Quarterly Progress Report

First Quarter 2020 Reporting Period

May 2020

FF/NN Landfill NPL Site
Ripon, Wisconsin

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1.0 Introduction

In April 2019, TRC was retained by the FF/NN Landfill Potentially Responsible Party (PRP) Group (Group) to conduct operations and maintenance (O&M) and quarterly monitoring activities at the FF/NN Landfill NPL Site (Site), in Ripon, Wisconsin. This Quarterly Progress Report presents site activities during the First Quarter (Q1) of 2020 and is intended to fulfill applicable portions of reporting requirements specified in the Revised Groundwater Monitoring Program (GMP) as outlined in the April 18, 2013 conditional approval letter (as amended on June 8, 2017) (WDNR, 2013; 2017).

2.0 Quarterly Changes and Important Dates

This section describes important dates tasks were performed, changes in routine tasks, and exceptions to the GMP made in Q1 2020. No changes nor exceptions were made in Q1 2020 to monitoring, site activities, or to the GMP.

The February 24, 2011 Institutional Control Study/Plan (IC Plan) prepared by Tetra Tech GEO requires documentation of the protectiveness of specific institutional controls (ICs). Documentation of institutional control compliance occurred during Q1 2020 and will be summarized on an annual basis during the annual summary report completed after the Second Quarter (Q2).

2.1 Dates of Importance

The following dates detail sampling events, deliverables, correspondence, and meetings:

- February 25-26 2020, Quarter 1 2020 groundwater sampling event in accordance with the GMP (WDNR, 2013, 2017).
- March 23, 2020, Fourth Quarter 2019 Quarterly Progress Report Submitted to WDNR.
- March 26, 2020, GEMS transmittal, Q1 2020 monitoring data.

3.0 Summary of Observation and Monitoring Data

3.1 Water Elevation Measurements

Groundwater monitoring wells associated with the FF/NN Landfill site are grouped into four hydrostratigraphic units (Layer 1, Layer 2, Layer 3, and Layer 4) based on well screen elevations to better evaluate groundwater quality at discrete intervals. Table 1 notes the grouping of wells in their respective layers.

In accordance with the GMP (WDNR 2013; 2017), groundwater elevations were measured at 12 monitoring wells associated with the Site on February 25 and 26, 2020. Field forms from the Q1 2020 measurement event are included in Appendix A. Elevations are summarized in Table 1. Groundwater elevations for wells in Layers 1 and 2 were not measured. Groundwater elevations measured in Layer 3 indicated a consistent flow direction compared with previous sampling events and as such no figure depicting groundwater flow is provided in this report. Groundwater elevations measured in Layer 4 displayed southwesterly flow.

3.1.1 *Layer 4 Groundwater Elevations*

Figure 1 depicts the estimated groundwater flow direction in Layer 4 for data collected in Q1 2020. The City of Ripon occasionally pumps from Municipal Well #9, which influences the groundwater flow direction in Layer 4. When Well #9 is not operational, groundwater flow is toward the west or southwest. When Well #9 is operational, groundwater flow is toward the southeast. Conversations with Mr. Chris Liveris, Utility Manager for the City of Ripon, confirmed that Well #9 was not in operation during the Q1 2020 sampling event due to the pump needing to be rebuilt and reservoir cleaning. Well #9 was not operational from January 28, 2020 to approximately March 12, 2020. The southwesterly flow direction observed in Layer 4 during the Q1 2020 is indicative of flow conditions when Well #9 is not operational.

3.2 Groundwater Quality Monitoring

This subsection includes an evaluation of the groundwater quality for the Q1 2020 reporting period. As the extent of impact is similar to previous sampling events, no figure depicting concentrations is included in this report.

3.2.1 *First Quarter 2020*

Groundwater samples were collected using low-flow sampling methods from 12 monitoring wells on February 25 and 26, 2020 by TRC. Groundwater samples were analyzed by CT Laboratories for VOCs using EPA Method 8260C. Field forms are included in Appendix A. Analytical results are included in Appendix B. VOC results exceeding the Wisconsin Administrative Code (WAC) Chapter NR 140 Enforcement Standard (ES) and the Preventive Action Limits (PAL) are included in Table 2.

Groundwater samples collected during Q1 2020 were also analyzed for monitored natural attenuation (MNA) parameters including: nitrate + nitrite as nitrogen (EPA 353.2), sulfate (EPA 9056A), and manganese (EPA 6010C). A summary table of natural attenuation parameters and all detected analytical results is included in Table 3.

Field parameters were measured at all monitoring wells including: dissolved oxygen (DO), oxygen-reduction potential (ORP), temperature, pH, and specific conductance. Field parameters were measured during sampling using an In-Situ Smart Troll MP flow cell meter.

3.2.1.1 **Constituents of Concern**

Contaminants of concern (COC) at the Site include chlorinated VOCs (CVOCs) trichloroethene (TCE) and its dechlorination products; cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC). In the 12 wells sampled during the Q1 2020, VC was the only COC detected exceeding the ES and PAL. TCE was detected at concentrations below the PAL. The following summarizes the distribution of VOCs detected in each hydrostratigraphic unit:

- No wells in Layer 1 nor Layer 2 were sampled, thus no groundwater data is available for these wells.

- Nine monitoring wells were sampled in Layer 3. VC exceeded the ES at wells P-103D, P-111D, P-114, P-115, and P-117 and the PAL at wells MW-3B and P-118. The extent of VC is unchanged from previous data and interpretations noted during 2019 (TRC, 2019a; 2019b; and 2020).
- Three monitoring wells were sampled in Layer 4. VC was detected only in P-107D at a level exceeding the ES. This detection is within the historical range of concentrations detected at this well.
- Other VOC detections were at concentrations below their respective PALs. Detections of note included:
  - Chlorinated compounds including, chloroethane, cis-1,2-DCE, trans-1,2-DCE, and TCE were noted at low levels in some wells containing VC. Benzene was also detected in P-103D and P-117, both below PAL.
  - Chloromethane and methylene chloride were detected in the trip blank. These detections are likely due to laboratory or transport contamination. Based on this detection and detection in the method blank, all chloromethane detections at monitoring wells were flagged with the "u" qualifier as undetected.
  - Chloromethane and carbon disulfide were detected in the method blank. These detections are likely due to laboratory contamination. Results for these detections are not listed in Table 3.

3.3 Landfill Gas Extraction System Operations

The landfill gas treatment system has been operational since 2005 (GeoTrans, 2005). Landfill gas is extracted from gas vent GV-6 and the three deeper leachate collection wells (LC-1, LC-2, and LC-3). On September 5, 2019 GV-4 was reconnected to the system. The other gas vents have remained closed to prevent oxygen levels from increasing above 5%. This subsection includes a discussion of system repairs and an evaluation of landfill gas monitoring results at the Site during the Q1 2020. Table 4 summarizes the results of landfill gas monitoring during this reporting period.

3.3.1 Landfill Gas Extraction System Troubleshooting and Repairs

3.3.1.1 System Repairs

During Q1 2020 the gas extraction system shut down on multiple occasions due to high liquid level in the system knockout tank. Due to weather and wet site conditions, accessing the knockout tank to remove water was difficult, resulting in the system being shut down for periods of time. Overall, the system was shut down between December 30, 2019 and January 6, 2020; March 5 and 6, 2020; March 8 and 23, and March 29 and 30, 2020 due to issues with too much water in the system. TRC suspects leaks in the below grade condensate tank and vault located just upgradient of the blower system, allows accumulation of water from rainwater or snowmelt in the vault and tank. Vacuum from the blower system pulls the accumulating water into the system knockout tank, causing the system to shut down. TRC is evaluating repairs or an optional bypass

of the below grade condensate tank to eliminate this issue. The leaks do not appear to impact vacuum performance at each extraction point when the below grade tank is not full of water.

During the February 7, 2020 inspection, an excessive noise was observed from the blower operation. The system was shut down and the trailer heater component was found to not be working properly. The heater was replaced on February 10, 2020, and system operations were carefully monitored between February 10 and 17, 2020 to ensure the heater continued to work. The system was on and off periodically during this time due to water freezing in the extraction lines. After further inspection and clearing of the lines on February 17, 2020, the system returned to full operation on a consistent basis.

3.3.2 Landfill Gas Measurements

Sections below discuss observations noted during landfill gas monitoring and subsequent adjustments made to the system to improve treatment performance.

3.3.2.1 Gas Extraction Well Monitoring

TRC or the City of Ripon personnel were onsite on a biweekly basis while the system was operating between January 6 and March 30, 2020 to inspect and monitor the landfill gas extraction system. Gas measurements (% oxygen, methane, and carbon dioxide) and vacuum readings were periodically collected from the five gas extraction points (LC-1, LC-2, LC-3, GV-4, and GV-6) when the system was in operation. In addition, gas measurements were collected from gas probes GP-1 and GP-2, the blower exhaust, and ambient air (background) for comparison purposes. TRC adjusted valve positioning on the extraction well headers to optimize the landfill gas extraction system, as needed. Repositioning was based on measured methane and oxygen concentrations and vacuum readings recorded during the monitoring events. A summary of the monitoring data from each visit are included in Table 4.

3.3.2.2 Gas Probe Monitoring

TRC personnel were onsite on February 17, 2020 restarting the system and onsite February 26, 2020 for the quarterly site visit. Gas measurements were collected (% oxygen, methane, and carbon dioxide) from the 10 existing gas probes (GP) including GP-1 through GP-7 and GP-10 through GP-12 located surrounding the landfill. As noted above, gas probes GP-1 and GP-2 were also monitored during the biweekly site visit. Overall, during Q1 2020, offsite methane migration was only observed at a very low concentration (0.1 % methane by volume) in GP-1 on February 7, 2020. No other monitoring rounds detected methane at any of the offsite gas probes. Based on the results of the gas probe monitoring during Q1 2020, current system operations are controlling offsite methane migration.

4.0 References

GeoTrans. 2005. Pilot Test for Landfill Gas Extraction System. FF/NN Landfill, Ripon, Wisconsin. June 29, 2005.

Tetra Tech GEO. 2011. Institutional Control Study/Plan, FF/NN Landfill NPL Site (Ripon City Landfill), Ripon Wisconsin. February 24, 2011.

TRC. 2019a. Quarterly Progress Report, First and Second Quarter 2019 Reporting Period, FF/NN Landfill NPL Site, Ripon, Wisconsin. August 2019.

TRC. 2019b. Quarterly Progress Report, Third Quarter 2019 Reporting Period, FF/NN Landfill NPL Site, Ripon, Wisconsin. December 2019.

TRC. 2020. Quarterly Progress Report, Fourth Quarter 2019 Reporting Period, FF/NN Landfill NPL Site, Ripon, Wisconsin. March 23, 2020.

WDNR. 2013. Conditional Approval of Revised Groundwater Monitoring Program for the Ripon HWY FF/NN Landfill. Ripon HWY FF/NN Landfill, License #467, Ripon, WI, WDNR BRRTS #02-20-000915. April 18, 2013.

WDNR. 2017. Proposed Second Replacement Sentinel Monitoring Well Work Plan Approval for Ripon HWY FF/NN Landfill. License #467, Ripon, WI, WDNR BRRTS #02-20-000915. June 8, 2017.

Tables

Table 1: Water Levels
FF/NN Landfill
Ripon, Wisconsin
First Quarter 2020

Well Name	GW Layer	TOC Elevation (Feet AMSL)	Q1 Depth to Water (Feet) 2/25/2020	Q1 GW Elevation (Feet AMSL) 2/25/2020
MW-101	1	884.73	NM	NM
P-101	2	885.39	NM	NM
MW-102	1	842.90	NM	NM
P-102	2	842.85	NM	NM
MW-103	1	872.30	NM	NM
P-103	2	872.74	NM	NM
P-103D	3	872.91	49.56	823.35
MW-104	1	875.20	NM	NM
P-104	2	875.40	NM	NM
MW-106	1	878.75	NM	NM
P-106	2	878.80	NM	NM
MW-107	1	871.69	NM	NM
P-107	2	871.33	NM	NM
P-107D	4	871.90	49.57	822.33
MW-108	1	845.08	NM	NM
P-108	2	845.48	NM	NM
MW-111	1	856.09	NM	NM
P-111	2	856.28	NM	NM
P-111D	3	855.56	34.11	821.45
MW-112	1	874.70	NM	NM
P-113A	4	833.16	14.41	818.75
P-113B	3	833.16	12.22	820.94
P-114	3	839.36	18.75	820.61
P-115	3	842.67	21.91	820.76
P-116	3	845.86	25.91	819.95
P-117	3	833.96	14.97	818.99
P-118	3	826.74	7.82	818.92
MW-3A	4	850.60	27.98	822.62
MW-3B	3	850.89	28.48	822.41
LC-1	1	876.15	NM	NM
LC-2	1	866.05	NM	NM
LC-3	1	877.34	NM	NM

Notes:
GW - Groundwater
TOC - Top of Casing
AMSL - Above Mean Sea Level
NM = Well not measured

Created by: A. Sobbe 3/5/2020
Checked by: E. Maxwell 3/5/2020

Table 2: Parameters That Exceed Current NR140 Standards
FF/NN Landfill
Ripon, Wisconsin
First Quarter 2020

Chemical Parameter	Units	NR140 PAL	NR140 ES	Well ID	Date	Result	Data Flags	Exceedance
Manganese, total	µg/L	25	50	MW-003A	2/25/2020	**456**		ES
				MW-003A DUP	2/25/2020	**450**		ES
				MW-003B	2/25/2020	**74**		ES
				P-103D	2/26/2020	**80.4**		ES
				P-107D	2/25/2020	**189**		ES
				P-111D	2/25/2020	*34.2*		PAL
				P-113B	2/25/2020	*36.4*		PAL
				P-114	2/25/2020	**62.6**		ES
				P-115 (WIESE)	2/25/2020	**125**		ES
				P-116 (HADEL)	2/25/2020	**118**		ES
				P-117	2/25/2020	**203**		ES
				P-118	2/25/2020	**102**		ES
Vinyl chloride	µg/L	0.02	0.2	MW-003B	2/25/2020	*0.035*	J	PAL
				P-103D	2/26/2020	**0.22**		ES
				P-107D	2/25/2020	**2.1**		ES
				P-111D	2/25/2020	**3**		ES
				P-114	2/25/2020	**7.4**		ES
				P-115 (WIESE)	2/25/2020	**0.72**		ES
				P-117	2/25/2020	**1.1**		ES
				P-118	2/25/2020	*0.024*	J	PAL

Notes:

1. µg/l = micrograms per liter (ppb).
2. mg/L = milligrams per liter (ppm).
2. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
3. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
4. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
5. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
6. J = Reported concentration is estimated, between the Limit of Detection (LOD) and the Limit Of Quantitation (LOQ).

Table 3: Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
First Quarter 2020

Parameter	Units	NR140 ES	NR 140 PAL	MW-003A 2/25/2020 391698	MW-003A Dup 2/25/2020 391700	MW-003B 2/25/2020 391699	P-103D 2/26/2020 391697	P-107D 2/25/2020 391696	P-111D 2/25/2020 391695	P-113A 2/26/2020 391687
Field Parameters										
Depth to water	Feet			27.98		28.48	49.56	49.57	34.11	14.41
Water elevation	Feet			822.62		822.41	823.35	822.33	821.45	818.75
pH, field	SU			7.43		7.70	7.37	7.44	7.45	7.42
Conductance, specific	µmhos/cm			582.8		678.0	812.1	612.2	927.2	578.3
ORP	mV			-146.1		-209.3	-115.6	-121.4	-136.2	-8.1
Oxygen, dissolved	mg/L			0.18		0.08	0.31	1.31	0.17	0.67
Turbidity, field				NONE		NONE	NONE	NONE	NONE	NONE
Temperature	Deg C			8.49		8.56	8.29	7.42	8.62	8.59
Color, field				NONE		NONE	NONE	NONE	NONE	NONE
Odor, field				NONE		SL SULF	NONE	NONE	NONE	NONE
Inorganic Analytes										
Nitrogen, nitrate + nitrite, total	mg/L	10	2	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Sulfate, total	mg/L	250	125	20	21	49	71	25	59	12
Manganese, total	µg/L	50	25	**456**	**450**	**74**	**80.4**	**189**	*34.2*	21.8
Organic Analytes										
Benzene	µg/L	5	0.5	< 0.019	< 0.019	< 0.019	0.022 J	< 0.019	< 0.019	< 0.019
Chloroethane	µg/L	400	80	< 0.023	< 0.023	< 0.023	< 0.023	0.45	0.89	< 0.023
Chloromethane	µg/L	30	3	0.084 Ju	0.083 Ju	0.073 Ju	0.082 Ju	0.053 Ju	0.11 u	0.037 Ju
cis-1,2-Dichloroethene	µg/L	70	7	< 0.027	< 0.027	< 0.027	0.25	0.66	2.8	< 0.027
Methylene chloride	µg/L	5	0.5	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Naphthalene	µg/L	100	10	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Toluene	µg/L	800	160	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
trans-1,2-dichloroethene	µg/L	100	20	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	0.035 J	< 0.029
Trichloroethene	µg/L	5	0.5	< 0.025	< 0.025	< 0.025	0.062 J	0.043 J	< 0.025	< 0.025
Vinyl chloride	µg/L	0.2	0.02	< 0.013	< 0.013	*0.035 J*	**0.22**	**2.1**	**3**	< 0.013

Notes:

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celsius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
9. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential
13. J = Reported concentration is estimated, between the Limit of Detection (LOD) and the Limit Of Quantitation (LOQ)
14. u = Result is noted in the method blank and the trip blank and the concentration was flagged during data review as undetected.

Table 3: Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
First Quarter 2020

Parameter	Units	NR140 ES	NR 140 PAL	P-113B 2/25/2020 391689	P-114 2/25/2020 391690	P-115 (Wiese) 2/25/2020 391691	P-116 (Hadel) 2/25/2020 391692	P-117 2/25/2020 391693	P-118 2/25/2020 391694	Trip Blank 2/25/2020 391701
Field Parameters										
Depth to water	Feet			12.22	18.75	21.91	25.91	14.97	7.82	
Water elevation	Feet			820.94	820.61	820.76	819.95	818.99	818.92	
pH, field	SU			6.98	7.44	7.57	7.50	7.41	7.50	
Conductance, specific	µmhos/cm			669.7	809.8	655.7	550.7	774.7	607.4	
ORP	mV			-118.0	-125.7	-123.5	-26.0	-126.0	-128.7	
Oxygen, dissolved	mg/L			0.13	0.12	0.26	0.29	0.23	0.41	
Turbidity, field				NONE	NONE	SLIGHT	NONE	NONE	NONE	
Temperature	Deg C			12.39	9.23	9.45	9.17	9.33	9.30	
Color, field				NONE	NONE	YES	NONE	NONE	NONE	
Odor, field				NONE	NONE	NONE	NONE	NONE	NONE	
Inorganic Analytes										
Nitrogen, nitrate + nitrite, total	mg/L	10	2	< 0.057	< 0.057	< 0.057	0.24 j+	0.089 Jj+	< 0.057	
Sulfate, total	mg/L	250	125	73	58	40	14	54	23	
Manganese, total	µg/L	50	25	*36.4*	**62.6**	**125**	**118**	**203**	**102**	
Organic Analytes										
Benzene	µg/L	5	0.5	< 0.019	< 0.019	< 0.019	< 0.019	0.022 J	< 0.019	< 0.019
Chloroethane	µg/L	400	80	< 0.023	0.27	< 0.023	< 0.023	0.35	< 0.023	< 0.023
Chloromethane	µg/L	30	3	0.048 Ju	0.039 Ju	0.04 Ju	0.062 Ju	0.084 Ju	0.084 Ju	0.49
cis-1,2-Dichloroethene	µg/L	70	7	< 0.027	1.8	0.17	< 0.027	0.69	< 0.027	< 0.027
Methylene chloride	µg/L	5	0.5	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.4
Naphthalene	µg/L	100	10	< 0.022	< 0.022	< 0.022	< 0.022	0.034 J	< 0.022	< 0.022
Toluene	µg/L	800	160	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	0.02 J	< 0.017
trans-1,2-dichloroethene	µg/L	100	20	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
Trichloroethene	µg/L	5	0.5	< 0.025	< 0.025	< 0.025	< 0.025	0.047 J	< 0.025	< 0.025
Vinyl chloride	µg/L	0.2	0.02	< 0.013	**7.4**	**0.72**	< 0.013	**1.1**	*0.024 J*	< 0.013

Notes:

Created by: P. Popp, 3/23/2020

Reviewed by: A. Sobbe, 3/26/2020

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celsius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
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10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential
13. J - Result is less than the Reporting Limit by greater than or equal to the Method Detection Limit and the concentration is an approximate value.
14. u = Result is noted in the method blank and the trip blank and the concentration was flagged during data review as undetected.

Table 4: Landfill Gas Field Parameter Monitoring Results
FF/NN Landfill
Ripon, Wisconsin,
First Quarter 2020

Monitoring Point	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
Background	13:09	1/10/2020	0.0	0.0	20.9	79.1	
	13:05	1/24/2020	0.0	0.0	20.9	79.1	
	13:02	2/7/2020	0.0	0.0	20.9	79.1	
	9:22	2/17/2020	0.0	0.0	20.7	79.3	
	10:31	2/26/2020	0.0	0.0	20.7	79.3	
	13:26	3/6/2020	0.0	0.0	20.9	79.1	
LC-1	13:15	1/10/2020	6.0	28.0	0.7	65.3	
	13:12	1/24/2020	5.0	26.8	1.0	67.2	
	13:08	2/7/2020	5.5	27.4	0.5	66.6	
	11:29	2/17/2020	16.9	22.7	0.1	60.3	
	11:46	2/26/2020	4.1	21.2	0.6	74.1	
	13:32	3/6/2020	3.9	26.0	1.0	69.1	
LC-2	13:29	1/10/2020	32.0	36.2	3.1	28.7	
	13:24	1/24/2020	32.0	38.6	1.6	27.8	
	13:20	2/7/2020	30.5	38.4	1.1	30.0	
	11:41	2/17/2020	33.9	28.4	0.9	36.8	
	11:52	2/26/2020	29.6	26.8	1.1	42.5	
	13:44	3/6/2020	28.5	33.2	2.8	35.5	
LC-3	13:25	1/10/2020	4.2	5.6	16.5	73.7	
	13:21	1/24/2020	14.0	27.0	2.3	56.7	
	13:17	2/7/2020	11.5	23.4	4.4	60.7	
	11:25	2/17/2020	22.4	22.3	1.3	54.0	
	11:42	2/26/2020	13.5	20.4	2.3	63.8	
	13:40	3/6/2020	9.0	18.6	7.1	65.3	
GV-4	13:20	1/10/2020	2.9	11.4	11.2	74.6	Ph
	13:19	1/10/2020	3.1	11.6	11.0	74.3	Pw
	13:15	1/24/2020	2.6	10.4	11.5	75.6	Ph
	13:14	1/24/2020	2.6	10.8	11.3	75.3	Pw
	13:11	2/7/2020	1.7	10.2	11.2	77.0	Ph
	13:12	2/7/2020	1.7	10.2	11.2	77.0	Pw
	11:33	2/17/2020	2.3	11.3	5.9	80.5	Pw
	11:50	2/26/2020	1.7	8.7	12.1	77.5	Pw
	13:35	3/6/2020	0.4	7.2	13.2	79.3	Ph
	13:34	3/6/2020	0.4	7.2	13.1	79.4	Pw
GV-6	13:23	1/10/2020	10.0	20.2	6.6	63.2	
	13:18	1/24/2020	9.0	19.2	7.0	64.8	
	13:14	2/7/2020	8.5	17.6	7.9	66.0	
	11:39	2/17/2020	8.6	16.3	4.1	71.0	
	11:53	2/26/2020	9.3	14.8	7.6	68.3	
	13:38	3/6/2020	1.1	10.0	11.1	77.9	
GP-1	13:10	1/10/2020	0.0	0.0	20.9	79.1	
	14:11	1/10/2020	0.0	0.2	20.9	78.9	
	13:06	1/24/2020	0.0	0.0	20.9	79.1	
	14:06	1/24/2020	0.0	0.2	20.9	78.9	
	13:03	2/7/2020	0.0	0.0	20.9	79.1	
	14:06	2/7/2020	0.1	0.2	20.9	78.9	
	9:31	2/17/2020	0.0	2.1	14.8	83.1	
	10:45	2/26/2020	0.0	2.3	14.2	83.5	
	13:27	3/6/2020	0.0	0.6	19.4	80.0	
	14:27	3/6/2020	0.0	0.8	18.9	80.3	
GP-2	14:18	1/10/2020	0.0	0.0	0.6	99.4	
	-	1/24/2020	-	-	-	-	Connection Frozen Shut
	-	2/7/2020	-	-	-	-	Connection Frozen Shut
	10:37	2/17/2020	0.0	7.5	13.4	79.1	Unthawed sample port
	11:14	2/26/2020	0.0	0.0	20.8	79.2	
	14:34	3/6/2020	0.0	0.0	20.9	79.1	

Table 4: Landfill Gas Field Parameter Monitoring Results
FF/NN Landfill
Ripon, Wisconsin,
First Quarter 2020

Monitoring Point	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
GP-3	11:07	2/17/2020	0.0	4.9	14.6	80.5	
	11:27	2/26/2020	0.0	0.2	20.7	79.1	
GP-4	11:14	2/17/2020	0.0	1.5	19.2	79.3	
	11:33	2/26/2020	0.0	0.7	19.9	79.4	
GP-5	9:46	2/17/2020	0.0	2.5	18.8	78.7	
	10:48	2/26/2020	0.0	2.5	18.8	78.7	
GP-6	10:51	2/17/2020	0.0	2.4	17.9	79.7	
	12:10	2/26/2020	0.0	0.9	20.2	78.9	
GP-7	10:46	2/17/2020	0.0	4.1	15.4	80.5	
	12:06	2/26/2020	0.0	0.2	20.7	79.1	
GP-10	10:04	2/17/2020	0.0	3.4	18.0	78.6	
	11:07	2/26/2020	0.0	3.4	17.9	78.7	
GP-11	10:12	2/17/2020	0.0	2.7	18.5	78.8	
	10:58	2/26/2020	0.0	1.8	19.1	79.1	
GP-12	9:52	2/17/2020	0.0	5.2	16.0	78.8	
	10:53	2/26/2020	0.0	2.4	18.6	79.0	
Exhaust	13:11	1/10/2020	4.6	9.6	13.0	77.2	
	13:08	1/24/2020	4.1	9.0	13.3	77.5	
	13:04	2/7/2020	2.3	6.2	15.3	78.4	
	9:27	2/17/2020	3.8	9.6	9.1	81.1	
	10:38	2/26/2020	3.1	7.2	14.4	78.2	
	13:28	3/6/2020	1.6	6.0	14.9	79.0	

Notes:

-- = Data not recorded

LEL = Lower Explosive Limit

CH_4 = Methane

CO_2 = Carbon Dioxide

O_2 = Oxygen

N = Nitrogen

% = Percent

Ph = gas reading collected from the extraction header

Pw = gas reading collected from the extraction well

Created By: A. Sobbe 3/9/2020

Updated/Checked By: B. Wachholz 3/31/2020

Checked By A. Stehn 3/31/2020

Checked By M. Stollenwerk 4/22/2020

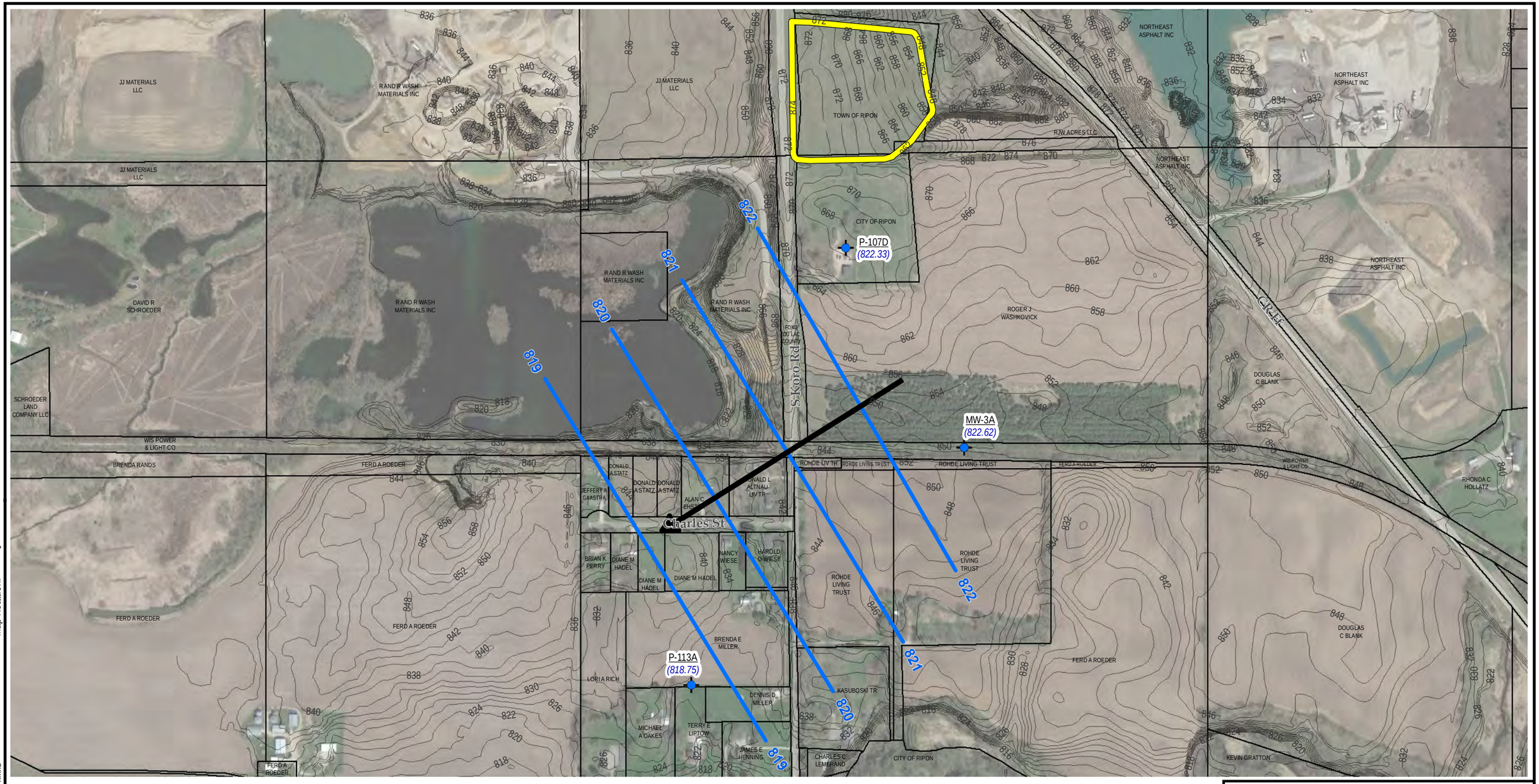
Figure

Figure 1: Groundwater Elevation Map – Quarter 1 Layer 4 Wells

TRC - GIS

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

Plot Date: 3/13/2020, 12:41:39 PM by AADAIR -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\Ripon\2020_378957_Q1_Layer4.mxd



LEGEND

- MW-112 (821.71) — MONITORING WELL, PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION
- PRESUMED GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
- TAX PARCEL
- RIPON FF/NN LANDFILL SITE

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).

0 200 400 Feet

1 " = 400 '

1:4,800

PROJECT:
FF/NN LANDFILL NPL SITE
RIPON, WI
FIRST QUARTER 2020 REPORTING

TITLE:
GROUNDWATER ELEVATION MAP
QUARTER 1 LAYER 4 WELLS
FEBRUARY 25, 2020

DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK		
APPROVED BY:	J. WEDEKIND		**FIGURE 1**
DATE:	MARCH 2020		

TRC
150 North Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262.879.1212
www.trcsolutions.com

FILE NO.: 2020_378957_Q1_Layer4.mxd

Appendix A: Site Inspection Reports

TRC

PROJECT NAME: Ripon FF/NN Landfill

PROJECT NUMBER: 378957.0001.0001

PROJECT MANAGER: Marita Stollenwerk

SITE LOCATION: Ripon, WI

DATES OF FIELDWORK: 2/25/20 TO 2/26/20

PURPOSE OF FIELDWORK: Quarter One Groundwater Sampling

WORK PERFORMED BY: T. Roelke

SIGNED 3/2/20 DATE

CHECKED BY DATE

REVISED 03/2008

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Ripon FF/NW Landfill	MODEL: In Situ	SAMPLER: S. Roel/Ke
PROJECT NO.: 378957.0001.0001	SERIAL #: —	DATE: 2/25+26/20

PH CALIBRATION CHECK

pH 7 (LOT #): 2320C (EXP. DATE): Aug/20 — POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 9G-I1670 (EXP. DATE): Sep./20 — POST-CAL. READING / STANDARD	CAL. RANGE	TIME
17.16	/	☒ WITHIN RANGE	8:04 2/25/20
7.19	/	☒ WITHIN RANGE	10:14 2/26/20
/	14.15	☒ WITHIN RANGE	8:11 2/25/20
/	4.21 /	☒ WITHIN RANGE	10:06 2/26/20

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): 2320C (EXP. DATE): Aug/20 — POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
18000	17.9	☒ WITHIN RANGE	8:04
78571	16.8	☒ WITHIN RANGE	10:14
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): — POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
1222.7	17.9	☒ WITHIN RANGE	8:04
225.91	16.8	☒ WITHIN RANGE	10:14
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
Pre: 8.18	☒ WITHIN RANGE	8:16 2/25
Post: 8.21	☒ WITHIN RANGE	10:21 2/26
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): — POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): — POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 2320C (EXP. DATE): Aug/20

☐ STANDARD SOLUTION (S)

LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS		CALIBRATION RANGES [1]	
☒	pH	pH:	+/- 0.2 S.U.
☒	COND	COND:	+/- 1% OF CAL. STANDARD
☒	ORP	ORP:	+/- 25 mV
☐	D.O.	D.O.:	VARIES
☐	TURB	TURB:	+/- 5% OF CAL. STANDARD
☐	_____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	
☐	_____		

NOTES

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED _____ DATE 2/26/20

CHECKED BY _____ DATE _____

TRC

WATER LEVEL DATA

PROJECT NAME: Ripon FF/NN Landfill				DATE: 2/25/20	
PROJECT NUMBER: 378957.0001.001				AUTHOR: J. Roelke	
WELL LOCATION	**TIME**	**REFERENCE**	**DEPTH TO WATER (FEET)**	**DEPTH TO BOTTOM (FEET)**	**WATER ELEVATION**
MW-101		884.73		64.50	
P-101		885.39		96.49	
MW-102		842.9		24.00	
P-102		842.85		61.15	
MW-103		872.30		53.69	
P-103		872.74		83.02	
P-103D	15:09	872.91	49.56	192.66	
MW-104		875.20		54.90	
P-104		875.40		92.80	
MW-106		878.90		57.35	
P-106		878.91		87.30	
MW-107		871.69		55.29	
P-107		871.33		87.13	
P-107D	17:19	871.9	49.57	322.7	
MW-108		845.08		30.28	
P-108		845.48		62.48	
MW-111		856.09		43.79	
P-111		856.28		82.68	
P-111D	16:37	855.56	34.11	148.46	
MW-112		874.7		60.47	
P-113A	8:51	833.16	14.41	325.31	
P-113B	9:04	833.16	12.22	198.9	
P-114	11:52	839.36	18.75	181.72	
P-115	12:53	842.67	21.91	179.57	
P-116	10:39	845.86	25.91	163.19	
P-117	15:13	833.96	14.97	165.54	
P-118	15:52	826.74	7.82	167.44	
MW-3A	13:42	850.60	27.98	280.10	
MW-3B	14:30	850.89	28.48	185.72	
Rohde		844.98		228.00	
LC-1		876.15		27.70	
LC-2		866.05		27.91	
LC-3		877.34		26.14	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR
(E.G., 1.1 + 0.00 T/PVC)

2/25/20

SIGNED DATE CHECKED DATE

TRC

WATER SAMPLE LOG

PROJECT NAME:	Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER:	378957.cool.cool	BY: JAR	DATE: 2/25/20	BY:	DATE:

SAMPLE ID: MW-3A WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 13:42	DATE: 2/25/20	SAMPLE	TIME: 14:17	DATE: 2/25/20

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)

DEPTH TO WATER: 27.98 T/ PVC

DEPTH TO BOTTOM: 280.10 T/ PVC

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 3 ☐ LITERS ☑ GALLONS

COLOR: clear ODOR: Strong Sulfur

TURBIDITY: NA

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.43 SU CONDUCTIVITY: 582.8 umhos/cm

ORP: -146.1 mv DO: 0.18 mg/L

TURBIDITY: NA NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 8.49 °C OTHER:

COLOR: Clear ODOR: NONE

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☒ DUP-1

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
13:42	300	7.62	582.7	-179.0	1.27	NM	8.18	27.98	INITIAL
13:47	300	7.57	582.8	-199.6	0.49	NM	8.41	28.53	
13:52	300	7.52	582.6	-191.0	0.25	NM	8.51	28.53	
13:57	300	7.47	582.6	-173.8	0.20	NM	8.52	28.53	
14:02	300	7.47	582.6	-169.9	0.20	NM	8.52	28.53	
14:07	300	7.43	582.8	-147.0	0.18	NM	8.47	28.53	
14:12	300	7.43	582.9	-146.4	0.18	NM	8.51	28.53	
14:17	300	7.43	582.8	-146.1	0.18	NM	8.49	28.53	
			Sampled @ 14:17						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
~~6~~	40 mL	VOA	E	☐ Y ☑ N	2+	125	PL	C	☐ Y ☐ N
2	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
2	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 2/26/20 AIRBILL NUMBER: —

COC NUMBER: — SIGNATURE: [signature] DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER: 378957.0001.0001	BY: JAR	DATE: 2/25/20	BY:	DATE:

SAMPLE ID: MW-3B WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 14:30	DATE: 2/25/20	SAMPLE	TIME: 14:55	DATE: 2/25/20
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)			PH: 7.70 SU	CONDUCTIVITY: 678.0 umhos/cm	
DEPTH TO WATER: 28.48 T/ PVC			ORP: -209.3 mv	DO: 0.08 mg/L	
DEPTH TO BOTTOM: 185.72 T/ PVC			TURBIDITY: NA NTU		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS			☑ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
VOLUME REMOVED: ~2 ☐ LITERS ☑ GALLONS			TEMPERATURE: 8.56 °C	OTHER:	
COLOR: Clear	ODOR: Strong Sulfur		COLOR: Clear	ODOR: Lt. Sulfur	
TURBIDITY: NA ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE (0.45 um) ☐ YES ☑ NO		
			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD ☐ DUP-1		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
14:30	300	8.43	467.7	-291.4	0.14	NM	8.18	28.48	INITIAL
14:35	300	8.28	661.8	-272.5	0.12	NM	8.51	28.59	
14:40	300	7.89	684.2	-226.1	0.13	NM	8.52	28.59	
14:45	300	7.74	679.5	-212.3	0.08	NM	8.57	28.59	
14:50	300	7.71	678.1	-210.4	0.07	NM	8.55	28.59	
14:55	300	7.70	678.0	-209.3	0.08	NM	8.56	28.59	
			Sampled @ 14:55						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 2/26/20	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE:	DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER: 378957.0001.cx1	BY: JAR	DATE: 2/26/20	BY:	DATE:

SAMPLE ID: P-103D WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 7:56	DATE: 2/26/20	SAMPLE	TIME: 8:21	DATE: 2/26/20
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)			PH: 7.37 SU	CONDUCTIVITY: 812.1 umhos/cm	
DEPTH TO WATER: 49.54 T/ PVC			ORP: -115.6 mv	DO: 0.31 mg/L	
DEPTH TO BOTTOM: 192.66 T/ PVC			TURBIDITY: NA NTU		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
VOLUME REMOVED: ~2 ☐ LITERS ☑ GALLONS			TEMPERATURE: 8.29 °C	OTHER:	
COLOR: Clear ODOR: NONE			COLOR: Clear	ODOR: None	
TURBIDITY: NA			FILTRATE (0.45 um) ☐ YES ☑ NO		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER			QC SAMPLE: ☐ MS/MSD ☐ DUP-1		
			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
7:56	300	7.74	787.9	32.7	5.89	NM	8.47	49.54	INITIAL
8:01	300	7.55	806.8	-86.0	2.35	NM	8.23	49.68	
8:06	300	7.41	812.1	-113.6	0.65	NM	8.33	49.68	
8:11	300	7.38	810.4	-116.0	0.41	NM	8.33	49.68	
8:16	300	7.37	812.2	-116.1	0.32	NM	8.33	49.68	
8:21	300	7.37	812.1	-115.6	0.31	NM	8.29	49.68	
			Sampled @ 8:21						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 2/26/20	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE: [signature]	DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER: 378957.0001.001	BY: JAR	DATE: 2/25/20	BY:	DATE:

SAMPLE ID: P-107D WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 17:19	DATE: 2/25/20	SAMPLE	TIME: 17:49	DATE: 2/25/20
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)			PH: 7.44 SU	CONDUCTIVITY: 612.2 umhos/cm	
DEPTH TO WATER: 49.57 T/ PVC			ORP: -126.4 mv	DO: 1.31 mg/L	
DEPTH TO BOTTOM: 322.70 T/ PVC			TURBIDITY: NA NTU		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
VOLUME REMOVED: ~52 ☐ LITERS ☑ GALLONS			TEMPERATURE: 7.42 °C	OTHER:	
COLOR: Clear	ODOR: NONE		COLOR: Clear	ODOR: NONE	
TURBIDITY: NA			FILTRATE (0.45 um) ☐ YES ☑ NO		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER			QC SAMPLE: ☐ MS/MSD ☐ DUP-1		
			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
17:19	250	7.53	658.7	-105.4	2.27	NM	7.75	49.57	INITIAL
17:24	250	7.49	665.0	-126.4	1.89	NM	7.40	49.71	
17:29	250	7.46	665.1	-133.4	1.65	NM	7.51	49.71	
17:34	250	7.45	639.8	-135.6	1.50	NM	7.51	49.71	
17:39	250	7.46	607.7	-118.5	1.43	NM	7.46	49.71	
17:44	250	7.46	607.0	-110.2	1.34	NM	7.32	49.71	
17:49	250	7.44	612.2	-121.4	1.31	NM	7.42	49.71	
			Sampled @ 17:49						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 2/26/20 AIRBILL NUMBER: —

COC NUMBER: — SIGNATURE: [signature] DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 378957.0001.0001	BY: JAR DATE: 2/25/20	BY: DATE:

SAMPLE ID: P-111D WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 16:37	DATE: 2/25/20
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED)	
	☐ BAILER BAILER (DISPOSABLE)	
DEPTH TO WATER:	34.11 T/ PVC	
DEPTH TO BOTTOM:	148.46 T/ PVC	
WELL VOLUME:	NA ☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	~1.5 ☐ LITERS ☑ GALLONS	
COLOR:	clear ODOR: NONE	
TURBIDITY: NA		
☒ NONE	☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD:	☐ GROUND ☐ DRUM ☑ OTHER	

SAMPLE	TIME: 16:57	DATE: 2/25/20
PH:	7.45 SU	CONDUCTIVITY: 927.2 umhos/cm
ORP:	-136.2 mv	DO: 0.17 mg/L
TURBIDITY: NA	NTU	
☒ NONE	☐ SLIGHT ☐ MODERATE ☐ VERY	
TEMPERATURE:	8.62 °C	OTHER:
COLOR:	Clear	ODOR: NONE
FILTRATE (0.45 um)	☐ YES ☑ NO	
FILTRATE COLOR:		FILTRATE ODOR:
QC SAMPLE:	☐ MS/MSD ☐ DUP-1	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
16:37	300	7.51	939.0	-133.0	1.03	NM	7.97	34.11	INITIAL
16:42	300	7.46	928.3	-136.1	0.27	NM	8.73	34.28	
16:47	300	7.45	929.9	-137.2	0.20	NM	8.65	34.28	
16:52	300	7.45	928.0	-135.9	0.18	NM	8.65	34.28	
1657	300	7.45	927.2	-136.2	0.17	NM	8.62	34.28	
			Sampled @ 16:57						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 2/26/20	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE: [signature]	DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 378957.0001.0001	BY: JAR DATE: 2/26/20	BY: DATE:

SAMPLE ID: P-113A WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 9:23	DATE: 2/26/20

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)

DEPTH TO WATER: 14.43 T/ PVC

DEPTH TO BOTTOM: 325.31 T/ PVC

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 2.3 ☐ LITERS ☑ GALLONS

COLOR: Clear ODOR: NONE

TURBIDITY: NA

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 9:50	DATE: 2/26/20

PH: 7.42 SU CONDUCTIVITY: 578.3 umhos/cm

ORP: -8.1 mv DO: 0.67 mg/L

TURBIDITY: NA NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 8.59 °C OTHER:

COLOR: Clear ODOR: NONE

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-1

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
9:23	300	7.50	582.5	-116.9	0.19	NM	9.14	14.43	INITIAL
9:28	300	7.49	573.9	-59.2	0.45	NM	9.17	14.49	
9:33	300	7.46	578.3	-44.6	0.37	NM	8.95	14.49	
9:38	300	7.45	577.2	-31.9	0.32	NM	8.67	14.49	3 AR
9:43	300	7.43	578.7	-17.0	0.44	NM	8.47	14.49	
9:48	300	7.42	578.4	-9.7	0.62	NM	8.57	14.49	
9:53	300	7.42	578.1	-8.9	0.66	NM	8.59	14.49	
9:58	300	7.42	578.3	-8.1	0.67	NM	8.59	14.49	

Sampled @ 9:58

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 2/26/20 AIRBILL NUMBER: —

COC NUMBER: — SIGNATURE: [signature] DATE SIGNED: 2/26/19

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 378957.ccl.ccl	BY: JAR DATE: 2/25/20	BY: DATE:

SAMPLE ID: P-113B WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 904	DATE: 2/25/20
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)		
DEPTH TO WATER: 12.22 T/ PVC		
DEPTH TO BOTTOM: 198.90 T/ PVC		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ~2 ☐ LITERS ☑ GALLONS		
COLOR: Clear ODOR: NONE		
TURBIDITY: NA		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 934	DATE: 2/25/20
PH: 6.98 SU	CONDUCTIVITY: 669.7 umhos/cm	
ORP: -118.0 mv	DO: 0.13 mg/L	
TURBIDITY: NA NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 12.39 °C	OTHER:	
COLOR: Clear	ODOR: NONE	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD ☐ DUP-1		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
904	250	6.78	674.6	-122.1	0.12	NM	9.13	12.22	INITIAL
909	250	6.49	674.4	-122.5	0.13	NM	8.99	12.39	
914	250	6.66	676.4	-119.5	0.16	NM	8.62	12.39	
919	250	6.79	674.5	-118.4	0.15	NM	8.57	1239	
924	250	6.89	669.3	-117.8	0.14	NM	8.69	12.39	
929	250	6.97	669.8	-118.0	0.13	NM	8.74	12.39	
934	250	6.98	669.7	-118.0	0.13	NM	8.78	12.39	
			Sampled @ 934						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 2/26/20	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE: [signature]	DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 378957.0001.001	BY: JAR DATE: 2/25/20	BY: DATE:

SAMPLE ID: P-114 WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 11:52	DATE: 2/25/20

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)

DEPTH TO WATER: 18.75 T/ PVC

DEPTH TO BOTTOM: 181.72 T/ PVC

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~2 ☐ LITERS ☑ GALLONS

COLOR: Clear ODOR: Strong Sulfur

TURBIDITY: NA

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 12:22	DATE: 2/25/20

PH: 7.44 SU CONDUCTIVITY: 809.8 umhos/cm

ORP: -125.7 mv DO: 0.12 mg/L

TURBIDITY: NA NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 9.23 °C OTHER:

COLOR: Clear ODOR: None

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-1

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1152	250	7.46	811.7	-174.9	0.23	NA	9.18	18.75	INITIAL
1157	250	7.45	809.6	-164.0	0.22	NA	9.22	18.81	
1202	250	7.45	809.0	-157.0	0.20	NM	9.26	18.81	
1207	250	7.45	808.4	-142.3	0.16	NM	9.23	18.81	
1212	250	7.45	808.9	-133.7	0.14	NM	9.23	18.81	
1217	250	7.44	810.0	-129.7	0.12	NM	9.25	18.81	
1222	250	7.44	809.8	-125.7	0.12	NM	9.23	18.81	
			Sampled @ 12:22						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 2/26/20 AIRBILL NUMBER: —

COC NUMBER: — SIGNATURE: DATE SIGNED: 2/26/19

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 378957.0001.0001	BY: JAR DATE: 2/25/20	BY: DATE:

SAMPLE ID: P-115 WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 12:53	DATE: 2/25/20

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)

DEPTH TO WATER: 21.91 T/ PVC

DEPTH TO BOTTOM: 179.57 T/ PVC

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~1.75 ☐ LITERS ☑ GALLONS

COLOR: Clear w/ black specs ODOR: None

TURBIDITY: NA

☐ NONE ☑ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 13:18	DATE: 2/25/20

PH: 7.57 SU CONDUCTIVITY: 655.7 umhos/cm

ORP: -123.5 mv DO: 0.26 mg/L

TURBIDITY: NA NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 9.45 °C OTHER:

COLOR: Clear w/ black spec ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-1

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
12:53	250	7.58	664.2	-118.9	1.68	NM	9.33	21.91	INITIAL
12:58	250	7.63	660.10	-159.9	0.28	NM	9.88	21.91	
13:03	250	7.60	655.3	-136.7	0.31	NM	9.51	21.91	
13:08	250	7.57	657.5	-129.2	0.30	NM	9.47	21.91	
13:13	250	7.57	654.5	-124.4	0.26	NM	9.49	21.91	
13:18	250	7.57	655.7	-123.5	0.26	NM	9.45	21.91	
			Sampled @ 13:18						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☒ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 2/26/20 AIRBILL NUMBER: —

COC NUMBER: — SIGNATURE: [signature] DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 378957.0001.0001	BY: JAR DATE: 2/24/20	BY: DATE:

SAMPLE ID: P-116 WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1039	DATE: 2/25/20
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)		
DEPTH TO WATER: 25.91 T/ PVC		
DEPTH TO BOTTOM: 163.19 T/ PVC		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ~1.5 ☐ LITERS ☑ GALLONS		
COLOR: Reddish-Brown ODOR: w/c WE		
TURBIDITY: NA		
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1125	DATE: 2/25/20
PH: 7.50 SU	CONDUCTIVITY: 550.7 umhos/cm	
ORP: -26.0 mv	DO: 0.29 mg/L	
TURBIDITY: NA NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 9.17 °C	OTHER:	
COLOR: Clear	ODOR: None	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR	
QC SAMPLE: ☐ MS/MSD ☐ DUP-1		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1039	175	7.44	549.5	-31.4	0.75	NM	8.76	25.91	INITIAL
1044	175	7.45	556.7	-39.2	0.67	NM	8.76	26.42	
1055	175	7.47	553.6	-30.1	0.26	NM	9.00	26.42	
1100	175	7.48	552.7	-23.9	0.24	NM	9.05	26.42	
1115	175	7.49	551.8	-26.2	0.27	NM	9.14	26.42	
1121	175	7.50	550.7	-26.4	0.28	NM	9.18	26.42	
1125	175	7.50	550.7	-26.0	0.29	NM	9.17	26.42	
			Sampled @ 11:25						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 2/26/20 AIRBILL NUMBER: —

COC NUMBER: — SIGNATURE: [signature] DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER: 378957.0001.0001	BY: JAR	DATE: 2/25/20	BY:	DATE:

SAMPLE ID: P-117 WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 15:13	DATE: 2/25/20	SAMPLE	TIME: 15:33	DATE: 2/25/20
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)			PH: 7.41 SU	CONDUCTIVITY: 774.7 umhos/cm	
			ORP: -126.0 mv	DO: 0.23 mg/L	
DEPTH TO WATER: 14.97 T/ PVC			TURBIDITY: NA NTU		
DEPTH TO BOTTOM: 165.54 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS			TEMPERATURE: 9.33 °C	OTHER:	
VOLUME REMOVED: ~1.5 ☐ LITERS ☑ GALLONS			COLOR: clear	ODOR: WINE	
COLOR: Clear	ODOR: WINE		FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY: NA			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-1		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:13	300	7.59	796.5	-141.0	0.89	WM	9.14	14.97	INITIAL
15:18	300	7.50	777.8	-135.6	0.29	WM	9.56	15.02	
15:23	300	7.45	775.2	-131.6	0.23	WM	9.37	15.02	
15:28	300	7.42	774.8	-128.8	0.25	WM	9.33	15.02	
15:33	300	7.41	774.7	-126.0	0.23	WM	9.33	15.02	
			Sampled @ 15:33						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 2/26/20 AIRBILL NUMBER: —

COC NUMBER: — SIGNATURE: [signature] DATE SIGNED: 2/26/20

TRC

WATER SAMPLE LOG

PROJECT NAME:	Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER:	376957.0001.0001	BY: JAR	DATE: 2/25/20	BY:	DATE:

SAMPLE ID: P-118 WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 15:52	DATE: 2/25/20	SAMPLE	TIME: 16:17	DATE: 2/25/20
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER BAILER (DISPOSABLE)		PH: 7.50 SU	CONDUCTIVITY: 607.4 umhos/cm	
DEPTH TO WATER:	7.82 T/ PVC		ORP: -128.7 mv	DO: 0.41 mg/L	
DEPTH TO BOTTOM:	167.44 T/ PVC		TURBIDITY: NA NTU		
WELL VOLUME:	NA ☐ LITERS ☐ GALLONS		☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
VOLUME REMOVED:	~2 ☐ LITERS ☑ GALLONS		TEMPERATURE: 9.30 °C	OTHER:	
COLOR:	clear ODOR: NONE		COLOR: clear	ODOR: NONE	
TURBIDITY: NA			FILTRATE (0.45 um) ☐ YES ☑ NO		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
DISPOSAL METHOD:	☐ GROUND ☐ DRUM ☑ OTHER		QC SAMPLE: ☐ MS/MSD	☐ DUP-1	
			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:52	300	7.48	628.0	-126.6	2.56	NM	8.18	7.82	INITIAL
15:57	300	7.53	607.4	-139.7	1.17	NM	9.19	7.94	
16:02	300	7.50	605.0	-131.0	0.64	NM	9.33	7.94	
16:07	300	7.49	606.8	-130.1	0.48	NM	9.33	7.94	
16:12	300	7.50	608.3	-129.3	0.46	NM	9.31	7.94	
16:17	300	7.50	607.4	-128.7	0.41	NM	9.30	7.94	
			Sampled @ 16:17						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: % ORP: +/- **10** D.O.: % **10** TURB: +/- **10** ORP +/- **10** TEMP.: %

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	☐ Y ☑ N	1	125	PL	C	☐ Y ☒ N
1	~~250~~ 125 mL	PLASTIC	A	☐ Y ☑ N					☐ Y ☐ N
1	250 mL	PLASTIC	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD:	Fed Ex	DATE SHIPPED:	2/26/20	AIRBILL NUMBER:	—
COC NUMBER:	—	SIGNATURE:		DATE SIGNED:	2/26/20

Rev. 4/2010

CHAIN OF CUSTODY

Page 1 of 2

Company: TRC
Project Contact: Marita Stollenwerk
Telephone: (262) 901-2158
Project Name: Ripon WWTF Landfill
Project #: 378957.0001.0001
Location: Ripon, WI
Sampled By: J. Roelke

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO # 149832

Report To: Marita Stollenwerk
EMAIL: mstollenwerk@trccompanies.com
Company: TRC
Address: 150 N. Patrick Blvd. Suite 180

Invoice To:* Marita Stollenwerk
EMAIL: SAME
Company: TRC
Address: SAME

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions: Send report to:
- marita.stollenwerk@mstollenwerk@trccompanies.com

Matrix:
GW - groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

2/26/20 SAE

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample ID Description	Filtered? Y/N	Total MN (6010C)	Nitrate + Nitrite (EPA 353.2)	VOC's (8260)	Sulfate (9056A)	Total # Containers	Designated MS/MSD
2/26/20	9:58	GW	Grab	P-113A	N	X	X	X	X	6	
2/25/20	9:34			P-113B						6	
	12:22			P-114							
	13:18			P-115							
	11:25			P-116							
	15:33			P-117							
	16:17			P-118							
	16:57			P-111D							
	17:49			P-107D							
2/26/20	8:21			P-103D							
2/25/20	14:17			MW-3A							
2/25/20	14:55			MW-3B							

ANALYSES REQUESTED

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

CT Lab ID #
Lab use only

Fill in Spaces with Bottles per Test

Relinquished By:	Date/Time	Received By:	Date/Time
	2/26/20 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time

Lab Use Only
Ice Present Yes No
Temperature _____
Cooler # _____

16 of 17

Rev. 4/2010

CHAIN OF CUSTODY

Page 2 of 2

1 of 1

Company: TRC
Project Contact: Marita Stollenwerk
Telephone: (262)901-2158
Project Name: Ripon NM/FF Landfill
Project #: 378957.0001.0001
Location: Ripon, WI
Sampled By: J. Roelke

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO # 149832

Report To: Marita Stollenwerk
EMAIL: mstollenwerk@trccompanies.com
Company: TRC
Address: 150 N. Patrick Blvd Suite 180 Brookfield, WI 53045
Invoice To:* ~~TR~~ Marita Stollenwerk
EMAIL: Same
Company: TRC
Address: Same

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix
GW - groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample ID Description	Filtered? Y/(N)	Total MN (6010C)	Nitrate + Nitrite (EPA 353.2)	VOCs (8260)	Sulfate (9056A)	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
2/25/20	—	GW	Grab	DUP-01	N	X	X	X	X	6		
2/20/20	—	GW	Grab	Trip Blank	N			X		4		

Fill in Spaces with Bottles per Test

Relinquished By:	Date/Time	Received By:	Date/Time	Lab Use Only
	2/26/20 1600			Ice Present Yes No
Received by:	Date/Time	Received for Laboratory by:	Date/Time	Temperature _____
				Cooler # _____

Appendix B: Analytical Data

CT LABORATORIES

delivering more than data from your environmental analyses

ANALYTICAL REPORT

MW-003A	%RPD
SULFATE, TOTAL	5
MANGANESE, TOTAL	1
CARBON DISULFIDE	NA
CHLOROMETHANE	1

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

Data assessment (CT Laboratories, Baraboo, WI; Folder #: 151602):
All holding times, field and laboratory qc, and method blanks met criteria, except as specified below.
BLANKS-
Sample detections <5x blank value were flagged as nondetect ('u') at the reported limit.
Analytes in method blanks: Carbon disulfide (0.0166 µg/L,x5=0.083), Chloromethane (0.0312 µg/L, x5=0.156)
Analytes in trip blanks: Chloromethane (0.49 µg/L, x5=2.45), Methylene chloride (0.4 µg/L, x5=2.0)
MS/MSD
MS and/or MSD recovery above control limits; possible high bias and detections qualified "j+" for the following analytes: Nitrate+Nitrite Nitrogen
VOAs-RPD above control limits; detections considered estimated and detections qualified with "j" for the following analytes: Bromomethane
Data has been reviewed per TRC data usability guidelines and is usable with the above notations.
P Popp, 3/20/2020

CT LABORATORIES
delivering more than data from your environmental analyses

CT Laboratories LLC • 1230 Lange Ct • Baraboo, WI 53913
608-356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

TRC ENVIRONMENTAL
MARITA STOLLENWERK
708 HEARTLAND TRAIL
SUITE 3000
MADISON, WI 53717

Copy: mstollenwerk@trccompanies.com

Project Name: RIPON FF/NN LANDFILL
Project Phase: RIPON, WI
Project #: 378957.0001.0001
Folder #: 151602
Purchase Order #: 149832
Contract #: 3276

Arrival Temperature: 3.4
Report Date: 03/12/2020
Date Received: 02/27/2020
Reprint Date: 03/12/2020

CT LAB#: 391687 Sample Description: P-113A License/Well #: 00467/136 Sampled: 02/26/2020 0958

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	12	mg/L	0.80	2.5	1			03/05/2020 18:19	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 08:57	SRW	EPA 353.2
Metals Results										
Total Manganese	21.8	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 19:33	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 13:12	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 13:12	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 13:12	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 13:12	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 13:12	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 13:12	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:12	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 13:12	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 13:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 13:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 13:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391687 Sample Description: P-113A License/Well #: 00467/136 Sampled: 02/26/2020 0958

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 13:12	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 13:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 13:12	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 13:12	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 13:12	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 13:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 13:12	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:12	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 13:12	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	22	1			03/03/2020 13:12	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015	0.050	1			03/03/2020 13:12	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.6	1			03/03/2020 13:12	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024	0.080	1			03/03/2020 13:12	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30	1.0	1			03/03/2020 13:12	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017	0.057	1			03/03/2020 13:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22	0.74	1			03/03/2020 13:12	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80	2.6	1			03/03/2020 13:12	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019	0.062	1			03/03/2020 13:12	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018	0.060	1			03/03/2020 13:12	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040	0.15	1			03/03/2020 13:12	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028	0.093	1			03/03/2020 13:12	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:12	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060	0.19	1	Y		03/03/2020 13:12	RLD	EPA 8260C
Carbon disulfide	<0.014	ug/L	0.014	0.046	1			03/03/2020 13:12	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029	0.095	1			03/03/2020 13:12	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015	0.049	1			03/03/2020 13:12	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023	0.077	1			03/03/2020 13:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391687 Sample Description: P-113A License/Well #: 00467/136 Sampled: 02/26/2020 0958

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroform	<0.023	ug/L	0.023	0.076	1			03/03/2020 13:12	RLD	EPA 8260C
Chloromethane	0.037	ug/L	0.030 *	0.11	1	B		03/03/2020 13:12	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027	0.090	1			03/03/2020 13:12	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020	0.067	1			03/03/2020 13:12	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:12	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030	0.11	1			03/03/2020 13:12	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:12	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02	0.05	1			03/03/2020 13:12	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016	0.053	1			03/03/2020 13:12	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:12	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 13:12	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 13:12	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 13:12	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 13:12	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 13:12	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 13:12	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 13:12	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 13:12	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 13:12	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 13:12	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 13:12	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 13:12	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 13:12	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 13:12	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 13:12	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 13:12	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 13:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391687 Sample Description: P-113A License/Well #: 00467/136 Sampled: 02/26/2020 0958

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 13:12	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 13:12	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 13:12	RLD	EPA 8260C
Vinyl chloride	<0.013	ug/L	0.013	0.043	1			03/03/2020 13:12	RLD	EPA 8260C
1,2 Dichloroethane-d4	99	% Recovery	70.0	130	1			03/03/2020 13:12	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	70.0	130	1			03/03/2020 13:12	RLD	EPA 8260C
d8-Toluene	100	% Recovery	70.0	130	1			03/03/2020 13:12	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	70.0	130	1			03/03/2020 13:12	RLD	EPA 8260C

CT LAB#: 391689 Sample Description: P-113B License/Well #: 00467/138 Sampled: 02/25/2020 0934

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	73	mg/L	4.0	13	5			03/05/2020 19:22	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:01	SRW	EPA 353.2
Metals Results										
Total Manganese	36.4	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 19:59	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 13:41	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 13:41	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 13:41	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 13:41	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 13:41	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 13:41	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:41	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 13:41	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 13:41	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 13:41	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 13:41	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 13:41	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 13:41	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 13:41	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 13:41	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 13:41	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 13:41	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 13:41	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:41	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 13:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391689 Sample Description: P-113B License/Well #: 00467/138 Sampled: 02/25/2020 0934

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0		22	1			03/03/2020 13:41	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015		0.050	1			03/03/2020 13:41	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50		1.6	1			03/03/2020 13:41	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024		0.080	1			03/03/2020 13:41	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30		1.0	1			03/03/2020 13:41	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017		0.057	1			03/03/2020 13:41	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22		0.74	1			03/03/2020 13:41	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80		2.6	1			03/03/2020 13:41	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019		0.062	1			03/03/2020 13:41	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018		0.060	1			03/03/2020 13:41	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040		0.15	1			03/03/2020 13:41	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028		0.093	1			03/03/2020 13:41	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030		0.10	1			03/03/2020 13:41	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060		0.19	1	Y		03/03/2020 13:41	RLD	EPA 8260C
Carbon disulfide	<0.014	ug/L	0.014		0.046	1			03/03/2020 13:41	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029		0.095	1			03/03/2020 13:41	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015		0.049	1			03/03/2020 13:41	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023		0.077	1			03/03/2020 13:41	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023		0.076	1			03/03/2020 13:41	RLD	EPA 8260C
Chloromethane	0.048	ug/L	0.030	*	0.11	1	B		03/03/2020 13:41	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027		0.090	1			03/03/2020 13:41	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020		0.067	1			03/03/2020 13:41	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 13:41	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030		0.11	1			03/03/2020 13:41	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 13:41	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02		0.05	1			03/03/2020 13:41	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016		0.053	1			03/03/2020 13:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391689 Sample Description: P-113B License/Well #: 00467/138 Sampled: 02/25/2020 0934

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 13:41	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 13:41	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 13:41	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 13:41	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 13:41	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 13:41	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 13:41	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 13:41	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 13:41	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 13:41	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 13:41	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 13:41	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 13:41	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 13:41	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 13:41	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 13:41	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 13:41	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 13:41	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 13:41	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 13:41	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 13:41	RLD	EPA 8260C
Vinyl chloride	<0.013	ug/L	0.013	0.043	1			03/03/2020 13:41	RLD	EPA 8260C
1,2 Dichloroethane-d4	98	% Recovery	70.0	130	1			03/03/2020 13:41	RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	70.0	130	1			03/03/2020 13:41	RLD	EPA 8260C
d8-Toluene	99	% Recovery	70.0	130	1			03/03/2020 13:41	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	70.0	130	1			03/03/2020 13:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391690 Sample Description: P-114 License/Well #: 00467/140 Sampled: 02/25/2020 1222

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	58	mg/L	4.0	13	5			03/05/2020 19:43	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:02	SRW	EPA 353.2
Metals Results										
Total Manganese	62.6	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 20:05	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 14:10	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 14:10	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 14:10	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 14:10	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 14:10	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 14:10	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:10	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 14:10	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 14:10	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 14:10	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 14:10	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 14:10	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 14:10	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 14:10	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 14:10	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 14:10	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 14:10	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 14:10	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:10	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 14:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391690 Sample Description: P-114 License/Well #: 00467/140 Sampled: 02/25/2020 1222

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0		22	1			03/03/2020 14:10	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015		0.050	1			03/03/2020 14:10	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50		1.6	1			03/03/2020 14:10	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024		0.080	1			03/03/2020 14:10	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30		1.0	1			03/03/2020 14:10	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017		0.057	1			03/03/2020 14:10	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22		0.74	1			03/03/2020 14:10	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80		2.6	1			03/03/2020 14:10	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019		0.062	1			03/03/2020 14:10	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018		0.060	1			03/03/2020 14:10	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040		0.15	1			03/03/2020 14:10	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028		0.093	1			03/03/2020 14:10	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030		0.10	1			03/03/2020 14:10	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060		0.19	1	Y		03/03/2020 14:10	RLD	EPA 8260C
Carbon disulfide	<0.014	ug/L	0.014		0.046	1			03/03/2020 14:10	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029		0.095	1			03/03/2020 14:10	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015		0.049	1			03/03/2020 14:10	RLD	EPA 8260C
Chloroethane	0.27	ug/L	0.023		0.077	1			03/03/2020 14:10	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023		0.076	1			03/03/2020 14:10	RLD	EPA 8260C
Chloromethane	0.039	ug/L	0.030	*	0.11	1	B		03/03/2020 14:10	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.8	ug/L	0.027		0.090	1			03/03/2020 14:10	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020		0.067	1			03/03/2020 14:10	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 14:10	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030		0.11	1			03/03/2020 14:10	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 14:10	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02		0.05	1			03/03/2020 14:10	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016		0.053	1			03/03/2020 14:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391690 Sample Description: P-114 License/Well #: 00467/140 Sampled: 02/25/2020 1222

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:10	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 14:10	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 14:10	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 14:10	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 14:10	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 14:10	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 14:10	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 14:10	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 14:10	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 14:10	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 14:10	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 14:10	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 14:10	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 14:10	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 14:10	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 14:10	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 14:10	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 14:10	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 14:10	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 14:10	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 14:10	RLD	EPA 8260C
Vinyl chloride	7.4	ug/L	0.013	0.043	1			03/03/2020 14:10	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	70.0	130	1			03/03/2020 14:10	RLD	EPA 8260C
Bromofluorobenzene	97	% Recovery	70.0	130	1			03/03/2020 14:10	RLD	EPA 8260C
d8-Toluene	99	% Recovery	70.0	130	1			03/03/2020 14:10	RLD	EPA 8260C
Dibromofluoromethane	96	% Recovery	70.0	130	1			03/03/2020 14:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391691 Sample Description: P-115 License/Well #: 00467/142 Sampled: 02/25/2020 1318

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	40	mg/L	0.80	2.5	1			03/05/2020 20:05	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:03	SRW	EPA 353.2
Metals Results										
Total Manganese	125	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 20:12	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 14:39	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 14:39	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 14:39	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 14:39	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 14:39	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 14:39	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:39	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 14:39	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 14:39	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 14:39	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 14:39	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 14:39	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 14:39	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 14:39	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 14:39	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 14:39	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 14:39	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 14:39	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:39	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 14:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391691 Sample Description: P-115 License/Well #: 00467/142 Sampled: 02/25/2020 1318

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	22	1			03/03/2020 14:39	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015	0.050	1			03/03/2020 14:39	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.6	1			03/03/2020 14:39	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024	0.080	1			03/03/2020 14:39	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30	1.0	1			03/03/2020 14:39	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017	0.057	1			03/03/2020 14:39	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22	0.74	1			03/03/2020 14:39	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80	2.6	1			03/03/2020 14:39	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019	0.062	1			03/03/2020 14:39	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018	0.060	1			03/03/2020 14:39	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040	0.15	1			03/03/2020 14:39	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028	0.093	1			03/03/2020 14:39	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:39	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060	0.19	1	Y		03/03/2020 14:39	RLD	EPA 8260C
Carbon disulfide	0.047	ug/L	0.014	0.046	1	B		03/03/2020 14:39	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029	0.095	1			03/03/2020 14:39	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015	0.049	1			03/03/2020 14:39	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023	0.077	1			03/03/2020 14:39	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023	0.076	1			03/03/2020 14:39	RLD	EPA 8260C
Chloromethane	0.040	ug/L	0.030 *	0.11	1	B		03/03/2020 14:39	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.17	ug/L	0.027	0.090	1			03/03/2020 14:39	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020	0.067	1			03/03/2020 14:39	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:39	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030	0.11	1			03/03/2020 14:39	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:39	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02	0.05	1			03/03/2020 14:39	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016	0.053	1			03/03/2020 14:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391691 Sample Description: P-115 License/Well #: 00467/142 Sampled: 02/25/2020 1318

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 14:39	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 14:39	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 14:39	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 14:39	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 14:39	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 14:39	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 14:39	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 14:39	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 14:39	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 14:39	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 14:39	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 14:39	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 14:39	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 14:39	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 14:39	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 14:39	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 14:39	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 14:39	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 14:39	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 14:39	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 14:39	RLD	EPA 8260C
Vinyl chloride	0.72	ug/L	0.013	0.043	1			03/03/2020 14:39	RLD	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	70.0	130	1			03/03/2020 14:39	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	70.0	130	1			03/03/2020 14:39	RLD	EPA 8260C
d8-Toluene	100	% Recovery	70.0	130	1			03/03/2020 14:39	RLD	EPA 8260C
Dibromofluoromethane	97	% Recovery	70.0	130	1			03/03/2020 14:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391692 Sample Description: P-116 License/Well #: 00467/143 Sampled: 02/25/2020 1125

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	14	mg/L	0.80	2.5	1			03/05/2020 20:26	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	0.24	mg/L	0.057	0.19	1			03/05/2020 09:04	SRW	EPA 353.2
Metals Results										
Total Manganese	118	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 20:18	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 15:08	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 15:08	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 15:08	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 15:08	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 15:08	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 15:08	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:08	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 15:08	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 15:08	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 15:08	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 15:08	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 15:08	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 15:08	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 15:08	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 15:08	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 15:08	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 15:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 15:08	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:08	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 15:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391692 Sample Description: P-116 License/Well #: 00467/143 Sampled: 02/25/2020 1125

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0		22	1			03/03/2020 15:08	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015		0.050	1			03/03/2020 15:08	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50		1.6	1			03/03/2020 15:08	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024		0.080	1			03/03/2020 15:08	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30		1.0	1			03/03/2020 15:08	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017		0.057	1			03/03/2020 15:08	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22		0.74	1			03/03/2020 15:08	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80		2.6	1			03/03/2020 15:08	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019		0.062	1			03/03/2020 15:08	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018		0.060	1			03/03/2020 15:08	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040		0.15	1			03/03/2020 15:08	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028		0.093	1			03/03/2020 15:08	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030		0.10	1			03/03/2020 15:08	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060		0.19	1	Y		03/03/2020 15:08	RLD	EPA 8260C
Carbon disulfide	0.028	ug/L	0.014	*	0.046	1	B		03/03/2020 15:08	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029		0.095	1			03/03/2020 15:08	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015		0.049	1			03/03/2020 15:08	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023		0.077	1			03/03/2020 15:08	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023		0.076	1			03/03/2020 15:08	RLD	EPA 8260C
Chloromethane	0.062	ug/L	0.030	*	0.11	1	B		03/03/2020 15:08	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027		0.090	1			03/03/2020 15:08	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020		0.067	1			03/03/2020 15:08	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 15:08	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030		0.11	1			03/03/2020 15:08	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 15:08	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02		0.05	1			03/03/2020 15:08	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016		0.053	1			03/03/2020 15:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391692 Sample Description: P-116 License/Well #: 00467/143 Sampled: 02/25/2020 1125

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:08	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 15:08	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 15:08	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 15:08	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 15:08	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 15:08	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 15:08	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 15:08	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 15:08	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 15:08	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 15:08	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 15:08	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 15:08	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 15:08	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 15:08	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 15:08	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 15:08	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 15:08	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 15:08	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 15:08	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 15:08	RLD	EPA 8260C
Vinyl chloride	<0.013	ug/L	0.013	0.043	1			03/03/2020 15:08	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	70.0	130	1			03/03/2020 15:08	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	70.0	130	1			03/03/2020 15:08	RLD	EPA 8260C
d8-Toluene	99	% Recovery	70.0	130	1			03/03/2020 15:08	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	70.0	130	1			03/03/2020 15:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391693 Sample Description: P-117 License/Well #: 00467/144 Sampled: 02/25/2020 1533

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	54	mg/L	4.0	13	5			03/05/2020 20:47	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	0.089	mg/L	0.057 *	0.19	1			03/05/2020 09:06	SRW	EPA 353.2
Metals Results										
Total Manganese	203	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 20:24	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 15:37	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 15:37	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 15:37	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 15:37	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 15:37	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 15:37	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:37	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 15:37	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 15:37	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 15:37	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 15:37	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 15:37	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 15:37	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 15:37	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 15:37	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 15:37	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 15:37	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 15:37	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:37	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 15:37	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391693 Sample Description: P-117 License/Well #: 00467/144 Sampled: 02/25/2020 1533

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	22	1			03/03/2020 15:37	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015	0.050	1			03/03/2020 15:37	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.6	1			03/03/2020 15:37	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024	0.080	1			03/03/2020 15:37	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30	1.0	1			03/03/2020 15:37	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017	0.057	1			03/03/2020 15:37	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22	0.74	1			03/03/2020 15:37	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80	2.6	1			03/03/2020 15:37	RLD	EPA 8260C
Benzene	0.022	ug/L	0.019 *	0.062	1			03/03/2020 15:37	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018	0.060	1			03/03/2020 15:37	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040	0.15	1			03/03/2020 15:37	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028	0.093	1			03/03/2020 15:37	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:37	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060	0.19	1	Y		03/03/2020 15:37	RLD	EPA 8260C
Carbon disulfide	0.017	ug/L	0.014 *	0.046	1	B		03/03/2020 15:37	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029	0.095	1			03/03/2020 15:37	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015	0.049	1			03/03/2020 15:37	RLD	EPA 8260C
Chloroethane	0.35	ug/L	0.023	0.077	1			03/03/2020 15:37	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023	0.076	1			03/03/2020 15:37	RLD	EPA 8260C
Chloromethane	0.084	ug/L	0.030 *	0.11	1	B		03/03/2020 15:37	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.69	ug/L	0.027	0.090	1			03/03/2020 15:37	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020	0.067	1			03/03/2020 15:37	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:37	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030	0.11	1			03/03/2020 15:37	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 15:37	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02	0.05	1			03/03/2020 15:37	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016	0.053	1			03/03/2020 15:37	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391693 Sample Description: P-117 License/Well #: 00467/144 Sampled: 02/25/2020 1533

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030		0.10	1			03/03/2020 15:37	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018		0.059	1			03/03/2020 15:37	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030		0.11	1			03/03/2020 15:37	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017		0.055	1			03/03/2020 15:37	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030		0.12	1			03/03/2020 15:37	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014		0.048	1			03/03/2020 15:37	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020		0.068	1			03/03/2020 15:37	RLD	EPA 8260C
Naphthalene	0.034	ug/L	0.022	*	0.072	1			03/03/2020 15:37	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017		0.058	1			03/03/2020 15:37	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018		0.059	1			03/03/2020 15:37	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014		0.046	1			03/03/2020 15:37	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011		0.035	1			03/03/2020 15:37	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013		0.042	1			03/03/2020 15:37	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023		0.077	1			03/03/2020 15:37	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28		0.95	1			03/03/2020 15:37	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017		0.056	1			03/03/2020 15:37	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029		0.098	1			03/03/2020 15:37	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030		0.11	1			03/03/2020 15:37	RLD	EPA 8260C
Trichloroethene	0.047	ug/L	0.025	*	0.084	1			03/03/2020 15:37	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029		0.095	1			03/03/2020 15:37	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40		1.4	1			03/03/2020 15:37	RLD	EPA 8260C
Vinyl chloride	1.1	ug/L	0.013		0.043	1			03/03/2020 15:37	RLD	EPA 8260C
1,2 Dichloroethane-d4	97	% Recovery	70.0		130	1			03/03/2020 15:37	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	70.0		130	1			03/03/2020 15:37	RLD	EPA 8260C
d8-Toluene	98	% Recovery	70.0		130	1			03/03/2020 15:37	RLD	EPA 8260C
Dibromofluoromethane	96	% Recovery	70.0		130	1			03/03/2020 15:37	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391694 Sample Description: P-118 License/Well #: 00467/145 Sampled: 02/25/2020 1617

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	23	mg/L	0.80	2.5	1			03/05/2020 21:08	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:09	SRW	EPA 353.2
Metals Results										
Total Manganese	102	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 20:31	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 16:06	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 16:06	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 16:06	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 16:06	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 16:06	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 16:06	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:06	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 16:06	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 16:06	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 16:06	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 16:06	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 16:06	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 16:06	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 16:06	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 16:06	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 16:06	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 16:06	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 16:06	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:06	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 16:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391694 Sample Description: P-118 License/Well #: 00467/145 Sampled: 02/25/2020 1617

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0		22	1			03/03/2020 16:06	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015		0.050	1			03/03/2020 16:06	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50		1.6	1			03/03/2020 16:06	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024		0.080	1			03/03/2020 16:06	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30		1.0	1			03/03/2020 16:06	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017		0.057	1			03/03/2020 16:06	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22		0.74	1			03/03/2020 16:06	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80		2.6	1			03/03/2020 16:06	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019		0.062	1			03/03/2020 16:06	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018		0.060	1			03/03/2020 16:06	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040		0.15	1			03/03/2020 16:06	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028		0.093	1			03/03/2020 16:06	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030		0.10	1			03/03/2020 16:06	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060		0.19	1	Y		03/03/2020 16:06	RLD	EPA 8260C
Carbon disulfide	0.028	ug/L	0.014	*	0.046	1	B		03/03/2020 16:06	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029		0.095	1			03/03/2020 16:06	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015		0.049	1			03/03/2020 16:06	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023		0.077	1			03/03/2020 16:06	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023		0.076	1			03/03/2020 16:06	RLD	EPA 8260C
Chloromethane	0.084	ug/L	0.030	*	0.11	1	B		03/03/2020 16:06	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027		0.090	1			03/03/2020 16:06	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020		0.067	1			03/03/2020 16:06	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 16:06	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030		0.11	1			03/03/2020 16:06	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 16:06	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02		0.05	1			03/03/2020 16:06	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016		0.053	1			03/03/2020 16:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391694 Sample Description: P-118 License/Well #: 00467/145 Sampled: 02/25/2020 1617

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:06	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 16:06	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 16:06	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 16:06	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 16:06	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 16:06	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 16:06	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 16:06	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 16:06	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 16:06	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 16:06	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 16:06	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 16:06	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 16:06	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 16:06	RLD	EPA 8260C
Toluene	0.020	ug/L	0.017 *	0.056	1			03/03/2020 16:06	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 16:06	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 16:06	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 16:06	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 16:06	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 16:06	RLD	EPA 8260C
Vinyl chloride	0.024	ug/L	0.013 *	0.043	1			03/03/2020 16:06	RLD	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	70.0	130	1			03/03/2020 16:06	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	70.0	130	1			03/03/2020 16:06	RLD	EPA 8260C
d8-Toluene	100	% Recovery	70.0	130	1			03/03/2020 16:06	RLD	EPA 8260C
Dibromofluoromethane	97	% Recovery	70.0	130	1			03/03/2020 16:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391695 Sample Description: P-111D License/Well #: 00467/130 Sampled: 02/25/2020 1657

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	59	mg/L	4.0	13	5			03/05/2020 21:30	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:11	SRW	EPA 353.2
Metals Results										
Total Manganese	34.2	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 20:55	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 16:35	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 16:35	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 16:35	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 16:35	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 16:35	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 16:35	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:35	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 16:35	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 16:35	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 16:35	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 16:35	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 16:35	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 16:35	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 16:35	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 16:35	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 16:35	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 16:35	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 16:35	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:35	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 16:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391695 Sample Description: P-111D License/Well #: 00467/130 Sampled: 02/25/2020 1657

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	22	1			03/03/2020 16:35	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015	0.050	1			03/03/2020 16:35	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.6	1			03/03/2020 16:35	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024	0.080	1			03/03/2020 16:35	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30	1.0	1			03/03/2020 16:35	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017	0.057	1			03/03/2020 16:35	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22	0.74	1			03/03/2020 16:35	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80	2.6	1			03/03/2020 16:35	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019	0.062	1			03/03/2020 16:35	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018	0.060	1			03/03/2020 16:35	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040	0.15	1			03/03/2020 16:35	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028	0.093	1			03/03/2020 16:35	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:35	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060	0.19	1	Y		03/03/2020 16:35	RLD	EPA 8260C
Carbon disulfide	0.018	ug/L	0.014 *	0.046	1	B		03/03/2020 16:35	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029	0.095	1			03/03/2020 16:35	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015	0.049	1			03/03/2020 16:35	RLD	EPA 8260C
Chloroethane	0.89	ug/L	0.023	0.077	1			03/03/2020 16:35	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023	0.076	1			03/03/2020 16:35	RLD	EPA 8260C
Chloromethane	0.11	ug/L	0.030	0.11	1	B		03/03/2020 16:35	RLD	EPA 8260C
cis-1,2-Dichloroethene	2.8	ug/L	0.027	0.090	1			03/03/2020 16:35	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020	0.067	1			03/03/2020 16:35	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:35	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030	0.11	1			03/03/2020 16:35	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:35	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02	0.05	1			03/03/2020 16:35	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016	0.053	1			03/03/2020 16:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391695 Sample Description: P-111D License/Well #: 00467/130 Sampled: 02/25/2020 1657

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 16:35	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 16:35	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 16:35	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 16:35	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 16:35	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 16:35	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 16:35	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 16:35	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 16:35	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 16:35	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 16:35	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 16:35	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 16:35	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 16:35	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 16:35	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 16:35	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.035	ug/L	0.029 *	0.098	1			03/03/2020 16:35	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 16:35	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 16:35	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 16:35	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 16:35	RLD	EPA 8260C
Vinyl chloride	3.0	ug/L	0.013	0.043	1			03/03/2020 16:35	RLD	EPA 8260C
1,2 Dichloroethane-d4	104	% Recovery	70.0	130	1			03/03/2020 16:35	RLD	EPA 8260C
Bromofluorobenzene	97	% Recovery	70.0	130	1			03/03/2020 16:35	RLD	EPA 8260C
d8-Toluene	100	% Recovery	70.0	130	1			03/03/2020 16:35	RLD	EPA 8260C
Dibromofluoromethane	97	% Recovery	70.0	130	1			03/03/2020 16:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391696 Sample Description: P-107D License/Well #: 00467/119 Sampled: 02/25/2020 1749

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	25	mg/L	0.80	2.5	1			03/05/2020 22:33	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:12	SRW	EPA 353.2
Metals Results										
Total Manganese	189	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 21:02	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 17:04	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 17:04	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 17:04	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 17:04	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 17:04	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 17:04	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:04	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 17:04	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 17:04	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 17:04	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 17:04	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 17:04	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 17:04	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 17:04	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 17:04	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 17:04	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 17:04	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 17:04	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:04	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 17:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391696 Sample Description: P-107D License/Well #: 00467/119 Sampled: 02/25/2020 1749

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	22	1			03/03/2020 17:04	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015	0.050	1			03/03/2020 17:04	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.6	1			03/03/2020 17:04	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024	0.080	1			03/03/2020 17:04	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30	1.0	1			03/03/2020 17:04	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017	0.057	1			03/03/2020 17:04	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22	0.74	1			03/03/2020 17:04	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80	2.6	1			03/03/2020 17:04	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019	0.062	1			03/03/2020 17:04	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018	0.060	1			03/03/2020 17:04	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040	0.15	1			03/03/2020 17:04	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028	0.093	1			03/03/2020 17:04	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:04	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060	0.19	1	Y		03/03/2020 17:04	RLD	EPA 8260C
Carbon disulfide	0.044	ug/L	0.014 *	0.046	1	B		03/03/2020 17:04	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029	0.095	1			03/03/2020 17:04	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015	0.049	1			03/03/2020 17:04	RLD	EPA 8260C
Chloroethane	0.45	ug/L	0.023	0.077	1			03/03/2020 17:04	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023	0.076	1			03/03/2020 17:04	RLD	EPA 8260C
Chloromethane	0.053	ug/L	0.030 *	0.11	1	B		03/03/2020 17:04	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.66	ug/L	0.027	0.090	1			03/03/2020 17:04	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020	0.067	1			03/03/2020 17:04	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:04	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030	0.11	1			03/03/2020 17:04	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:04	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02	0.05	1			03/03/2020 17:04	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016	0.053	1			03/03/2020 17:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391696 Sample Description: P-107D License/Well #: 00467/119 Sampled: 02/25/2020 1749

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:04	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 17:04	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 17:04	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 17:04	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 17:04	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 17:04	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 17:04	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 17:04	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 17:04	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 17:04	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 17:04	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 17:04	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 17:04	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 17:04	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 17:04	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 17:04	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 17:04	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 17:04	RLD	EPA 8260C
Trichloroethene	0.043	ug/L	0.025	* 0.084	1			03/03/2020 17:04	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 17:04	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 17:04	RLD	EPA 8260C
Vinyl chloride	2.1	ug/L	0.013	0.043	1			03/03/2020 17:04	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	70.0	130	1			03/03/2020 17:04	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	70.0	130	1			03/03/2020 17:04	RLD	EPA 8260C
d8-Toluene	100	% Recovery	70.0	130	1			03/03/2020 17:04	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	70.0	130	1			03/03/2020 17:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391697 Sample Description: P-103D License/Well #: 00467/141 Sampled: 02/26/2020 0821

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	71	mg/L	4.0	13	5			03/05/2020 22:54	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:13	SRW	EPA 353.2
Metals Results										
Total Manganese	80.4	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 21:08	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 17:32	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 17:32	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 17:32	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 17:32	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 17:32	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 17:32	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:32	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 17:32	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 17:32	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 17:32	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 17:32	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 17:32	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 17:32	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 17:32	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 17:32	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 17:32	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 17:32	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 17:32	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:32	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 17:32	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391697 Sample Description: P-103D License/Well #: 00467/141 Sampled: 02/26/2020 0821

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	22	1			03/03/2020 17:32	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015	0.050	1			03/03/2020 17:32	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.6	1			03/03/2020 17:32	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024	0.080	1			03/03/2020 17:32	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30	1.0	1			03/03/2020 17:32	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017	0.057	1			03/03/2020 17:32	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22	0.74	1			03/03/2020 17:32	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80	2.6	1			03/03/2020 17:32	RLD	EPA 8260C
Benzene	0.022	ug/L	0.019 *	0.062	1			03/03/2020 17:32	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018	0.060	1			03/03/2020 17:32	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040	0.15	1			03/03/2020 17:32	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028	0.093	1			03/03/2020 17:32	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:32	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060	0.19	1	Y		03/03/2020 17:32	RLD	EPA 8260C
Carbon disulfide	0.017	ug/L	0.014 *	0.046	1	B		03/03/2020 17:32	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029	0.095	1			03/03/2020 17:32	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015	0.049	1			03/03/2020 17:32	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023	0.077	1			03/03/2020 17:32	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023	0.076	1			03/03/2020 17:32	RLD	EPA 8260C
Chloromethane	0.082	ug/L	0.030 *	0.11	1	B		03/03/2020 17:32	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.25	ug/L	0.027	0.090	1			03/03/2020 17:32	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020	0.067	1			03/03/2020 17:32	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:32	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030	0.11	1			03/03/2020 17:32	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:32	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02	0.05	1			03/03/2020 17:32	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016	0.053	1			03/03/2020 17:32	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391697 Sample Description: P-103D License/Well #: 00467/141 Sampled: 02/26/2020 0821

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 17:32	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 17:32	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 17:32	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 17:32	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 17:32	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 17:32	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 17:32	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 17:32	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 17:32	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 17:32	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 17:32	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 17:32	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 17:32	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 17:32	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 17:32	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 17:32	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 17:32	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 17:32	RLD	EPA 8260C
Trichloroethene	0.062	ug/L	0.025	* 0.084	1			03/03/2020 17:32	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 17:32	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 17:32	RLD	EPA 8260C
Vinyl chloride	0.22	ug/L	0.013	0.043	1			03/03/2020 17:32	RLD	EPA 8260C
1,2 Dichloroethane-d4	99	% Recovery	70.0	130	1			03/03/2020 17:32	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	70.0	130	1			03/03/2020 17:32	RLD	EPA 8260C
d8-Toluene	101	% Recovery	70.0	130	1			03/03/2020 17:32	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	70.0	130	1			03/03/2020 17:32	RLD	EPA 8260C

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CT LAB#: 391698 Sample Description: MW-3A License/Well #: 00467/133 Sampled: 02/25/2020 1417

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	20	mg/L	0.80	2.5	1			03/05/2020 23:16	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:14	SRW	EPA 353.2
Metals Results										
Total Manganese	456	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 21:15	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:01	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 18:01	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 18:01	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 18:01	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 18:01	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 18:01	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:01	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 18:01	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 18:01	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 18:01	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 18:01	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 18:01	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 18:01	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 18:01	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 18:01	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 18:01	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 18:01	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 18:01	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:01	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 18:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391698 Sample Description: MW-3A License/Well #: 00467/133 Sampled: 02/25/2020 1417

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0		22	1			03/03/2020 18:01	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015		0.050	1			03/03/2020 18:01	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50		1.6	1			03/03/2020 18:01	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024		0.080	1			03/03/2020 18:01	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30		1.0	1			03/03/2020 18:01	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017		0.057	1			03/03/2020 18:01	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22		0.74	1			03/03/2020 18:01	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80		2.6	1			03/03/2020 18:01	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019		0.062	1			03/03/2020 18:01	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018		0.060	1			03/03/2020 18:01	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040		0.15	1			03/03/2020 18:01	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028		0.093	1			03/03/2020 18:01	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:01	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060		0.19	1	Y		03/03/2020 18:01	RLD	EPA 8260C
Carbon disulfide	<0.014	ug/L	0.014		0.046	1			03/03/2020 18:01	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029		0.095	1			03/03/2020 18:01	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015		0.049	1			03/03/2020 18:01	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023		0.077	1			03/03/2020 18:01	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023		0.076	1			03/03/2020 18:01	RLD	EPA 8260C
Chloromethane	0.084	ug/L	0.030	*	0.11	1	B		03/03/2020 18:01	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027		0.090	1			03/03/2020 18:01	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020		0.067	1			03/03/2020 18:01	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:01	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030		0.11	1			03/03/2020 18:01	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:01	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02		0.05	1			03/03/2020 18:01	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016		0.053	1			03/03/2020 18:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391698 Sample Description: MW-3A License/Well #: 00467/133 Sampled: 02/25/2020 1417

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:01	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:01	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 18:01	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 18:01	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 18:01	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 18:01	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 18:01	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 18:01	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 18:01	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:01	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 18:01	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 18:01	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 18:01	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 18:01	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 18:01	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 18:01	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 18:01	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 18:01	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 18:01	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 18:01	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 18:01	RLD	EPA 8260C
Vinyl chloride	<0.013	ug/L	0.013	0.043	1			03/03/2020 18:01	RLD	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	70.0	130	1			03/03/2020 18:01	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	70.0	130	1			03/03/2020 18:01	RLD	EPA 8260C
d8-Toluene	99	% Recovery	70.0	130	1			03/03/2020 18:01	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	70.0	130	1			03/03/2020 18:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391699 Sample Description: MW-3B License/Well #: 00467/134 Sampled: 02/25/2020 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	49	mg/L	4.0	13	5			03/05/2020 23:37	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:15	SRW	EPA 353.2
Metals Results										
Total Manganese	74.0	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 21:21	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:30	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 18:30	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 18:30	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 18:30	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 18:30	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 18:30	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:30	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 18:30	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 18:30	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 18:30	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 18:30	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 18:30	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 18:30	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 18:30	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 18:30	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 18:30	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 18:30	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 18:30	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:30	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 18:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391699 Sample Description: MW-3B License/Well #: 00467/134 Sampled: 02/25/2020 1455

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0		22	1			03/03/2020 18:30	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015		0.050	1			03/03/2020 18:30	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50		1.6	1			03/03/2020 18:30	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024		0.080	1			03/03/2020 18:30	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30		1.0	1			03/03/2020 18:30	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017		0.057	1			03/03/2020 18:30	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22		0.74	1			03/03/2020 18:30	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80		2.6	1			03/03/2020 18:30	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019		0.062	1			03/03/2020 18:30	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018		0.060	1			03/03/2020 18:30	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040		0.15	1			03/03/2020 18:30	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028		0.093	1			03/03/2020 18:30	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:30	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060		0.19	1	Y		03/03/2020 18:30	RLD	EPA 8260C
Carbon disulfide	<0.014	ug/L	0.014		0.046	1			03/03/2020 18:30	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029		0.095	1			03/03/2020 18:30	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015		0.049	1			03/03/2020 18:30	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023		0.077	1			03/03/2020 18:30	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023		0.076	1			03/03/2020 18:30	RLD	EPA 8260C
Chloromethane	0.073	ug/L	0.030	*	0.11	1	B		03/03/2020 18:30	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027		0.090	1			03/03/2020 18:30	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020		0.067	1			03/03/2020 18:30	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:30	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030		0.11	1			03/03/2020 18:30	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:30	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02		0.05	1			03/03/2020 18:30	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016		0.053	1			03/03/2020 18:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391699 Sample Description: MW-3B License/Well #: 00467/134 Sampled: 02/25/2020 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:30	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:30	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 18:30	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 18:30	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 18:30	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 18:30	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 18:30	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 18:30	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 18:30	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:30	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 18:30	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 18:30	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 18:30	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 18:30	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 18:30	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 18:30	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 18:30	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 18:30	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 18:30	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 18:30	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 18:30	RLD	EPA 8260C
Vinyl chloride	0.035	ug/L	0.013 *	0.043	1			03/03/2020 18:30	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	70.0	130	1			03/03/2020 18:30	RLD	EPA 8260C
Bromofluorobenzene	97	% Recovery	70.0	130	1			03/03/2020 18:30	RLD	EPA 8260C
d8-Toluene	99	% Recovery	70.0	130	1			03/03/2020 18:30	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	70.0	130	1			03/03/2020 18:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391700 Sample Description: DUP-01 License #:00467 Sampled: 02/25/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	21	mg/L	0.80	2.5	1			03/05/2020 23:58	TMG	EPA 9056A
Nitrate+Nitrite Nitrogen Total	<0.057	mg/L	0.057	0.19	1			03/05/2020 09:17	SRW	EPA 353.2
Metals Results										
Total Manganese	450	ug/L	3.4	11	1		02/28/2020 13:05	03/02/2020 21:28	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:58	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 18:58	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 18:58	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 18:58	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 18:58	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 18:58	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:58	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 18:58	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 18:58	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 18:58	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 18:58	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 18:58	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 18:58	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 18:58	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 18:58	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 18:58	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 18:58	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 18:58	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:58	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 18:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391700 Sample Description: DUP-01 License #:00467 Sampled: 02/25/2020

Analyte	Result	Units	LOD		LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0		22	1			03/03/2020 18:58	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015		0.050	1			03/03/2020 18:58	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50		1.6	1			03/03/2020 18:58	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024		0.080	1			03/03/2020 18:58	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30		1.0	1			03/03/2020 18:58	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017		0.057	1			03/03/2020 18:58	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.22	ug/L	0.22		0.74	1			03/03/2020 18:58	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80		2.6	1			03/03/2020 18:58	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019		0.062	1			03/03/2020 18:58	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018		0.060	1			03/03/2020 18:58	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040		0.15	1			03/03/2020 18:58	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028		0.093	1			03/03/2020 18:58	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:58	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060		0.19	1	Y		03/03/2020 18:58	RLD	EPA 8260C
Carbon disulfide	0.015	ug/L	0.014	*	0.046	1	B		03/03/2020 18:58	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029		0.095	1			03/03/2020 18:58	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015		0.049	1			03/03/2020 18:58	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023		0.077	1			03/03/2020 18:58	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023		0.076	1			03/03/2020 18:58	RLD	EPA 8260C
Chloromethane	0.083	ug/L	0.030	*	0.11	1	B		03/03/2020 18:58	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027		0.090	1			03/03/2020 18:58	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020		0.067	1			03/03/2020 18:58	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:58	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030		0.11	1			03/03/2020 18:58	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030		0.10	1			03/03/2020 18:58	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02		0.05	1			03/03/2020 18:58	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016		0.053	1			03/03/2020 18:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391700 Sample Description: DUP-01 License #:00467 Sampled: 02/25/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 18:58	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:58	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 18:58	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 18:58	RLD	EPA 8260C
Methylene chloride	<0.030	ug/L	0.030	0.12	1			03/03/2020 18:58	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 18:58	RLD	EPA 8260C
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 18:58	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 18:58	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 18:58	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 18:58	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 18:58	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 18:58	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 18:58	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 18:58	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 18:58	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 18:58	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 18:58	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 18:58	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 18:58	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 18:58	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 18:58	RLD	EPA 8260C
Vinyl chloride	<0.013	ug/L	0.013	0.043	1			03/03/2020 18:58	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	70.0	130	1			03/03/2020 18:58	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	70.0	130	1			03/03/2020 18:58	RLD	EPA 8260C
d8-Toluene	101	% Recovery	70.0	130	1			03/03/2020 18:58	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	70.0	130	1			03/03/2020 18:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391701 Sample Description: TRIP BLANK License/Well #: 00467/999 Sampled: 01/20/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.018	ug/L	0.018	0.059	1			03/03/2020 12:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.018	ug/L	0.018	0.060	1			03/03/2020 12:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.014	ug/L	0.014	0.048	1			03/03/2020 12:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.019	ug/L	0.019	0.062	1			03/03/2020 12:43	RLD	EPA 8260C
1,1-Dichloroethane	<0.015	ug/L	0.015	0.050	1			03/03/2020 12:43	RLD	EPA 8260C
1,1-Dichloroethene	<0.040	ug/L	0.040	0.12	1			03/03/2020 12:43	RLD	EPA 8260C
1,1-Dichloropropene	<0.030	ug/L	0.030	0.10	1			03/03/2020 12:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 12:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.070	ug/L	0.070	0.24	1			03/03/2020 12:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.012	ug/L	0.012	0.040	1			03/03/2020 12:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.020	ug/L	0.020	0.065	1			03/03/2020 12:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.070	ug/L	0.070	0.23	1			03/03/2020 12:43	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.12	1			03/03/2020 12:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.022	ug/L	0.022	0.074	1			03/03/2020 12:43	RLD	EPA 8260C
1,2-Dichloroethane	<0.024	ug/L	0.024	0.080	1			03/03/2020 12:43	RLD	EPA 8260C
1,2-Dichloropropane	<0.024	ug/L	0.024	0.079	1			03/03/2020 12:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.016	ug/L	0.016	0.054	1			03/03/2020 12:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.020	ug/L	0.020	0.066	1			03/03/2020 12:43	RLD	EPA 8260C
1,3-Dichloropropane	<0.030	ug/L	0.030	0.10	1			03/03/2020 12:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.017	ug/L	0.017	0.056	1			03/03/2020 12:43	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	22	1			03/03/2020 12:43	RLD	EPA 8260C
2,2-Dichloropropane	<0.015	ug/L	0.015	0.050	1			03/03/2020 12:43	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.6	1			03/03/2020 12:43	RLD	EPA 8260C
2-Chlorotoluene	<0.024	ug/L	0.024	0.080	1			03/03/2020 12:43	RLD	EPA 8260C
2-Hexanone	<0.30	ug/L	0.30	1.0	1			03/03/2020 12:43	RLD	EPA 8260C
4-Chlorotoluene	<0.017	ug/L	0.017	0.057	1			03/03/2020 12:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391701 Sample Description: TRIP BLANK License/Well #: 00467/999 Sampled: 01/20/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Methyl-2-pentanone	<0.22	ug/L	0.22	0.74	1			03/03/2020 12:43	RLD	EPA 8260C
Acetone	<0.80	ug/L	0.80	2.6	1			03/03/2020 12:43	RLD	EPA 8260C
Benzene	<0.019	ug/L	0.019	0.062	1			03/03/2020 12:43	RLD	EPA 8260C
Bromobenzene	<0.018	ug/L	0.018	0.060	1			03/03/2020 12:43	RLD	EPA 8260C
Bromochloromethane	<0.040	ug/L	0.040	0.15	1			03/03/2020 12:43	RLD	EPA 8260C
Bromodichloromethane	<0.028	ug/L	0.028	0.093	1			03/03/2020 12:43	RLD	EPA 8260C
Bromoform	<0.030	ug/L	0.030	0.10	1			03/03/2020 12:43	RLD	EPA 8260C
Bromomethane	<0.060	ug/L	0.060	0.19	1	Y		03/03/2020 12:43	RLD	EPA 8260C
Carbon disulfide	<0.014	ug/L	0.014	0.046	1			03/03/2020 12:43	RLD	EPA 8260C
Carbon tetrachloride	<0.029	ug/L	0.029	0.095	1			03/03/2020 12:43	RLD	EPA 8260C
Chlorobenzene	<0.015	ug/L	0.015	0.049	1			03/03/2020 12:43	RLD	EPA 8260C
Chloroethane	<0.023	ug/L	0.023	0.077	1			03/03/2020 12:43	RLD	EPA 8260C
Chloroform	<0.023	ug/L	0.023	0.076	1			03/03/2020 12:43	RLD	EPA 8260C
Chloromethane	0.49	ug/L	0.030	0.11	1	B		03/03/2020 12:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.027	ug/L	0.027	0.090	1			03/03/2020 12:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.020	ug/L	0.020	0.067	1			03/03/2020 12:43	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 12:43	RLD	EPA 8260C
Dibromomethane	<0.030	ug/L	0.030	0.11	1			03/03/2020 12:43	RLD	EPA 8260C
Dichlorodifluoromethane	<0.030	ug/L	0.030	0.10	1			03/03/2020 12:43	RLD	EPA 8260C
Diisopropyl ether	<0.02	ug/L	0.02	0.05	1			03/03/2020 12:43	RLD	EPA 8260C
Ethylbenzene	<0.016	ug/L	0.016	0.053	1			03/03/2020 12:43	RLD	EPA 8260C
Hexachlorobutadiene	<0.030	ug/L	0.030	0.10	1			03/03/2020 12:43	RLD	EPA 8260C
Isopropylbenzene	<0.018	ug/L	0.018	0.059	1			03/03/2020 12:43	RLD	EPA 8260C
m & p-Xylene	<0.030	ug/L	0.030	0.11	1			03/03/2020 12:43	RLD	EPA 8260C
Methyl tert-butyl ether	<0.017	ug/L	0.017	0.055	1			03/03/2020 12:43	RLD	EPA 8260C
Methylene chloride	0.40	ug/L	0.030	0.12	1			03/03/2020 12:43	RLD	EPA 8260C
n-Butylbenzene	<0.014	ug/L	0.014	0.048	1			03/03/2020 12:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 391701 Sample Description: TRIP BLANK License/Well #: 00467/999 Sampled: 01/20/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
n-Propylbenzene	<0.020	ug/L	0.020	0.068	1			03/03/2020 12:43	RLD	EPA 8260C
Naphthalene	<0.022	ug/L	0.022	0.072	1			03/03/2020 12:43	RLD	EPA 8260C
o-Xylene	<0.017	ug/L	0.017	0.058	1			03/03/2020 12:43	RLD	EPA 8260C
p-Isopropyltoluene	<0.018	ug/L	0.018	0.059	1			03/03/2020 12:43	RLD	EPA 8260C
sec-Butylbenzene	<0.014	ug/L	0.014	0.046	1			03/03/2020 12:43	RLD	EPA 8260C
Styrene	<0.011	ug/L	0.011	0.035	1			03/03/2020 12:43	RLD	EPA 8260C
tert-Butylbenzene	<0.013	ug/L	0.013	0.042	1			03/03/2020 12:43	RLD	EPA 8260C
Tetrachloroethene	<0.023	ug/L	0.023	0.077	1			03/03/2020 12:43	RLD	EPA 8260C
Tetrahydrofuran	<0.28	ug/L	0.28	0.95	1			03/03/2020 12:43	RLD	EPA 8260C
Toluene	<0.017	ug/L	0.017	0.056	1			03/03/2020 12:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.029	ug/L	0.029	0.098	1			03/03/2020 12:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.030	ug/L	0.030	0.11	1			03/03/2020 12:43	RLD	EPA 8260C
Trichloroethene	<0.025	ug/L	0.025	0.084	1			03/03/2020 12:43	RLD	EPA 8260C
Trichlorofluoromethane	<0.029	ug/L	0.029	0.095	1			03/03/2020 12:43	RLD	EPA 8260C
Vinyl acetate	<0.40	ug/L	0.40	1.4	1			03/03/2020 12:43	RLD	EPA 8260C
Vinyl chloride	<0.013	ug/L	0.013	0.043	1			03/03/2020 12:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	70.0	130	1			03/03/2020 12:43	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	70.0	130	1			03/03/2020 12:43	RLD	EPA 8260C
d8-Toluene	99	% Recovery	70.0	130	1			03/03/2020 12:43	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	70.0	130	1			03/03/2020 12:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached. This report has been specifically prepared to satisfy project or program requirements.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 289
Louisiana NELAP (primary) ID# ACC20190002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20190002

Preventative Action Limit (PAL) Exceedances

Location/Landfill: RIPON FF/NN LANDFILL **License #: 00467**

Well Description: *MW-3A*	**Well #: *133***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	456	60	300	3.4	ug/L

Well Description: *MW-3B*	**Well #: *134***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	74.0	60	300	3.4	ug/L
Vinyl chloride	39175	0.035	0.02	0.20	0.013	ug/L

Well Description: *P-103D*	**Well #: *141***	GROUND WATER			**Sample Date**	**02/26/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	80.4	60	300	3.4	ug/L
Vinyl chloride	39175	0.22	0.02	0.20	0.013	ug/L

Well Description: *P-107D*	**Well #: *119***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	189	60	300	3.4	ug/L
Vinyl chloride	39175	2.1	0.02	0.20	0.013	ug/L

Well Description: *P-111D*	**Well #: *130***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	3.0	0.02	0.20	0.013	ug/L

Well Description: *P-114*	**Well #: *140***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	62.6	60	300	3.4	ug/L
Vinyl chloride	39175	7.4	0.02	0.20	0.013	ug/L

Well Description: *P-115*	**Well #: *142***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	125	60	300	3.4	ug/L
Vinyl chloride	39175	0.72	0.02	0.20	0.013	ug/L

Well Description: *P-116*	**Well #: *143***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	118	60	300	3.4	ug/L

Well Description: *P-117*	**Well #: *144***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units

Preventative Action Limit (PAL) Exceedances

Location/Landfill: RIPON FF/NN LANDFILL **License #: 00467**

Well Description: *P-117*	**Well #: *144***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	203	60	300	3.4	ug/L
Vinyl chloride	39175	1.1	0.02	0.20	0.013	ug/L

Well Description: *P-118*	**Well #: *145***	GROUND WATER			**Sample Date**	**02/25/2020**
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	102	60	300	3.4	ug/L
Vinyl chloride	39175	0.024	0.02	0.20	0.013	ug/L

Summary of Detected Organic Compounds

Location/Landfill: **RIPON SUPERFUND LF** **License #:** **00467**

Well Description: ***DUP-1*** **Well #:**

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/22/2019
Acetone			0.52	0.38
Carbon disulfide	0.015	0.022		
Chloroethane		0.26	0.36	0.28
Chloromethane	0.083			
cis-1,2-Dichloroethene		1.6	2.1	1.7
Dichlorodifluoromethane		0.16		
p-Isopropyltoluene				0.15
Vinyl chloride		8.3	6.4	3.7

Well Description: ***MW-103*** **Well #:** ***112***

Parameter	Sample Date 7/22/2019	5/22/2019
Acetone	0.88	3.3
cis-1,2-Dichloroethene	0.31	0.34
Tetrachloroethene	0.29	0.27
trans-1,2-Dichloroethene	0.052	0.040
Trichloroethene	1.6	1.4

Well Description: ***MW-104*** **Well #:** ***113***

Parameter	Sample Date
	5/22/2019
1,4-Dichlorobenzene	1.6
Acetone	2.2
Benzene	0.15
Carbon disulfide	0.16
Chlorobenzene	3.6
cis-1,2-Dichloroethene	0.20
Isopropylbenzene	0.17
Methyl tert-butyl ether	0.054
sec-Butylbenzene	0.061
Toluene	0.041
Trichloroethene	0.054
Vinyl chloride	0.72

Well Description: ***P-103*** **Well #:** ***114***

Parameter	Sample Date	
	7/23/2019	5/22/2019
Acetone	0.40	0.36
Vinyl chloride	0.038	0.036

Well Description: ***P-106*** **Well #:** ***116***

Parameter	Sample Date
	5/22/2019
Trichloroethene	0.15

Well Description: ***MW-107*** **Well #:** ***117***

Parameter	Sample Date
	5/21/2019
Acetone	1.3

Well Description: ***P-107*** **Well #:** ***118***

Parameter	Sample Date
	5/21/2019
Acetone	0.60
Chloroethane	0.081
cis-1,2-Dichloroethene	0.28
Trichloroethene	0.074
Vinyl chloride	0.95

Well Description: ***P-107D*** **Well #:** ***119***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/23/2019	5/21/2019
1,1-Dichloroethane		0.029		
Acetone			0.61	0.87
Carbon disulfide	0.044	0.036		
Chloroethane	0.45	2.0	1.4	1.3
Chloromethane	0.053			
cis-1,2-Dichloroethene	0.66	2.1	1.9	1.7
Dichlorodifluoromethane		0.17		
Trichloroethene	0.043	0.12	0.14	0.12
Vinyl chloride	2.1	7.6	4.4	5.2

Well Description: ***MW-112*** **Well #:** ***121***

Parameter	Sample Date 7/22/2019	5/22/2019
Acetone		0.64
Chlorobenzene	0.10	0.058
cis-1,2-Dichloroethene	0.21	0.28
Tetrachloroethene	0.16	0.25
Trichloroethene	0.74	0.99
Vinyl chloride	0.040	0.031

Well Description: ***P-111D*** **Well #:** ***130***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/23/2019	5/22/2019
Acetone			0.63	0.45
Carbon disulfide	0.018	0.043		
Chloroethane	0.89	0.86	0.89	0.93
Chloromethane	0.11		0.040	
cis-1,2-Dichloroethene	2.8	2.9	3.3	2.8
Dichlorodifluoromethane		0.16		0.066
trans-1,2-Dichloroethene	0.035	0.042		
Vinyl chloride	3.0	4.6	4.6	4.2

Well Description: ***MW-3A*** **Well #:** ***133***

Parameter	Sample Date		
	2/25/2020	10/21/2019	7/22/2019
Acetone			0.35
Carbon disulfide		0.025	
Chloromethane	0.084	0.030	

Well Description: ***MW-3B*** **Well #:** ***134***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/21/2019
Acetone			0.84	0.44
Carbon disulfide		0.027		
Chloromethane	0.073			
Vinyl chloride	0.035	0.051	0.065	0.058

Well Description: ***P-113A*** **Well #:** ***136***

Parameter	Sample Date
	2/26/2020
Chloromethane	0.037

Well Description: ***P-113B*** **Well #:** ***138***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/21/2019
Acetone			0.32	0.33
Carbon disulfide		0.025		
Chloromethane	0.048	0.030		

Well Description: ***P-114*** **Well #:** ***140***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/22/2019
Acetone			0.72	0.47
Carbon disulfide		0.021		
Chloroethane	0.27	0.24	0.29	0.27
Chloromethane	0.039			
cis-1,2-Dichloroethene	1.8	1.6	2.1	1.7
Dichlorodifluoromethane		0.15		
p-Isopropyltoluene				0.15
Vinyl chloride	7.4	8.0	6.9	7.3

Well Description: ***P-103D*** **Well #:** ***141***

Parameter	Sample Date			
	2/26/2020	10/21/2019	7/23/2019	5/22/2019
Acetone			0.41	0.32
Benzene	0.022		0.042	
Carbon disulfide	0.017			
Chloromethane	0.082			
cis-1,2-Dichloroethene	0.25	0.25	0.24	0.30
Trichloroethene	0.062	0.050	0.10	0.086
Vinyl chloride	0.22	0.27	0.17	0.31

Well Description: ***P-115*** **Well #:** ***142***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/22/2019
Acetone			0.71	0.55
Carbon disulfide	0.047	0.025		0.074
Chloromethane	0.040			
cis-1,2-Dichloroethene	0.17	0.15	0.14	0.14
Vinyl chloride	0.72	0.96	0.91	0.94

Well Description: ***P-116*** **Well #:** ***143***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/22/2019
Acetone			0.59	0.75
Carbon disulfide	0.028	0.049		
Chloromethane	0.062			
Toluene				0.040

Well Description: ***P-117*** **Well #:** ***144***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/21/2019
Acetone				0.55
Benzene	0.022			
Carbon disulfide	0.017			
Chloroethane	0.35	0.38	0.36	0.32
Chloromethane	0.084			
cis-1,2-Dichloroethene	0.69	0.78	0.84	0.76
Dichlorodifluoromethane		0.12		
Naphthalene	0.034			
Trichloroethene	0.047	0.061	0.061	
Vinyl chloride	1.1	1.5	1.3	1.2

Well Description: ***P-118*** **Well #:** ***145***

Parameter	Sample Date			
	2/25/2020	10/21/2019	7/22/2019	5/21/2019
Acetone				0.57
Carbon disulfide	0.028	0.054		
Chloromethane	0.084			
Naphthalene		0.026		0.044
Toluene	0.020	0.038	0.055	0.040
Vinyl chloride	0.024	0.079	0.064	0.057

Well Description: ***LC-1*** **Well #:** ***301***

Parameter	Sample Date
	5/21/2019
1,1,2,2-Tetrachloroethane	30
1,2,4-Trimethylbenzene	110
1,3,5-Trimethylbenzene	44
Ethylbenzene	29
Isopropylbenzene	11
m & p-Xylene	200
Naphthalene	100
o-Xylene	8.5
p-Isopropyltoluene	41
sec-Butylbenzene	11
Tetrahydrofuran	130

Well Description: ***LC-2*** **Well #:** ***302***

Parameter	Sample Date
	5/21/2019
1,2,4-Trimethylbenzene	85
1,3,5-Trimethylbenzene	19
1,4-Dichlorobenzene	23
Acetone	94
Benzene	18
Chlorobenzene	170
Ethylbenzene	8.5
Isopropylbenzene	13
m & p-Xylene	430
Naphthalene	16
n-Propylbenzene	10
p-Isopropyltoluene	9.8
Tetrahydrofuran	110
Toluene	3.2

Well Description: ***LC-3*** **Well #:** ***303***

Parameter	Sample Date
	5/21/2019
1,2,4-Trimethylbenzene	5.8
1,3,5-Trimethylbenzene	5.0
2-Butanone	280
Acetone	1800
Benzene	4.1
Bromomethane	8.9
Carbon disulfide	75
cis-1,2-Dichloroethene	170
Ethylbenzene	69
m & p-Xylene	310
o-Xylene	78
Tetrahydrofuran	82
Toluene	260
Trichloroethene	14

Well Description: ***TRIP BLANK*** **Well #:** ***999***

Parameter	Sample Date				
	1/20/2020	10/21/2019	7/21/2019	7/2/2019	5/22/2019
Acetone		3.3	1.1	1.2	0.57
Carbon disulfide		0.021			
Chloromethane	0.49	0.046			
Methylene chloride	0.40	0.20	1.3	1.1	

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QC SUMMARY REPORT

TRC ENVIRONMENTAL **Project Name: RIPON FF/NN LANDFILL**

SDG #: 0 **Folder #: 151602** **Project #: 378957.0001.0001**

Duplicate

Analytical Run #:	169219	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	394070	Analysis Time:	18:40	Prep Date/Time:		Method:	SW9056A
Parent Sample #:	391687	Analyst:	TMG	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Sulfate	11.6	mg/L	12					3	10

Lab Control Spike Water

Analytical Run #:	169219	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	394068	Analysis Time:	17:36	Prep Date/Time:		Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	25.20	mg/L			25.00	101	80 --- 120		

Method Blank Water

Analytical Run #:	169219	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	394069	Analysis Time:	17:57	Prep Date/Time:		Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	0.8	mg/L		U	0		0.8		

Matrix Spike Water

Analytical Run #:	169219	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	394071	Analysis Time:	19:01	Prep Date/Time:		Method:	SW9056A
Parent Sample #:	391687	Analyst:	TMG	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Sulfate	18.8	mg/L	12		8.00	85	49 --- 120		20

Lab Control Spike Water

Analytical Run #:	169247	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	393193	Analysis Time:	08:55	Prep Date/Time:		Method:	
Parent Sample #:		Analyst:	SRW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate+Nitrite Nitrogen Total	4.800	mg/L			5.000	96	90 --- 110		
Nitrate+Nitrite Nitrogen,Diss	4.800	mg/L			5.000	96	90 --- 110		

Method Blank Water

Analytical Run #:	169247	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	393194	Analysis Time:	08:56	Prep Date/Time:		Method:	
Parent Sample #:		Analyst:	SRW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate+Nitrite Nitrogen	0.057	mg/L		U	0		0.057		

Matrix Spike Duplicate Water

Analytical Run #:	169247	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	393285	Analysis Time:	08:59	Prep Date/Time:		Method:	
Parent Sample #:	393284	Analyst:	SRW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate+Nitrite Nitrogen	2.44	mg/L	BDL		2.00	122	90 --- 110	4	20

Matrix Spike Water

Analytical Run #:	169247	Analysis Date:	03/05/2020	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	393284	Analysis Time:	08:58	Prep Date/Time:		Method:	
Parent Sample #:	391687	Analyst:	SRW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate+Nitrite Nitrogen	2.35	mg/L	BDL		2.00	118	90 --- 110		20

Lab Control Spike Water

Analytical Run #:	169141	Analysis Date:	03/02/2020	Prep Batch #:	75604	Matrix:	LIQUID
CTLab #:	391837	Analysis Time:	19:03	Prep Date/Time:	02/28/2020 13:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	191.0	ug/L			200.0	96	80 --- 120		

Method Blank Water

Analytical Run #:	169141	Analysis Date:	03/02/2020	Prep Batch #:	75604	Matrix:	LIQUID
CTLab #:	391836	Analysis Time:	19:09	Prep Date/Time:	02/28/2020 13:05	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	3.4	ug/L		U	0		3.4		

Matrix Spike Duplicate Water

Analytical Run #:	169141	Analysis Date:	03/02/2020	Prep Batch #:	75604	Matrix:	GROUND WATER
CTLab #:	391839	Analysis Time:	19:46	Prep Date/Time:	02/28/2020 13:05	Method:	SW6010
Parent Sample #:	391838	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	214	ug/L	21.8		200	96	84 --- 111	0	7

Matrix Spike Water

Analytical Run #:	169141	Analysis Date:	03/02/2020	Prep Batch #:	75604	Matrix:	GROUND WATER
CTLab #:	391838	Analysis Time:	19:40	Prep Date/Time:	02/28/2020 13:05	Method:	SW6010
Parent Sample #:	391687	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	215	ug/L	21.8		200	97	84 --- 111		

Lab Control Spike Duplicate Water

Analytical Run #:	169119	Analysis Date:	03/03/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	392876	Analysis Time:	19:26	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	392585	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.71	ug/L	3.99		4.00	93	78 --- 121	7	20
1,1,1-Trichloroethane	3.85	ug/L	4.00		4.00	96	82 --- 122	4	20
1,1,2,2-Tetrachloroethane	3.85	ug/L	3.96		4.00	96	68 --- 128	3	20
1,1,2-Trichloroethane	3.94	ug/L	3.90		4.00	98	84 --- 114	1	20
1,1-Dichloroethane	3.85	ug/L	3.92		4.00	96	76 --- 122	2	20
1,1-Dichloroethene	3.80	ug/L	3.96		4.00	95	83 --- 123	4	20
1,1-Dichloropropene	3.85	ug/L	4.04		4.00	96	85 --- 120	5	20
1,2 Dichloroethane-d4	103	% Recovery			100	103	87 --- 107		
1,2,3-Trichlorobenzene	3.97	ug/L	4.06		4.00	99	78 --- 121	2	20
1,2,3-Trichloropropane	3.68	ug/L	4.13		4.00	92	62 --- 129	12	20
1,2,4-Trichlorobenzene	3.96	ug/L	4.18		4.00	99	80 --- 120	5	20
1,2,4-Trimethylbenzene	3.87	ug/L	4.12		4.00	97	76 --- 125	6	20
1,2-Dibromo-3-chloropropane	3.91	ug/L	4.44		4.00	98	69 --- 125	13	20
1,2-Dibromoethane	3.72	ug/L	3.90		4.00	93	80 --- 118	5	20
1,2-Dichlorobenzene	3.74	ug/L	3.97		4.00	94	80 --- 117	6	20
1,2-Dichloroethane	3.89	ug/L	3.92		4.00	97	78 --- 118	1	20
1,2-Dichloropropane	3.76	ug/L	3.99		4.00	94	78 --- 121	6	20
1,3,5-Trimethylbenzene	3.92	ug/L	4.11		4.00	98	76 --- 126	5	20
1,3-Dichlorobenzene	3.87	ug/L	4.08		4.00	97	78 --- 119	5	20
1,3-Dichloropropane	3.85	ug/L	3.90		4.00	96	82 --- 117	1	20
1,4-Dichlorobenzene	3.85	ug/L	3.98		4.00	96	77 --- 118	3	20
1,4-Dioxane	213	ug/L	190		200	106	11 --- 220	11	20
2,2-Dichloropropane	3.38	ug/L	4.14		4.00	84	71 --- 133	20	20
2-Butanone	38.9	ug/L	36.8		40.0	97	80 --- 120	6	20
2-Chlorotoluene	3.87	ug/L	4.02		4.00	97	73 --- 124	4	20
2-Hexanone	38.9	ug/L	38.6		40.0	97	73 --- 127	1	20
4-Chlorotoluene	3.81	ug/L	4.05		4.00	95	74 --- 125	6	20
4-Methyl-2-pentanone	38.9	ug/L	38.7		40.0	97	77 --- 125	1	20
Acetone	38.2	ug/L	38.5		40.0	96	72 --- 117	1	20
Benzene	3.83	ug/L	3.89		4.00	96	82 --- 118	2	20
Bromobenzene	3.94	ug/L	4.13		4.00	98	77 --- 118	5	20
Bromochloromethane	3.65	ug/L	3.75		4.00	91	81 --- 116	3	20
Bromodichloromethane	3.80	ug/L	4.04		4.00	95	80 --- 122	6	20
Bromofluorobenzene	100	% Recovery			100	100	90 --- 108		
Bromoform	3.51	ug/L	4.15		4.00	88	72 --- 124	17	20
Bromomethane	2.59	ug/L	3.57		4.00	65	25 --- 156	32	20
Carbon disulfide	7.72	ug/L	7.99		8.00	96	81 --- 124	3	20
Carbon tetrachloride	3.85	ug/L	4.03		4.00	96	87 --- 129	5	20
Chlorobenzene	3.80	ug/L	3.95		4.00	95	78 --- 118	4	20
Chloroethane	4.07	ug/L	4.08		4.00	102	73 --- 126	0	20
Chloroform	3.86	ug/L	3.89		4.00	96	76 --- 119	1	20
Chloromethane	3.38	ug/L	3.86		4.00	84	70 --- 121	13	20

Lab Control Spike Duplicate Water

Analytical Run #:	169119	Analysis Date:	03/03/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	392876	Analysis Time:	19:26	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	392585	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	3.80	ug/L	3.95		4.00	95	82 --- 118	4	20
cis-1,3-Dichloropropene	3.64	ug/L	4.08		4.00	91	81 --- 123	11	20
d8-Toluene	100	% Recovery			100	100	93 --- 108		
Dibromochloromethane	3.60	ug/L	4.03		4.00	90	76 --- 124	11	20
Dibromofluoromethane	100	% Recovery			100	100	93 --- 106		
Dibromomethane	3.84	ug/L	3.89		4.00	96	83 --- 115	1	20
Dichlorodifluoromethane	3.79	ug/L	4.04		4.00	95	78 --- 126	6	20
Diisopropyl ether	3.93	ug/L	3.92		4.00	98	75 --- 125	0	20
Ethylbenzene	3.83	ug/L	4.05		4.00	96	78 --- 125	6	20
Hexachlorobutadiene	3.62	ug/L	3.62		4.00	90	79 --- 123	0	20
Isopropylbenzene	3.90	ug/L	4.08		4.00	98	81 --- 124	5	20
m & p-Xylene	7.59	ug/L	8.04		8.00	95	80 --- 123	6	20
Methyl tert-butyl ether	3.86	ug/L	3.84		4.00	96	82 --- 116	1	20
Methylene chloride	3.72	ug/L	3.88		4.00	93	73 --- 128	4	20
n-Butylbenzene	3.86	ug/L	4.03		4.00	96	76 --- 127	4	20
n-Propylbenzene	3.91	ug/L	4.13		4.00	98	75 --- 129	5	20
Naphthalene	3.91	ug/L	4.09		4.00	98	64 --- 129	4	20
o-Xylene	3.85	ug/L	3.99		4.00	96	81 --- 121	4	20
p-Isopropyltoluene	3.93	ug/L	4.12		4.00	98	79 --- 126	5	20
sec-Butylbenzene	3.95	ug/L	4.15		4.00	99	76 --- 128	5	20
Styrene	3.99	ug/L	4.12		4.00	100	81 --- 122	3	20
tert-Butylbenzene	3.88	ug/L	4.16		4.00	97	76 --- 125	7	20
Tetrachloroethene	3.76	ug/L	4.04		4.00	94	82 --- 123	7	20
Tetrahydrofuran	38.2	ug/L	38.0		40.0	96	69 --- 122	1	20
Toluene	3.86	ug/L	3.99		4.00	96	82 --- 119	3	20
trans-1,2-Dichloroethene	3.83	ug/L	3.99		4.00	96	80 --- 122	4	20
trans-1,3-Dichloropropene	3.60	ug/L	4.09		4.00	90	83 --- 119	13	20
Trichloroethene	3.90	ug/L	3.97		4.00	98	82 --- 120	2	20
Trichlorofluoromethane	3.94	ug/L	3.97		4.00	98	78 --- 130	1	20
Vinyl acetate	38.7	ug/L	41.1		40.0	97	63 --- 136	6	20
Vinyl chloride	3.86	ug/L	3.98		4.00	96	73 --- 127	3	20

Lab Control Spike Water

Analytical Run #:	169119	Analysis Date:	03/03/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	392585	Analysis Time:	08:28	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.99	ug/L			4.00	100	78 --- 121		20
1,1,1-Trichloroethane	4.00	ug/L			4.00	100	82 --- 122		20
1,1,2,2-Tetrachloroethane	3.96	ug/L			4.00	99	68 --- 128		20
1,1,2-Trichloroethane	3.90	ug/L			4.00	98	84 --- 114		20
1,1-Dichloroethane	3.92	ug/L			4.00	98	76 --- 122		20
1,1-Dichloroethene	3.96	ug/L			4.00	99	83 --- 123		20
1,1-Dichloropropene	4.04	ug/L			4.00	101	85 --- 120		20
1,2 Dichloroethane-d4	95.0	% Recovery			100	95.0	87 --- 107		
1,2,3-Trichlorobenzene	4.06	ug/L			4.00	102	78 --- 121		20
1,2,3-Trichloropropane	4.13	ug/L			4.00	103	62 --- 129		20
1,2,4-Trichlorobenzene	4.18	ug/L			4.00	104	80 --- 120		20
1,2,4-Trimethylbenzene	4.12	ug/L			4.00	103	76 --- 125		20
1,2-Dibromo-3-chloropropane	4.44	ug/L			4.00	111	69 --- 125		20
1,2-Dibromoethane	3.90	ug/L			4.00	98	80 --- 118		20
1,2-Dichlorobenzene	3.97	ug/L			4.00	99	80 --- 117		20
1,2-Dichloroethane	3.92	ug/L			4.00	98	78 --- 118		20
1,2-Dichloropropane	3.99	ug/L			4.00	100	78 --- 121		20
1,3,5-Trimethylbenzene	4.11	ug/L			4.00	103	76 --- 126		20
1,3-Dichlorobenzene	4.08	ug/L			4.00	102	78 --- 119		20
1,3-Dichloropropane	3.90	ug/L			4.00	98	82 --- 117		20
1,4-Dichlorobenzene	3.98	ug/L			4.00	100	77 --- 118		20
1,4-Dioxane	190	ug/L			200	95	11 --- 220		20
2,2-Dichloropropane	4.14	ug/L			4.00	104	71 --- 133		20
2-Butanone	36.8	ug/L			40.0	92	80 --- 120		20
2-Chlorotoluene	4.02	ug/L			4.00	100	73 --- 124		20
2-Hexanone	38.6	ug/L			40.0	96	73 --- 127		20
4-Chlorotoluene	4.05	ug/L			4.00	101	74 --- 125		20
4-Methyl-2-pentanone	38.7	ug/L			40.0	97	77 --- 125		20
Acetone	38.5	ug/L			40.0	96	72 --- 117		20
Benzene	3.89	ug/L			4.00	97	82 --- 118		20
Bromobenzene	4.13	ug/L			4.00	103	77 --- 118		20
Bromochloromethane	3.75	ug/L			4.00	94	81 --- 116		20
Bromodichloromethane	4.04	ug/L			4.00	101	80 --- 122		20
Bromofluorobenzene	101	% Recovery			100	101	90 --- 108		
Bromoform	4.15	ug/L			4.00	104	72 --- 124		20
Bromomethane	3.57	ug/L			4.00	89	25 --- 156		20
Carbon disulfide	7.99	ug/L			8.00	100	81 --- 124		20
Carbon tetrachloride	4.03	ug/L			4.00	101	87 --- 129		20
Chlorobenzene	3.95	ug/L			4.00	99	78 --- 118		20
Chloroethane	4.08	ug/L			4.00	102	73 --- 126		20
Chloroform	3.89	ug/L			4.00	97	76 --- 119		20
Chloromethane	3.86	ug/L			4.00	96	70 --- 121		20

Lab Control Spike Water

Analytical Run #:	169119	Analysis Date:	03/03/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	392585	Analysis Time:	08:28	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	3.95	ug/L			4.00	99	82 --- 118		20
cis-1,3-Dichloropropene	4.08	ug/L			4.00	102	81 --- 123		20
d8-Toluene	98.0	% Recovery			100	98.0	93 --- 108		
Dibromochloromethane	4.03	ug/L			4.00	101	76 --- 124		20
Dibromofluoromethane	97.0	% Recovery			100	97.0	93 --- 106		
Dibromomethane	3.89	ug/L			4.00	97	83 --- 115		20
Dichlorodifluoromethane	4.04	ug/L			4.00	101	78 --- 126		20
Diisopropyl ether	3.92	ug/L			4.00	98	75 --- 125		20
Ethylbenzene	4.05	ug/L			4.00	101	78 --- 125		20
Hexachlorobutadiene	3.62	ug/L			4.00	90	79 --- 123		20
Isopropylbenzene	4.08	ug/L			4.00	102	81 --- 124		20
m & p-Xylene	8.04	ug/L			8.00	100	80 --- 123		20
Methyl tert-butyl ether	3.84	ug/L			4.00	96	82 --- 116		20
Methylene chloride	3.88	ug/L			4.00	97	73 --- 128		20
n-Butylbenzene	4.03	ug/L			4.00	101	76 --- 127		20
n-Propylbenzene	4.13	ug/L			4.00	103	75 --- 129		20
Naphthalene	4.09	ug/L			4.00	102	64 --- 129		20
o-Xylene	3.99	ug/L			4.00	100	81 --- 121		20
p-Isopropyltoluene	4.12	ug/L			4.00	103	79 --- 126		20
sec-Butylbenzene	4.15	ug/L			4.00	104	76 --- 128		20
Styrene	4.12	ug/L			4.00	103	81 --- 122		20
tert-Butylbenzene	4.16	ug/L			4.00	104	76 --- 125		20
Tetrachloroethene	4.04	ug/L			4.00	101	82 --- 123		20
Tetrahydrofuran	38.0	ug/L			40.0	95	69 --- 122		20
Toluene	3.99	ug/L			4.00	100	82 --- 119		20
trans-1,2-Dichloroethene	3.99	ug/L			4.00	100	80 --- 122		20
trans-1,3-Dichloropropene	4.09	ug/L			4.00	102	83 --- 119		20
Trichloroethene	3.97	ug/L			4.00	99	82 --- 120		20
Trichlorofluoromethane	3.97	ug/L			4.00	99	78 --- 130		20
Vinyl acetate	41.1	ug/L			40.0	103	63 --- 136		20
Vinyl chloride	3.98	ug/L			4.00	100	73 --- 127		20

Method Blank Water

Analytical Run #:	169119	Analysis Date:	03/03/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	392821	Analysis Time:	10:21	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.018	ug/L		U	0		0.018		
1,1,1-Trichloroethane	0.018	ug/L		U	0		0.018		
1,1,2,2-Tetrachloroethane	0.014	ug/L		U	0		0.014		
1,1,2-Trichloroethane	0.019	ug/L		U	0		0.019		
1,1-Dichloroethane	0.015	ug/L		U	0		0.015		
1,1-Dichloroethene	0.04	ug/L		U	0		0.04		
1,1-Dichloropropene	0.03	ug/L		U	0		0.03		
1,2 Dichloroethane-d4	102	% Recovery			100	102	68 --- 120		
1,2,3-Trichlorobenzene	0.012	ug/L		U	0		0.012		
1,2,3-Trichloropropane	0.07	ug/L		U	0		0.07		
1,2,4-Trichlorobenzene	0.012	ug/L		U	0		0.012		
1,2,4-Trimethylbenzene	0.020	ug/L		U	0		0.020		
1,2-Dibromo-3-chloropropane	0.07	ug/L		U	0		0.07		
1,2-Dibromoethane	0.04	ug/L		U	0		0.04		
1,2-Dichlorobenzene	0.022	ug/L		U	0		0.022		
1,2-Dichloroethane	0.024	ug/L		U	0		0.024		
1,2-Dichloropropane	0.024	ug/L		U	0		0.024		
1,3,5-Trimethylbenzene	0.016	ug/L		U	0		0.016		
1,3-Dichlorobenzene	0.020	ug/L		U	0		0.020		
1,3-Dichloropropane	0.09	ug/L		U	0		0.09		
1,4-Dichlorobenzene	0.017	ug/L		U	0		0.017		
1,4-Dioxane	7	ug/L		U	0		7		
2,2-Dichloropropane	0.015	ug/L		U	0		0.015		
2-Butanone	0.5	ug/L		U	0		0.5		
2-Chlorotoluene	0.024	ug/L		U	0		0.024		
2-Hexanone	0.3	ug/L		U	0		0.3		
4-Chlorotoluene	0.017	ug/L		U	0		0.017		
4-Methyl-2-pentanone	0.22	ug/L		U	0		0.22		
Acetone	0.8	ug/L		U	0		0.8		
Benzene	0.019	ug/L		U	0		0.019		
Bromobenzene	0.018	ug/L		U	0		0.018		
Bromochloromethane	0.04	ug/L		U	0		0.04		
Bromodichloromethane	0.028	ug/L		U	0		0.028		
Bromofluorobenzene	98.0	% Recovery			100	98.0	68 --- 120		
Bromoform	0.03	ug/L		U	0		0.03		
Bromomethane	0.06	ug/L		U	0		0.06		
Carbon disulfide	0.0166	ug/L			0		0.014		
Carbon tetrachloride	0.029	ug/L		U	0		0.029		
Chlorobenzene	0.015	ug/L		U	0		0.015		
Chloroethane	0.023	ug/L		U	0		0.023		
Chloroform	0.023	ug/L		U	0		0.023		
Chloromethane	0.0312	ug/L			0		0.03		

Method Blank Water

Analytical Run #:	169119	Analysis Date:	03/03/2020	Prep Batch #:		Matrix:	LIQUID
CTLab #:	392821	Analysis Time:	10:21	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.027	ug/L		U	0		0.027		
cis-1,3-Dichloropropene	0.020	ug/L		U	0		0.020		
d8-Toluene	100	% Recovery			100	100	71 --- 117		
Dibromochloromethane	0.03	ug/L		U	0		0.03		
Dibromofluoromethane	100	% Recovery			100	100	67 --- 122		
Dibromomethane	0.03	ug/L		U	0		0.03		
Dichlorodifluoromethane	0.03	ug/L		U	0		0.03		
Diisopropyl ether	0.016	ug/L		U	0		0.016		
Ethylbenzene	0.016	ug/L		U	0		0.016		
Hexachlorobutadiene	0.03	ug/L		U	0		0.03		
Isopropylbenzene	0.018	ug/L		U	0		0.018		
m & p-Xylene	0.03	ug/L		U	0		0.03		
Methyl tert-butyl ether	0.017	ug/L		U	0		0.017		
Methylene chloride	0.03	ug/L		U	0		0.03		
n-Butylbenzene	0.014	ug/L		U	0		0.014		
n-Propylbenzene	0.020	ug/L		U	0		0.020		
Naphthalene	0.022	ug/L		U	0		0.022		
o-Xylene	0.017	ug/L		U	0		0.017		
p-Isopropyltoluene	0.018	ug/L		U	0		0.018		
sec-Butylbenzene	0.014	ug/L		U	0		0.014		
Styrene	0.011	ug/L		U	0		0.011		
tert-Butylbenzene	0.013	ug/L		U	0		0.013		
Tetrachloroethene	0.023	ug/L		U	0		0.023		
Tetrahydrofuran	0.28	ug/L		U	0		0.28		
Toluene	0.017	ug/L		U	0		0.017		
trans-1,2-Dichloroethene	0.029	ug/L		U	0		0.029		
trans-1,3-Dichloropropene	0.03	ug/L		U	0		0.03		
Trichloroethene	0.025	ug/L		U	0		0.025		
Trichlorofluoromethane	0.029	ug/L		U	0		0.029		
Vinyl acetate	0.4	ug/L		U	0		0.4		
Vinyl chloride	0.013	ug/L		U	0		0.013		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 151602
Client: TRC ENVIRONMENTAL

Print Date / Time: 02/28/2020 08:48
Received Date / Time / By: 02/27/2020 11:00 JLS

Project Name: RIPON FF/NN LANDFILL
Project Phase: RIPON, WI

Log-In Date / Time / By: 02/27/2020 11:33 JLS
Project #: 378957.0001.0001 PM: BMS

Coolers: 6177,6322
Custody Seals Present :

Temperature: 3.4 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact?
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers:
Tracking Number: 777873129385
Temp Blank Enclosed? **Y**

Notes: THE SAMPLES WERE RECEIVED IN ONCE.

SEVERAL SAMPLES WERE RECEIVED FROZEN. THIS CAUSED THREE VOA VIALS TO BREAK DUE TO ICE EXPANSION (ONE VIAL FOR P-103D, ONE VIAL FOR P-115, AND ONE VIAL FOR P-118). THERE REMAINS SUFFICIENT VOLUME TO COMPLETE THE VOC (8260C) ANALYSIS ON THESE SAMPLES.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
391687 P-113A				
	UNPRES PL	1	/	Anions
	Total # of Containers of Type	(***UNPRES PL***) = **1**		
391687 P-113A				
	HNO3	1	/	ICP
	Total # of Containers of Type	(***HNO3***) = **1**		
391687 P-113A				
	H2SO4 PL	1	/	NO23
	Total # of Containers of Type	(***H2SO4 PL***) = **1**		
391687 P-113A				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
391689 P-113B				
	UNPRES PL	1	/	Anions
	Total # of Containers of Type	(***UNPRES PL***) = **1**		
391689 P-113B				
	HNO3	1	/	ICP
	Total # of Containers of Type	(***HNO3***) = **1**		
391689 P-113B				
	H2SO4 PL	1	/	NO23
	Total # of Containers of Type	(***H2SO4 PL***) = **1**		
391689 P-113B				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

	VOA HCL	1	/	VOC
	Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
391690 P-114				
	UNPRES PL	1	/	Anions
	Total # of Containers of Type	(***UNPRES PL***) = **1**		
391690 P-114				
	HNO3	1	/	ICP
	Total # of Containers of Type	(***HNO3***) = **1**		
391690 P-114				
	H2SO4 PL	1	/	NO23
	Total # of Containers of Type	(***H2SO4 PL***) = **1**		
391690 P-114				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
391691 P-115				
	UNPRES PL	1	/	Anions
	Total # of Containers of Type	(***UNPRES PL***) = **1**		
391691 P-115				
	HNO3	1	/	ICP
	Total # of Containers of Type	(***HNO3***) = **1**		
391691 P-115				
	H2SO4 PL	1	/	NO23
	Total # of Containers of Type	(***H2SO4 PL***) = **1**		
391691 P-115				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type	(***VOA HCL***) = **2**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
391692 P-116				
	UNPRES PL	1	/	Anions
	Total # of Containers of Type	(***UNPRES PL***) = **1**		
391692 P-116				
	HNO3	1	/	ICP
	Total # of Containers of Type	(***HNO3***) = **1**		
391692 P-116				
	H2SO4 PL	1	/	NO23
	Total # of Containers of Type	(***H2SO4 PL***) = **1**		
391692 P-116				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

391693 P-117

UNPRES PL	1	/	Anions
Total # of Containers of Type	(***UNPRES PL***) = **1**		

391693 P-117

HNO3	1	/	ICP
Total # of Containers of Type	(***HNO3***) = **1**		

391693 P-117

H2SO4 PL	1	/	NO23
Total # of Containers of Type	(***H2SO4 PL***) = **1**		

391693 P-117

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

391694 P-118

UNPRES PL	1	/	Anions
Total # of Containers of Type	(***UNPRES PL***) = **1**		

391694 P-118

HNO3	1	/	ICP
Total # of Containers of Type	(***HNO3***) = **1**		

391694 P-118

H2SO4 PL	1	/	NO23
Total # of Containers of Type	(***H2SO4 PL***) = **1**		

391694 P-118

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type	(***VOA HCL***) = **2**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

391695 P-111D

UNPRES PL	1	/	Anions
Total # of Containers of Type	(***UNPRES PL***) = **1**		

391695 P-111D

HNO3	1	/	ICP
Total # of Containers of Type	(***HNO3***) = **1**		

391695 P-111D

H2SO4 PL	1	/	NO23
Total # of Containers of Type	(***H2SO4 PL***) = **1**		

391695 P-111D

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

391696 P-107D

UNPRES PL	1	/	Anions

Total # of Containers of Type (*UNPRES PL*) = 1

391696 P-107D

HNO3	1	/	ICP

Total # of Containers of Type (*HNO3*) = 1

391696 P-107D

H2SO4 PL	1	/	NO23

Total # of Containers of Type (*H2SO4 PL*) = 1

391696 P-107D

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

391697 P-103D

UNPRES PL	1	/	Anions

Total # of Containers of Type (*UNPRES PL*) = 1

391697 P-103D

HNO3	1	/	ICP

Total # of Containers of Type (*HNO3*) = 1

391697 P-103D

H2SO4 PL	1	/	NO23

Total # of Containers of Type (*H2SO4 PL*) = 1

391697 P-103D

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 2

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

391698 MW-3A

UNPRES PL	1	/	Anions

Total # of Containers of Type (*UNPRES PL*) = 1

391698 MW-3A

HNO3	1	/	ICP

Total # of Containers of Type (*HNO3*) = 1

391698 MW-3A

H2SO4 PL	1	/	NO23

Total # of Containers of Type (*H2SO4 PL*) = 1

391698 MW-3A

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

391699 MW-3B

UNPRES PL	1	/	Anions

Total # of Containers of Type (*UNPRES PL*) = 1

391699 MW-3B

HNO3	1	/	ICP

		Total # of Containers of Type	(***HNO3***) = **1**	

391699	MW-3B				
		H2SO4 PL	1	/	NO23
		Total # of Containers of Type	(***H2SO4 PL***) = **1**		

391699	MW-3B				
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**

391700	DUP-01				
		UNPRES PL	1	/	Anions
		Total # of Containers of Type	(***UNPRES PL***) = **1**		

391700	DUP-01				
		HNO3	1	/	ICP
		Total # of Containers of Type	(***HNO3***) = **1**		

391700	DUP-01				
		H2SO4 PL	1	/	NO23
		Total # of Containers of Type	(***H2SO4 PL***) = **1**		

391700	DUP-01				
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(***VOA HCL***) = **3**		

Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**

391701	TRIP BLANK				
		Trip Blank	1	/	VOC
		Trip Blank	1	/	VOC
		Trip Blank	1	/	VOC
		TRIP BLANK	1	/	VOC
		Total # of Containers of Type	(***TRIP BLANK***) = **4**		

Condition Code	*Condition Description*
1	Sample Received OK

151602

Rev. 4/2010

CHAIN OF CUSTODY

Page 1 of 2

Company: TRC
Project Contact: Marita Stollenwerk
Telephone: (262) 901-2158
Project Name: Ripon WWFF Landfill
Project #: 378957.0001.0001
Location: Ripon, WI
Sampled By: T. Roelke

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder # 151602
Company: TRC ENVIRONMENTA
Project: RIPON SUPERFUND LF
Logged By: JLS PM BM

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO # 149832

Report To: Marita Stollenwerk
EMAIL: mstollenwerk@trcompanies.com
Company: TRC
Address: 150 N. Patrick Blvd Suite 180

Invoice To:* Marita Stollenwerk
EMAIL: SAME
Company: TRC
Address: SAME

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions Send report to:
- marita Stollenwerk@mstollenwerk@trcompanies.com

Matrix:
GW - groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

2/26/20 SAE

ANALYSES REQUESTED

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample ID Description	Filtered? Y/N	Total MN (6010C)	Nitrate + Nitrite (EPA 353.2)	VOC's (8260)	Sulfate (9056A)	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
2/26/20	9:58	GW	Grab	P-113A	N	X	X	X	X	6		391687
2/25/20	9:34			P-113B						6		391689
	12:22			P-114								391690
	13:18			P-115								391691
	11:25			P-116								391692
	15:33			P-117								391693
	16:17			P-118								391694
	16:57			P-111D								391695
	17:49			P-107D								391696
2/26/20	8:21			P-103D								391697
2/25/20	14:17			MW-3A								391698
2/25/20	14:55			MW-3B								391699

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
	2/26/20 1600		2/27/2020 1100
Received by:	Date/Time	Received for Laboratory by:	Date/Time
			2/27/2020 1133

Lab Use Only
Ice Present (Yes) No
Temperature 3.4, 2.9
Cooler # 6177, 6322

Rev. 4/2010

CHAIN OF CUSTODY

Page 2 of 2

Company: TRC
Project Contact: Marita Stollenwerk
Telephone: (262)901-2158
Project Name: Ripon MW/FF Landfill
Project #: 378957.0001.0001
Location: Ripon, WI
Sampled By: J. Roelke

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:
151602

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO # 149832

Report To: Marita Stollenwerk
EMAIL: mstollenwerk@trccompanies.com
Company: TRC
Address: 150 N. Patrick Blvd Suite 180 Brookfield, WI 53045
Invoice To:* ~~TR~~ Marita Stollenwerk
EMAIL: Same
Company: TRC
Address: Same

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
GW - groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

ANALYSES REQUESTED

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample ID Description	Filtered? Y/N	Total MN (6010C)	Nitrate+Nitrite (EPA 353.2)	VOCs (8260)	Sulfate (9056A)	Total # Containers	Designated MS/MSD
2/25/20	—	GW	Grab	DUP-01	N	X	X	X	X	6	
2/20/20	—	GW	Grab	Trip Blank	N			X		4	

Fill in Spaces with Bottles per Test

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

CT Lab ID # (Lab use only)
391700
391701

Relinquished By:	Date/Time	Received By:	Date/Time
	2/26/20 1600		2/27/2020 1100
Received by:	Date/Time	Received for Laboratory by:	Date/Time
			2/27/2020 1133

Lab Use Only
Ice Present (Yes) No
Temperature 3.4, 2.9
Cooler # 6177, 6322

CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.6.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (2) be labeled appropriately with a unique sample identification written with indelible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions or resampling. If analysis is possible, the final report will be qualified. CT Laboratories can provide a sampling guide containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are received with less than ½ the holding time remaining for the requested test, CT Laboratories will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be qualified. (5) contain adequate sample volume to perform the necessary testing. If sufficient volume is not present, the sample will be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resampling.

1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If resampling is necessary, CTL's liability for resampling costs will be limited to actual cost or one hundred or one hundred fifty dollars ($150) per sample, whichever is less.

4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or $100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.

5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.

5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of $2,000,000 per occurrence/ aggregate), Comprehensive Automobile Liability, owned and hired, ($1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of $5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices