhos/cm		10/02/17 11:55	
	Oxygen, Dissolved	0.09	mg/L		10/02/17 11:55	
	REDOX	-86.2	mV		10/02/17 11:55	
	Turbidity	2.56	NTU		10/02/17 11:55	
	Depth to Water	4.55	feet		10/02/17 11:55	
EPA 8260	Benzene	10.1	ug/L	1.0	10/02/17 04:19	
EPA 8260	Chlorobenzene	9.6	ug/L	1.0	10/02/17 04:19	
EPA 8260	1,4-Dichlorobenzene	0.52 l	ug/L	1.0	10/02/17 04:19	
EPA 8260	Toluene	0.58 l	ug/L	1.0	10/02/17 04:19	
EPA 8260	Xylene (Total)	5.3	ug/L	3.0	10/02/17 04:19	
35338860010	B37-3					
	Field pH	6.26	Std. Units		10/02/17 11:56	
	Field Temperature	24.4	deg C		10/02/17 11:56	
	Field Specific Conductance	1588	umhos/cm		10/02/17 11:56	
	Oxygen, Dissolved	0.05	mg/L		10/02/17 11:56	
	REDOX	-73.2	mV		10/02/17 11:56	
	Turbidity	0.68	NTU		10/02/17 11:56	
	Depth to Water	3.45	feet		10/02/17 11:56	
EPA 8260	Benzene	2.7	ug/L	1.0	10/02/17 04:45	
EPA 8260	Chlorobenzene	1.1	ug/L	1.0	10/02/17 04:45	

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SUMMARY OF DETECTION

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338860010	B37-3					
EPA 8260	Xylene (Total)	1.6	I ug/L	3.0	10/02/17 04:45	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: EQ BLK 9/28/17 **Lab ID:** 35338860001 **Collected:** 09/28/17 08:47 **Received:** 09/28/17 16:25 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 11:46	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	10/02/17 13:40	10/03/17 11:46	106-93-4	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/01/17 22:48	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/01/17 22:48	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/01/17 22:48	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/01/17 22:48	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/01/17 22:48	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/01/17 22:48	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/01/17 22:48	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/01/17 22:48	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/01/17 22:48	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/01/17 22:48	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/01/17 22:48	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/01/17 22:48	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/01/17 22:48	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/01/17 22:48	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/01/17 22:48	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/01/17 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/01/17 22:48	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/01/17 22:48	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/01/17 22:48	96-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: EQ BLK 9/28/17 **Lab ID: 35338860001** Collected: 09/28/17 08:47 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/01/17 22:48	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/01/17 22:48	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/01/17 22:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	89-111		1		10/01/17 22:48	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		10/01/17 22:48	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/01/17 22:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-35 **Lab ID: 35338860002** Collected: 09/28/17 09:10 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.33	Std. Units			1		10/02/17 11:48		
Field Temperature	26.2	deg C			1		10/02/17 11:48		
Field Specific Conductance	645	umhos/cm			1		10/02/17 11:48		
Oxygen, Dissolved	0.17	mg/L			1		10/02/17 11:48	7782-44-7	
REDOX	-45.5	mV			1		10/02/17 11:48		
Turbidity	6.30	NTU			1		10/02/17 11:48		
Depth to Water	2.20	feet			1		10/02/17 11:48		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	10/02/17 13:40	10/03/17 12:01	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	10/02/17 13:40	10/03/17 12:01	106-93-4	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 00:55	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 00:55	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 00:55	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 00:55	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 00:55	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 00:55	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 00:55	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 00:55	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 00:55	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 00:55	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 00:55	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 00:55	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 00:55	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 00:55	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 00:55	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 00:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 00:55	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-35 **Lab ID: 35338860002** Collected: 09/28/17 09:10 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 00:55	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 00:55	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 00:55	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 00:55	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 00:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		10/02/17 00:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		10/02/17 00:55	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/02/17 00:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-35 DUP **Lab ID: 35338860003** Collected: 09/28/17 09:10 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.33	Std. Units			1		10/02/17 11:50		
Field Temperature	26.2	deg C			1		10/02/17 11:50		
Field Specific Conductance	645	umhos/cm			1		10/02/17 11:50		
Oxygen, Dissolved	0.17	mg/L			1		10/02/17 11:50	7782-44-7	
REDOX	-45.5	mV			1		10/02/17 11:50		
Turbidity	6.30	NTU			1		10/02/17 11:50		
Depth to Water	2.20	feet			1		10/02/17 11:50		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 12:15	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	10/02/17 13:40	10/03/17 12:15	106-93-4	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 01:46	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 01:46	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 01:46	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 01:46	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 01:46	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 01:46	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 01:46	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 01:46	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 01:46	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 01:46	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 01:46	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 01:46	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 01:46	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 01:46	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 01:46	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 01:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 01:46	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-35 DUP **Lab ID: 35338860003** Collected: 09/28/17 09:10 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 01:46	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 01:46	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 01:46	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 01:46	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 01:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		10/02/17 01:46	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/02/17 01:46	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/02/17 01:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-37A **Lab ID: 35338860004** Collected: 09/28/17 09:44 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	6.45	Std. Units			1		10/02/17 11:51		
Field Temperature	24.9	deg C			1		10/02/17 11:51		
Field Specific Conductance	1392	umhos/cm			1		10/02/17 11:51		
Oxygen, Dissolved	0.11	mg/L			1		10/02/17 11:51	7782-44-7	
REDOX	-83.7	mV			1		10/02/17 11:51		
Turbidity	5.15	NTU			1		10/02/17 11:51		
Depth to Water	1.75	feet			1		10/02/17 11:51		
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 12:59	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.0099	0.0075	1	10/02/17 13:40	10/03/17 12:59	106-93-4	
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 02:12	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:12	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 02:12	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 02:12	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 02:12	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:12	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:12	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	56-23-5	
Chlorobenzene	4.4	ug/L	1.0	0.50	1		10/02/17 02:12	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 02:12	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 02:12	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 02:12	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:12	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 02:12	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 02:12	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:12	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 02:12	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 02:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:12	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-37A **Lab ID: 35338860004** Collected: 09/28/17 09:44 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 02:12	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 02:12	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 02:12	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:12	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 02:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		10/02/17 02:12	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/02/17 02:12	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/02/17 02:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-37B **Lab ID: 35338860005** Collected: 09/28/17 10:23 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	6.36	Std. Units			1		10/02/17 11:51		
Field Temperature	23.5	deg C			1		10/02/17 11:51		
Field Specific Conductance	1737	umhos/cm			1		10/02/17 11:51		
Oxygen, Dissolved	0.10	mg/L			1		10/02/17 11:51	7782-44-7	
REDOX	-69.8	mV			1		10/02/17 11:51		
Turbidity	2.74	NTU			1		10/02/17 11:51		
Depth to Water	1.40	feet			1		10/02/17 11:51		
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	10/02/17 13:40	10/03/17 13:14	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	10/02/17 13:40	10/03/17 13:14	106-93-4	
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 02:37	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:37	107-13-1	
Benzene	2.0	ug/L	1.0	0.10	1		10/02/17 02:37	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 02:37	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 02:37	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:37	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:37	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	56-23-5	
Chlorobenzene	10.9	ug/L	1.0	0.50	1		10/02/17 02:37	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 02:37	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 02:37	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 02:37	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:37	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	75-35-4	
cis-1,2-Dichloroethene	0.96 I	ug/L	1.0	0.50	1		10/02/17 02:37	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 02:37	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 02:37	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:37	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 02:37	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 02:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 02:37	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B5-37B **Lab ID: 35338860005** Collected: 09/28/17 10:23 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 02:37	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 02:37	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 02:37	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 02:37	108-05-4	
Vinyl chloride	0.63 I	ug/L	1.0	0.50	1		10/02/17 02:37	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 02:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		10/02/17 02:37	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		10/02/17 02:37	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		10/02/17 02:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-1 **Lab ID: 35338860006** Collected: 09/28/17 11:33 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.19	Std. Units			1		10/02/17 11:52		
Field Temperature	25.9	deg C			1		10/02/17 11:52		
Field Specific Conductance	1709	umhos/cm			1		10/02/17 11:52		
Oxygen, Dissolved	0.14	mg/L			1		10/02/17 11:52	7782-44-7	
REDOX	-49.3	mV			1		10/02/17 11:52		
Turbidity	4.77	NTU			1		10/02/17 11:52		
Depth to Water	0.90	feet			1		10/02/17 11:52		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 13:29	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	10/02/17 13:40	10/03/17 13:29	106-93-4	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 03:03	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:03	107-13-1	
Benzene	4.2	ug/L	1.0	0.10	1		10/02/17 03:03	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 03:03	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 03:03	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:03	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:03	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	56-23-5	
Chlorobenzene	2.8	ug/L	1.0	0.50	1		10/02/17 03:03	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 03:03	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 03:03	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 03:03	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:03	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	75-35-4	
cis-1,2-Dichloroethene	0.66 I	ug/L	1.0	0.50	1		10/02/17 03:03	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 03:03	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 03:03	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:03	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 03:03	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 03:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:03	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-1 **Lab ID: 35338860006** Collected: 09/28/17 11:33 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 03:03	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:03	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 03:03	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 03:03	108-05-4	
Vinyl chloride	0.83 I	ug/L	1.0	0.50	1		10/02/17 03:03	75-01-4	
Xylene (Total)	3.9	ug/L	3.0	1.5	1		10/02/17 03:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		10/02/17 03:03	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		10/02/17 03:03	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		10/02/17 03:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-8 **Lab ID: 35338860007** Collected: 09/28/17 12:19 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	5.43	Std. Units			1		10/02/17 11:54		
Field Temperature	24.6	deg C			1		10/02/17 11:54		
Field Specific Conductance	192	umhos/cm			1		10/02/17 11:54		
Oxygen, Dissolved	0.08	mg/L			1		10/02/17 11:54	7782-44-7	
REDOX	58.7	mV			1		10/02/17 11:54		
Turbidity	1.03	NTU			1		10/02/17 11:54		
Depth to Water	4.55	feet			1		10/02/17 11:54		
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 13:58	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	10/02/17 13:40	10/03/17 13:58	106-93-4	
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 03:28	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:28	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 03:28	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 03:28	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 03:28	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:28	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:28	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 03:28	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 03:28	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 03:28	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:28	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 03:28	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 03:28	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:28	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 03:28	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 03:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:28	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-8 **Lab ID: 35338860007** Collected: 09/28/17 12:19 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 03:28	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 03:28	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 03:28	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:28	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 03:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	89-111		1		10/02/17 03:28	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		10/02/17 03:28	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		10/02/17 03:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-6 **Lab ID: 35338860008** Collected: 09/28/17 13:40 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.32	Std. Units			1		10/02/17 11:54		
Field Temperature	24.6	deg C			1		10/02/17 11:54		
Field Specific Conductance	1263	umhos/cm			1		10/02/17 11:54		
Oxygen, Dissolved	0.12	mg/L			1		10/02/17 11:54	7782-44-7	
REDOX	-56.7	mV			1		10/02/17 11:54		
Turbidity	9.07	NTU			1		10/02/17 11:54		
Depth to Water	5.45	feet			1		10/02/17 11:54		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 14:13	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	10/02/17 13:40	10/03/17 14:13	106-93-4	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 03:54	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:54	107-13-1	
Benzene	2.8	ug/L	1.0	0.10	1		10/02/17 03:54	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 03:54	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 03:54	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:54	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:54	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	56-23-5	
Chlorobenzene	1.9	ug/L	1.0	0.50	1		10/02/17 03:54	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 03:54	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 03:54	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 03:54	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:54	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 03:54	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 03:54	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:54	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 03:54	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 03:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 03:54	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-6 **Lab ID: 35338860008** Collected: 09/28/17 13:40 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 03:54	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 03:54	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 03:54	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 03:54	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 03:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		10/02/17 03:54	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	109	%	75-135		1		10/02/17 03:54	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		10/02/17 03:54	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study
Pace Project No.: 35338860

Sample: B37-13 **Lab ID: 35338860009** Collected: 09/28/17 14:39 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.38	Std. Units			1		10/02/17 11:55		
Field Temperature	24.9	deg C			1		10/02/17 11:55		
Field Specific Conductance	2132	umhos/cm			1		10/02/17 11:55		
Oxygen, Dissolved	0.09	mg/L			1		10/02/17 11:55	7782-44-7	
REDOX	-86.2	mV			1		10/02/17 11:55		
Turbidity	2.56	NTU			1		10/02/17 11:55		
Depth to Water	4.55	feet			1		10/02/17 11:55		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 14:28	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 14:28	106-93-4	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 04:19	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:19	107-13-1	
Benzene	10.1	ug/L	1.0	0.10	1		10/02/17 04:19	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 04:19	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 04:19	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:19	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:19	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	56-23-5	
Chlorobenzene	9.6	ug/L	1.0	0.50	1		10/02/17 04:19	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 04:19	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 04:19	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 04:19	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	95-50-1	
1,4-Dichlorobenzene	0.52 I	ug/L	1.0	0.50	1		10/02/17 04:19	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:19	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 04:19	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 04:19	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:19	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 04:19	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 04:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:19	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-13 **Lab ID: 35338860009** Collected: 09/28/17 14:39 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 04:19	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	127-18-4	
Toluene	0.58 I	ug/L	1.0	0.50	1		10/02/17 04:19	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 04:19	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 04:19	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:19	75-01-4	
Xylene (Total)	5.3	ug/L	3.0	1.5	1		10/02/17 04:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		10/02/17 04:19	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		10/02/17 04:19	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		10/02/17 04:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-3 **Lab ID: 35338860010** Collected: 09/28/17 15:36 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.26	Std. Units			1		10/02/17 11:56		
Field Temperature	24.4	deg C			1		10/02/17 11:56		
Field Specific Conductance	1588	umhos/cm			1		10/02/17 11:56		
Oxygen, Dissolved	0.05	mg/L			1		10/02/17 11:56	7782-44-7	
REDOX	-73.2	mV			1		10/02/17 11:56		
Turbidity	0.68	NTU			1		10/02/17 11:56		
Depth to Water	3.45	feet			1		10/02/17 11:56		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 14:42	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	10/02/17 13:40	10/03/17 14:42	106-93-4	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 04:45	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:45	107-13-1	
Benzene	2.7	ug/L	1.0	0.10	1		10/02/17 04:45	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 04:45	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 04:45	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:45	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:45	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	56-23-5	
Chlorobenzene	1.1	ug/L	1.0	0.50	1		10/02/17 04:45	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 04:45	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 04:45	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 04:45	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:45	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 04:45	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 04:45	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:45	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 04:45	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 04:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 04:45	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	100-42-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: B37-3 **Lab ID: 35338860010** Collected: 09/28/17 15:36 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 04:45	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 04:45	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 04:45	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 04:45	75-01-4	
Xylene (Total)	1.6 I	ug/L	3.0	1.5	1		10/02/17 04:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		10/02/17 04:45	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/02/17 04:45	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/02/17 04:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: TRIP BLANK 9/28/17 **Lab ID:** 35338860011 **Collected:** 09/28/17 00:01 **Received:** 09/28/17 16:25 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		10/01/17 23:13	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/01/17 23:13	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/01/17 23:13	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/01/17 23:13	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/01/17 23:13	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/01/17 23:13	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/01/17 23:13	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/01/17 23:13	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/01/17 23:13	74-87-3	
1,2-Dibromo-3-chloropropane	1.0 U	ug/L	5.0	1.0	1		10/01/17 23:13	96-12-8	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/01/17 23:13	124-48-1	
1,2-Dibromoethane (EDB)	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	106-93-4	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/01/17 23:13	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/01/17 23:13	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/01/17 23:13	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/01/17 23:13	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/01/17 23:13	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/01/17 23:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/01/17 23:13	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/01/17 23:13	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/01/17 23:13	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/01/17 23:13	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/01/17 23:13	75-01-4	

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ANALYTICAL RESULTS

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Sample: TRIP BLANK 9/28/17 **Lab ID:** 35338860011 Collected: 09/28/17 00:01 Received: 09/28/17 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/01/17 23:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	89-111		1		10/01/17 23:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		10/01/17 23:13	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/01/17 23:13	2037-26-5	

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QUALITY CONTROL DATA

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

QC Batch:	396009	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	35338860001, 35338860002, 35338860003, 35338860004, 35338860005, 35338860006, 35338860007, 35338860008, 35338860009, 35338860010, 35338860011		

METHOD BLANK: 2160130

Matrix: Water

Associated Lab Samples: 35338860001, 35338860002, 35338860003, 35338860004, 35338860005, 35338860006, 35338860007, 35338860008, 35338860009, 35338860010, 35338860011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/01/17 21:57	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	10/01/17 21:57	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	10/01/17 21:57	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/01/17 21:57	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/01/17 21:57	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/01/17 21:57	
Acetone	ug/L	10.0 U	20.0	10.0	10/01/17 21:57	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/01/17 21:57	
Benzene	ug/L	0.10 U	1.0	0.10	10/01/17 21:57	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/01/17 21:57	
Bromoform	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/01/17 21:57	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/01/17 21:57	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/01/17 21:57	
Chloroform	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/01/17 21:57	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/01/17 21:57	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	10/01/17 21:57	
Dibromomethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/01/17 21:57	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/01/17 21:57	
Styrene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Toluene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

METHOD BLANK: 2160130

Matrix: Water

Associated Lab Samples: 35338860001, 35338860002, 35338860003, 35338860004, 35338860005, 35338860006, 35338860007, 35338860008, 35338860009, 35338860010, 35338860011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/01/17 21:57	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/01/17 21:57	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/01/17 21:57	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/01/17 21:57	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/01/17 21:57	
1,2-Dichloroethane-d4 (S)	%	106	75-135		10/01/17 21:57	
4-Bromofluorobenzene (S)	%	94	89-111		10/01/17 21:57	
Toluene-d8 (S)	%	100	89-112		10/01/17 21:57	

LABORATORY CONTROL SAMPLE: 2160131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.2	96	70-130	
1,1,1-Trichloroethane	ug/L	20	19.1	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	103	70-130	
1,1,2-Trichloroethane	ug/L	20	20.1	101	70-130	
1,1-Dichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethene	ug/L	20	18.1	91	65-134	
1,2,3-Trichloropropane	ug/L	20	21.1	105	65-135	
1,2-Dibromo-3-chloropropane	ug/L	20	19.4	97	62-133	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	20	22.1	110	70-130	
1,2-Dichloroethane	ug/L	20	18.1	90	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	21.7	108	70-130	
2-Butanone (MEK)	ug/L	40	33.5	84	61-129	
2-Hexanone	ug/L	40	40.0	100	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	41.0	102	70-130	
Acetone	ug/L	40	36.8	92	44-155	
Acrylonitrile	ug/L	200	197	98	59-138	
Benzene	ug/L	20	19.7	98	70-130	
Bromochloromethane	ug/L	20	19.0	95	70-130	
Bromodichloromethane	ug/L	20	19.2	96	70-130	
Bromoform	ug/L	20	19.3	96	62-129	
Bromomethane	ug/L	20	16.9	84	10-179	
Carbon disulfide	ug/L	20	20.2	101	40-156	
Carbon tetrachloride	ug/L	20	17.7	88	66-127	
Chlorobenzene	ug/L	20	19.9	99	70-130	
Chloroethane	ug/L	20	19.7	99	57-142	
Chloroform	ug/L	20	19.0	95	70-130	
Chloromethane	ug/L	20	18.7	93	45-150	

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QUALITY CONTROL DATA

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

LABORATORY CONTROL SAMPLE: 2160131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	19.1	95	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	18.3	91	70-130	
Dibromomethane	ug/L	20	18.1	91	70-130	
Ethylbenzene	ug/L	20	21.6	108	70-130	
Iodomethane	ug/L	40	26.8	67	21-150	
Methylene Chloride	ug/L	20	21.1	106	65-127	
Styrene	ug/L	20	20.1	101	70-130	
Tetrachloroethene	ug/L	20	19.7	98	48-155	
Toluene	ug/L	20	19.7	98	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	68-126	
trans-1,3-Dichloropropene	ug/L	20	18.3	92	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	17.3	87	46-138	
Trichloroethene	ug/L	20	18.6	93	69-129	
Trichlorofluoromethane	ug/L	20	17.6	88	60-144	
Vinyl acetate	ug/L	20	19.2	96	70-130	
Vinyl chloride	ug/L	20	18.6	93	67-136	
Xylene (Total)	ug/L	60	65.1	109	70-130	
1,2-Dichloroethane-d4 (S)	%			100	75-135	
4-Bromofluorobenzene (S)	%			97	89-111	
Toluene-d8 (S)	%			100	89-112	

MATRIX SPIKE SAMPLE: 2161301

Parameter	Units	35338860003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	17.7	89	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.5	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.7	94	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	18.6	93	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.9	95	65-135	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	17.0	85	62-133	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	17.8	89	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20.5	103	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.2	86	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.4	102	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	27.5	69	61-129	
2-Hexanone	ug/L	5.0 U	40	32.7	82	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	35.2	88	70-130	
Acetone	ug/L	10.0 U	40	32.7	76	44-155	
Acrylonitrile	ug/L	5.0 U	200	173	87	59-138	
Benzene	ug/L	0.10 U	20	19.7	98	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.1	95	70-130	

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QUALITY CONTROL DATA

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

MATRIX SPIKE SAMPLE: 2161301		35338860003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromodichloromethane	ug/L	0.27 U	20	17.7	89	70-130	
Bromoform	ug/L	0.50 U	20	17.5	87	62-129	
Bromomethane	ug/L	0.50 U	20	13.6	68	10-179	
Carbon disulfide	ug/L	5.0 U	20	20.9	105	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	16.5	82	66-127	
Chlorobenzene	ug/L	0.50 U	20	19.3	96	70-130	
Chloroethane	ug/L	0.50 U	20	20.5	102	57-142	
Chloroform	ug/L	0.50 U	20	19.1	95	70-130	
Chloromethane	ug/L	0.62 U	20	20.3	100	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	15.1	75	70-130	
Dibromochloromethane	ug/L	0.26 U	20	16.7	84	70-130	
Dibromomethane	ug/L	0.50 U	20	17.7	88	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.3	106	70-130	
Iodomethane	ug/L	0.50 U	40	24.7	62	21-150	
Methylene Chloride	ug/L	2.5 U	20	16.6	83	65-127	
Styrene	ug/L	0.50 U	20	19.3	96	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.4	87	48-155	
Toluene	ug/L	0.50 U	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.5	92	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	15.9	79	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.9	75	46-138	
Trichloroethene	ug/L	0.50 U	20	18.7	93	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	20.0	100	60-144	
Vinyl acetate	ug/L	1.0 U	20	14.9	74	70-130	
Vinyl chloride	ug/L	0.50 U	20	19.2	96	67-136	
Xylene (Total)	ug/L	1.5 U	60	64.1	107	70-130	
1,2-Dichloroethane-d4 (S)	%				98	75-135	
4-Bromofluorobenzene (S)	%				97	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2161300

Parameter	Units	35338860002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

SAMPLE DUPLICATE: 2161300

Parameter	Units	35338860002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	103	107	3	40	
4-Bromofluorobenzene (S)	%	93	93	0	40	
Toluene-d8 (S)	%	100	101	1	40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

QC Batch:	396118	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples:	35338860001, 35338860002, 35338860003, 35338860004, 35338860005, 35338860006, 35338860007, 35338860008, 35338860009, 35338860010		

METHOD BLANK:	2160571	Matrix:	Water
Associated Lab Samples:	35338860001, 35338860002, 35338860003, 35338860004, 35338860005, 35338860006, 35338860007, 35338860008, 35338860009, 35338860010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/03/17 11:17	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/03/17 11:17	

LABORATORY CONTROL SAMPLE: 2160572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.26	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	102	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160645 2160646

Parameter	Units	35338860003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.60	0.57	137	130	60-140	5	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.55	0.53	126	122	60-140	4	40	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Tomoka LF B5/37 Study
Pace Project No.: 35338860

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(HS) Estimated Value. Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF B5/37 Study

Pace Project No.: 35338860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338860002	B5-35				
35338860003	B5-35 DUP				
35338860004	B5-37A				
35338860005	B5-37B				
35338860006	B37-1				
35338860007	B37-8				
35338860008	B37-6				
35338860009	B37-13				
35338860010	B37-3				
35338860001	EQ BLK 9/28/17	EPA 8011	396118	EPA 8011	396227
35338860002	B5-35	EPA 8011	396118	EPA 8011	396227
35338860003	B5-35 DUP	EPA 8011	396118	EPA 8011	396227
35338860004	B5-37A	EPA 8011	396118	EPA 8011	396227
35338860005	B5-37B	EPA 8011	396118	EPA 8011	396227
35338860006	B37-1	EPA 8011	396118	EPA 8011	396227
35338860007	B37-8	EPA 8011	396118	EPA 8011	396227
35338860008	B37-6	EPA 8011	396118	EPA 8011	396227
35338860009	B37-13	EPA 8011	396118	EPA 8011	396227
35338860010	B37-3	EPA 8011	396118	EPA 8011	396227
35338860001	EQ BLK 9/28/17	EPA 8260	396009		
35338860002	B5-35	EPA 8260	396009		
35338860003	B5-35 DUP	EPA 8260	396009		
35338860004	B5-37A	EPA 8260	396009		
35338860005	B5-37B	EPA 8260	396009		
35338860006	B37-1	EPA 8260	396009		
35338860007	B37-8	EPA 8260	396009		
35338860008	B37-6	EPA 8260	396009		
35338860009	B37-13	EPA 8260	396009		
35338860010	B37-3	EPA 8260	396009		
35338860011	TRIP BLANK 9/28/17	EPA 8260	396009		

REPORT OF LABORATORY ANALYSIS

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WO#: 35338860

CHAIN-OF-CUS

The Chain-of-Custody is

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35338860

Page : 1 Of 1

Section A		Section B	
Required Client Information:		Required Project Information:	
Company: Volusia County Solid Waste Management	Report To: Ms. Jennifer Sirk	Invoice #:	
Address: 1990 Tomoka Farms Road	Copy To:	Company Name:	
Daytona Beach, FL 32124		Address:	
Email:		Purchase Order #:	
Phone:	Fax:	Project Name: Tomoka LF B5/37 Study	
Requested Due Date:		Pace Project Manager: jeff.baylor@pacelabs.com	
		Pace Profile #: 1592	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Requested Analysis Filtered (Y/N)	Y/N	Analyses Test	8260 VOCs Full List	Trip Blank DO NOT OPEN	EDB 8011	Residual Chlorine (Y/N)	
			START	END															
1						MS									X		X		
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																X			
12																			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
ACE		MSL		9/21/08		15:40		JL		9/21/08		16:25		Sealed (Y/N)	
				9-20-08		1625								Cooler (Y/N)	
														Intact (Y/N)	
														Samples (Y/N)	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: M Aug Gilbert
 SIGNATURE of SAMPLER: M Aug Gilbert
 DATE Signed: 9-28-17

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTA COUNTY SOLIDWASTE		SITE LOCATION: IOMOUA LF	
WELL NO: EQUIPMENT BLANK	SAMPLE ID: EQUIPMENT BLANK	DATE: 9-22-17	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARIC GILBERT/PACE				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: 08/17		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE, S			FIELD-FILTERED: Y Filtration Equipment Type: 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				
	3	AG	40	HCL			BZCO	APP	400	
	2	CG	40	KCE			BZHI	APP	400	
REMARKS:										
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; 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)



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUSIA COUNTY SOLID WASTE		SITE LOCATION: <i>MSL-A</i>	
WELL NO: BB-35	SAMPLE ID: BB-35/DUPPLICATE	DATE: 9-28-17	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.25	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (11.31 feet - 2.25 feet) X 0.16 gallons/foot = 1.44 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): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 0858	PURGING ENDED AT: 0910	TOTAL VOLUME PURGED (gallons): 2.40							
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)
0906	1.60	1.60	0.20	4.30	6.38	26.2	642	0.21	9.22	yellow	strong
0908	0.40	2.00	0.20	4.30	6.37	26.2	644	0.19	5.91	1	1
0910	0.40	2.40	0.20	4.30	6.33	26.2	647	0.17	6.30	1	1
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: <i>MAURICE GILBERT / PACE</i>				SAMPLER(S) SIGNATURE(S): <i>MSL-A</i>				SAMPLING INITIATED AT: 0910		SAMPLING ENDED AT: 0915	
PUMP OR TUBING DEPTH IN WELL (feet): 5				TUBING MATERIAL CODE: HOPE, S				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: <input type="text"/> μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	3	AG	40	HCL		6.2	8260		APP		
	2	CG	40	ICE		6.33	8011		APP		
REMARKS: <i>ORP -45.5 ORP -45.5 ORP -45.5</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 = Bailer; 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)

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Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUSIA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: BS-37B	SAMPLE ID: BS-37B	DATE: 9-28-12	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 1.30	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 22.75 feet - 1.30 feet X 0.16 gallons/foot = 4.392 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): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 0952	PURGING ENDED AT: 1023	TOTAL VOLUME PURGED (gallons): 6.51							
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)
1013	4.41	4.41	0.21	3.70	6.35	23.6	1729	0.09	2.41	YELLOW	SWEET
1018	1.05	5.46	0.21	3.70	6.36	23.6	1747	0.10	1.31	1	1
1023	1.05	6.51	0.21	3.70	6.36	23.5	1737	0.10	2.74		
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: MAQU CILBERT / PACE				SAMPLER(S) SIGNATURE(S): [Signature]				SAMPLING INITIATED AT: 1023		SAMPLING ENDED AT: 1026	
PUMP OR TUBING DEPTH IN WELL (feet): 5				TUBING MATERIAL CODE: HDPE.5				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 ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	3	AG	40	HCL		6.36	8260		APP		
	2	CG	40	ICE			8011		APP		
REMARKS: ORP-65.2 ORP-69.0 ORP-69.8											
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: VOLUSIA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: B37-1	SAMPLE ID: B37-1	DATE: 9-28-17	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 0.95	PURGE PUMP TYPE OR BAILER: PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				ON-SITE			
(only fill out if applicable)		= (37.80	feet -	0.95	feet) X 0.16	gallons/foot = 5.896	gallons
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOLUME = (EQUIPMENT VOLUME) X							

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): 3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3	PURGING INITIATED AT: 055	PURGING ENDED AT: 1133	TOTAL VOLUME PURGED (gallons): 874
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[illegible]

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: MARK GILBERT / PACE	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1133	SAMPLING ENDED AT: 1136
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PUMP OR TUBING DEPTH IN WELL (feet): 3	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y <input checked="" type="radio"/> N Filtration Equipment Type:	FILTER SIZE: _____ µm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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[illegible]

REMARKS

02P-47.8 02P-49.1 02P-49.3

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: $\pm 5\%$ 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 $+ 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNIA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: B337-8	SAMPLE ID: B337-8	DATE: 9-28-17	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	4.55	PURGE PUMP TYPE OR BAILER:	PP
----------------------------	---	------------------------------	-----	---	----------------------------------	------	-------------------------------	----

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

= (37.04 feet - 4.55 feet) X 0.16 gallons/foot = 5.1984 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):	10	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	8	PURGING INITIATED AT:	1141	PURGING ENDED AT:	1219	TOTAL VOLUME PURGED (gallons):	860
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[illegible]

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): <i>MAURICE R. BAKER</i>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <i>1219</i>	SAMPLING ENDED AT: <i>1223</i>
---	---	------------------------------------	--------------------------------

PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ μm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
------------------------	------	---	---	--------	---	--------------	------------	---	---

[illegible]

REMARKS

orp 68.4 orp 61.6 orp 58.7

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: $\pm 5\%$ 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: VOLUSIA COUNTY SOLID WASTE		SITE LOCATION: DUNDRA LF	
WELL NO: B37-6	SAMPLE ID: B37-6	DATE: 9-28-12	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.30	PURGE PUMP TYPE OR BAILER: PP
------------------------------	----------------------------------	---	---------------------------------------	----------------------------------

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

= (39.80 feet - 5.30 feet) X 0.16 gallons/foot = 5.52 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): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1258	PURGING ENDED AT: 1340	TOTAL VOLUME PURGED (gallons): 8.40
---	---	----------------------------	------------------------	-------------------------------------

[illegible]

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: MARK GILBERT / PAGE	SAMPLER(S) SIGNATURE(S): <i>ms</i>	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1343
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PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE, 5	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N Filtration Equipment Type:	FILTER SIZE: ____ μm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
------------------------	------	---	---	--------	---	--------------	------------	---	---

[illegible]

REMARKS: *alp - 52.0 alp - 53.3 alp - 56.7*

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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-23) optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally $+5$ NTU or $\pm 10\%$ (whichever is greater)



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLusia COUNTY SOLID WASTE		SITE LOCATION: TOMBUKA LF	
WELL NO: B 37-13	SAMPLE ID: B 37-13	DATE: 9-28-13	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 4.60	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 37.70 feet - 4.60 feet X 0.16 gallons/foot = 5.296 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 1350 feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1439	PURGING ENDED AT: 1439	TOTAL VOLUME PURGED (gallons): 8.20							
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)
1425	5.40	5.40	0.20	8.20	6.36	24.9	2126	0.11	2.41	Yellow	Surfer
1432	1.40	6.80	0.20	8.20	6.37	24.9	2135	0.10	1.46		
1439	1.40	8.20	0.20	8.20	6.38	24.9	2132	0.09	2.56		
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: MARK GILBERT / PACE				SAMPLER(S) SIGNATURE(S): [Signature]				SAMPLING INITIATED AT: 1439		SAMPLING ENDED AT: 1442	
PUMP OR TUBING DEPTH IN WELL (feet): 10				TUBING MATERIAL CODE: HDPE, S				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 ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	3	AG	40	HCL		6.38	8260		APP		
	2	CG	40	ICP			2011		APP		
REMARKS: ORP -80.8 ORP -84.2 ORP -86.2											
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: VOLusia COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: B37-3	SAMPLE ID: B37-3	DATE: 9-28-17	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.50	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 37.22 feet - 3.50 feet X 0.16 gallons/foot = 5.3952 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): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1536	TOTAL VOLUME PURGED (gallons): 8.20
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[illegible]

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" = 0.014

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK GIBSON / PACE	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1536	SAMPLING ENDED AT: 1539
---	---	-----------------------------	-------------------------

PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE 15	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> Filtration Equipment Type: <input checked="" type="radio"/> <input type="radio"/>	FILTER SIZE: _____ µm
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FIELD DECONTAMINATION:	PUMP	Y	(N)	TUBING	Y	(N) (replaced)	DUPLICATE:	Y	(N)
------------------------	------	---	-----	--------	---	----------------	------------	---	-----

[illegible]

REMARKS:

dep - 65.6 dep - 73.3 dep - 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: $\pm 5\%$ 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)

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO# : 35338860

PM: JSB
Due Date: 10/09/17
CLIENT: VOLDPW

Date and Initials of person:

Examining contents: 9/30/17

Label: _____

Deliver: _____

pH: _____

Thermometer Used: T301 Date: 9/28/17 Time: 1625 Initials: MD

State of Origin: _____

Cooler #1 Temp. °C 4.7 (Visual) 50.1 (Correction Factor) 4.8 (Actual)

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>3/3 vials have excess headspace on</u> <u>Samples "B37-1"</u> <u>"B37-13"</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____

Date: _____

Attachment 7
Laboratory Report and Field Data Sheets
- Post Remediation Status Monitoring

October 11, 2017

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Dear Ms. Stirk:

Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, HDR Engineering, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35338743001	Equipment Blank 9/29/17	Water	09/29/17 07:50	09/29/17 18:10
35338743002	TMW 1A	Water	09/29/17 08:44	09/29/17 18:10
35338743003	TMW 1A Dup	Water	09/29/17 08:44	09/29/17 18:10
35338743004	TMW 1B	Water	09/29/17 09:47	09/29/17 18:10
35338743005	TMW 2A	Water	09/29/17 10:58	09/29/17 18:10
35338743006	TMW 2B	Water	09/29/17 11:51	09/29/17 18:10
35338743007	MW 100-6	Water	09/29/17 13:01	09/29/17 18:10
35338743008	B5-28	Water	09/29/17 13:47	09/29/17 18:10
35338743009	TMW 3B	Water	09/29/17 14:43	09/29/17 18:10
35338743010	TMW 3A	Water	09/29/17 15:32	09/29/17 18:10
35338743011	TMW 5B	Water	09/29/17 16:32	09/29/17 18:10
35338743012	TMW 4B	Water	09/29/17 17:32	09/29/17 18:10
35338743013	Trip Blank 9/29/17	Water	09/29/17 00:01	09/29/17 18:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338743001	Equipment Blank 9/29/17	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743002	TMW 1A	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	WDV	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743003	TMW 1A Dup	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743004	TMW 1B	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743005	TMW 2A	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743006	TMW 2B	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338743007	MW 100-6	EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
35338743008	B5-28	EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
35338743009	TMW 3B	RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
35338743010	TMW 3A	SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743011	TMW 5B	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	SK1	48	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338743012	TMW 4B	SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
35338743013	Trip Blank 9/29/17	EPA 353.2	KEK	1	PASI-O
		EPA 8260	BTN	50	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35338743001	Equipment Blank 9/29/17					
EPA 6010	Sodium	4.1	mg/L	1.0	10/06/17 09:26	
SM 2320B	Carbon Dioxide, Free	0.18	mg/L		10/10/17 17:05	
35338743002	TMW 1A					
	Field pH	6.52	Std. Units		10/02/17 11:25	
	Field Temperature	23.8	deg C		10/02/17 11:25	
	Field Specific Conductance	2130	umhos/cm		10/02/17 11:25	
	Oxygen, Dissolved	0.13	mg/L		10/02/17 11:25	
	REDOX	-106.1	mV		10/02/17 11:25	
	Turbidity	19.15	NTU		10/02/17 11:25	
	Depth to Water	2.85	feet		10/02/17 11:25	
RSK 175 Modified	Ethane	3380	ug/L	100	10/05/17 20:48	
RSK 175 Modified	Ethene	470	ug/L	100	10/05/17 20:48	
RSK 175 Modified	Methane	26300	ug/L	100	10/05/17 20:48	P2
EPA 6010	Sodium	395	mg/L	1.0	10/06/17 09:30	
EPA 8260	Benzene	3.9	ug/L	1.0	10/02/17 13:43	
EPA 8260	Chlorobenzene	2.9	ug/L	1.0	10/02/17 13:43	
EPA 8260	Chloroethane	1.3 l	ug/L	10.0	10/02/17 13:43	
EPA 8260	1,1-Dichloroethene	11.2	ug/L	1.0	10/02/17 13:43	
EPA 8260	cis-1,2-Dichloroethene	351	ug/L	50.0	10/03/17 06:23	
EPA 8260	trans-1,2-Dichloroethene	1.2	ug/L	1.0	10/02/17 13:43	
EPA 8260	Toluene	9.3	ug/L	1.0	10/02/17 13:43	
EPA 8260	Vinyl chloride	2450	ug/L	50.0	10/03/17 06:23	
EPA 8260	Xylene (Total)	4.3	ug/L	3.0	10/02/17 13:43	
SM 2320B	Carbon Dioxide, Free	9.6	mg/L		10/10/17 17:14	
EPA 300.0	Chloride	112	mg/L	25.0	10/02/17 08:20	
EPA 300.0	Sulfate	36.9	mg/L	25.0	10/02/17 08:20	J(M1)
35338743003	TMW 1A Dup					
	Field pH	6.52	Std. Units		10/02/17 11:27	
	Field Temperature	23.8	deg C		10/02/17 11:27	
	Field Specific Conductance	2130	umhos/cm		10/02/17 11:27	
	Oxygen, Dissolved	0.13	mg/L		10/02/17 11:27	
	REDOX	-106.1	mV		10/02/17 11:27	
	Turbidity	19.15	NTU		10/02/17 11:27	
	Depth to Water	2.85	feet		10/02/17 11:27	
RSK 175 Modified	Ethane	3840	ug/L	100	10/06/17 11:09	
RSK 175 Modified	Ethene	554	ug/L	100	10/06/17 11:09	
RSK 175 Modified	Methane	29900	ug/L	100	10/06/17 11:09	
EPA 6010	Sodium	388	mg/L	1.0	10/06/17 09:42	
EPA 8260	Benzene	4.2	ug/L	1.0	10/02/17 14:33	
EPA 8260	Chlorobenzene	3.0	ug/L	1.0	10/02/17 14:33	
EPA 8260	Chloroethane	1.9 l	ug/L	10.0	10/02/17 14:33	
EPA 8260	1,1-Dichloroethene	11.2	ug/L	1.0	10/02/17 14:33	
EPA 8260	cis-1,2-Dichloroethene	347	ug/L	50.0	10/03/17 07:13	J(P6)
EPA 8260	trans-1,2-Dichloroethene	1.2	ug/L	1.0	10/02/17 14:33	
EPA 8260	Toluene	10.4	ug/L	1.0	10/02/17 14:33	
EPA 8260	Vinyl chloride	2580	ug/L	50.0	10/03/17 07:13	J(P6)

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35338743003	TMW 1A Dup					
EPA 8260	Xylene (Total)	4.7	ug/L	3.0	10/02/17 14:33	
SM 2320B	Carbon Dioxide, Free	9.7	mg/L		10/10/17 17:24	
EPA 300.0	Chloride	114	mg/L	25.0	10/02/17 09:31	
EPA 300.0	Sulfate	37.5	mg/L	25.0	10/02/17 09:31	
35338743004	TMW 1B					
	Field pH	6.31	Std. Units		10/02/17 11:29	
	Field Temperature	24.2	deg C		10/02/17 11:29	
	Field Specific Conductance	1190	umhos/cm		10/02/17 11:29	
	Oxygen, Dissolved	0.12	mg/L		10/02/17 11:29	
	REDOX	-55.4	mV		10/02/17 11:29	
	Turbidity	1.36	NTU		10/02/17 11:29	
	Depth to Water	8.15	feet		10/02/17 11:29	
RSK 175 Modified	Ethane	239	ug/L	10.0	10/06/17 11:24	
RSK 175 Modified	Ethene	430	ug/L	10.0	10/06/17 11:24	
RSK 175 Modified	Methane	12000	ug/L	10.0	10/06/17 11:24	
EPA 6010	Sodium	134	mg/L	1.0	10/06/17 09:46	
EPA 8260	Benzene	1.5	ug/L	1.0	10/02/17 14:59	
EPA 8260	1,1-Dichloroethene	229	ug/L	100	10/03/17 07:39	
EPA 8260	cis-1,2-Dichloroethene	5180	ug/L	100	10/03/17 07:39	
EPA 8260	trans-1,2-Dichloroethene	15.6	ug/L	1.0	10/02/17 14:59	
EPA 8260	Toluene	4.3	ug/L	1.0	10/02/17 14:59	
EPA 8260	Trichloroethene	1.3	ug/L	1.0	10/02/17 14:59	
EPA 8260	Vinyl chloride	3070	ug/L	100	10/03/17 07:39	
SM 2320B	Carbon Dioxide, Free	3.8	mg/L		10/10/17 17:30	
EPA 300.0	Chloride	98.7	mg/L	25.0	10/02/17 09:54	
EPA 300.0	Sulfate	77.0	mg/L	25.0	10/02/17 09:54	
35338743005	TMW 2A					
	Field pH	6.30	Std. Units		10/02/17 11:31	
	Field Temperature	24.3	deg C		10/02/17 11:31	
	Field Specific Conductance	1650	umhos/cm		10/02/17 11:31	
	Oxygen, Dissolved	0.10	mg/L		10/02/17 11:31	
	REDOX	-92.0	mV		10/02/17 11:31	
	Turbidity	4.38	NTU		10/02/17 11:31	
	Depth to Water	3.20	feet		10/02/17 11:31	
RSK 175 Modified	Ethane	495	ug/L	10.0	10/06/17 11:39	
RSK 175 Modified	Methane	11900	ug/L	10.0	10/06/17 11:39	
EPA 6010	Sodium	197	mg/L	1.0	10/06/17 09:50	
EPA 8260	Benzene	0.99	ug/L	1.0	10/03/17 01:46	
EPA 8260	Chlorobenzene	1.3	ug/L	1.0	10/03/17 01:46	
EPA 8260	cis-1,2-Dichloroethene	1.9	ug/L	1.0	10/03/17 01:46	
EPA 8260	Vinyl chloride	1.4	ug/L	1.0	10/03/17 01:46	
SM 2320B	Carbon Dioxide, Free	6.9	mg/L		10/10/17 17:37	
EPA 300.0	Chloride	63.7	mg/L	25.0	10/02/17 10:17	
EPA 300.0	Sulfate	46.6	mg/L	25.0	10/02/17 10:17	
35338743006	TMW 2B					
	Field pH	6.48	Std. Units		10/02/17 11:32	

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743006	TMW 2B					
	Field Temperature	25.8	deg C		10/02/17 11:32	
	Field Specific Conductance	1568	umhos/cm		10/02/17 11:32	
	Oxygen, Dissolved	0.19	mg/L		10/02/17 11:32	
	REDOX	-71.9	mV		10/02/17 11:32	
	Turbidity	0.67	NTU		10/02/17 11:32	
	Depth to Water	8.50	feet		10/02/17 11:32	
RSK 175 Modified	Ethane	187	ug/L	10.0	10/06/17 11:55	
RSK 175 Modified	Ethene	79.7	ug/L	10.0	10/06/17 11:55	
RSK 175 Modified	Methane	4960	ug/L	10.0	10/06/17 11:55	
EPA 6010	Sodium	233	mg/L	1.0	10/06/17 09:54	
EPA 8260	Benzene	0.78 l	ug/L	1.0	10/02/17 15:49	
EPA 8260	1,1-Dichloroethene	4.0	ug/L	1.0	10/02/17 15:49	
EPA 8260	cis-1,2-Dichloroethene	275	ug/L	50.0	10/03/17 08:04	
EPA 8260	trans-1,2-Dichloroethene	0.73 l	ug/L	1.0	10/02/17 15:49	
EPA 8260	Vinyl chloride	1110	ug/L	50.0	10/03/17 08:04	
SM 2320B	Carbon Dioxide, Free	5.1	mg/L		10/10/17 17:44	
EPA 300.0	Chloride	92.9	mg/L	25.0	10/02/17 10:41	
EPA 300.0	Sulfate	122	mg/L	25.0	10/02/17 10:41	
EPA 353.2	Nitrogen, Nitrate	0.025 l	mg/L	0.050	09/30/17 09:19	
35338743007	MW 100-6					
	Field pH	6.45	Std. Units		10/02/17 11:33	
	Field Temperature	23.9	deg C		10/02/17 11:33	
	Field Specific Conductance	716	umhos/cm		10/02/17 11:33	
	Oxygen, Dissolved	0.07	mg/L		10/02/17 11:33	
	REDOX	-58.4	mV		10/02/17 11:33	
	Turbidity	7.60	NTU		10/02/17 11:33	
	Depth to Water	8.65	feet		10/02/17 11:33	
RSK 175 Modified	Ethane	36.6	ug/L	10.0	10/06/17 12:10	
RSK 175 Modified	Methane	7650	ug/L	10.0	10/06/17 12:10	
EPA 6010	Sodium	34.6	mg/L	1.0	10/06/17 09:58	
EPA 8260	cis-1,2-Dichloroethene	0.81 l	ug/L	1.0	10/03/17 02:11	
EPA 8260	Vinyl chloride	0.89 l	ug/L	1.0	10/03/17 02:11	
SM 2320B	Carbon Dioxide, Free	2.9	mg/L		10/10/17 18:03	
EPA 300.0	Chloride	49.0	mg/L	5.0	10/02/17 11:04	
35338743008	B5-28					
	Field pH	6.56	Std. Units		10/02/17 11:34	
	Field Temperature	24.9	deg C		10/02/17 11:34	
	Field Specific Conductance	1181	umhos/cm		10/02/17 11:34	
	Oxygen, Dissolved	0.09	mg/L		10/02/17 11:34	
	REDOX	-112.7	mV		10/02/17 11:34	
	Turbidity	3.48	NTU		10/02/17 11:34	
	Depth to Water	2.15	feet		10/02/17 11:34	
RSK 175 Modified	Ethane	64.0	ug/L	10.0	10/06/17 12:25	
RSK 175 Modified	Methane	4570	ug/L	10.0	10/06/17 12:25	
EPA 6010	Sodium	74.2	mg/L	1.0	10/06/17 23:54	
EPA 8260	Benzene	0.28 l	ug/L	1.0	10/03/17 02:36	

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743008	B5-28					
EPA 8260	Chlorobenzene	1.9	ug/L	1.0	10/03/17 02:36	
EPA 8260	cis-1,2-Dichloroethene	0.83	l	1.0	10/03/17 02:36	
EPA 8260	Vinyl chloride	3.9	ug/L	1.0	10/03/17 02:36	
SM 2320B	Carbon Dioxide, Free	5.6	mg/L		10/10/17 18:16	
EPA 300.0	Chloride	24.7	mg/L	5.0	10/04/17 03:42	
EPA 300.0	Sulfate	4.4	l	5.0	10/04/17 03:42	
35338743009	TMW 3B					
	Field pH	6.29	Std. Units		10/02/17 11:35	
	Field Temperature	26.3	deg C		10/02/17 11:35	
	Field Specific Conductance	1753	umhos/cm		10/02/17 11:35	
	Oxygen, Dissolved	0.18	mg/L		10/02/17 11:35	
	REDOX	-68.7	mV		10/02/17 11:35	
	Turbidity	8.93	NTU		10/02/17 11:35	
	Depth to Water	11.08	feet		10/02/17 11:35	
RSK 175 Modified	Ethane	661	ug/L	100	10/06/17 12:41	
RSK 175 Modified	Ethene	741	ug/L	100	10/06/17 12:41	
RSK 175 Modified	Methane	31500	ug/L	100	10/06/17 12:41	
EPA 6010	Sodium	102	mg/L	1.0	10/06/17 23:58	
EPA 8260	Benzene	4.7	ug/L	1.0	10/02/17 17:05	
EPA 8260	Chlorobenzene	5.1	ug/L	1.0	10/02/17 17:05	
EPA 8260	1,1-Dichloroethene	1290	ug/L	100	10/03/17 23:20	
EPA 8260	cis-1,2-Dichloroethene	8660	ug/L	100	10/03/17 23:20	
EPA 8260	trans-1,2-Dichloroethene	150	ug/L	100	10/03/17 23:20	
EPA 8260	Ethylbenzene	1.3	ug/L	1.0	10/02/17 17:05	
EPA 8260	Toluene	5.1	ug/L	1.0	10/02/17 17:05	
EPA 8260	Trichloroethene	1560	ug/L	100	10/03/17 23:20	
EPA 8260	Vinyl chloride	1940	ug/L	100	10/03/17 23:20	
EPA 8260	Xylene (Total)	3.8	ug/L	3.0	10/02/17 17:05	
SM 2320B	Carbon Dioxide, Free	6.6	mg/L		10/10/17 18:23	
EPA 300.0	Chloride	136	mg/L	25.0	10/02/17 11:51	
EPA 300.0	Sulfate	9.8	mg/L	5.0	10/04/17 04:06	
35338743010	TMW 3A					
	Field pH	6.23	Std. Units		10/02/17 11:44	
	Field Temperature	24.7	deg C		10/02/17 11:44	
	Field Specific Conductance	1739	umhos/cm		10/02/17 11:44	
	Oxygen, Dissolved	0.05	mg/L		10/02/17 11:44	
	REDOX	-70.4	mV		10/02/17 11:44	
	Turbidity	3.30	NTU		10/02/17 11:44	
	Depth to Water	4.00	feet		10/02/17 11:44	
RSK 175 Modified	Ethane	719	ug/L	100	10/06/17 12:57	
RSK 175 Modified	Ethene	549	ug/L	100	10/06/17 12:57	
RSK 175 Modified	Methane	32200	ug/L	100	10/06/17 12:57	
EPA 6010	Sodium	87.3	mg/L	1.0	10/07/17 00:02	
EPA 8260	Benzene	6.2	ug/L	1.0	10/02/17 17:30	
EPA 8260	Chlorobenzene	5.9	ug/L	1.0	10/02/17 17:30	
EPA 8260	1,1-Dichloroethene	645	ug/L	250	10/03/17 13:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743010	TMW 3A					
EPA 8260	cis-1,2-Dichloroethene	3600	ug/L	250	10/03/17 13:56	
EPA 8260	trans-1,2-Dichloroethene	65.4	ug/L	1.0	10/02/17 17:30	
EPA 8260	Ethylbenzene	2.4	ug/L	1.0	10/02/17 17:30	
EPA 8260	Toluene	5.0	ug/L	1.0	10/02/17 17:30	
EPA 8260	Trichloroethene	1310	ug/L	250	10/03/17 13:56	
EPA 8260	Vinyl chloride	1060	ug/L	250	10/03/17 13:56	
EPA 8260	Xylene (Total)	7.2	ug/L	3.0	10/02/17 17:30	
SM 2320B	Carbon Dioxide, Free	6.7	mg/L		10/10/17 18:31	
EPA 300.0	Chloride	133	mg/L	25.0	10/02/17 12:14	
35338743011	TMW 5B					
	Field pH	6.35	Std. Units		10/02/17 11:45	
	Field Temperature	24.7	deg C		10/02/17 11:45	
	Field Specific Conductance	1853	umhos/cm		10/02/17 11:45	
	Oxygen, Dissolved	0.09	mg/L		10/02/17 11:45	
	REDOX	-105.5	mV		10/02/17 11:45	
	Turbidity	5.89	NTU		10/02/17 11:45	
	Depth to Water	5.42	feet		10/02/17 11:45	
RSK 175 Modified	Ethane	149	ug/L	100	10/06/17 13:13	
RSK 175 Modified	Methane	31900	ug/L	100	10/06/17 13:13	
EPA 6010	Sodium	99.2	mg/L	1.0	10/07/17 00:06	
EPA 8260	Benzene	1.4	ug/L	1.0	10/03/17 03:01	
EPA 8260	Chlorobenzene	7.1	ug/L	1.0	10/03/17 03:01	
EPA 8260	1,1-Dichloroethene	2.3	ug/L	1.0	10/03/17 03:01	
EPA 8260	cis-1,2-Dichloroethene	8.1	ug/L	1.0	10/03/17 03:01	
EPA 8260	Trichloroethene	3.6	ug/L	1.0	10/03/17 03:01	
EPA 8260	Vinyl chloride	9.9	ug/L	1.0	10/03/17 03:01	
SM 2320B	Carbon Dioxide, Free	7.8	mg/L		10/10/17 18:39	
EPA 300.0	Chloride	89.3	mg/L	25.0	10/02/17 13:25	
35338743012	TMW 4B					
	Field pH	6.53	Std. Units		10/02/17 11:46	
	Field Temperature	25.5	deg C		10/02/17 11:46	
	Field Specific Conductance	972	umhos/cm		10/02/17 11:46	
	Oxygen, Dissolved	0.16	mg/L		10/02/17 11:46	
	REDOX	-85.4	mV		10/02/17 11:46	
	Turbidity	1.24	NTU		10/02/17 11:46	
	Depth to Water	7.00	feet		10/02/17 11:46	
RSK 175 Modified	Ethane	136	ug/L	10.0	10/06/17 13:28	
RSK 175 Modified	Ethene	125	ug/L	10.0	10/06/17 13:28	
RSK 175 Modified	Methane	8180	ug/L	10.0	10/06/17 13:28	
EPA 6010	Sodium	115	mg/L	1.0	10/07/17 00:11	
EPA 8260	Benzene	0.33 l	ug/L	1.0	10/02/17 18:20	
EPA 8260	1,1-Dichloroethene	2.0	ug/L	1.0	10/02/17 18:20	
EPA 8260	cis-1,2-Dichloroethene	293	ug/L	50.0	10/03/17 14:21	
EPA 8260	trans-1,2-Dichloroethene	0.63 l	ug/L	1.0	10/02/17 18:20	
EPA 8260	Toluene	1.2	ug/L	1.0	10/02/17 18:20	
EPA 8260	Trichloroethene	3.5	ug/L	1.0	10/02/17 18:20	

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743012	TMW 4B					
EPA 8260	Vinyl chloride	1080	ug/L	50.0	10/03/17 14:21	
SM 2320B	Carbon Dioxide, Free	3.3	mg/L		10/10/17 18:45	
EPA 300.0	Chloride	79.5	mg/L	10.0	10/02/17 13:48	
EPA 300.0	Sulfate	21.8	mg/L	10.0	10/02/17 13:48	

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PROJECT NARRATIVE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Date: October 11, 2017

Headspace was observed in the vials for the 8260 analysis for sample ID TMW 3B. This may be due to a reaction between the HCl preservative and sample matrix.

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Equipment Blank 9/29/17 **Lab ID:** 35338743001 **Collected:** 09/29/17 07:50 **Received:** 09/29/17 18:10 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 07:51	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 07:51	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	10.0 U	ug/L	10.0	10.0	1		10/06/17 10:53	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 10:53	74-85-1	
Methane	10.0 U	ug/L	10.0	10.0	1		10/06/17 10:53	74-82-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	4.1	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:26	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 12:02	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 12:02	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 12:02	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 12:02	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 12:02	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 12:02	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 12:02	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 12:02	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 12:02	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 12:02	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 12:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	630-20-6	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Equipment Blank 9/29/17 **Lab ID:** 35338743001 Collected: 09/29/17 07:50 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 12:02	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 12:02	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 12:02	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 12:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		10/02/17 12:02	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		10/02/17 12:02	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		10/02/17 12:02	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	0.18	mg/L			1		10/10/17 17:05		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	2.5 U	mg/L	5.0	2.5	1		10/02/17 07:57	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/02/17 07:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:13		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A **Lab ID: 35338743002** Collected: 09/29/17 08:44 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.52	Std. Units			1		10/02/17 11:25		
Field Temperature	23.8	deg C			1		10/02/17 11:25		
Field Specific Conductance	2130	umhos/cm			1		10/02/17 11:25		
Oxygen, Dissolved	0.13	mg/L			1		10/02/17 11:25	7782-44-7	
REDOX	-106.1	mV			1		10/02/17 11:25		
Turbidity	19.15	NTU			1		10/02/17 11:25		
Depth to Water	2.85	feet			1		10/02/17 11:25		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 08:05	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	10/02/17 13:40	10/03/17 08:05	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	3380	ug/L	100	100	10		10/05/17 20:48	74-84-0	
Ethene	470	ug/L	100	100	10		10/05/17 20:48	74-85-1	
Methane	26300	ug/L	100	100	10		10/05/17 20:48	74-82-8	P2
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	395	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:30	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 13:43	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	107-13-1	
Benzene	3.9	ug/L	1.0	0.10	1		10/02/17 13:43	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 13:43	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 13:43	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	56-23-5	
Chlorobenzene	2.9	ug/L	1.0	0.50	1		10/02/17 13:43	108-90-7	
Chloroethane	1.3 I	ug/L	10.0	0.50	1		10/02/17 13:43	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 13:43	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 13:43	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	107-06-2	
1,1-Dichloroethene	11.2	ug/L	1.0	0.50	1		10/02/17 13:43	75-35-4	
cis-1,2-Dichloroethene	351	ug/L	50.0	25.0	50		10/03/17 06:23	156-59-2	
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.50	1		10/02/17 13:43	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A **Lab ID: 35338743002** Collected: 09/29/17 08:44 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:43	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:43	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 13:43	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 13:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 13:43	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	127-18-4	
Toluene	9.3	ug/L	1.0	0.50	1		10/02/17 13:43	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 13:43	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 13:43	108-05-4	
Vinyl chloride	2450	ug/L	50.0	25.0	50		10/03/17 06:23	75-01-4	
Xylene (Total)	4.3	ug/L	3.0	1.5	1		10/02/17 13:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	89-111		1		10/02/17 13:43	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		10/02/17 13:43	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		10/02/17 13:43	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	9.6	mg/L			1		10/10/17 17:14		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	112	mg/L	25.0	12.5	5		10/02/17 08:20	16887-00-6	
Sulfate	36.9	mg/L	25.0	12.5	5		10/02/17 08:20	14808-79-8	J(M1)
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:14		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A Dup **Lab ID: 35338743003** Collected: 09/29/17 08:44 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.52	Std. Units			1		10/02/17 11:27		
Field Temperature	23.8	deg C			1		10/02/17 11:27		
Field Specific Conductance	2130	umhos/cm			1		10/02/17 11:27		
Oxygen, Dissolved	0.13	mg/L			1		10/02/17 11:27	7782-44-7	
REDOX	-106.1	mV			1		10/02/17 11:27		
Turbidity	19.15	NTU			1		10/02/17 11:27		
Depth to Water	2.85	feet			1		10/02/17 11:27		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	10/02/17 13:40	10/03/17 08:34	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	10/02/17 13:40	10/03/17 08:34	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	3840	ug/L	100	100	10		10/06/17 11:09	74-84-0	
Ethene	554	ug/L	100	100	10		10/06/17 11:09	74-85-1	
Methane	29900	ug/L	100	100	10		10/06/17 11:09	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	388	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:42	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 14:33	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	107-13-1	
Benzene	4.2	ug/L	1.0	0.10	1		10/02/17 14:33	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 14:33	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 14:33	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	56-23-5	
Chlorobenzene	3.0	ug/L	1.0	0.50	1		10/02/17 14:33	108-90-7	
Chloroethane	1.9 I	ug/L	10.0	0.50	1		10/02/17 14:33	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 14:33	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 14:33	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	107-06-2	
1,1-Dichloroethene	11.2	ug/L	1.0	0.50	1		10/02/17 14:33	75-35-4	
cis-1,2-Dichloroethene	347	ug/L	50.0	25.0	50		10/03/17 07:13	156-59-2	J(P6)
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.50	1		10/02/17 14:33	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A Dup		Lab ID: 35338743003		Collected: 09/29/17 08:44		Received: 09/29/17 18:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:33	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:33	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 14:33	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 14:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 14:33	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	127-18-4	
Toluene	10.4	ug/L	1.0	0.50	1		10/02/17 14:33	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 14:33	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 14:33	108-05-4	
Vinyl chloride	2580	ug/L	50.0	25.0	50		10/03/17 07:13	75-01-4	J(P6)
Xylene (Total)	4.7	ug/L	3.0	1.5	1		10/02/17 14:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	89-111		1		10/02/17 14:33	460-00-4	J(S0)
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		10/02/17 14:33	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		10/02/17 14:33	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B							
Carbon Dioxide, Free	9.7	mg/L			1		10/10/17 17:24		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	114	mg/L	25.0	12.5	5		10/02/17 09:31	16887-00-6	
Sulfate	37.5	mg/L	25.0	12.5	5		10/02/17 09:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:16		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 1B **Lab ID: 35338743004** Collected: 09/29/17 09:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.31	Std. Units			1		10/02/17 11:29		
Field Temperature	24.2	deg C			1		10/02/17 11:29		
Field Specific Conductance	1190	umhos/cm			1		10/02/17 11:29		
Oxygen, Dissolved	0.12	mg/L			1		10/02/17 11:29	7782-44-7	
REDOX	-55.4	mV			1		10/02/17 11:29		
Turbidity	1.36	NTU			1		10/02/17 11:29		
Depth to Water	8.15	feet			1		10/02/17 11:29		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 08:49	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 08:49	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	239	ug/L	10.0	10.0	1		10/06/17 11:24	74-84-0	
Ethene	430	ug/L	10.0	10.0	1		10/06/17 11:24	74-85-1	
Methane	12000	ug/L	10.0	10.0	1		10/06/17 11:24	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	134	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:46	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 14:59	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	107-13-1	
Benzene	1.5	ug/L	1.0	0.10	1		10/02/17 14:59	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 14:59	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 14:59	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 14:59	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 14:59	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 14:59	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	107-06-2	
1,1-Dichloroethene	229	ug/L	100	50.0	100		10/03/17 07:39	75-35-4	
cis-1,2-Dichloroethene	5180	ug/L	100	50.0	100		10/03/17 07:39	156-59-2	
trans-1,2-Dichloroethene	15.6	ug/L	1.0	0.50	1		10/02/17 14:59	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1B **Lab ID: 35338743004** Collected: 09/29/17 09:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:59	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:59	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 14:59	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 14:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 14:59	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	127-18-4	
Toluene	4.3	ug/L	1.0	0.50	1		10/02/17 14:59	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	79-00-5	
Trichloroethene	1.3	ug/L	1.0	0.50	1		10/02/17 14:59	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 14:59	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 14:59	108-05-4	
Vinyl chloride	3070	ug/L	100	50.0	100		10/03/17 07:39	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 14:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		10/02/17 14:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		10/02/17 14:59	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/02/17 14:59	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	3.8	mg/L			1		10/10/17 17:30		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	98.7	mg/L	25.0	12.5	5		10/02/17 09:54	16887-00-6	
Sulfate	77.0	mg/L	25.0	12.5	5		10/02/17 09:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:17		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 2A **Lab ID: 35338743005** Collected: 09/29/17 10:58 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.30	Std. Units			1		10/02/17 11:31		
Field Temperature	24.3	deg C			1		10/02/17 11:31		
Field Specific Conductance	1650	umhos/cm			1		10/02/17 11:31		
Oxygen, Dissolved	0.10	mg/L			1		10/02/17 11:31	7782-44-7	
REDOX	-92.0	mV			1		10/02/17 11:31		
Turbidity	4.38	NTU			1		10/02/17 11:31		
Depth to Water	3.20	feet			1		10/02/17 11:31		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 09:04	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	10/02/17 13:40	10/03/17 09:04	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	495	ug/L	10.0	10.0	1		10/06/17 11:39	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 11:39	74-85-1	
Methane	11900	ug/L	10.0	10.0	1		10/06/17 11:39	74-82-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	197	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:50	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 01:46	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	107-13-1	
Benzene	0.99 I	ug/L	1.0	0.10	1		10/03/17 01:46	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 01:46	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 01:46	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	56-23-5	
Chlorobenzene	1.3	ug/L	1.0	0.50	1		10/03/17 01:46	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 01:46	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 01:46	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 01:46	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-35-4	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	0.50	1		10/03/17 01:46	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 2A **Lab ID: 35338743005** Collected: 09/29/17 10:58 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 01:46	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 01:46	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 01:46	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 01:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 01:46	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 01:46	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 01:46	108-05-4	
Vinyl chloride	1.4	ug/L	1.0	0.50	1		10/03/17 01:46	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 01:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		10/03/17 01:46	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/03/17 01:46	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		10/03/17 01:46	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	6.9	mg/L			1		10/10/17 17:37		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	63.7	mg/L	25.0	12.5	5		10/02/17 10:17	16887-00-6	
Sulfate	46.6	mg/L	25.0	12.5	5		10/02/17 10:17	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:18		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 2B **Lab ID: 35338743006** Collected: 09/29/17 11:51 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.48	Std. Units			1		10/02/17 11:32		
Field Temperature	25.8	deg C			1		10/02/17 11:32		
Field Specific Conductance	1568	umhos/cm			1		10/02/17 11:32		
Oxygen, Dissolved	0.19	mg/L			1		10/02/17 11:32	7782-44-7	
REDOX	-71.9	mV			1		10/02/17 11:32		
Turbidity	0.67	NTU			1		10/02/17 11:32		
Depth to Water	8.50	feet			1		10/02/17 11:32		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	10/02/17 13:40	10/03/17 09:18	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	10/02/17 13:40	10/03/17 09:18	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	187	ug/L	10.0	10.0	1		10/06/17 11:55	74-84-0	
Ethene	79.7	ug/L	10.0	10.0	1		10/06/17 11:55	74-85-1	
Methane	4960	ug/L	10.0	10.0	1		10/06/17 11:55	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	233	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:54	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 15:49	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	107-13-1	
Benzene	0.78 I	ug/L	1.0	0.10	1		10/02/17 15:49	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 15:49	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 15:49	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 15:49	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 15:49	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 15:49	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	107-06-2	
1,1-Dichloroethene	4.0	ug/L	1.0	0.50	1		10/02/17 15:49	75-35-4	
cis-1,2-Dichloroethene	275	ug/L	50.0	25.0	50		10/03/17 08:04	156-59-2	
trans-1,2-Dichloroethene	0.73 I	ug/L	1.0	0.50	1		10/02/17 15:49	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 2B **Lab ID: 35338743006** Collected: 09/29/17 11:51 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 15:49	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 15:49	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 15:49	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 15:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 15:49	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 15:49	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 15:49	108-05-4	
Vinyl chloride	1110	ug/L	50.0	25.0	50		10/03/17 08:04	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 15:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		10/02/17 15:49	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		10/02/17 15:49	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		10/02/17 15:49	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	5.1	mg/L			1		10/10/17 17:44		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	92.9	mg/L	25.0	12.5	5		10/02/17 10:41	16887-00-6	
Sulfate	122	mg/L	25.0	12.5	5		10/02/17 10:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 I	mg/L	0.050	0.025	1		09/30/17 09:19		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: MW 100-6 **Lab ID: 35338743007** Collected: 09/29/17 13:01 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.45	Std. Units			1		10/02/17 11:33		
Field Temperature	23.9	deg C			1		10/02/17 11:33		
Field Specific Conductance	716	umhos/cm			1		10/02/17 11:33		
Oxygen, Dissolved	0.07	mg/L			1		10/02/17 11:33	7782-44-7	
REDOX	-58.4	mV			1		10/02/17 11:33		
Turbidity	7.60	NTU			1		10/02/17 11:33		
Depth to Water	8.65	feet			1		10/02/17 11:33		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 09:33	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 09:33	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	36.6	ug/L	10.0	10.0	1		10/06/17 12:10	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 12:10	74-85-1	
Methane	7650	ug/L	10.0	10.0	1		10/06/17 12:10	74-82-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	34.6	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:58	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 02:11	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/03/17 02:11	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 02:11	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 02:11	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:11	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 02:11	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 02:11	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-35-4	
cis-1,2-Dichloroethene	0.81 I	ug/L	1.0	0.50	1		10/03/17 02:11	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: MW 100-6 **Lab ID: 35338743007** Collected: 09/29/17 13:01 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:11	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:11	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:11	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 02:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 02:11	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 02:11	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 02:11	108-05-4	
Vinyl chloride	0.89 I	ug/L	1.0	0.50	1		10/03/17 02:11	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 02:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		10/03/17 02:11	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/03/17 02:11	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/03/17 02:11	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	2.9	mg/L			1		10/10/17 18:03		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	49.0	mg/L	5.0	2.5	1		10/02/17 11:04	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/02/17 11:04	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:21		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: B5-28 **Lab ID: 35338743008** Collected: 09/29/17 13:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.56	Std. Units			1		10/02/17 11:34		
Field Temperature	24.9	deg C			1		10/02/17 11:34		
Field Specific Conductance	1181	umhos/cm			1		10/02/17 11:34		
Oxygen, Dissolved	0.09	mg/L			1		10/02/17 11:34	7782-44-7	
REDOX	-112.7	mV			1		10/02/17 11:34		
Turbidity	3.48	NTU			1		10/02/17 11:34		
Depth to Water	2.15	feet			1		10/02/17 11:34		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 09:48	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	10/02/17 13:40	10/03/17 09:48	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	64.0	ug/L	10.0	10.0	1		10/06/17 12:25	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 12:25	74-85-1	
Methane	4570	ug/L	10.0	10.0	1		10/06/17 12:25	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	74.2	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 23:54	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 02:36	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	107-13-1	
Benzene	0.28 I	ug/L	1.0	0.10	1		10/03/17 02:36	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 02:36	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 02:36	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	56-23-5	
Chlorobenzene	1.9	ug/L	1.0	0.50	1		10/03/17 02:36	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:36	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 02:36	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 02:36	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-35-4	
cis-1,2-Dichloroethene	0.83 I	ug/L	1.0	0.50	1		10/03/17 02:36	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: B5-28 **Lab ID: 35338743008** Collected: 09/29/17 13:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:36	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:36	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:36	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 02:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 02:36	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 02:36	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 02:36	108-05-4	
Vinyl chloride	3.9	ug/L	1.0	0.50	1		10/03/17 02:36	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 02:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		10/03/17 02:36	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/03/17 02:36	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/03/17 02:36	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	5.6	mg/L			1		10/10/17 18:16		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	24.7	mg/L	5.0	2.5	1		10/04/17 03:42	16887-00-6	
Sulfate	4.4 I	mg/L	5.0	2.5	1		10/04/17 03:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 3B **Lab ID: 35338743009** Collected: 09/29/17 14:43 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.29	Std. Units			1		10/02/17 11:35		
Field Temperature	26.3	deg C			1		10/02/17 11:35		
Field Specific Conductance	1753	umhos/cm			1		10/02/17 11:35		
Oxygen, Dissolved	0.18	mg/L			1		10/02/17 11:35	7782-44-7	
REDOX	-68.7	mV			1		10/02/17 11:35		
Turbidity	8.93	NTU			1		10/02/17 11:35		
Depth to Water	11.08	feet			1		10/02/17 11:35		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 10:03	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.0099	0.0075	1	10/02/17 13:40	10/03/17 10:03	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	661	ug/L	100	100	10		10/06/17 12:41	74-84-0	
Ethene	741	ug/L	100	100	10		10/06/17 12:41	74-85-1	
Methane	31500	ug/L	100	100	10		10/06/17 12:41	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	102	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 23:58	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 17:05	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	107-13-1	
Benzene	4.7	ug/L	1.0	0.10	1		10/02/17 17:05	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 17:05	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 17:05	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	56-23-5	
Chlorobenzene	5.1	ug/L	1.0	0.50	1		10/02/17 17:05	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:05	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 17:05	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 17:05	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	107-06-2	
1,1-Dichloroethene	1290	ug/L	100	50.0	100		10/03/17 23:20	75-35-4	
cis-1,2-Dichloroethene	8660	ug/L	100	50.0	100		10/03/17 23:20	156-59-2	
trans-1,2-Dichloroethene	150	ug/L	100	50.0	100		10/03/17 23:20	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 3B **Lab ID: 35338743009** Collected: 09/29/17 14:43 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:05	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:05	10061-02-6	
Ethylbenzene	1.3	ug/L	1.0	0.50	1		10/02/17 17:05	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:05	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 17:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 17:05	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	127-18-4	
Toluene	5.1	ug/L	1.0	0.50	1		10/02/17 17:05	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	79-00-5	
Trichloroethene	1560	ug/L	100	50.0	100		10/03/17 23:20	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 17:05	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 17:05	108-05-4	
Vinyl chloride	1940	ug/L	100	50.0	100		10/03/17 23:20	75-01-4	
Xylene (Total)	3.8	ug/L	3.0	1.5	1		10/02/17 17:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	89-111		1		10/02/17 17:05	460-00-4	J(HS), J(S0)
1,2-Dichloroethane-d4 (S)	96	%	75-135		1		10/02/17 17:05	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		10/02/17 17:05	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	6.6	mg/L			1		10/10/17 18:23		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	136	mg/L	25.0	12.5	5		10/02/17 11:51	16887-00-6	
Sulfate	9.8	mg/L	5.0	2.5	1		10/04/17 04:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:28		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 3A **Lab ID: 35338743010** Collected: 09/29/17 15:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.23	Std. Units			1		10/02/17 11:44		
Field Temperature	24.7	deg C			1		10/02/17 11:44		
Field Specific Conductance	1739	umhos/cm			1		10/02/17 11:44		
Oxygen, Dissolved	0.05	mg/L			1		10/02/17 11:44	7782-44-7	
REDOX	-70.4	mV			1		10/02/17 11:44		
Turbidity	3.30	NTU			1		10/02/17 11:44		
Depth to Water	4.00	feet			1		10/02/17 11:44		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 10:17	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 10:17	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	719	ug/L	100	100	10		10/06/17 12:57	74-84-0	
Ethene	549	ug/L	100	100	10		10/06/17 12:57	74-85-1	
Methane	32200	ug/L	100	100	10		10/06/17 12:57	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	87.3	mg/L	1.0	0.50	1	10/04/17 15:00	10/07/17 00:02	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 17:30	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	107-13-1	
Benzene	6.2	ug/L	1.0	0.10	1		10/02/17 17:30	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 17:30	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 17:30	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	56-23-5	
Chlorobenzene	5.9	ug/L	1.0	0.50	1		10/02/17 17:30	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:30	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 17:30	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 17:30	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	107-06-2	
1,1-Dichloroethene	645	ug/L	250	125	250		10/03/17 13:56	75-35-4	
cis-1,2-Dichloroethene	3600	ug/L	250	125	250		10/03/17 13:56	156-59-2	
trans-1,2-Dichloroethene	65.4	ug/L	1.0	0.50	1		10/02/17 17:30	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 3A **Lab ID: 35338743010** Collected: 09/29/17 15:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:30	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:30	10061-02-6	
Ethylbenzene	2.4	ug/L	1.0	0.50	1		10/02/17 17:30	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:30	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 17:30	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	127-18-4	
Toluene	5.0	ug/L	1.0	0.50	1		10/02/17 17:30	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	79-00-5	
Trichloroethene	1310	ug/L	250	125	250		10/03/17 13:56	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 17:30	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 17:30	108-05-4	
Vinyl chloride	1060	ug/L	250	125	250		10/03/17 13:56	75-01-4	
Xylene (Total)	7.2	ug/L	3.0	1.5	1		10/02/17 17:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	89-111		1		10/02/17 17:30	460-00-4	J(HS), J(S0)
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		10/02/17 17:30	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		10/02/17 17:30	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	6.7	mg/L			1		10/10/17 18:31		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	133	mg/L	25.0	12.5	5		10/02/17 12:14	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/04/17 04:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:29		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 5B **Lab ID: 35338743011** Collected: 09/29/17 16:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.35	Std. Units			1		10/02/17 11:45		
Field Temperature	24.7	deg C			1		10/02/17 11:45		
Field Specific Conductance	1853	umhos/cm			1		10/02/17 11:45		
Oxygen, Dissolved	0.09	mg/L			1		10/02/17 11:45	7782-44-7	
REDOX	-105.5	mV			1		10/02/17 11:45		
Turbidity	5.89	NTU			1		10/02/17 11:45		
Depth to Water	5.42	feet			1		10/02/17 11:45		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	10/02/17 13:40	10/03/17 10:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	10/02/17 13:40	10/03/17 10:32	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	149	ug/L	100	100	10		10/06/17 13:13	74-84-0	
Ethene	100 U	ug/L	100	100	10		10/06/17 13:13	74-85-1	
Methane	31900	ug/L	100	100	10		10/06/17 13:13	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	99.2	mg/L	1.0	0.50	1	10/04/17 15:00	10/07/17 00:06	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 03:01	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	107-13-1	
Benzene	1.4	ug/L	1.0	0.10	1		10/03/17 03:01	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 03:01	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 03:01	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	56-23-5	
Chlorobenzene	7.1	ug/L	1.0	0.50	1		10/03/17 03:01	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 03:01	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 03:01	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 03:01	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	107-06-2	
1,1-Dichloroethene	2.3	ug/L	1.0	0.50	1		10/03/17 03:01	75-35-4	
cis-1,2-Dichloroethene	8.1	ug/L	1.0	0.50	1		10/03/17 03:01	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 5B **Lab ID: 35338743011** Collected: 09/29/17 16:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 03:01	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 03:01	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 03:01	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 03:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 03:01	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	79-00-5	
Trichloroethene	3.6	ug/L	1.0	0.50	1		10/03/17 03:01	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 03:01	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 03:01	108-05-4	
Vinyl chloride	9.9	ug/L	1.0	0.50	1		10/03/17 03:01	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 03:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		10/03/17 03:01	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		10/03/17 03:01	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		10/03/17 03:01	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	7.8	mg/L			1		10/10/17 18:39		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	89.3	mg/L	25.0	12.5	5		10/02/17 13:25	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/04/17 04:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:31		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 4B **Lab ID: 35338743012** Collected: 09/29/17 17:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.53	Std. Units			1		10/02/17 11:46		
Field Temperature	25.5	deg C			1		10/02/17 11:46		
Field Specific Conductance	972	umhos/cm			1		10/02/17 11:46		
Oxygen, Dissolved	0.16	mg/L			1		10/02/17 11:46	7782-44-7	
REDOX	-85.4	mV			1		10/02/17 11:46		
Turbidity	1.24	NTU			1		10/02/17 11:46		
Depth to Water	7.00	feet			1		10/02/17 11:46		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 10:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 10:47	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	136	ug/L	10.0	10.0	1		10/06/17 13:28	74-84-0	
Ethene	125	ug/L	10.0	10.0	1		10/06/17 13:28	74-85-1	
Methane	8180	ug/L	10.0	10.0	1		10/06/17 13:28	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	115	mg/L	1.0	0.50	1	10/04/17 15:00	10/07/17 00:11	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 18:20	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	107-13-1	
Benzene	0.33 I	ug/L	1.0	0.10	1		10/02/17 18:20	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 18:20	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 18:20	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 18:20	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 18:20	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 18:20	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	107-06-2	
1,1-Dichloroethene	2.0	ug/L	1.0	0.50	1		10/02/17 18:20	75-35-4	
cis-1,2-Dichloroethene	293	ug/L	50.0	25.0	50		10/03/17 14:21	156-59-2	
trans-1,2-Dichloroethene	0.63 I	ug/L	1.0	0.50	1		10/02/17 18:20	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 4B **Lab ID: 35338743012** Collected: 09/29/17 17:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 18:20	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 18:20	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 18:20	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 18:20	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	127-18-4	
Toluene	1.2	ug/L	1.0	0.50	1		10/02/17 18:20	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	79-00-5	
Trichloroethene	3.5	ug/L	1.0	0.50	1		10/02/17 18:20	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 18:20	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 18:20	108-05-4	
Vinyl chloride	1080	ug/L	50.0	25.0	50		10/03/17 14:21	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 18:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		10/02/17 18:20	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		10/02/17 18:20	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		10/02/17 18:20	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	3.3	mg/L			1		10/10/17 18:45		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	79.5	mg/L	10.0	5.0	2		10/02/17 13:48	16887-00-6	
Sulfate	21.8	mg/L	10.0	5.0	2		10/02/17 13:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:32		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Trip Blank 9/29/17 **Lab ID:** 35338743013 **Collected:** 09/29/17 00:01 **Received:** 09/29/17 18:10 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 11:37	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 11:37	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 11:37	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 11:37	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 11:37	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 11:37	74-87-3	
1,2-Dibromo-3-chloropropane	1.0 U	ug/L	5.0	1.0	1		10/02/17 11:37	96-12-8	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 11:37	124-48-1	
1,2-Dibromoethane (EDB)	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	106-93-4	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 11:37	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 11:37	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 11:37	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 11:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 11:37	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 11:37	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 11:37	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-01-4	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Trip Blank 9/29/17 **Lab ID:** 35338743013 Collected: 09/29/17 00:01 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 11:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	89-111		1		10/02/17 11:37	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		10/02/17 11:37	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		10/02/17 11:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 381026

Analysis Method: RSK 175 Modified

QC Batch Method: RSK 175 Modified

Analysis Description: RSK 175 HEADSPACE

Associated Lab Samples: 35338743002

METHOD BLANK: 2111443

Matrix: Water

Associated Lab Samples: 35338743002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	ug/L	10.0 U	10.0	10.0	10/05/17 10:37	
Ethene	ug/L	10.0 U	10.0	10.0	10/05/17 10:37	
Methane	ug/L	18.0	10.0	10.0	10/05/17 10:37	

LABORATORY CONTROL SAMPLE: 2111444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	658	677	103	70-130	
Ethene	ug/L	1120	1250	111	70-130	
Methane	ug/L	396	386	98	70-130	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	381517	Analysis Method:	RSK 175 Modified
QC Batch Method:	RSK 175 Modified	Analysis Description:	RSK 175 HEADSPACE
Associated Lab Samples:	35338743001, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2114222	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	ug/L	10.0 U	10.0	10.0	10/06/17 10:38	
Ethene	ug/L	10.0 U	10.0	10.0	10/06/17 10:38	
Methane	ug/L	10.0 U	10.0	10.0	10/06/17 10:38	

LABORATORY CONTROL SAMPLE & LCSD: 2114223			2114224							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	658	700	696	106	106	70-130	1	20	
Ethene	ug/L	1120	1040	1050	93	94	70-130	1	20	
Methane	ug/L	396	436	412	110	104	70-130	6	20	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	396661	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2163901	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sodium	mg/L	0.50 U	1.0	0.50	10/05/17 21:25	

LABORATORY CONTROL SAMPLE: 2163902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	12.5	13.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163903 2163904

Parameter	Units	35337707003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sodium	mg/L	13.0	12.5	12.5	27.6	26.3	116	106	75-125	5	20	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 396104 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35338743001, 35338743002, 35338743003, 35338743004, 35338743006, 35338743009, 35338743010, 35338743012, 35338743013

METHOD BLANK: 2160495 Matrix: Water
Associated Lab Samples: 35338743001, 35338743002, 35338743003, 35338743004, 35338743006, 35338743009, 35338743010, 35338743012, 35338743013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/02/17 11:12	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	10/02/17 11:12	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	10/02/17 11:12	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Acetone	ug/L	10.0 U	20.0	10.0	10/02/17 11:12	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Benzene	ug/L	0.10 U	1.0	0.10	10/02/17 11:12	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/02/17 11:12	
Bromoform	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/02/17 11:12	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/02/17 11:12	
Chloroform	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/02/17 11:12	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 11:12	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	10/02/17 11:12	
Dibromomethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/02/17 11:12	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/02/17 11:12	
Styrene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Toluene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

METHOD BLANK: 2160495

Matrix: Water

Associated Lab Samples: 35338743001, 35338743002, 35338743003, 35338743004, 35338743006, 35338743009, 35338743010, 35338743012, 35338743013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 11:12	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/02/17 11:12	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/02/17 11:12	
1,2-Dichloroethane-d4 (S)	%	105	75-135		10/02/17 11:12	
4-Bromofluorobenzene (S)	%	91	89-111		10/02/17 11:12	
Toluene-d8 (S)	%	101	89-112		10/02/17 11:12	

LABORATORY CONTROL SAMPLE: 2160496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	103	70-130	
1,1,1-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.1	111	70-130	
1,1,2-Trichloroethane	ug/L	20	22.7	114	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethene	ug/L	20	17.8	89	65-134	
1,2,3-Trichloropropane	ug/L	20	19.4	97	65-135	
1,2-Dibromo-3-chloropropane	ug/L	20	22.0	110	62-133	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	20	21.7	108	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	70-130	
1,2-Dichloropropane	ug/L	20	19.9	99	70-130	
1,4-Dichlorobenzene	ug/L	20	21.1	106	70-130	
2-Butanone (MEK)	ug/L	40	36.3	91	61-129	
2-Hexanone	ug/L	40	39.4	99	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	43.5	109	70-130	
Acetone	ug/L	40	33.8	85	44-155	
Acrylonitrile	ug/L	200	195	98	59-138	
Benzene	ug/L	20	20.3	102	70-130	
Bromochloromethane	ug/L	20	20.4	102	70-130	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	21.2	106	62-129	
Bromomethane	ug/L	20	17.7	89	10-179	
Carbon disulfide	ug/L	20	19.1	95	40-156	
Carbon tetrachloride	ug/L	20	19.3	97	66-127	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	20.1	101	57-142	
Chloroform	ug/L	20	19.6	98	70-130	
Chloromethane	ug/L	20	17.0	85	45-150	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

LABORATORY CONTROL SAMPLE: 2160496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	19.7	99	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	70-130	
Dibromochloromethane	ug/L	20	21.7	109	70-130	
Dibromomethane	ug/L	20	18.7	93	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
Iodomethane	ug/L	40	30.4	76	21-150	
Methylene Chloride	ug/L	20	17.7	88	65-127	
Styrene	ug/L	20	22.6	113	70-130	
Tetrachloroethene	ug/L	20	20.5	102	48-155	
Toluene	ug/L	20	20.7	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.5	82	46-138	
Trichloroethene	ug/L	20	20.9	105	69-129	
Trichlorofluoromethane	ug/L	20	20.2	101	60-144	
Vinyl acetate	ug/L	20	19.8	99	70-130	
Vinyl chloride	ug/L	20	20.3	102	67-136	
Xylene (Total)	ug/L	60	63.4	106	70-130	
1,2-Dichloroethane-d4 (S)	%			94	75-135	
4-Bromofluorobenzene (S)	%			98	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2161384

Parameter	Units	35338743003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20.9	105	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.3	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	22.7	113	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	22.5	112	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1-Dichloroethene	ug/L	11.2	20	28.0	84	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	25.6	128	65-135	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	19.8	99	62-133	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.1	91	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.1	101	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	33.0	83	61-129	
2-Hexanone	ug/L	5.0 U	40	39.5	99	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.2	93	70-130	
Acetone	ug/L	10.0 U	40	30.8	72	44-155	
Acrylonitrile	ug/L	5.0 U	200	167	83	59-138	
Benzene	ug/L	4.2	20	24.2	100	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.9	95	70-130	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

MATRIX SPIKE SAMPLE: 2161384		35338743003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromodichloromethane	ug/L	0.27 U	20	18.3	91	70-130	
Bromoform	ug/L	0.50 U	20	19.1	95	62-129	
Bromomethane	ug/L	0.50 U	20	12.9	64	10-179	
Carbon disulfide	ug/L	5.0 U	20	17.8	89	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	19.6	98	66-127	
Chlorobenzene	ug/L	3.0	20	23.6	103	70-130	
Chloroethane	ug/L	1.9 I	20	24.1	111	57-142	
Chloroform	ug/L	0.50 U	20	19.6	98	70-130	
Chloromethane	ug/L	0.62 U	20	18.7	93	45-150	
cis-1,2-Dichloroethene	ug/L	347	20	377	151	70-130 J(P6)	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.3	87	70-130	
Dibromochloromethane	ug/L	0.26 U	20	20.6	103	70-130	
Dibromomethane	ug/L	0.50 U	20	17.1	85	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.0	103	70-130	
Iodomethane	ug/L	0.50 U	40	29.4	73	21-150	
Methylene Chloride	ug/L	2.5 U	20	16.6	83	65-127	
Styrene	ug/L	0.50 U	20	21.8	109	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.2	91	48-155	
Toluene	ug/L	10.4	20	31.0	103	70-130	
trans-1,2-Dichloroethene	ug/L	1.2	20	19.8	93	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	18.6	93	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	13.7	68	46-138	
Trichloroethene	ug/L	0.50 U	20	19.8	99	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	21.7	109	60-144	
Vinyl acetate	ug/L	1.0 U	20	17.5	88	70-130	
Vinyl chloride	ug/L	2580	20	2540	-225	67-136 J(P6)	
Xylene (Total)	ug/L	4.7	60	67.8	105	70-130	
1,2-Dichloroethane-d4 (S)	%				100	75-135	
4-Bromofluorobenzene (S)	%				94	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2161383

Parameter	Units	35338743002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	11.2	11.5	3	40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

SAMPLE DUPLICATE: 2161383

Parameter	Units	35338743002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	3.9	3.9	0	40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	2.9	3.0	4	40	
Chloroethane	ug/L	1.3 I	1.4 I		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	351	341	3	40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	9.3	9.9	6	40	
trans-1,2-Dichloroethene	ug/L	1.2	1.2	2	40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	2450	2470	1	40	
Xylene (Total)	ug/L	4.3	4.6	7	40	
1,2-Dichloroethane-d4 (S)	%	103	104	2	40	
4-Bromofluorobenzene (S)	%	91	89	2	40	
Toluene-d8 (S)	%	101	103	2	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 396251 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35338743005, 35338743007, 35338743008, 35338743011

METHOD BLANK: 2161402 Matrix: Water
Associated Lab Samples: 35338743005, 35338743007, 35338743008, 35338743011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/02/17 22:49	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	10/02/17 22:49	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Acetone	ug/L	10.0 U	20.0	10.0	10/02/17 22:49	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Benzene	ug/L	0.10 U	1.0	0.10	10/02/17 22:49	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/02/17 22:49	
Bromoform	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/02/17 22:49	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/02/17 22:49	
Chloroform	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/02/17 22:49	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 22:49	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	10/02/17 22:49	
Dibromomethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/02/17 22:49	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/02/17 22:49	
Styrene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Toluene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 22:49	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

METHOD BLANK: 2161402

Matrix: Water

Associated Lab Samples: 35338743005, 35338743007, 35338743008, 35338743011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/02/17 22:49	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/02/17 22:49	
1,2-Dichloroethane-d4 (S)	%	110	75-135		10/02/17 22:49	
4-Bromofluorobenzene (S)	%	94	89-111		10/02/17 22:49	
Toluene-d8 (S)	%	103	89-112		10/02/17 22:49	

LABORATORY CONTROL SAMPLE & LCSD: 2161403

2162245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.4	18.4	92	92	70-130	0	40	
1,1,1-Trichloroethane	ug/L	20	18.8	18.8	94	94	70-130	0	40	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	20.2	84	101	70-130	19	40	
1,1,2-Trichloroethane	ug/L	20	18.4	19.4	92	97	70-130	5	40	
1,1-Dichloroethane	ug/L	20	19.9	19.5	99	97	70-130	2	40	
1,1-Dichloroethene	ug/L	20	18.0	17.8	90	89	65-134	1	40	
1,2,3-Trichloropropane	ug/L	20	17.0	20.9	85	105	65-135	21	40	
1,2-Dichlorobenzene	ug/L	20	21.0	21.2	105	106	70-130	1	40	
1,2-Dichloroethane	ug/L	20	17.6	18.1	88	91	70-130	3	40	
1,2-Dichloropropane	ug/L	20	19.4	19.6	97	98	70-130	1	40	
1,4-Dichlorobenzene	ug/L	20	21.2	21.1	106	105	70-130	1	40	
2-Butanone (MEK)	ug/L	40	21.6	32.3	54	81	61-129	40	40	J(L2)
2-Hexanone	ug/L	40	24.6	39.0	62	97	68-131	45	40	J(L2),J(R1)
4-Methyl-2-pentanone (MIBK)	ug/L	40	29.0	40.4	72	101	70-130	33	40	
Acetone	ug/L	40	26.1	39.2	65	98	44-155	40	40	
Acrylonitrile	ug/L	200	153	194	77	97	59-138	23	40	
Benzene	ug/L	20	19.8	19.6	99	98	70-130	1	40	
Bromochloromethane	ug/L	20	18.8	18.9	94	94	70-130	0	40	
Bromodichloromethane	ug/L	20	18.8	18.6	94	93	70-130	1	40	
Bromoform	ug/L	20	17.2	18.8	86	94	62-129	9	40	
Bromomethane	ug/L	20	15.0	14.1	75	70	10-179	6	40	
Carbon disulfide	ug/L	20	20.6	19.7	103	99	40-156	5	40	
Carbon tetrachloride	ug/L	20	17.2	17.2	86	86	66-127	0	40	
Chlorobenzene	ug/L	20	19.4	19.0	97	95	70-130	2	40	
Chloroethane	ug/L	20	21.0	19.8	105	99	57-142	6	40	
Chloroform	ug/L	20	19.3	19.0	97	95	70-130	2	40	
Chloromethane	ug/L	20	17.3	17.4	86	87	45-150	1	40	
cis-1,2-Dichloroethene	ug/L	20	19.4	19.4	97	97	70-130	0	40	
cis-1,3-Dichloropropene	ug/L	20	17.4	17.8	87	89	70-130	2	40	
Dibromochloromethane	ug/L	20	16.9	17.7	85	88	70-130	4	40	
Dibromomethane	ug/L	20	17.2	17.9	86	90	70-130	4	40	
Ethylbenzene	ug/L	20	20.9	20.8	105	104	70-130	0	40	
Iodomethane	ug/L	40	29.8	30.0	75	75	21-150	1	40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

LABORATORY CONTROL SAMPLE & LCSD: 2161403			2162245							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methylene Chloride	ug/L	20	20.4	18.2	102	91	65-127	11	40	
Styrene	ug/L	20	19.4	19.4	97	97	70-130	0	40	
Tetrachloroethene	ug/L	20	17.4	17.8	87	89	48-155	2	40	
Toluene	ug/L	20	19.1	18.9	96	95	70-130	1	40	
trans-1,2-Dichloroethene	ug/L	20	18.4	18.6	92	93	68-126	1	40	
trans-1,3-Dichloropropene	ug/L	20	17.0	18.0	85	90	70-130	6	40	
trans-1,4-Dichloro-2-butene	ug/L	20	15.4	18.1	77	90	46-138	16	40	
Trichloroethene	ug/L	20	18.5	18.4	92	92	69-129	0	40	
Trichlorofluoromethane	ug/L	20	18.2	17.5	91	87	60-144	4	40	
Vinyl acetate	ug/L	20	16.8	19.6	84	98	70-130	15	40	
Vinyl chloride	ug/L	20	18.0	17.9	90	90	67-136	1	40	
Xylene (Total)	ug/L	60	63.5	62.8	106	105	70-130	1	40	
1,2-Dichloroethane-d4 (S)	%				102	102	75-135		40	
4-Bromofluorobenzene (S)	%				98	97	89-111		40	
Toluene-d8 (S)	%				99	101	89-112		40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	395878	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2158867	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/03/17 05:53	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/03/17 05:53	

LABORATORY CONTROL SAMPLE:	2158868					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.19	76	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.17	69	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2160636			2160637								
Parameter	Units	35338443005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0065 U	.44	.44	0.70	0.60	159	138	60-140	14	40	J(M1)
1,2-Dibromoethane (EDB)	ug/L	0.0076 U	.44	.44	0.60	0.55	138	125	60-140	10	40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	397752	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2170727	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Carbon Dioxide, Free	mg/L	0.023			10/10/17 16:07	

SAMPLE DUPLICATE: 2170729

Parameter	Units	35338349001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon Dioxide, Free	mg/L	1.7	1.7	1		

SAMPLE DUPLICATE: 2170730

Parameter	Units	35338743007 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon Dioxide, Free	mg/L	2.9	2.9	0		

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	396019	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2160157	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/02/17 06:23	
Sulfate	mg/L	2.5 U	5.0	2.5	10/02/17 06:23	

LABORATORY CONTROL SAMPLE: 2160158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.5	93	90-110	
Sulfate	mg/L	50	45.9	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160159 2160160

Parameter	Units	35338743002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	112	250	250	349	353	95	96	90-110	1	20	
Sulfate	mg/L	36.9	250	250	258	259	88	89	90-110	1	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160161 2160162

Parameter	Units	35338808001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.2	50	50	70.5	70.2	99	98	90-110	0	20	
Sulfate	mg/L	4.1 I	50	50	48.6	48.4	89	88	90-110	0	20	J(M1)

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 396630 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35338743008, 35338743009, 35338743010, 35338743011

METHOD BLANK: 2163755 Matrix: Water
Associated Lab Samples: 35338743008, 35338743009, 35338743010, 35338743011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/04/17 06:03	
Sulfate	mg/L	2.5 U	5.0	2.5	10/04/17 06:03	

LABORATORY CONTROL SAMPLE: 2163756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Sulfate	mg/L	50	46.7	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163757 2163758

Parameter	Units	35338743011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	104	50	50	159	159	109	109	90-110	0	20	L
Sulfate	mg/L	2.5 U	50	50	47.3	47.4	92	92	90-110	0	20	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	395921	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2159303	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	09/30/17 09:01	

SAMPLE DUPLICATE: 2159305

Parameter	Units	35338711003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2159307

Parameter	Units	35338743008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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QUALIFIERS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte
PASI-O Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: 396251
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U Compound was analyzed for but not detected.
J(HS) Estimated Value. Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
J(L2) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(P6) Estimated Value. Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
J(R1) Estimated Value. RPD value was outside control limits.
J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.
L Off-scale high. Actual value is known to be greater than value given.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338743002	TMW 1A				
35338743003	TMW 1A Dup				
35338743004	TMW 1B				
35338743005	TMW 2A				
35338743006	TMW 2B				
35338743007	MW 100-6				
35338743008	B5-28				
35338743009	TMW 3B				
35338743010	TMW 3A				
35338743011	TMW 5B				
35338743012	TMW 4B				
35338743001	Equipment Blank 9/29/17	EPA 8011	395878	EPA 8011	396226
35338743002	TMW 1A	EPA 8011	395878	EPA 8011	396226
35338743003	TMW 1A Dup	EPA 8011	395878	EPA 8011	396226
35338743004	TMW 1B	EPA 8011	395878	EPA 8011	396226
35338743005	TMW 2A	EPA 8011	395878	EPA 8011	396226
35338743006	TMW 2B	EPA 8011	395878	EPA 8011	396226
35338743007	MW 100-6	EPA 8011	395878	EPA 8011	396226
35338743008	B5-28	EPA 8011	395878	EPA 8011	396226
35338743009	TMW 3B	EPA 8011	395878	EPA 8011	396226
35338743010	TMW 3A	EPA 8011	395878	EPA 8011	396226
35338743011	TMW 5B	EPA 8011	395878	EPA 8011	396226
35338743012	TMW 4B	EPA 8011	395878	EPA 8011	396226
35338743001	Equipment Blank 9/29/17	RSK 175 Modified	381517		
35338743002	TMW 1A	RSK 175 Modified	381026		
35338743003	TMW 1A Dup	RSK 175 Modified	381517		
35338743004	TMW 1B	RSK 175 Modified	381517		
35338743005	TMW 2A	RSK 175 Modified	381517		
35338743006	TMW 2B	RSK 175 Modified	381517		
35338743007	MW 100-6	RSK 175 Modified	381517		
35338743008	B5-28	RSK 175 Modified	381517		
35338743009	TMW 3B	RSK 175 Modified	381517		
35338743010	TMW 3A	RSK 175 Modified	381517		
35338743011	TMW 5B	RSK 175 Modified	381517		
35338743012	TMW 4B	RSK 175 Modified	381517		
35338743001	Equipment Blank 9/29/17	EPA 3010	396661	EPA 6010	396725
35338743002	TMW 1A	EPA 3010	396661	EPA 6010	396725
35338743003	TMW 1A Dup	EPA 3010	396661	EPA 6010	396725
35338743004	TMW 1B	EPA 3010	396661	EPA 6010	396725
35338743005	TMW 2A	EPA 3010	396661	EPA 6010	396725
35338743006	TMW 2B	EPA 3010	396661	EPA 6010	396725
35338743007	MW 100-6	EPA 3010	396661	EPA 6010	396725
35338743008	B5-28	EPA 3010	396661	EPA 6010	396725
35338743009	TMW 3B	EPA 3010	396661	EPA 6010	396725
35338743010	TMW 3A	EPA 3010	396661	EPA 6010	396725
35338743011	TMW 5B	EPA 3010	396661	EPA 6010	396725

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338743012	TMW 4B	EPA 3010	396661	EPA 6010	396725
35338743001	Equipment Blank 9/29/17	EPA 8260	396104		
35338743002	TMW 1A	EPA 8260	396104		
35338743003	TMW 1A Dup	EPA 8260	396104		
35338743004	TMW 1B	EPA 8260	396104		
35338743005	TMW 2A	EPA 8260	396251		
35338743006	TMW 2B	EPA 8260	396104		
35338743007	MW 100-6	EPA 8260	396251		
35338743008	B5-28	EPA 8260	396251		
35338743009	TMW 3B	EPA 8260	396104		
35338743010	TMW 3A	EPA 8260	396104		
35338743011	TMW 5B	EPA 8260	396251		
35338743012	TMW 4B	EPA 8260	396104		
35338743013	Trip Blank 9/29/17	EPA 8260	396104		
35338743001	Equipment Blank 9/29/17	SM 2320B	397752		
35338743002	TMW 1A	SM 2320B	397752		
35338743003	TMW 1A Dup	SM 2320B	397752		
35338743004	TMW 1B	SM 2320B	397752		
35338743005	TMW 2A	SM 2320B	397752		
35338743006	TMW 2B	SM 2320B	397752		
35338743007	MW 100-6	SM 2320B	397752		
35338743008	B5-28	SM 2320B	397752		
35338743009	TMW 3B	SM 2320B	397752		
35338743010	TMW 3A	SM 2320B	397752		
35338743011	TMW 5B	SM 2320B	397752		
35338743012	TMW 4B	SM 2320B	397752		
35338743001	Equipment Blank 9/29/17	EPA 300.0	396019		
35338743002	TMW 1A	EPA 300.0	396019		
35338743003	TMW 1A Dup	EPA 300.0	396019		
35338743004	TMW 1B	EPA 300.0	396019		
35338743005	TMW 2A	EPA 300.0	396019		
35338743006	TMW 2B	EPA 300.0	396019		
35338743007	MW 100-6	EPA 300.0	396019		
35338743008	B5-28	EPA 300.0	396019		
35338743008	B5-28	EPA 300.0	396630		
35338743009	TMW 3B	EPA 300.0	396019		
35338743009	TMW 3B	EPA 300.0	396630		
35338743010	TMW 3A	EPA 300.0	396019		
35338743010	TMW 3A	EPA 300.0	396630		
35338743011	TMW 5B	EPA 300.0	396019		
35338743011	TMW 5B	EPA 300.0	396630		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338743012	TMW 4B	EPA 300.0	396019		
35338743001	Equipment Blank 9/29/17	EPA 353.2	395921		
35338743002	TMW 1A	EPA 353.2	395921		
35338743003	TMW 1A Dup	EPA 353.2	395921		
35338743004	TMW 1B	EPA 353.2	395921		
35338743005	TMW 2A	EPA 353.2	395921		
35338743006	TMW 2B	EPA 353.2	395921		
35338743007	MW 100-6	EPA 353.2	395921		
35338743008	B5-28	EPA 353.2	395921		
35338743009	TMW 3B	EPA 353.2	395921		
35338743010	TMW 3A	EPA 353.2	395921		
35338743011	TMW 5B	EPA 353.2	395921		
35338743012	TMW 4B	EPA 353.2	395921		

REPORT OF LABORATORY ANALYSIS

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WO#: 35338743



35338743



Y / Analytical Request Document

L DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A

Required Client Information: Company: Volusia County Solid Waste Management Address: 1990 Tomoka Farms Road Daytona Beach, FL 32124 Email: Phone: Fax:		Invoice Information: Report To: Ms. Jennifer Stirk Copy To: Purchase Order #: Project Name: Tomoka LF BS Remediation Project #:	
Requested Due Date:		Preservatives: H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	
Requested Analysis Filtered (Y/N)		Analyses Test Y/N	

ITEM #	MATRIX CODE (A-Z, 0-9 / , -) Sample Ids must be unique	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
		START	END								Received on	Sealed
1	EQUIPMENT BLANK	9/27/17	0750	WT S	APC	9/27/17	17:15	1299	9/29/17	18:10	1.2	Y
2	TMW 1A		0844									
3	TMW 1A/Duplicate		0844									
4	TMW 1B		0947									
5	TMW 2A		1050									
6	TMW 2B		1151									
7	TMW 100-6		1301									
8	BS-28		1347									
9	TMW 3B		1443									
10	TMW 3A		1532									
11	TMW 5B		1632									
12	TMW 4B		1732									

ADDITIONAL COMMENTS 2 SETS TRIP BLANKS APC JPL/pace		TEMP in C 1.2 05	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: MARY GILBERT SIGNATURE of SAMPLER: M Gilbert		DATE SIGNED 9-29-17	

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTEER SOLID WASTE		SITE LOCATION: RONKA LF	
WELL NO: EQUIPMENT BLANK	SAMPLE ID: EQUIPMENT BLANK	DATE: 9-29-17	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>							DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
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					
	1	HDPE	250	ICE			NO3, SO4, ALK, CL		APP		400
	1	HDPE	250	HNO3			METALS		|		|
	3	AG	40	HCL			BZEO		|		|
	2	CG	↓	ICE			DOH		|		|
	2	CG	↓	ICE			RSK		|		|
REMARKS:											
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: <u>DAKOTA COUNTY SOLID WASTE</u>		SITE LOCATION: <u>TRUCKA LF</u>	
WELL NO: <u>TMW 1A</u>	SAMPLE ID: <u>TMW 1A / DUPLICATE</u>	DATE: <u>9-29-17</u>	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1 1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	310	PURGE PUMP TYPE OR BAILER:	PP
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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)

= (33.80 feet - 3.10 feet) X 0.16 gallons/foot = 9.912 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): 5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 0807	PURGING ENDED AT: 0844	TOTAL VOLUME PURGED (gallons): 8.51
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[illegible]

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: Mark Carabet / Mace	SAMPLER(S) SIGNATURE(S): [Signature]	SAMPLING INITIATED AT: 0844	SAMPLING ENDED AT: 0855
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PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HOPE, S	FIELD-FILTERED: Y <u>N</u> 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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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			
	1	HDPE	250	ICE		6.52	NO ₃ , SO ₄ , ALK, CL	APP	400
	1	HDPE	250	HNO ₃		<2	METALS	|	|
	3	AG	40	HCL		<2	B260		
	2	CG	↓	ICE		6.52	B011	|	|
	2	CG	↓	ICE		6.52	R5K		

REMARKS

00P-83.1 00P-90.2 00P-103.0 00P-106.

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;
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
GROUNDWATER SAMPLING LOG

SITE NAME: POLUSIA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW1B	SAMPLE ID: TMW1B		DATE: 9-29-15

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	2.95	PURGE PUMP TYPE OR BAILER:	PP
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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)

= (44.57 feet - 7.95 feet) X 0.16 gallons/foot = 5.8592 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): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 0903	PURGING ENDED AT: 0944	TOTAL VOLUME PURGED (gallons): 8.80
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[illegible]

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: MARCO GILBERT / PACE	SAMPLER(S) SIGNATURE(S): [Signature]	SAMPLING INITIATED AT: 0947	SAMPLING ENDED AT: 0955
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PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HDPE, 5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ μm
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FIELD DECONTAMINATION:	PUMP	Y	(N)	TUBING	Y	(N (replaced))	DUPLICATE:	Y	(N)
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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			
	1	HDPE	250	ICP		6.31	NO ₃ , EL, SO ₄ , ALK	APP	~400
	1	HDPE	250	HNO ₃		~2	METALS		
	3	AG	40	HCL		~2	BZCO		
	2	CG	1	ICP		6.31	VOIS		
	2	CG	1	ICP		6.31	RSK		

REMARKS:

OSP-71.8 OSP-73.7 OSP-55.4

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: $\pm 5\%$ 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: VOLUGA CANNY SOUND ASTO		SITE LOCATION: TOMONA LF	
WELL NO: TMW 2A	SAMPLE ID: TMW 2A		DATE: 9-29-17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.40	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (34.45 feet - 3.40 feet) X 0.16 gallons/foot = 4968 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): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1021	PURGING ENDED AT: 1058	TOTAL VOLUME PURGED (gallons): 7.40

[illegible]

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: MARK GILBERT / PACE		SAMPLER(S) SIGNATURE(S): <i>MSA</i>		SAMPLING INITIATED AT: 1058	SAMPLING ENDED AT: 1103
PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE: HOPO, S	FIELD-FILTERED: Y (N)	Filtration Equipment Type: _____	
PUMP OR TUBING DEPTH IN WELL (feet):		FIELD-FILTERED: Y (N)		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			
	1	HDPE	250	ICE		6.30	NO ₃ , SO ₄ , AM, CL	APP	400
	1	HDPE	250	HNO ₃		<2	metals	|	|
	3	AG	40	HCL		<2	8260	|	|
	2	CG	1	ICE		6.30	2011	|	|
	2	CG	1	ICE		6.30	RSK	|	|

REMARKS:

02P-87.4 02P-90.1 02P-92.0

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: VOLusia COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW 2B	SAMPLE ID: TMW 2B		DATE: 9-29-17

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	8.25	PURGE PUMP TYPE OR BAILER:	pp
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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)

= (44.45 feet - 8.25 feet) X 0.16 gallons/foot = 5.792 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

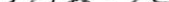
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 1108	PURGING ENDED AT: 1151	TOTAL VOLUME PURGED (gallons): 8.60
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[illegible]

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" = 0.014

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK SILBERT / PACE	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1151	SAMPLING ENDED AT: 1156
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PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE.5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — μm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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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			
	1	HDPe	250	ICE		6.48	NO ₃ , SO ₄ , ALK, CL	APP	400
	1	HDPe	250	HNO ₃		<2	METALS	|	|
	3	AG	40	HCL		<2	8260	|	|
	2	CG	1	ICE		6.48	DON	|	|
	2	CG	1	ICE		6.48	RSK	|	|

REMARKS:

ORP -74.4 ORP -73.0 ORP -71.9

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); Q = 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: VOLUSIA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: MW 100-6	SAMPLE ID: MW 100-6		DATE: 9-29-17

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK GIBSON / PACE				SAMPLER(S) SIGNATURE(S): [Signature]			SAMPLING INITIATED AT: 1301		SAMPLING ENDED AT: 1305	
PUMP OR TUBING DEPTH IN WELL (feet): 12				TUBING MATERIAL CODE: HOPE-5			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				
	1	HOPE	250	ICE		6.45	ANALYSIS	APP	400	
	1	HOPE	250	HNO3		<2	METALS	1	1	
	3	AG	40	HCL		<2	B260	1	1	
	2	CG	1	ICE		6.45	B211	1	1	
	2	CG	1	ICE		6.45	RSK	1	1	

REMARKS:

00P - 45.5 00P - 54.3 00P - 58.4

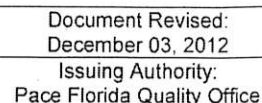
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

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: $\pm 5\%$ 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)



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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTEER COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW 4B	SAMPLE ID: TMW 4B		DATE: 9-29-17

PURGING DATA

[illegible]

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: MARK GILBERT / PACE				SAMPLER(S) SIGNATURE(S): <i>msl</i>			SAMPLING INITIATED AT: 1732		SAMPLING ENDED AT: 1738		
PUMP OR TUBING DEPTH IN WELL (feet): 16				TUBING MATERIAL CODE: HOPE, S			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> Filtration Equipment Type:		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> (replaced)							DUPLICATE: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>				
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					
	1	HOPE	250	ICE		6.53	NO3/NO4, CL, ARS		APP		400
	1	HOPE	250	HNO3		5.2	METALS				
	3	AG	40	HCL		5.2	8260				
	2	CG	1	ICE		6.53	2011				
	2	CG	1	ICE		6.53	PSC				

REMARKS:

OLD-90.7 OLD-89.9 OLD-88.4

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: $\pm 5\%$ 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 $+ 10\%$ (whichever is greater)

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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTEER COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LA	
WELL NO: B S. 28	SAMPLE ID: BS-28	DATE: 4-29-17	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	2.20	PURGE PUMP TYPE OR BAILER:	PP
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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)
= 29.40 feet - 2.20 feet X 0.16 gallons/foot = 4.352 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): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1315	PURGING ENDED AT: 1347	TOTAL VOLUME PURGED (gallons): 640
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[illegible]

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: MARK CILBERT / PACE	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1347	SAMPLING ENDED AT: 1351
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PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE 5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ µm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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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			
	1	HDPe	250	ICE		6.56	NO ₃ /SO ₄ ALK, CL	APP	400
	1	HDPe	250	HNO ₃		<2	metals	|	|
	3	Ag	40	HCL		<2	B260	|	|
	2	Cg	1	ICB		6.56	B011	|	|
	2	Cg	1	ICE		6.56	RStk	|	|

REMARKS:

ORP - 114.4 ORP - 112.9 ORP - 112.7

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:** $\pm 0.2^{\circ}\text{C}$ **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2\text{ mg/L}$ or $+10\%$ (whichever is greater) **Turbidity:** all readings $\leq 20\text{ NTU}$; optionally $+5\text{ NTU}$ or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTA COUNTY SOLID WASTE		SITE LOCATION: TOWN OF ALF	
WELL NO: TMW 3B	SAMPLE ID: TMW 3B	DATE: 9-29-17	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	9.87	PURGE PUMP TYPE OR BAILER:	PP
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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)
= (44.05 feet - 9.87 feet) X 0.16 gallons/foot = 5.4688 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):	15	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	17	PURGING INITIATED AT:	1401	PURGING ENDED AT:	1443	TOTAL VOLUME PURGED (gallons)	840
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[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.08; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL.): 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: miller GILBERT / PACE	SAMPLER(S) SIGNATURE(S): miller	SAMPLING INITIATED AT: 1443	SAMPLING ENDED AT: 1449
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PUMP OR TUBING DEPTH IN WELL (feet): 17	TUBING MATERIAL CODE: HOPE.S	FIELD-FILTERED: Y <input checked="" type="radio"/> N Filtration Equipment Type:	FILTER SIZE: _____ µm
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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			
	1	HDPE	250	ICE		6.29	NO3SO4CL ALK	APP	400
	1	HDPE	250	HNO3		5.2	metals	1	1
	3	AG	40	HCL		5.2	8260	1	1
	2	CG	1	ICE		6.29	8011	1	1
	2	CG	1	ICE		6.29	RS4	1	1

REMARKS:

orp - 57.3 orp - 69.5 orp - 68.7

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:** $\pm 5\%$ **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: VOLUNTA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW 3A	SAMPLE ID: TMW 3A		DATE: 9-28-17

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	4.15	PURGE PUMP TYPE OR BAILER:	PP
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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)

= 34.60 feet - 4.15 feet X 0.16 gallons/foot = 4.872 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): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1532	TOTAL VOLUME PURGED (gallons): 740
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[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.08; 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: MARCO RUBIO PACE	SAMPLER(S) SIGNATURE(S): [Signature]	SAMPLING INITIATED AT: 1532	SAMPLING ENDED AT: 1536
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PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE.5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ µm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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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			
	1	HDPE	250	ICE		6.23	NO ₃ , CL, SO ₄ , ALK	APP	400
	1	HDPE	250	HA03		<2	metals	|	|
	3	AG	40	HCL		<2	B260	|	|
	2	CG	↓	ICE		6.23	B011	|	|
	2	CG	↓	ICE		6.27	RSK		

REMARKS:

OSP-68.6 OSP-69.9 OSP-70.4

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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2k) 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)



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 12

Document Revised:
August 2, 2017
Issuing Authority:
Pace Florida Quality Office

WO#: 35338743

(SCUR)

Project # PM: JSB Due Date: 10/16/17
Project Manager: CLIENT: VOLDPW
Client:

Date and Initials of person:

Examining contents: *JS*

Label: *JS*

Deliver: *JS*

pH: *7.5*

Thermometer Used: *T-299*

Date: *9/29/17*

Time: *1830* Initials: *IDH*

State of Origin: *FL*

Cooler #1 Temp. °C *0.4* (Visual) *+0.1* (Correction Factor) *0.5* (Actual)

Cooler #2 Temp. °C *1.1* (Visual) (Correction Factor) *1.2* (Actual)

Cooler #3 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. °C (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

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☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sufficient Volume	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Headspace found in all three 8260's for sample 009
Headspace found in 2 of 2 8260's for sample 001010

Project Manager Review:

Date: