2019 ANNUAL GROUNDWATER MONITORING SUMMARY REPORT

Town of Onalaska Landfill Superfund Site
Sportsman Club Road
Town of Onalaska, Wisconsin

Prepared for
Wisconsin Department of Natural Resources
1300 W Clairemont Avenue
Eau Claire, WI 54701

Project No. 1701119
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The OS Group LLC

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2019 ANNUAL GROUNDWATER MONITORING SUMMARY REPORT

PROJECT NO. 1701119

PREPARED BY:

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APPENDICES

1.0 INTRODUCTION

Coulee Environmental Solutions™, a division of The OS Group, LLC (CES) has completed annual groundwater monitoring activities for the Onalaska Municipal Landfill Superfund site located on Sportsman Club Road in the Town of Onalaska, La Crosse County, Wisconsin. The purpose of the activities was to conduct routine semi-annual groundwater sampling events at the site. The sampling events were completed in April and October 2019.

1.1 SITE LOCATION AND DESCRIPTION

The Town of Onalaska Landfill is located approximately 10 miles north of the City of La Crosse, in northwest La Crosse County, near the confluence of the Mississippi and Black Rivers. The site is located on the far northwestern corner of Brice Prairie and is accessible via Sportsman Club Road. The 11-acre site was a sand and gravel quarry in the early 1960s. After the quarry operations ceased in the mid-1960s, the Town of Onalaska began using it as a municipal landfill accepting both municipal trash and industrial wastes between 1969 and 1980. The landfill was closed in 1980.

The site is located in the SE ¼ of Section 9, Township 17N, R8W. A site location map is provided in Figure 1. A site plan view is provided in Figure 2.

2.0 FIELD ACTIVITIES

2.1 GROUNDWATER MONITORING

Groundwater samples were collected from select groundwater monitoring wells on April 22 – 25 and October 16, 2019, per the scope of work developed by the WDNR. Prior to collection of the samples, CES field personnel opened all shallow and mid-depth groundwater monitoring wells. After water levels were allowed to stabilize for more than one hour, CES field personnel measured depth to water level in each monitoring well. Monitoring wells to be sampled were then purged using the dedicated submersible pumps and tubing. During purging, CES field personnel measured field parameters (dissolved oxygen, ORP, specific conductance, temperature and pH) using a YSI 556 multi-meter with a flow-through cell. Purging was considered complete when the field parameters stabilized per WDNR's groundwater sampling desk reference guidance, typically requiring 30 to 60 minutes per well. Monitoring well purge water was discharged to the ground per the WDNR's scope of work. Once purging was complete, CES field personnel collected groundwater samples for the parameters listed in Appendix A. Samples for metals analysis were field filtered with 0.45-micron filter. Groundwater samples were preserved and stored on ice and shipped under chain of custody to Pace Analytical in Green Bay, WI for analyses. Copies of the laboratory analytical reports are provided in Appendix B.

2.2 POTABLE WELL SAMPLING

CES field personnel collected water samples from six (6) private potable wells (PW-1 through PW-6). While potable wells PW-1 through PW-4 had previously been sampled on an annual basis, PW-5 and PW-6 were added at the WDNR's request with the April sampling event representing the first samples collected from these potable wells. Both PW-5 and PW-6 are located east of the site at addresses W8529 and W 8509 County Road Z, respectively. The locations of PW-5 and PW-6 are depicted on Figure 1 – Site Location Map. Because of the arsenic and/or manganese concentrations detected in PW-5 and PW-6 during the April sampling event (as discussed further in Section 3 below), potables wells PW-5 and PW-6 were resampled on May 14, 2019 for arsenic and manganese analysis.

Samples from PW-2 through PW-6 were collected from an outside tap. The sample from PW-1 was collected from an inside tap located upstream of water treatment, such as a water softener. CES field personnel purged the six potable wells for a minimum of ten minutes prior to sampling, until temperature stabilized. Samples from the April 2019 sampling event were preserved and shipped on ice to Pace Analytical in Green Bay, WI for volatile organic compounds (VOCs) and metals analysis. Potable well samples for metals analysis from the potable wells were not field filtered. Samples from PW-5 and PW-6 collected in May 2019 were also preserved and shipped on ice to Pace Analytical in Green

Bay, WI for manganese and arsenic (unfiltered) analysis. Copies of the laboratory analytical reports are provided in Appendix B.

2.3 GROUNDWATER EXTRACTION AND AIR-INJECTION WELL ABANDONMENT

On October 8, 9, and 10, 2019, five (5) groundwater-extraction wells (EW-1 through EW-5) and twenty-nine(29) air-injection wells (AW-1 through AW-29) located at the Onalaska Landfill were abandoned by Bergerson-Caswell, Inc (Wisconsin Driller License #7444). Prior to abandonment of the extraction wells, the pumps and piping were removed from the wells and left adjacent to the former remediation building for the Town to dispose of. Well casings were cut off below grade. The wells were abandoned with a neat cement grout pumped into the well via a conductor pipe. The twenty-nine air injection wells were abandoned with a bentonite-sand slurry also pumped via a conductor pipe. The locations of the former extraction wells are provided in Figure 2. The locations of the form air-injection wells were provided by the WDNR in the Request For Proposal and are included as Appendix C.

3.0 RESULTS

3.1 WATER LEVELS AND FLOW DIRECTION

During the April 2019groundwater sampling event, groundwater was encountered at depths ranging from less than 0.5 feet to approximately 26 feet below ground surface. During the October sampling event, groundwater was encountered at depths ranging from approximately 2 to 28 feet below ground surface. Potentiometric surface maps were developed for both the shallow and mid-depth wells with shallow wells denoted with a "S" and "PZ" suffix and mid-depth wells denoted with a "M" suffix. During the April 2019 event, groundwater flow in the shallow wells was primarily to the south and to the south-southeast in the mid-depth wells. Groundwater flow during the October 2019 event was to the south-southwest in the shallow wells and to the south in the mid-depth wells. Potentiometric Surface Maps for both shallow and mid-depth wells for both events are provided in Figure 3 through 6.

3.2 GROUNDWATER RESULTS

During the April 2019 sampling event, all twenty-six (26) monitoring wells were sampled for metals, TOC, and alkalinity. Thirteen (13) of the twenty-six (26) monitoring wells were also analyzed for VOCs. During the October 2019 sampling event, five "shallow" monitoring wells (MW-4S, MW-5S, MW-17S, PZ-5 and PZ-6) were analyzed for VOCs, dissolved metals and TOC.

During all three sampling events, laboratory analytical results were similar to previous results with arsenic, iron, and manganese commonly detected at concentrations above the NR 140 enforcement standards (ES). Barium (MW-2M, MW-6M, MW-8M, MW-15M, MW-16M, and MW-17M) was occasionally detected at concentrations above the NR 140 preventive action limits (PAL). Lead, which had previously been detected above NR140 preventive action limits during 2018 sampling events in MW-8M, MW-10M, MW-11M, was not detected above the NR 140 PALs in 2019.

The most commonly detected VOCs above applicable standards included trimethylbenzenes (TMBs) and naphthalene. TMBs were detected above the NR 140 ES in MW-4S and MW-5s and above the NR 140 PALs in MW-17S. Naphthalene was detected above the NR 140 PAL in MW-5S, MW-14S, and MW-16S. Other VOC compounds detected above applicable standards include methylene chloride in MW-6M and benzene in MW-16M; both detected at concentrations above the PAL but below ES during the April 2019 sampling event.

3.3 APRIL AND MAY 2019 POTABLE WELL RESULTS

Laboratory analysis of the potable well samples detected iron and manganese in potable wells PW-1 through PW-5 and manganese in potable well PW-6. Iron was detected above the NR 140 enforcement standard in PW-1, PW-3, PW-4 and PW-5. Manganese was detected above the NR 140 enforcement standard in PW-5 (April and May sampling events) and in PW-6 (May sampling event) and above the preventive action limit in PW-1, PW-2, PW-3, PW-4 and PW-5 (April sampling event). In addition, arsenic was detected above the NR 140 enforcement standard in PW-6 during the April sampling; however no detection of arsenic was observed during the subsequent May sampling event.

Chloromethane was detected in the sample collected from PW-2 at a concentration above the NR 140 PAL. Other VOC compounds detected at concentrations below any appliable standards include acetone in PW-2, PW-3, PW-4 and PW-6 and carbon disulfide in PW-5.

4.0 SUMMARY AND CONCLUSIONS

A summary of the 2019 Groundwater Monitoring at the Town of Onalaska Superfund Site follows:

- Groundwater samples were collected from twenty-six (26) shallow and mid-depth monitoring wells during the April 2019 sampling event and analyzed for metals, TOC and alkalinity. In addition, 13 of the samples were analyzed for VOCs.

- Groundwater samples were collected from five shallow monitoring wells (MW-4S, MW-5S, MW-17S, PZ-5 and PZ-6) in October 2019 for VOC, dissolved metals, and TOC analysis.

- Potable water samples were collected from six (6) potable wells (PW-1 through PW-6) during the April 2019 sampling event and submitted for VOC and metals analysis. Because of detections of arsenic and manganese, a second sample for arsenic and manganese analysis was collected from potable wells PW-5 and PW-6 in May 2019.

- The depth to water was measured in all shallow and mid-depth monitoring wells prior to sampling during both 2019 events. Groundwater elevations were calculated, and flow maps were developed. The flow maps indicated the groundwater flow direction was primarily to the south and south-southeast in the shallow wells and to the south-southwest and south in the mid-depth wells during the April and October events, respectively.

- Arsenic, iron and manganese were detected in wells at concentrations above the NR 140 enforcement standards during all three sampling events. Barium was detected in six (6) mid-depth wells at concentrations above the PAL during the April sampling event. Lead, which was previously detected during 2018 sampling events in three (3) wells above the PAL, was not detected at concentrations above the PAL during 2019 sampling events.

- 1,2,4-trimethylbenzene was detected at concentrations above the NR 140 ES in MW-4S and MW-5S and above the PAL in MW-17S and PZ-5. Naphthalene was detected above the NR 140 PAL in wells MW-5S, MW-14S, and MW-16M.

- Chloromethane was detected in potable well PW-2 above the NR 140 PAL. Other VOC compounds detected in the wells at concentrations below applicable standards included acetone (PW-2, PW-3, PW-4 and PW-6) and carbon disulfide (PW-5).

- Iron was detected above the ES in potable wells PW-1, PW-3, PW-4 and PW-5 and above the PAL in PW-2. Manganese was detected above the ES in PW-5 (April and May) and PW-6 (May) and above the PAL in potable wells PW-1 through PW-4.
- Arsenic was detected above the ES in potable well PW-6 during the April 2019 sampling event but was below detection limits (<0.0083 mg/L) during the May 2019 sampling event.

5.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

This document has been prepared by and under the supervision of the environmental professionals certifying below:

PREPARED BY:

I, Steven Osesek, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is orrect and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Name: Steven Osesek Date:_____
Title: Project Manager
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SUPERVISED BY:

I, John Storlie, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in Chs. NR 700 to 726, Wis. Adm. Code.

`

Name: John Storlie, PG Date:_____
Title: Principal Consultant / Hydrogeologist
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TABLES

Table 1
1SR
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/15/2009	4/28/2010	4/18/2012	5/17/2013	4/29/2014	10/15/2015	4/22/2016	4/18/2017	4/26/2018	4/22/2019	PAL	ES
Metals, mg/L												
Arsenic	0.00027	<0.00061	0.00025	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	<0.0054	<0.0054	0.001	0.01
Barium	0.033	0.033	0.037	0.0263	0.0316	0.0664	0.0273	0.0215	0.0251	0.0211	0.4	2
Cadmium	<0.00012	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	34.3	26.1	----	----	----	----	----	----	----
Cobalt	0.00024	<0.00061	0.021	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.15	0.28	0.250	0.0149	0.0279	0.141	<0.0129	<0.0155	**0.42**	**0.307**	0.15	0.3
Lead	0.00029	<0.00061	**0.029**	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	12.8	9.43	----	----	----	----	----	----	----
Manganese	0.19	0.049	**0.600**	0.187	0.269	**0.320**	0.042	0.0553	**0.325**	0.264	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000070	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.00017	0.0002	0.002
Potassium	----	----	----	2.04	1.59	----	----	----	----	----	----	----
Sodium	----	----	----	3.75	3.92	----	----	----	----	----	----	----
Vanadium	0.00054	<0.00061	0.00060	<0.0012	<0.0020	<0.0020	<0.0020	<0.0022	<0.0022	<00022	0.006	0.03
Dissolved Gases, ug/L												
Ethane	----	----	<0.49	----	----	----	----	----	----	----	----	----
Ethene	----	----	0.64	----	----	----	----	----	----	----	----	----
Methane	----	----	2.8	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L												
Chloride	5.8	3.6	8.9	7.2	6.9	----	----	----	----	----	125	250
Nitrate as N	----	----	<0.043	----	----	----	----	----	----	----	2	10
Sulfate	----	----	6.3	6.2	14.2	----	----	----	----	----	125	250
Total Alkalinity	140	170	110	113	101	160	114	101	93.1	90.1	----	----
Total Organic Carbon	----	----	4.8	----	----	----	----	----	3.6	4.4	----	----
pH	6.99	7.1	7.86	6.73	7.84	6.92	7.53	7.02	6.36	7.22	----	----
Conductivity (mS/cm)	219	340	320	0.174	0.163	0.299	0.196	0.181	0.187	0.145	----	----
Temperature (C)	6.9	8.2	12.3	9.85	7.22	11.37	9.06	9.41	8.45	7.8	----	----
ORP (mV)	+17	+15	39.7	65.6	48.4	16.4	70.2	80.9	20.4	-41.2	----	----
Dissolved Oxygen (mg/L)	2.0	3.0	4.5	4.62	12.45	1.16	3.28	3.64	1.07	1.75	----	----

Note: Please see notes provided at the end of this table.

Table 1
2S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/19/2012	5/16/2013	4/29/2014	10/15/2015	4/27/2016	4/21/2017	4/26/2018	4/25/2019	4/25/19 Duplicate	PAL	ES
1,2,4-Trimethylbenzene	<0.22	<0.57	<0.50	1.6	1.4	0.5	----	----	----	96	480
1,3-Dichlorobenzene	0.53	<0.45	<0.50	1.8	1.4	<0.50	----	----	----	120	600
1,4-Dichlorobenzene	2.2	2.5	1.4	2.9	2.4	1.3	----	----	----	15	75
Acetone	----	4.6	<3.0	<3.0	<3.0	<3	----	----	----	1800	9000
Benzene	0.94	0.67	<0.50	1.8	1.5	<0.50	----	----	----	0.5	5
Chlorobenzene	18	8.7	3.2	68.9	59.6	3.4	----	----	----	----	----
Isopropylbenzene	----	----	<0.12	0.40	0.43	<0.14	----	----	----	-----	-----
Methylene chloride	<0.63	<0.36	<0.23	<0.23	<0.23	0.33J	----	----	----	0.5	5
n-Propylbenzene	----	----	<0.50	0.55	<0.50	<0.50	----	----	----	-----	-----
Xylenes (total)	0.39	<1.3	<1.5	<1.5	1.7	<1.5	----	----	----	400	2,000
Metals, mg/L											
Arsenic	0.0097	0.0095	**0.013**	0.0080	0.0083	**0.0141J**	**0.0119J**	<0.0054	**0.0276**	0.001	0.01
Barium	0.140	0.152	0.109	0.135	0.161	0.0842	0.0865	0.0699	0.0726	0.4	2
Cadmium	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	32.1	32.5	----	----	----	----	----	----	----	----
Cobalt	0.00086	<0.00085	<0.00094	<0.00094	0.00097	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	**35**	**37.1**	**33.2**	**27.1**	**32.8**	**29.3**	**22.6**	**19.3**	**19.6**	0.15	0.3
Lead	0.00055	<0.0012	<0.0030	<0.0030	0.0036	<0.0043	<0.0043	<0.0064	<0.0064	0.0015	0.015
Magnesium	----	7.71	8.35	----	----	----	----	----	----	----	----
Manganese	**0.990**	**0.999**	**1.02**	**0.799**	**0.787**	**0.904**	**0.617**	**0.568**	**0.593**	0.060	0.300
Mercury	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.00017	<0.000084	0.0002	0.002
Potassium	----	9.89	5.44	----	----	----	----	----	----	----	----
Sodium	----	25	16.1	----	----	----	----	----	----	----	----
Vanadium	0.00087	0.002	<0.0020	0.0029	<0.0020	<0.0022	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	32	15.2	19.9	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	2.4	<2.0	----	----	----	----	----	----	125	250
Total Alkalinity	180	169	159	233	218	151	102	120	----	----	----
Total Organic Carbon	----	----	----	----	----	----	3.8	4.4	----	----	----
pH	7.34	6.52	9.32	6.46	6.90	6.62	6.29	6.67	6.67	----	----
Conductivity (mS/cm)	440	0.372	0.376	0.481	0.457	0.342	0.307	0.272	0.272	----	----
Temperature (C)	10.1	11.43	10.86	10.14	10.90	10.62	11.12	10.64	10.64	----	----
ORP (mV)	-57.6	-49.8	-554.3	-47.3	-68.7	-74.0	-52.5	-110.1	-110.1	----	----
Dissolved Oxygen (mg/L)	2.0	1.1	0.60	0.34	0.47	0.79	0.15	0.37	0.37	----	----

Note: Please see notes provided at the end of this table.

Table 1
2M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/28/2010	4/19/2012	5/16/2013	4/29/2014	10/15/2015	4/27/2016	4/21/2017	4/26/2018	4/25/2019	PAL	ES
Metals, mg/L											
Arsenic	----	0.0068	**0.0235**	**0.0285**	**0.017**	**0.0204**	**0.0233J**	**0.0245**	**0.0232**	0.001	0.01
Barium	----	0.240	0.795	0.646	0.519	0.453	0.501	0.472	0.688	0.4	2
Cadmium	----	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	61.4	48.2	----	----	----	----	----	----	----
Cobalt	----	0.00038	0.0015	0.0014	0.001	0.001	<0.0014	<0.0014	0.0018	0.008	0.04
Iron	----	0.100	**18.2**	**13.4**	**10.3**	**9.94**	**9.56**	**9.15**	**13.7**	0.15	0.3
Lead	----	0.00036	<0.0012	<0.0030	0.0034	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	13.6	10.7	----	----	----	----	----	----	----
Manganese	----	0.210	**1.25**	**1.02**	**0.864**	**0.787**	**0.836**	**0.822**	**1.21**	0.060	0.300
Mercury	----	<0.000070	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.00017	0.0002	0.002
Potassium	----	----	1.05	0.869	----	----	----	----	----	----	----
Sodium	----	----	8.4	11.3	----	----	----	----	----	----	----
Vanadium	----	<0.00034	0.0024	<0.0020	0.0028	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	----	6.5	30.1	32.3	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	<2.0	<2.0	----	----	----	----	----	125	250
Total Alkalinity	----	130	155	151	133	125	129	116	172	----	----
Total Organic Carbon	----	----	----	----	----	----	----	4.7	3.6	----	----
pH	----	7.66	7.32	8.45	7.27	7.72	7.47	7.12	7.36	----	----
Conductivity (mS/cm)	----	220	0.335	0.340	0.253	0.212	0.247	0.248	0.311	----	----
Temperature (C)	----	9.6	10.77	10.57	10.22	10.59	10.19	10.66	10.38	----	----
ORP (mV)	----	-3.8	-142.2	-384.2	-122.0	-16.2	-166.6	-147.2	-196.4	----	----
Dissolved Oxygen (mg/L)	----	4.4	0.86	0.53	0.54	0.32	0.83	0.11	0.09	----	----

Note: Please see notes provided at the end of this table.

Table 1
4S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	10/8/2008	4/14/2009	10/28/2009	4/28/2010	10/28/2010	10/27/2011	4/18/2012	5/17/2013	10/29/2013	4/28/2014
1,2,4-Trimethylbenzene	**910**	**470**	**780**	**480**	**800**	280	89	**511**	**707**	295
1,3,5-Trimethylbenzene	**220**	**65**	**28**	**18**	**49**	<1.0	<0.23	**18.5**	**6.9**	4.6
n-Butylbenzene	16	10	<0.20	7.7	32	5.6	<0.21	----	6.3	4.7
sec-Butylbenzene	27	20	32	20	18	14	5.7	----	21.7	14.5
Chloroethane	<1.0	<10	<1.0	<8.0	<10	<5.0	<0.33	<0.44		
tert-Butylbenzene	<0.20	----	----	2.7	<2.0	1.7	<0.24	---	2.2	1.6 J
Ethylbenzene	18	<5.0	6.5	<4.0	5.8	<2.5	<0.14	1.1	7.2	<1.2
Isopropylbenzene	27	11	21	9.3	9.8	7.1	1.5	----	19.4	7.2
p-Isopropyltoluene	32	24	31	19	57	8.9	3.0	----	10.7	8.6
Naphthalene	33	8.2	11	4.1	49	3.3	<0.24	4.5	18.2	<6.2
n-Propylbenzene	60	24	45	20	30	14	3.6	----	31.1	14.5
Xylenes (total)	91	12	24	8.0	13	5.6	0.91	5.2	14.0	<3.8
Metals, mg/L										
Arsenic	0.0076	0.005	0.0068	0.0058	0.0039	0.0037	0.0032	<0.0044	0.0071	<0.0072
Barium	0.300	0.270	0.240	0.27	0.24	0.21	0.170	0.261	0.274	0.214
Cadmium	<0.00012	<0.00012	<0.00061	<0.00061	<0.00012	<0.00012	<0.00010	0.00059	<0.00038	<0.00060
Cobalt	0.00044	0.0005	<0.00061	<0.00061	<0.00061	<0.00016	0.00019	<0.00085	<0.00085	<0.00094
Iron	**11**	**11**	**12**	**9.2**	**8.0**	**7.0**	**5.3**	**7.98**	**10**	**6.82**
Lead	<0.00012	0.00035	<0.00061	<0.00061	<0.00061	0.00013	0.00025	<0.0012	<0.0012	<0.0030
Manganese	**2.1**	0.011	**1**	**1.3**	**1.3**	**1.2**	**1.1**	**1.2**	**0.949**	**0.778**
Mercury	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070	<0.00070	<0.00010	<0.00010	<0.00010
Vanadium	0.0016	0.00055	0.0007	<0.00061	<0.00061	<0.00066	0.00044	0.0022	<0.0012	<0.0020
Dissolved Gases, ug/L										
Ethane	----	----	-----	-----	-----	-----	-----	----	----	----
Ethene	----	----	-----	-----	-----	-----	-----	----	----	----
Methane	----	----	-----	-----	-----	-----	-----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	----	16	-----	9.5	-----	-----	7.4	6.1	-----	15.6
Nitrate as N	----	----	-----	-----	-----	-----	-----	----	-----	----
Sulfate	----	----	-----	-----	-----	-----	-----	4.4	-----	3.6
Total Alkalinity	----	270	-----	290	-----	-----	390	290	-----	271
Total Organic Carbon	----	----	-----	-----	-----	-----	-----	----	-----	----
pH	6.79	6.81	6.98	6.6	7.37	7.8	7.30	6.69	6.96	7.15
Conductivity (mS/cm)	925	880	505	730	562	670	630	0.431	0.446	0.431
Temperature (C)	10.1	7.8	11.7	9.5	-10.0	9.6	12.6	9.58	11.61	9.64
ORP (mV)	-13	-13	-55	-15	-292.6	-113	-22.4	-66.4	-48.7	-127
Dissolved Oxygen (mg/L)	1.5	1.0	2.0	2.5	0.0	0.0	5.0	1.3	0.71	1.00

Note: Please see notes provided at the end of this table.

Table 1
4S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	Duplicate 4/28/2014	10/28/2014	10/13/2015	Duplicate 10/13/2015	4/27/2016	Duplicate 4/27/2016	10/3/2016	4/19/2017	1/9/2018	4/26/2018
1,2,4-Trimethylbenzene	296	261	401	341	**976**	**871**	**1,650**	**913**	271	**584**
1,3,5-Trimethylbenzene	4.1	2.5	<1.2	<1.2	**<5.0**	**<5.0**	**195**	**<5**	<0.50	**<0.50**
n-Butylbenzene	5.2	6.3	6.1	5.5	<5.0	<5.0	16.7	9.4J	5.7	6.4
sec-Butylbenzene	16.0	23.4	21.1	19.3	30.8	30.2	40.9	22.8J	17.7	20.0
Chloroethane									0.69J	0.84J
tert-Butylbenzene	1.8 J	3.0	2.4	2.2	4.2	3.2	4.7	2.2J	2.0	2.6
Ethylbenzene	<2.5	<1.2	<1.2	<1.2	<5.0	<5.0	<5.0	<5.0	<0.5	0.95J
Isopropylbenzene	7.7	12.7	10.7	9.8	17.5	16.5	23.6	13.5	7.6	18.4
p-Isopropyltoluene	9.9	11.2	12.0	11.5	25.5	25.2	32.5	17.9	9.9	11.9
Naphthalene	<12.5	<6.2	<6.2	<6.2	<25.0	<25.0	<25.0	<25	<2.5	7.0
n-Propylbenzene	15.8	15.4	18.4	17.4	43.2	39.4	<5.0	38	13.8	31.6
Xylenes (total)	<7.5	<3.8	<3.8	<3.8	<15.0	<15.0	19.9	<15	2.1J	7.5
Metals, mg/L										
Arsenic	-----	<0.0072	<0.0072	-----	<0.0072	-----	**0.0118**	<0.0054	0.0094	**0.0109J**
Barium	-----	0.223	0.223	-----	0.251	-----	0.314	0.333	0.266	0.293
Cadmium	-----	<0.00060	<0.00060	-----	<0.00060	-----	<0.00060	<0.0013	<0.0013	<0.0013
Cobalt	-----	<0.00094	<0.00094	-----	<0.00094	-----	<0.00094	<0.0014	<0.0014	<0.0014
Iron	-----	**7.86**	**7.05**	-----	**9.83**	-----	**13.4**	**14.5**	**9.64**	**11.9**
Lead	-----	<0.0030	<0.0030	-----	<0.0030	-----	<0.0030	<0.0043	0.0046	<0.0043
Manganese	-----	**0.876**	**0.730**	-----	**0.96**	-----	**0.934**	**1.12**	**0.801**	**0.868**
Mercury	-----	<0.00010	<0.00010	-----	<0.00018	-----	<0.00013	<0.00013	<0.00013	<0.00013
Vanadium	-----	<0.0020	0.0026	-----	<0.0020	-----	<0.0020	<0.0022	<0.0022	<0.0022
Dissolved Gases, ug/L										
Ethane	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ethene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Methane	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Natural Attenuation Parameters, mg/L										
Chloride	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nitrate as N	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Sulfate	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Alkalinity	-----	-----	165	-----	271	-----	243	263	149	250
Total Organic Carbon	-----	-----	-----	-----	-----	-----	-----	-----	1.8	2.5
pH	-----	6.90	7.01	-----	7.31	-----	6.49	6.89	4.79	6.75
Conductivity (mS/cm)	-----	0.406	0.374	-----	0.398	-----	0.395	0.41	0.308	0.46
Temperature (C)	-----	11.13	10.64	-----	9.79	-----	11.97	9.86	11.62	10.03
ORP (mV)	-----	-55.3	-74.7	-----	-86.9	-----	-73.4	-87.5	-65	-83.9
Dissolved Oxygen (mg/L)	-----	0.17	0.54	-----	0.37	-----	0.09	0.88	0.16	0.24

Note: Please see notes provided at the end of this table.

Table 1
4S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/26/18 DUP	10/24/2018	4/24/2019	4/24/19 Duplicate	10/16/2019	PAL	ES
1,2,4-Trimethylbenzene	**504**	446	174	-----	**878**	96	480
1,3,5-Trimethylbenzene	**<5.0**	<8.7	<0.87	-----	**<8.7**	96	480
n-Butylbenzene	5.2J	<7.1	4.1	-----	<7.1	-----	-----
sec-Butylbenzene	<21.9	19.6J	12.3	-----	29.9J	-----	-----
Chloroethane	<3.7	<13.4	<1.3	-----	<13.4	3	30
tert-Butylbenzene	2.1J	<3.0	1.4	-----	<3.0	-----	-----
Ethylbenzene	<5.0	<2.2	<0.22	-----	<2.2	140	700
Isopropylbenzene	14.8	11.6J	4.7J	-----	22.0J	-----	-----
p-Isopropyltoluene	8.9J	10.4J	5.8	-----	17.3J	-----	-----
Naphthalene	<25.0	<11.8	<1.2	-----	<11.8	10	100
n-Propylbenzene	26.1	20.2J	8.6	-----	39.8J	-----	-----
Xylenes (total)	<15.0	<15.0	<1.5	-----	<15.0	400	2,000
Metals, mg/L							
Arsenic	0.0069J	**0.0114J**	**0.0097**	**0.0121J**	.0097J	0.001	0.01
Barium	0.297	0.296	0.225	0.23	0.313	0.4	2
Cadmium	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Cobalt	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	**11.9**	**10.0**	**9.75**	**9.55**	**15.0**	0.15	0.3
Lead	<0.0043	<0.0064	<0.0064	0.0075J	<0.0059	0.0015	0.015
Manganese	**0.892**	**0.754**	**0.641**	**0.642**	**0.897**	0.060	0.300
Mercury	<0.00013	<0.000084	0.00017J	<0.000084	<0.000084	0.0002	0.002
Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0026	0.006	0.03
Dissolved Gases, ug/L							
Ethane	-----	-----	-----	-----	-----	----	----
Ethene	-----	-----	-----	-----	-----	----	----
Methane	-----	-----	-----	-----	-----	----	----
Natural Attenuation Parameters, mg/L							
Chloride	-----	-----	-----	-----	-----	125	250
Nitrate as N	-----	-----	-----	-----	-----	2	10
Sulfate	-----	-----	-----	-----	-----	125	250
Total Alkalinity	249	-----	206	208	-----	----	----
Total Organic Carbon	2.7	2.0	2.2	2.2	2.2	----	----
pH	6.75	6.94	7.00	7.00	6.93	----	----
Conductivity (mS/cm)	0.46	0.499	0.335	0.335	0.59	----	----
Temperature (C)	10.03	10.28	9.58	9.58	9.28	----	----
ORP (mV)	-83.9	-150	-131	-131	-120.8	----	----
Dissolved Oxygen (mg/L)	0.24	0.19	0.21	0.21	1.6	----	----

Note: Please see notes provided at the end of this table.

Table 1
5S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	10/8/2008	4/14/2009	10/28/2009	4/28/2010	10/28/2010	10/27/2011	Duplicate 10/27/2011	4/18/2012	Duplicate 4/18/2012	5/15/2013
1,2,4-Trimethylbenzene	**1700**	460	**1100**	430	**1400**	340	**710**	**570**	330	**1,120**
1,3,5-Trimethylbenzene	**290**	16	**19**	1.6	**21**	11	**39**	**<0.46**	<0.23	**<2.5**
n-Butylbenzene	11	<3.2	9.7	1.7	6.6	3.6	5.5	<0.42	<0.21	-----
sec-Butylbenzene	20	10	19	7.9	16	9.3	12	7.1	6.7	-----
tert-Butylbenzene	<0.20	9.1	<0.20	7.3	19	9.9	12	<0.48	<0.24	-----
Acetone	----	----	----	----	----	----	----	----	----	3.7
Ethylbenzene	39	<8.0	10	<2.5	22	<2.0	<5.0	<0.28	<0.14	<0.50
Isopropylbenzene	60	25	70	30	57	30	34	18	16	---
p-Isopropyltoluene	16	<3.2	12	2.8	8.6	3.5	6.2	2.9	2.1	---
Naphthalene	41	24	38	23	46	19	33	21	21	38.1
n-Propylbenzene	94	38	110	43	79	32	48	25	22	----
Toluene	0.54	<8.0	<0.50	<2.5	<4.0	<2.0	<5.0	<0.30	0.24	<0.44
Xylenes (total)	180	<8.0	33	8.5	40	30	56	5.9	4.9	7.1
Metals, mg/L										
Arsenic	0.009	**0.011**	0.008	**0.015**	**0.015**	**0.014**	----	0.0098	----	**0.016**
Barium	0.30	0.29	0.20	0.28	0.45	0.25	----	0.180	----	0.296
Cadmium	<0.00012	<0.00012	<0.00061	<0.00061	0.00012	<0.00012	----	<0.00010	----	0.00055
Cobalt	0.0038	0.0048	0.0048	0.0051	0.0062	0.0041	----	0.0034	----	0.0049
Iron	**21**	**17**	**15**	**23**	**32**	**17**	----	**14**	----	**26.1**
Lead	0.00028	<0.00012	<0.00061	<0.00061	<0.00061	0.00025	----	<0.00016	----	<0.0012
Manganese	**2.0**	**1.9**	**1.7**	**2.0**	**2.2**	**1.9**	----	**1.4**	----	**1.84**
Mercury	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070	----	<0.000070	----	<0.00010
Vanadium	<0.00012	0.00028	<0.00061	<0.00061	<0.00061	<0.00066	----	<0.00034	----	0.0021
Dissolved Gases, ug/L										
Ethane	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	----	6.6	----	13	----	----	----	5.4	----	8.0
Nitrate as N	----	----	----	----	----	----	----	----	----	---
Sulfate	----	----	----	----	----	----	----	----	----	2.8
Total Alkalinity	----	270	----	260	----	----	----	140	----	225
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----
pH	6.10	5.93	6.89	6.8	7.29	7.59	----	7.38	----	6.63
Conductivity (mS/cm)	530	610	407	380	1016	470	----	320	----	0.369
Temperature (C)	9.3	6.3	11.5	10.1	-12.7	10.4	----	14.9	----	9.4
ORP (mV)	+30	+29	-42	+40	109.2	132	----	57.7	----	-65.6
Dissolved Oxygen (mg/L)	1.0	1.5	2.0	2.0	1.95	2.5	----	3.0	----	1.88

Note: Please see notes provided at the end of this table.

Table 1
5S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	Duplicate 5/15/13	10/29/2013	Duplicate 10/29/13	4/28/2014	Duplicate 4/28/2014	10/28/2014	10/13/2015	Duplicate 10/13/2015	4/25/2016	Duplicate 4/25/2016	10/3/2016
1,2,4-Trimethylbenzene	**1,060**	**1,510**	**1,380**	**922**	**1,340**	**1,560**	**1,510**	**1,860**	**1,120**	**1,060**	**1,220**
1,3,5-Trimethylbenzene	**<2.5**	**9**	**7**	**<10.0**	**<5.0**	**<10.0**	**<10.0**	**<5.0**	**<5.0**	**<2.5**	**<5.0**
n-Butylbenzene	-----	5.2	5.3	8.0	13.0	13.2	10.4	11.5	<5.0	<2.5	10.1
sec-Butylbenzene	-----	9.1	9.9	<43.7	<21.9	<43.7	<43.7	<21.9	<21.9	13.7	<21.9
tert-Butylbenzene	-----	11.4	12.1	13.4	14.9	22.6	17.1	18.6	17.2	16.9	16.9
Acetone	4.0	<25.9	<25.9	<59.1	<29.5	<59.1	<59.1	<29.5	<29.5	<14.8	<29.5
Ethylbenzene	<0.50	<5.0	<5.0	<10.0	<5.0	<10.0	<10.0	<5.0	<5.0	<2.5	<5.0
Isopropylbenzene	---	34.5	33.5	39.0	42.1	69.6	54.9	60.8	42.8	42.7	35.8
p-Isopropyltoluene	---	10.4	9.7	5.8	7.7	14.7	12.0	16.3	8.8	8.1	7.8
Naphthalene	35.2	25.4	<25.0	<50.0	38.8	52.0	<50.0	58.5	<25.0	21.6	29.1
n-Propylbenzene	----	78.0	73.6	64.5	73.9	101	114	118	73.1	70.9	74
Toluene	<0.44	<4.4	<4.4	<10.0	<5.0	<10.0	<10.0	<5.0	<5.0	<2.5	<5.0
Xylenes (total)	6.8	15.1	13.7	<30.0	<15.0	56.9	51.1	58.5	20.1	20.1	20.8
Metals, mg/L											
Arsenic	----	**0.0111**	----	**0.0154**	----	**0.0104**	**0.0109**	----	**0.0117**	----	**0.0201**
Barium	----	0.271	----	0.254	----	0.269	0.240	----	0.191	----	0.207
Cadmium	----	<0.00038	----	<0.00060	----	<0.00060	<0.00060	----	<0.00060	----	<0.00060
Cobalt	----	0.0065	----	0.0049	----	0.0047	0.0033	----	0.0030	----	0.0031
Iron	----	**12.2**	----	**19.6**	----	**21.7**	**17.3**	----	**16.0**	----	**15.8**
Lead	----	0.0015	----	<0.0030	----	<0.0030	<0.0030	----	<0.0030	----	<0.0030
Manganese	----	**1.09**	----	**1.46**	----	**1.48**	**1.42**	----	**1.24**	----	**1.07**
Mercury	----	<0.00010	----	<0.00010	----	<0.00010	<0.00010	----	<0.00018	----	<0.00013
Vanadium	----	<0.0012	----	<0.0020	----	<0.0020	0.0044	----	<0.0020	----	<0.0020
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	----	----	----	11.1	----	----	----	----	----	----	----
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----
Sulfate	----	----	----	2.6	----	----	----	----	----	----	----
Total Alkalinity	----	----	----	246	----	----	238	----	180	----	184
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	----
pH	----	6.72	----	6.78	----	6.14	6.72	----	7.11	----	6.66
Conductivity (mS/cm)	----	0.469	----	0.407	----	0.420	0.412	----	0.305	----	0.336
Temperature (C)	----	12.52	----	9.21	----	11.42	11.11	----	9.53	----	12.61
ORP (mV)	----	-25.5	----	-84.1	----	-54.0	-75.0	----	-93.1	----	-80.1
Dissolved Oxygen (mg/L)	----	0.82	----	1.65	----	0.30	0.83	----	0.68	----	0.11

Note: Please see notes provided at the end of this table.

Table 1
5S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	Duplicate 10/3/2016	4/18/2017	Duplicate 4/18/2017	1/9/2018	4/25/2018	10/24/2018	10/24/18 DUP	4/24/2019	10/16/2019	PAL	ES
1,2,4-Trimethylbenzene	**1,210**	441	----	**1330**	**1020**	**760**	**1460**	**538**	**988**	96	480
1,3,5-Trimethylbenzene	**<2.5**	<5.0	----	**<5.0**	**<5.0**	**<8.7**	**<8.7**	**<8.7**	**<8.7**	96	480
n-Butylbenzene	10.5	<5.0	----	13.6	10.9	<7.1	<7.1	<7.1	<7.1	-----	-----
sec-Butylbenzene	14.6	<21.9	----	<21.9	<21.9	8.9J	17.0J	10.0J	16.1J	-----	-----
tert-Butylbenzene	18.3	5.9 J	----	19.3	22.6	12.7	10.1J	15.6	18.4	-----	-----
Acetone	<14.8	<29	<14.8	<29.5	<29.5	<27.4	<27.4	<27.4	<27.4	1800	9000
Ethylbenzene	<2.5	<5	<2.5	<5.0	<5.0	<2.2	<2.2	<2.2	<2.2	140	700
Isopropylbenzene	40.6	16.2	16.3	63.9	34.4	46.2J	10.5J	20.7J	37.1J	-----	-----
p-Isopropyltoluene	8.3	<5	3.3J	11.2	9.0J	<8.0	19.8J	9.1J	8.1J	-----	-----
Naphthalene	34	<25	<12.5	58	28.8J	25.2J	<11.8	13.3J	27.5J	10	100
n-Propylbenzene	80	22.6	23.3	104.0	55.2	60.4	22.9J	46.1J	63.9	-----	-----
Toluene	<2.5	<5	<2.5	<5.0	<5.0	<1.7	<1.7	2.2J	<1.7	160	800
Xylenes (total)	21.2	<15	<7.5	47.1	<15.0	<15.0	<15.0	<15.0	<15.0	400	2,000
Metals, mg/L											
Arsenic	----	**0.015J**	----	**0.0176**	**0.0139J**	0.0075J	0.0055J	**0.0115J**	**0.02J**	0.001	0.01
Barium	----	0.198	----	0.242	0.264	0.183	0.187	0.242	0.232	0.4	2
Cadmium	----	<0.0013	----	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Cobalt	----	0.0025J	----	0.003J	0.0033J	<0.0014	<0.0014	0.0029J	<0.0014	0.008	0.04
Iron	----	**15.3**	----	**18.6**	**21.7**	**14.8**	**11.1**	**19.6**	**19.6**	0.15	0.3
Lead	----	<0.0043	----	<0.0043	<0.0043	<0.0064	<0.0064	<0.0064	<0.0059	0.0015	0.015
Manganese	----	**1.04**	----	**1.28**	**1.39**	**1.08**	**1.32**	**1.18**	**1.14**	0.060	0.300
Mercury	----	<0.00013	----	<0.00013	<0.00013	<0.000084	<0.000084	0.00016J	<0.000084	0.0002	0.002
Vanadium	----	<0.0022	----	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0026	0.006	0.03
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	----	----	----	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	----	----	----	----	----	125	250
Total Alkalinity	----	195	----	207	241	----	----	250	----	----	----
Total Organic Carbon	----	----	----	5.3	6.3	5.2	1.6	5.7	4.4	----	----
pH	----	6.94	----	6.18	6.59	6.82	6.82	6.82	6.88	----	----
Conductivity (mS/cm)	----	323	----	0.285	0.433	0.400	0.400	0.352	0.533	----	----
Temperature (C)	----	9.59	----	12.12	9.76	11.4	11.4	8.95	10.00	----	----
ORP (mV)	----	-101.6	----	-59.1	-84.7	-124.7	-124.7	-107	-125.7	----	----
Dissolved Oxygen (mg/L)	----	0.89	----	0.13	0.47	0.18	0.18	0.53	1.40	----	----

Note: Please see notes provided at the end of this table.

Table 1
6S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/14/2009	4/28/2010	4/18/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	4/24/2018	4/22/2019	PAL	ES
1,2,4-Trimethylbenzene	6.4	<0.20	<0.22	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.84	96	480
Acetone	----	----	----	3.0	<3.0	6.3	<3.0	<3.0	<3.0	4.3J	1800	9000
sec-Butylbenzene	8.3	4.9	<0.19	----	<2.2	<2.2	3.7	4.5J	<2.2	4.2J	-----	-----
tert-Butylbenzene	15	14	1.9	----	5.3	1.0	7.3	9.0J	7.9	5.1	-----	----
Chloroethane	<1.0	<1.0	<0.33	<0.44	<0.37	1.2	<0.37	<0.37	<0.37	<1.3	80	400
cis-1,2-Dichloroethene	0.55	<0.50	<0.22	<0.42	0.27	0.41	0.4	<0.26	0.34J	<0.27	7	70
Isopropylbenzene	3.7	<0.20	<0.21	----	0.14	<0.14	1.5	0.23J	0.33J	3.0J	-----	-----
Metals, mg/L												
Arsenic	0.00091	0.001	0.00093	<0.0044	<0.0072	<0.0072	<0.0072	0.0056J	<0.0054	<0.0054	0.001	0.01
Barium	0.19	0.24	0.210	0.198	0.211	0.231	0.253	0.347	0.341	0.284	0.4	2
Cadmium	<0.00012	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	50.6	57.2	----	----	----	----	----	----	----
Cobalt	0.0011	0.0021	0.0017	0.0019	0.0022	0.0018	0.0027	0.0035J	0.0037J	0.0019J	0.008	0.04
Iron	0.21	**0.54**	0.150	0.188	0.200	0.166	0.213	**0.366**	0.294	0.162	0.15	0.3
Lead	<0.00012	0.0014	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	19.7	21.4	----	----	----	----	----	----	----
Manganese	**2.8**	**3.8**	**4.5**	**3.5**	**3.99**	**3.72**	**4.02**	**5.4**	**5.01**	**4.28**	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.00017J	0.0002	0.002
Potassium	----	----	----	2.09	2.08	----	----	----	----	----	----	----
Sodium	----	----	----	11.9	6.82	----	----	----	----	----	----	----
Vanadium	0.00031	<0.00061	0.00044	0.0047	<0.0040	0.0114	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L												
Ethane	----	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L												
Chloride	14	7.5	23	11.6	14.0	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	5.4	2.5	----	----	----	----	----	125	250
Total Alkalinity	290	300	260	186	244	223	248	327	283	270	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	3.1	4.0	----	----
pH	7.13	6.9	7.67	6.99	7.05	7.13	7.34	6.91	6.61	7.08	----	----
Conductivity (mS/cm)	579	490	420	0.275	0.364	0.391	0.385	0.452	0.557	0.342	----	----
Temperature (C)	7.4	8.4	11.7	7.42	8.41	9.81	8.70	8.50	9.30	7.44	----	----
ORP (mV)	+110	+110	97.1	2.7	-23.7	-10.2	-8.5	12.7	-1.8	-56.6	----	----
Dissolved Oxygen (mg/L)	2.0	2.5	4.0	0.3	0.65	0.22	0.22	0.70	0.37	0.70	----	----

Note: Please see notes provided at the end of this table.

Table 1
6M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/14/2009	10/28/2009	4/28/2010	10/28/2010	4/18/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	10/4/2016	4/20/2017	4/24/2018	4/23/2019	PAL	ES
Acetone	----	----	----	----	----	<2.6	<3.0	15.7	<3.0	<3.0	<3	<3.0	3.3J	1800	9000
sec-Butylbenzene	<0.25	<0.25	5.0	1.3	<0.19	----	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	1.3J	-----	-----
tert-Butylbenzene	<0.20	<0.20	5.8	2.3	<0.24	----	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	1.9	-----	-----
Chloroethane	----	----	1.2	1.1	<0.33	<0.44						<0.37	<1.3	80	400
Chloromethane	----	----	<0.30	<0.30	<0.24	<0.39	<0.50	0.65	<0.50	<0.50	<0.50	<0.5	3.2J	3	30
Isopropylbenzene	<0.20	<0.20	4.4	<0.20	<0.21	---	<0.12	<0.14	<0.14	<0.14	<0.14	<0.14	0.42J	-----	-----
Naphthalene	<0.25	0.34	<0.25	<0.25	<0.24	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.2	10	100
Vinyl chloride			<0.20	<0.20	**0.28**	<0.18						<0.18	<0.17	0.02	0.2
Metals, mg/L															
Arsenic	0.00086	0.0011	0.0017	0.0013	0.00080	<0.0044	<0.0072	<0.0072	<0.0072	0.0078	<0.0054	<0.0054	<0.0054	0.001	0.01
Barium	0.38	0.93	**2.3**	**2.2**	1.1	**2.28**	1.19	1.46	1.1	1.2	1.17	1.06	1.79	0.4	2
Cadmium	<0.00012	<0.00061	<0.00061	<0.00012	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----	----	80.8	48.7	----	----	----	----	----		-----	-----
Cobalt	0.00023	0.00085	0.003	0.0022	0.00020	0.0029	0.0018	0.0017	0.0014	0.0016	0.0019J	0.002J	0.0015J	0.008	0.04
Iron	<0.15	0.25	**0.58**	0.23	<0.037	0.0236	0.0131	<0.0129	<0.0129	<0.0129	<0.0155	0.0158J	0.0368J	0.15	0.3
Lead	0.00024	0.001	<0.00061	0.00072	0.00030	<0.0012	<0.0030	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	----	----	18.7	11.0	----	----	----	----	----	----	-----	-----
Manganese	0.008	**0.99**	**4**	**3.8**	0.160	**4.07**	**2.40**	**2.52**	**2.05**	**2.0**	**2.28**	**2.15**	**3.19**	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.00013	0.00016J	0.0002	0.002
Potassium	----	----	----	----	----	1.27	0.811	----	----	----	----	----	----	-----	-----
Sadium	----	----	----	----	----	9.48	5.96	----	----	----	----	----	----	-----	-----
Vanadium	0.00017	<0.00061	<0.00061	<0.00061	<0.00034	0.0051	<0.0020	0.0075	<0.0020	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L															
Ethane	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----
Ethene	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----
Methane	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----
Natural Attenuation Parameters, mg/L															
Chloride	8.2	----	27	----	15	29.5	19.3	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	----	2.3	2.7	----	----	----	----	----	----	125	250
Total Alkalinity	170	----	350	----	150	226	169	174	142	145	145	135	208	-----	-----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	----	2.8	2.7	-----	-----
pH	7.31	6.93	6.8	7.77	8.26	7.44	7.53	7.53	7.81	6.86	7.61	7.23	7.54	-----	-----
Conductivity (mS/cm)	551	460	570	476	290	0.39	0.291	0.314	0.234	0.244	0.239	0.271	0.316	-----	-----
Temperature (C)	8.8	11.1	8.1	-11.1	11.3	10.7	10.07	10.00	10.24	10.76	9.69	10.32	10.03	-----	-----
ORP (mV)	+175	-50	+81	-161.8	71.3	-12.4	-27.0	-23.9	-15.8	90.6	3.4	-18.6	-144.4	-----	-----
Dissolved Oxygen (mg/L)	4.0	4.0	2.0	0.5	3.0	0.3	0.57	0.33	0.11	0.06	0.72	0.14	0.40	-----	-----

Note: Please see notes provided at the end of this table.

Table 1
7M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/18/2012	6/14/2012	5/16/2013	4/29/2014	10/13/2015	4/25/2016	4/19/2017	4/23/2018	4/22/2019	PAL	ES
Vinyl chloride	**34**	<0.10	----	----	----	----	----	----	----	0.02	0.2
Metals, mg/L											
Arsenic	0.00260	----	0.0054	<0.0072	<0.0072	<0.0072	<0.0054	0.0087J	<0.0054	0.001	0.01
Barium	0.190	----	0.366	0.284	0.376	0.341	0.272	0.34	0.314	0.4	2
Cadmium	<0.00010	----	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	68.6	56.9	----	----	----	----	----	----	----
Cobalt	<0.00013	----	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	**0.450**	----	**2.36**	**1.86**	**2.18**	**2.16**	**1.7**	**2.39**	**2.2**	0.15	0.3
Lead	<0.00016	----	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	17.2	14.4	----	----	----	----	----	----	----
Manganese	0.260	----	**0.777**	**0.631**	**0.810**	**0.766**	**0.634**	**0.778**	**0.753**	0.060	0.300
Mercury	<0.000070	----	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.00014J	0.0002	0.002
Potassium	----	----	1.38	1.08	----	----	----	----	----	----	----
Sodium	----	----	5.82	4.05	----	----	----	----	----	----	----
Vanadium	<0.00034	----	<0.0012	<0.0020	0.0025	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L											
Ethane	<0.49	----	----	----	----	----	----	----	----	----	----
Ethene	0.66	----	----	----	----	----	----	----	----	----	----
Methane	3.6	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	2.0	----	5.0	7.8	----	----	----	----	----	125	250
Nitrate as N	2.7	----	----	----	----	----	----	----	----	2	10
Sulfate	2.0	----	7.4	8.0	----	----	----	----	----	125	250
Total Alkalinity	30	----	209	205	223	220	211	195	205	---	---
Total Organic Carbon	2.8	----	----	----	----	----	----	1.4	1.4	---	---
pH	8.33	----	7.16	7.82	7.64	7.85	7.69	7.38	7.69	---	---
Conductivity (mS/cm)	290	----	0.316	0.321	0.399	0.347	0.315	0.468	0.359	---	---
Temperature (C)	13.7	----	10.49	10.09	10.05	10.85	9.89	10.61	10.34	---	---
ORP (mV)	37.3	----	-122.4	-182.5	-129.3	-152.7	-135.1	-146.2	-182.2	---	---
Dissolved Oxygen (mg/L)	5.5	----	0.28	0.75	0.54	0.11	0.91	0.44	2.13	---	---

Note: Please see notes provided at the end of this table.

Table 1
8S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/14/2009	Duplicate 4/14/09	4/28/2010	Duplicate 4/28/10	4/18/2012	5/17/2013	4/28/2014	10/13/2015	4/25/2016	4/19/2017	4/23/2018	4/23/18 DUP	4/22/2019	PAL	ES
Acetone	----	----	----	----	----	<2.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	4.5J	1800	9000
sec-Butylbenzene	----	----	<0.25	0.66	<0.19	----					<2.2	<2.2	<0.85	----	----
tert-Butylbenzene	----	----	<0.20	0.24	<0.24	----	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.30	----	----
Metals, mg/L															
Arsenic	0.00036	----	<0.00061	----	0.00043	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	<0.0054	<0.0054	<0.0054	0.001	0.01
Barium	0.06	----	0.060	----	0.052	0.0271	0.0248	0.0374	0.0308	0.0259	0.0253	0.026	0.027	0.4	2
Cadmium	<0.00012	----	<0.00061	----	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----	----	40.9	47.6	----	----	----	----	----	----	----	----
Cobalt	0.00026	----	<0.00061	----	0.00033	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.15	----	**0.330**	----	<0.037	<0.0140	<0.0129	0.0216	<0.0129	<0.0155	<0.0155	<0.0155	<0.0354	0.15	0.3
Lead	<0.00012	----	<0.00061	----	<0.00016	<0.0012	<0.0030	0.0031	0.0032	<0.0043	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	----	----	16.5	19.1	----	----	----	----	----	----	----	----
Manganese	**0.61**	----	**0.570**	----	**0.900**	**0.330**	**0.335**	**0.530**	**0.358**	0.245	0.279	0.294	0.204	0.060	0.300
Mercury	<0.000065	----	<0.000065	----	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.00013	0.00015J	0.0002	0.002
Potassium	----	----	----	----	----	0.757	0.718	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	9.66	8.49	----	----	----	----	----	----	----	----
Vanadium	0.00055	----	0.00064	----	0.00061	<0.0012	<0.0020	0.0032	<0.0020	<0.0022	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L															
Ethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L															
Chloride	22	----	16	----	11	9.1	9.1	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	----	4.2	3.8	----	----	----	----	----	----	125	250
Total Alkalinity	240	----	220	----	200	156	215	236	219	213	176	177	223	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	1.3	1.4	1.5	----	----
pH	7.29	----	7.1	----	8.15	7.24	7.25	7.27	7.43	7.26	6.83	6.83	7.27	----	----
Conductivity (mS/cm)	493	----	410	----	350	0.223	0.309	0.385	0.321	0.322	0.360	0.360	0.325	----	----
Temperature (C)	7.5	----	8.6	----	13.6	8.85	8.23	12.18	9.07	8.78	9.02	9.02	8.2	----	----
ORP (mV)	+15	----	-3	----	-13.8	36	124.6	-23.0	39.9	41.0	78.3	78.3	-18.9	----	----
Dissolved Oxygen (mg/L)	5	----	4.0	----	5.5	7.1	8.26	2.50	3.88	6.04	4.28	4.28	5.82	----	----

Note: Please see notes provided at the end of this table.

Table 1
8M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/14/2009	10/28/2009	4/28/2010	10/28/2010	4/18/2012	5/17/2013	4/28/2014	10/13/2015	4/26/2016	4/19/2017	4/23/2018	4/22/2019	PAL	ES
1,2,4-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	<0.22	1.7	<0.50	234	<0.50	<0.50	<0.50	<0.84	96	480
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	<0.23	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.87	96	480
sec-Butylbenzene	<0.25	<0.25	0.43	1.3	<0.19	----	<2.2	20.7	<2.2	<2.2	<2.2	<0.85	----	----
tert-Butylbenzene	<0.20	<0.20	<0.20	0.34	<0.24	----	<0.18	2.6	0.57	<0.18	<0.18	<0.30	----	----
Chloroethane	<1.0	<1.0	<1.0	<1.0	<0.33	<0.44	<0.37	<0.37	<0.37	<0.37	0.38J	<0.37	<1.3	80	400
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.22	<0.42	<0.26	0.33	<0.26	0.31J	<0.26	<0.27	7	70
Isopropylbenzene	<0.20	<0.20	<0.20	<0.20	<0.21	----	<0.12	12.4	<0.14	<0.14	<0.14	<0.39	----	----
Trichloroethene	0.26	<0.20	<0.20	<0.20	<0.18	<0.43	<0.33	<0.33	<0.33	<0.33	<0.33	<0.26	0.5	5
n-Propylbenzene	----	----	----	----	----	----	----	4.2	<0.50	<0.50	<0.5	<0.81	----	----
Metals, mg/L														
Arsenic	0.0018	0.0023	0.0023	0.0021	0.0014	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	<0.0054	**0.0115J**	0.001	0.01
Barium	0.51	0.56	0.720	0.730	0.320	0.933	0.512	1.00	0.736	0.711	0.586	0.497	0.4	2
Cadmium	<0.00012	<0.00061	<0.00061	<0.00012	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----	----	91.4	49.5	----	----	----	----	----	----	----
Cobalt	0.00032	<0.00061	0.00067	<0.00061	0.00013	0.0011	<0.00094	0.0010	0.0012	0.0016J	<0.0014	<0.0014	0.008	0.04
Iron	<0.15	0.29	**0.430**	0.230	<0.037	**0.488**	0.246	**0.454**	**0.367**	**0.334**	0.247	0.172	0.15	0.3
Lead	<0.00012	<0.00061	<0.00061	<0.00061	<0.00016	0.0014	<0.0030	<0.0030	<0.0030	<0.0043	0.0065J	<0.0064	0.0015	0.015
Magnesium	----	----	----	----	----	25.5	14.0	----	----	----	----	----	----	----
Manganese	**0.48**	**1.6**	**2.8**	**3**	0.0089	**4.59**	**2.48**	**4.96**	**3.86**	**3.67**	**2.8**	**2.27**	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	----	----	1.88	1.23	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	9.18	6.94	----	----	----	----	----	----	----
Vanadium	0.00016	<0.00061	<0.00061	<0.00061	<0.00034	0.0055	<0.0020	0.0139	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L														
Ethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L														
Chloride	15	----	8.4	----	18	7.5	12.4	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	----	2.7	4.3	----	----	----	----	----	125	250
Total Alkalinity	280	----	270	----	250	309	192	339	263	236	152	153	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	2	2.3	----	----
pH	7.25	6.83	7.0	7.87	8.02	7.32	7.48	7.33	7.55	7.37	7.17	7.58	----	----
Conductivity (mS/cm)	557	390	110	443	410	0.44	0.313	0.540	0.389	0.363	0.360	0.268	----	----
Temperature (C)	8.2	11.2	10.0	-10.9	12.7	10.8	10.67	10.09	10.43	10.04	10.67	10.27	----	----
ORP (mV)	-30	-37	-40	-134.4	-57.8	-62.5	-107.4	-51.9	-60.2	-50.1	-48.4	-98.2	----	----
Dissolved Oxygen (mg/L)	2.0	3.0	2.5	0.75	3.2	0.38	0.74	0.36	0.20	0.72	0.30	0.37	----	----

Note: Please see notes provided at the end of this table.

Table 1
9M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/18/2012	6/14/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	4/24/2018	4/23/2019	PAL	ES
Vinyl chloride	**0.66**	<0.10	----	----	----	----	----	----	----	0.02	0.2
Metals, mg/L											
Arsenic	0.0065	----	0.0061	<0.0072	<0.0072	<0.0072	0.0061J	0.0078J	<0.0054	0.001	0.01
Barium	0.050	----	0.193	0.174	0.162	0.157	0.161	0.172	0.161	0.4	2
Cadmium	<0.00010	----	0.00043	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	69.2	63.6	----	----	----	----	----	----	----
Cobalt	<0.00013	----	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.037	----	**2.84**	**2.56**	**2.12**	**2.35**	**2.3**	**2.53**	**2.33**	0.15	0.3
Lead	<0.00016	----	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	16.7	15.4	----	----	----	----	----	----	----
Manganese	0.0066	----	**1.02**	**0.911**	**0.879**	**0.866**	**0.881**	**0.914**	**0.866**	0.060	0.300
Mercury	<0.000070	----	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	1.56	1.28	----	----	----	----	----	----	----
Sodium	----	----	9.76	6.87	----	----	----	----	----	----	----
Vanadium	<0.00034	----	<0.0012	<0.0020	0.0030	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	---	---
Ethene	----	----	----	----	----	----	----	----	----	---	---
Methane	----	----	----	----	----	----	----	----	----	---	---
Natural Attenuation Parameters, mg/L											
Chloride	7.8	----	13.8	32.5	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	3.4	4.5	----	----	----	----	----	125	250
Total Alkalinity	150	----	213	202	206	199	194	184	184	---	---
Total Organic Carbon	----	----	----	----	----	----	----	2	2.3	---	---
pH	7.61	----	7.56	10.18	7.68	7.88	7.70	7.44	7.75	---	---
Conductivity (mS/cm)	290	----	0.34	0.382	0.342	0.322	0.337	0.411	0.321	---	---
Temperature (C)	14.3	----	10.75	10.42	10.19	10.51	10.1	10.69	10.40	---	---
ORP (mV)	51.6	----	-146.9	-596.0	-136.1	-152.5	-155.3	-152.3	-194.2	---	---
Dissolved Oxygen (mg/L)	7.0	----	0.35	0.63	0.44	0.37	0.73	0.18	0.27	---	---

Note: Please see notes provided at the end of this table.

Table 1
10M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/18/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	4/24/2018	4/23/2019	PAL	ES
Metals, mg/L										
Arsenic	0.00055	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	<0.0054	<0.0054	0.001	0.01
Barium	0.015	0.0624	0.0343	0.0442	0.0554	0.0588	0.0807	0.068	0.4	2
Cadmium	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	59.8	37.8	----	----	----	----	----	----	----
Cobalt	<0.00013	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.0015J	<0.0014	0.008	0.04
Iron	<0.037	<0.0140	<0.0129	<0.0129	<0.0129	<0.0155	<0.0155	<0.0354	0.15	0.3
Lead	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0044J	<0.0064	0.0015	0.015
Magnesium	----	24.6	15.4	----	----	----	----	----	----	----
Manganese	0.0016	**1.94**	**1.19**	**1.36**	**1.68**	**1.44**	**1.79**	**1.74**	0.060	0.300
Mercury	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	1.39	0.981	----	----	----	----	----	----	----
Sodium	----	4.03	2.76	----	----	----	----	----	----	----
Vanadium	0.00047	0.0027	<0.0020	0.0048	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L										
Chloride	7.4	19.1	9.7	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	2	10
Sulfate	----	3.4	5.2	----	----	----	----	----	125	250
Total Alkalinity	130	200	160	241	209	183	228	209	----	----
Total Organic Carbon	----	----	----	----	----	----	2.2	2.2	----	----
pH	7.66	7.42	8.86	7.63	7.74	7.53	7.30	7.52	----	----
Conductivity (mS/cm)	270	0.333	0.258	0.285	0.334	0.319	0.431	0.335	----	----
Temperature (C)	13.2	10.89	10.72	10.4	10.74	10.26	10.86	10.56	----	----
ORP (mV)	24.7	10.5	-444.4	-46.3	10.2	33.5	23.4	-95.8	----	----
Dissolved Oxygen (mg/L)	5.0	0.4	0.56	0.51	0.24	0.83	0.19	0.32	----	----

Note: Please see notes provided at the end of this table.

Table 1
11M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/18/2012	6/14/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	4/24/2018	4/24/2019	PAL	ES
Vinyl chloride	**0.31**	<0.10	----	----	----	----	----	----	----	0.02	0.2
Metals, mg/L											
Arsenic	0.00087	----	<0.0044	0.0078	<0.0072	<0.0072	0.0068J	0.0056J	<0.0054	0.001	0.01
Barium	0.078	----	0.223	0.170	0.181	0.182	0.204	0.226	0.226	0.4	2
Cadmium	<0.00010	----	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	78.4	61.1	----	----	----	----	----	---	---
Cobalt	<0.00013	----	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.037	----	**4.14**	**3.03**	**2.89**	**3.3**	**3.25**	**3.61**	**3.47**	0.15	0.3
Lead	<0.00016	----	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0045J	<0.0064	0.0015	0.015
Magnesium	----	----	16.8	13.0	----	----	----	----	----	---	---
Manganese	0.0023	----	**1.48**	**1.11**	**1.16**	**1.18**	**1.22**	**1.26**	**1.2**	0.060	0.300
Mercury	<0.000070	----	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	1.38	1.05	----	----	----	----	----	---	---
Sodium	----	----	3.79	2.84	----	----	----	----	----	---	---
Vanadium	<0.00034	----	<0.0012	<0.0020	0.0028	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	---	---
Ethene	----	----	----	----	----	----	----	----	----	---	---
Methane	----	----	----	----	----	----	----	----	----	---	---
Natural Attenuation Parameters, mg/L											
Chloride	9.2	----	20.0	6.9	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	9.0	11.4	----	----	----	----	----	125	250
Total Alkalinity	75	----	205	209	205	203	198	195	202	---	---
Total Organic Carbon	----	---	----	----	----	----	----	0.87	1.1	---	---
pH	7.39	----	7.53	9.77	7.61	7.83	7.60	7.42	7.55	---	---
Conductivity (mS/cm)	330	----	0.356	0.342	0.333	0.317	0.358	0.446	0.373	---	---
Temperature (C)	12.6	----	10.6	10.25	10.23	10.35	9.87	10.64	10.28	---	---
ORP (mV)	17.7	----	-141.8	-545.2	-129.4	-149.2	-148.9	-153.9	-194.5	---	---
Dissolved Oxygen (mg/L)	4.5	----	0.42	0.78	0.73	0.30	0.76	0.23	0.29	---	---

Note: Please see notes provided at the end of this table.

Table 1
12S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	10/13/2015	4/25/2016	4/19/2017	4/23/2018	4/24/2019	PAL	ES
Metals, mg/L							
Arsenic	<0.0072	<0.0072	<0.0054	<0.0054	<0.0054	0.001	0.01
Barium	0.0206	0.0199	0.0169	0.0186	0.0194	0.4	2
Cadmium	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Cobalt	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.0129	<0.0129	<0.0155	<0.0155	<0.0354	0.15	0.3
Lead	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Manganese	<0.0014	<0.0014	<0.0011	<0.0011	<0.0011	0.060	0.300
Mercury	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Vanadium	<0.0020	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L							
Ethane	---	---	---	---	---	---	---
Ethene	---	---	---	---	---	---	---
Methane	---	---	---	---	---	---	---
Natural Attenuation Parameters, mg/L							
Chloride	---	---	---	---	---	125	250
Nitrate as N	---	---	---	---	---	2	10
Sulfate	---	---	---	---	---	125	250
Total Alkalinity	210	192	199	206	189	---	---
Total Organic Carbon	---	---	---	0.64J	0.96	---	---
pH	7.32	7.54	7.24	7.10	7.25	---	---
Conductivity (mS/cm)	0.351	0.358	0.303	0.381	0.294	---	---
Temperature (C)	11.81	9.21	8.89	9.24	8.28	---	---
ORP (mV)	-8.9	30.4	48.4	70.5	-25.0	---	---
Dissolved Oxygen (mg/L)	5.64	4.32	6.29	6.01	4.2	---	---

Note: Please see notes provided at the end of this table.

Table 1
14S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/15/2009	4/28/2010	4/19/2012	5/17/2013	4/28/2014	10/15/2015	4/27/2016	4/21/2017	4/25/2018	4/25/18 DUP	4/24/2019	PAL	ES
1,2,4-Trimethylbenzene	0.81	1.9	1.3	3.3	1.8	5.3	6.5	7.1	4.1	3.7	4.2	96	480
1,3,5-Trimethylbenzene	0.21	0.49	<0.23	----	0.52	1.3	1.3	1.2	0.95J	0.82J	<0.87	96	480
Acetone	---	---	---	3.2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.1J	1800	9000
n-Butylbenzene	1.0	1.8	<0.21	----	1.5	3.5	<0.50	<0.50	2.6	<0.50	2.3J	----	----
sec-Butylbenzene	0.46	1.1	0.60	----	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	1.3J	----	----
tert-Butylbenzene	----	----	----	----	<0.18	0.21	0.21	0.19J	<0.18	<0.18	<0.30	----	----
Ethylbenzene	<0.50	0.52	0.25	0.65	<0.50	1.1	1.2	0.76J	0.67J	0.56J	0.60J	140	700
Isopropylbenzene	0.46	1.1	0.58	----	0.72	1.9	2.2	1.9	1.3	1.3	2.6J	----	----
p-Isopropyltoluene	----	0.57	<0.24	----	<0.13	0.58	<0.50	3.1	<0.5	<0.5	<0.80	----	----
Naphthalene	3.1	11	8.9	16.3	10.7	31.2	31.1	31.2	21.6	19.7	22.6	10	100
n-Propylbenzene	----	1.3	0.69	----	1.2	2.9	3.0	2.6	1.9	1.8	1.7J	----	----
Xylenes (total)	<0.50	1.6	0.85	1.7	<1.5	3.1	3.5	3.1	2.1J	1.9J	1.7J	400	2,000
Metals, mg/L													
Arsenic	0.00046	0.001	0.00041	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	<0.0054	<0.0054	<0.0054	0.001	0.01
Barium	0.097	0.13	0.080	0.117	0.110	0.161	0.0989	0.100	0.088	0.0881	0.0764	0.4	2
Cadmium	<0.00012	<0.00061	<0.00010	0.00044	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	45.6	32.3	----	----	----	----	----	----	----	----
Cobalt	0.00067	0.00086	0.00067	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	0.0014J	<0.0014	0.008	0.04
Iron	**4.1**	**17**	**2.3**	**7.27**	**9.85**	**12.1**	**7.4**	**6.73**	**5.13**	**5.20**	**4.34**	0.15	0.3
Lead	<0.00012	<0.00061	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	15.2	12.6	----	----	----	----	----	----	----	----
Manganese	**0.95**	**1.8**	**0.800**	**1.26**	**1.77**	**2.09**	**1.16**	**1.000**	**0.852**	**0.886**	**0.612**	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	4.9	4.48	----	----	----	----	----	----	----	----
Sodium	----	----	----	6.34	5.87	----	----	----	----	----	----	----	----
Vanadium	0.00037	<0.00061	<0.00034	0.0022	<0.0020	0.0066	<0.0020	<0.0022	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L													
Ethane	----	----	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	-----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	-----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L													
Chloride	5.1	5.3	7.6	5.2	4.8	----	----	----	----	----	----	125	250
Nitrate as N	---	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	---	----	----	6.8	5.0	----	----	----	----	----	----	125	250
Total Alkalinity	150	220	160	149	145	233	176	169	156	162	147	----	----
Total Organic Carbon	---			----	----	----	----	----	3	3	3.4	----	----
pH	7.19	7.2	8.09	6.36	7.05	6..68	7.22	6.85	6.48	6.48	6.80	----	----
Conductivity (mS/cm)	239	380	280	0.237	0.234	0.386	0.254	0.266	0.288	0.288	0.199	----	----
Temperature (C)	5.7	9.8	9.1	7.61	7.45	10.85	8.02	7.78	7.71	7.71	6.95	----	----
ORP (mV)	-19	-73	-93.6	-12.3	-60.4	-46.9	-61.7	-55.4	-48.0	-48.0	-84.2	----	----
Dissolved Oxygen (mg/L)	3.0	2.0	2.0	3.4	11.09	0.55	0.43	0.87	1.30	1.30	1.36	----	----

Note: Please see notes provided at the end of this table.

Table 1
15M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/14/2009	4/28/2010	4/18/2012	Duplicate 4/18/2012	5/15/2013	4/29/2014	10/13/2015	4/26/2016	4/20/2017
1,2,4-Trimethylbenzene	<0.20	<0.20	<0.22	<0.22	2.6	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	<0.25	0.51	<0.19	<0.19	----	<2.2	<2.2	<2.2	<2.2
tert-Butylbenzene	<0.20	0.40	<0.24	<0.24	----	<0.18	<0.18	<0.18	<0.18
Vinyl chloride		<0.20	**0.32**	<0.13	<0.18	<0.18	<0.18	<0.18	<0.18
Metals, mg/L									
Arsenic	0.00028	0.0019	0.00026	----	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054
Barium	0.35	0.410	0.320	----	0.720	0.301	0.388	0.376	0.526
Cadmium	<0.00012	<0.00061	<0.00010	----	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013
Calcium	----	----	----	----	78	30.3	----	----	----
Cobalt	0.00056	0.00077	0.00055	----	0.0012	<0.00094	<0.00094	<0.00094	<0.0014
Iron	<0.15	**1**	0.210	----	**0.494**	**0.355**	**0.424**	**0.336**	**0.38**
Lead	0.00081	0.0016	0.0023	----	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043
Magnesium	----	----	----	----	20.1	7.89	----	----	----
Manganese	**2.1**	**2.4**	**1.7**	----	**4.04**	**1.60**	**1.81**	**1.67**	**2.04**
Mercury	<0.000065	<0.000065	<0.000070	----	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013
Potassium	----	----	----	----	1.54	0.712	----	----	----
Sodium	----	----	----	----	6.21	2.69	----	----	----
Vanadium	<0.00012	<0.00061	<0.00034	----	0.0051	<0.0020	0.0057	<0.0020	<0.0022
Dissolved Gases, ug/L									
Ethane	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L									
Chloride	4.4	4.9	7.4	----	12.6	9.7	----	----	----
Nitrate as N	---	---	---	----	----	----	----	----	----
Sulfate	---	---	---	----	3.9	5.6	----	----	----
Total Alkalinity	140	160	100	----	243	108	124	110	146
Total Organic Carbon	---	---	---	----	----	----	----	----	----
pH	7.59	7.4	7.46	----	7.35	7.67	7.57	7.85	7.64
Conductivity (mS/cm)	410	300	180	----	0.374	0.189	0.220	0.209	0.264
Temperature (C)	8.2	9.5	12.0	----	10.85	10.22	10.01	10.37	9.83
ORP (mV)	+259	+179	125.1	----	-69.1	-134.8	-90.3	-103.7	-98.2
Dissolved Oxygen (mg/L)	2	3.0	4.2	----	0.55	0.76	0.41	0.13	0.64

Note: Please see notes provided at the end of this table.

Table 1
15M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/23/2018	4/22/2019	PAL	ES
1,2,4-Trimethylbenzene	----	----	96	480
sec-Butylbenzene	----	----	----	----
tert-Butylbenzene	----	----	----	----
Vinyl chloride	----	----	0.02	0.2
Metals, mg/L				
Arsenic	<0.0054	0.0077J	0.001	0.01
Barium	0.595	0.533	0.4	2
Cadmium	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----
Cobalt	<0.0014	<0.0014	0.008	0.04
Iron	0.299	0.216	0.15	0.3
Lead	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	----
Manganese	**2.27**	**2.00**	0.060	0.300
Mercury	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	----
Sodium	----	----	----	----
Vanadium	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L				
Ethane	----	----	----	----
Ethene	----	----	----	----
Methane	----	----	----	----
Natural Attenuation Parameters, mg/L				
Chloride	----	----	125	250
Nitrate as N	----	----	2	10
Sulfate	----	----	125	250
Total Alkalinity	148	148	----	----
Total Organic Carbon	2.5	2.8	----	----
pH	7.30	7.67	----	----
Conductivity (mS/cm)	0.345	0.244	----	----
Temperature (C)	10.85	10.38	----	----
ORP (mV)	-77.5	-177.5	----	----
Dissolved Oxygen (mg/L)	0.27	0.29	----	----

Note: Please see notes provided at the end of this table.

Table 1
16S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	10/8/2008	4/14/2009	10/28/2009	4/28/2010	10/28/2010	10/27/2011	4/19/2012	Duplicate 4/19/2012	5/17/2013	4/28/2014
1,2,4-Trimethylbenzene	370	100	190	140	71	64	4.5	2.9	<1.1	<0.50
1,3,5-Trimethylbenzene	77	20	110	<0.40	33	<0.20	<0.23	<0.23	<5.0	<0.50
n-Butylbenzene	4.5	5.7	17	5.3	12	9.2	2.2	<0.21	----	2.0
sec-Butylbenzene	15	8.7	37	15	26	19	5.5	4.2	----	5.1
tert-Butylbenzene	<0.20	5.9	30	13	23	16	3.7	2.8	----	3.4
Acetone	----	----	----	----	----	----	----	----	<5.2	<3.0
Benzene	0.27	<0.40	<0.20	<0.40	<0.40	<0.20	<0.12	<0.12	<1.0	<0.50
Ethylbenzene	8.9	4.1	4.4	17	8.9	1.4	0.51	0.25	1.6	<0.50
Isopropylbenzene	21	18	64	43	60	41	8.4	6.3	----	12.1
p-Isopropyltoluene	16	2.1	34	8.8	12	12	0.69	<0.24	-----	1.3
Naphthalene	19	15	33	38	60	16	8.6	6.3	11.2	8.7
n-Propylbenzene	35	32	140	74	110	87	17	13	----	22.8
Xylenes (total)	36	7.8	7.9	22	14	<0.50	0.43	<0.30	<2.6	<1.5
Metals, mg/L										
Arsenic	**0.011**	0.0029	**0.015**	0.0073	**0.011**	**0.011**	0.0028	----	0.0068	<0.0072
Barium	0.37	0.22	0.22	0.270	0.190	0.200	0.2200	----	0.168	0.104
Cadmium	<0.00012	<0.00012	<0.00061	<0.00061	0.00013	<0.0012	<0.00010	----	<0.00038	<0.00060
Calcium	----	----	----	----	----	----	----	----	92.2	56.4
Cobalt	0.00093	0.0017	0.0015	0.0014	0.0021	0.00095	0.0018	----	0.0018	0.0024
Iron	**27**	**6.8**	**21**	**25**	**19**	**14**	**5.7**	----	**7.14**	**2.47**
Lead	0.00012	<0.00012	<0.00061	<0.00061	<0.00061	<0.00013	<0.00016	----	<0.0012	<0.0030
Magnesium	----	----	----	----	----	----	----	----	33.5	21.1
Manganese	**5.0**	**2.9**	**2.8**	**3.4**	**4.2**	**2.7**	**1.8**	----	**1.32**	**0.684**
Mercury	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070	<0.000070	----	<0.00010	<0.00010
Potassium	----	----	----	----	----	----	----	----	3.17	2.02
Sodium	----	----	----	----	----	----	----	----	16.7	12.8
Vanadium	0.0014	0.00028	0.00073	0.00066	0.00072	<0.00066	<0.00034	----	0.0019	<0.0020
Natural Attenuation Parameters, mg/L										
Chloride	----	13	----	9.6	----	----	9.4	----	6.9	5.9
Nitrate as N	----	----	----	----	----	----	----	----	----	----
Sulfate	----	----	----	----	----	----	----	----	8.6	5.1
Total Alkalinity	----	360	----	380	----	----	390	----	336	259
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----
pH	6.71	6.71	6.68	6.8	6.88	7.58	7.43	----	6.32	6.86
Conductivity (mS/cm)	635	603	660	730	324	400	570	----	0.462	0.364
Temperature (C)	9.1	7.3	12.2	8.8	-9.17	11.8	8.8	----	7.59	7.62
ORP (mV)	+220	+300	-41	+133	-213.6	-197	151.7	----	3.7	-19.9
Dissolved Oxygen (mg/L)	2.0	4.0	4.0	4.0	0.5	1.0	5.0	----	1.4	6.32

Note: Please see notes provided at the end of this table.

Table 1
16S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	10/13/2015	4/25/2016	4/19/2017	Duplicate 4/19/2017	4/25/2018	4/24/2019	Duplicate 4/24/19	PAL	ES
1,2,4-Trimethylbenzene	<0.50	1.0	<0.50	<0.50	<0.50	<0.84	<0.84	96	480
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.87	<0.87	96	480
n-Butylbenzene	16.1	1.6	0.65J	0.63J	<0.5	9.2	10.4	-----	-----
sec-Butylbenzene	38.6	11	<2.2	<2.2	<2.2	18.5	20.3	-----	-----
tert-Butylbenzene	25.9	7.7	1.1	1.1	<0.18	15.0	14.1	-----	-----
Acetone	<3.0	<3.0	<3.0	<0.30	<3.0	<2.7	6.4J	1800	9000
Benzene	<0.50	<0.50	<0.50	<0.50	<0.5	<0.25	<0.25	0.5	5
Ethylbenzene	0.63	<0.50	<0.50	<0.50	<0.50	0.23J	<0.22	140	700
Isopropylbenzene	42.6	18.9	3.6	3.5	<0.14	35.8	37.6	-----	-----
p-Isopropyltoluene	5.6	1.8	<0.50	<0.50	<0.5	0.98J	<0.80	-----	-----
Naphthalene	29.2	9.4	<2.5	<2.5	<2.5	28.7	24.9	10	100
n-Propylbenzene	94.7	35.8	7.1	7.1	<0.5	78.0	83.3	-----	-----
Xylenes (total)	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	400	2,000
Metals, mg/L									
Arsenic	0.0080	<0.0072	<0.0054		**0.0107J**	0.0058J	**0.0187J**	0.001	0.01
Barium	0.231	0.179	0.131		0.184	0.129	0.127	0.4	2
Cadmium	<0.00060	<0.00060	<0.0013		<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----		----	----	----	----	----
Cobalt	<0.00094	0.0025	<0.0014		0.0016J	<0.0014	<0.0014	0.008	0.04
Iron	**25.6**	**5.57**	**0.305**		**19.3**	**13.7**	**12.4**	0.15	0.3
Lead	<0.0030	<0.0030	<0.0043		<0.0043	<0.0064	<0.0064	0.0015	0.015
Magnesium	----	----			----	----	----	----	----
Manganese	**3.36**	**1.33**	0.224		**1.69**	**1.11**	**1.05**	0.060	0.300
Mercury	<0.00010	<0.00018	<0.00013		<0.00013	<0.000084	<0.000084	0.0002	0.002
Potassium	----	----	----		----	----	----	----	----
Sodium	----	----	----		----	----	----	----	----
Vanadium	0.0116	<0.0020	<0.0022		<0.0022	<0.0022	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L									
Chloride	----	----	----		----	----	----	125	250
Nitrate as N	----	----	----		----	----	----	2	10
Sulfate	----	----	----		----	----	----	125	250
Total Alkalinity	379	431	396		300	296	290	----	----
Total Organic Carbon	----	----	----		3.6	3.3	3.6	----	----
pH	6.61	6.90	6.71		6.29	6.74	6.74	----	----
Conductivity (mS/cm)	0.654	0.562	0.507		0.519	0.385	0.385	----	----
Temperature (C)	12.64	8.65	8.07		7.66	7.63	7.63	----	----
ORP (mV)	-67.2	-41.9	6.0		-39.0	-80.6	-80.6	----	----
Dissolved Oxygen (mg/L)	0.42	0.71	1.11		0.79	1.22	1.22	----	----

Note: Please see notes provided at the end of this table.

Table 1
16M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	10/8/2008	4/14/2009	10/28/2009	Duplicate 10/28/09	4/28/2010	10/28/2010	Duplicate 10/28/2010	4/19/2012	5/17/2013	4/28/2014	10/13/2015
1,4-Dichlorobenzene	0.52	<0.50	<0.50	<0.50	<0.50	0.53	0.50	<0.24	<0.43	<0.50	0.58
1,2,4-Trimethylbenzene	180	3.4	190	160	8.9	25	25	<0.22	2.9	2.3	<0.50
1,3,5-Trimethylbenzene	4.9	0.78	36	35	<0.20	4.1	4.3	<0.23	<2.5	<0.50	<0.50
Acetone	----	----	----	----	----	----	----	----	<2.6	<0.30	<3.0
Benzene	1.4	0.34	0.86	0.86	1.1	1.6	1.6	<0.12	0.85	0.65	1.2
n-Butylbenzene	3.0	<0.20	3.6	<0.20	<0.20	3.2	3.4	<0.21	-----	<0.22	1.1
sec-Butylbenzene	8.2	0.41	15	15	1.3	7.5	7.7	<0.19	------	<2.2	5
tert-Butylbenzene	<0.20	0.24	12	11	2.1	4.9	5.0	<0.24	-----	0.99	4.5
Chlorobenzene	3.0	1.9	1.6	1.6	1.8	2.4	2.4	<0.24	2.4	2.9	3.8
Chloroethane	1.3	<1.0	<1.0	<1.0	1.8	2.4	2.2	<0.33	<0.44	1.1	0.77
cis-1,2-Dichloroethene					<0.50	<0.50	<0.50	<0.22	<0.42	<0.26	0.29
Ethylbenzene	<0.50	<0.50	1.2	1.1	<0.50	<0.50	<0.50	<0.14	<0.50	<0.50	<0.50
Isopropylbenzene	21	<0.20	24	24	7.7	19	19	<0.21	----	1.6	16.2
Naphthalene	12	<0.25	3.3	6.9	0.30	9.8	9.5	<0.24	<2.5	<2.5	<2.5
n-Propylbenzene	----	----	58	57	5.0	20	21	<0.19	-----	<0.50	7.0
p-Isopropyltoluene	----	----	12	12	<0.20	0.76	0.78	<0.24	------	<0.13	<0.50
Xylenes (total)	3.4	<0.50	5.1	5.0	<0.50	2.5	2.6	<0.30	<1.3	<1.5	<1.5
Metals, mg/L											
Arsenic	**0.024**	**0.027**	**0.027**	----	**0.029**	**0.026**	----	0.0042	**0.0288**	**0.0261**	**0.0247**
Barium	1.2	0.79	1.5	----	1.4	1.3	----	0.470	1.35	1.24	1.44
Cadmium	<0.00012	<0.00012	<0.00061	----	<0.00061	<0.00012	----	<0.00010	0.00044	<0.00060	<0.00060
Calcium	----	----	----	----	----	----	----	----	61	55.0	----
Cobalt	0.0026	0.0014	0.0023	----	0.0023	0.0027	----	0.0032	0.0015	0.0021	0.0023
Iron	**21**	**17**	**29**	----	**25**	**20**	----	**1.8**	**23.4**	**20.3**	**21.1**
Lead	<0.00012	<0.00012	0.0012	----	<0.00061	<0.00061	----	<0.00016	<0.0012	<0.0030	<0.0030
Magnesium	----	----	----	----	----	----	----	----	17.4	14.1	----
Manganese	**1.2**	**0.70**	**1.20**	----	**1.4**	**1.4**	----	0.220	**1.38**	**1.22**	**1.35**
Mercury	<0.000065	<0.000065	<0.000065	----	<0.000065	<0.000065	----	<0.000070	<0.00010	<0.00010	<0.00010
Potassium	----	----	----	----	----	----	----	----	4.64	4.07	----
Sodium	----	----	----	----	----	----	----	----	19.7	17.3	----
Vanadium	0.00058	0.00078	<0.00061	----	<0.00061	0.00064	----	<0.00034	0.0021	<0.0020	0.0049
Natural Attenuation Parameters, mg/L											
Chloride	---	20	----	----	27	----	----	22	28.1	35.7	----
Nitrate as N	---	---	----	----	----	----	----	----	-----	----	----
Sulfate	---	---	----	----	----	----	----	----	2.2	2.2	----
Total Alkalinity	---	150	----	----	250	----	----	140	192	206	268
Total Organic Carbon	---	---	----	----	----	----	----	----	----	----	----
pH	7.10	7.21	----	----	6.7	7.5	----	8.04	7.18	7.37	7.13
Conductivity (mS/cm)	275	341	330	----	540	562	----	270	0.404	0.439	0.523
Temperature (C)	9.2	6.7	11.1	----	9.3	-10.94	----	9.2	11.2	10.79	10.19
ORP (mV)	+39	+17	----	----	+75	-256.2	----	54.8	-160	-184.8	-122.8
Dissolved Oxygen (mg/L)	1.0	3.0	3.0	----	2.0	0.0	----	310	1	0.85	0.56

Note: Please see notes provided at the end of this table.

Table 1
16M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/25/2016	10/3/2016	4/19/2017	4/25/2018	4/24/2019	PAL	ES
1,4-Dichlorobenzene	<0.50	----	<0.50	<0.5	<0.94	15	75
1,2,4-Trimethylbenzene	1.5	----	<0.50	<0.50	<0.84	96	480
1,3,5-Trimethylbenzene	<0.50	----	<0.50	<0.50	<0.87	96	480
Acetone	<3.0	----	<3.0	<3.0	3.6J	1800	9000
Benzene	0.80	----	<0.50	<0.5	0.71J	0.5	5
n-Butylbenzene	<0.50	----	<0.50	11.9	<0.71	-----	-----
sec-Butylbenzene	<2.2	----	<2.2	22.7	<0.85	-----	-----
tert-Butylbenzene	1.7	----	<0.18	16.7	0.69J	-----	-----
Chlorobenzene	2.7	----	1.1	<0.5	0.73J	-----	-----
Chloroethane	<0.37	----	<0.37	<0.37	<1.3	80	400
cis-1,2-Dichloroethene	<0.26	----	<0.	<0.26	0.30J	7	70
Ethylbenzene	<0.50	----	<0.17	<0.50	<0.22	140	700
Isopropylbenzene	7.5	----	<0.14	52.8	1.6J	-----	-----
Naphthalene	<2.5	----	<2.5	43	<1.2	10	100
n-Propylbenzene	4.5	----	<0.50	110	<0.81	-----	-----
p-Isopropyltoluene	<0.50	----	<0.50	1.1	<0.80	-----	-----
Xylenes (total)	<1.5	----	<1.5	<1.5	<1.5	400	2,000
Metals, mg/L							
Arsenic	**0.0253**	**0.0284**	**0.0308**	**0.0342**	**0.0254**	0.001	0.01
Barium	1.37	1.17	1.03	1.95	1.43	0.4	2
Cadmium	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----	----	----	----
Cobalt	0.0022	0.0014	<0.0014	0.0037J	<0.0014	0.008	0.04
Iron	**21.5**	**18.2**	**15.1**	**32.8**	**22.8**	0.15	0.3
Lead	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	----	----	----	----
Manganese	**1.4**	**1.06**	**0.963**	**1.92**	**1.40**	0.060	0.300
Mercury	<0.00018	<0.00013	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----
Vanadium	<0.0020	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L							
Chloride	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	2	10
Sulfate	----	----	----	----	----	125	250
Total Alkalinity	237	188	179	302	216	----	----
Total Organic Carbon	----	----	----	6	5.2	----	----
pH	7.38	7.12	7.35	6.95	7.23	----	----
Conductivity (mS/cm)	0.491	0.399	0.357	0.620	0.419	----	----
Temperature (C)	11.4	11.26	11.04	11.48	11.08	----	----
ORP (mV)	-156.4	-148.5	-168.2	-143.1	-196.7	----	----
Dissolved Oxygen (mg/L)	0.16	0.04	0.77	0.14	0.13	----	----

Note: Please see notes provided at the end of this table.

Table 1
17S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	10/8/2008	4/14/2009	10/28/2009	4/28/2010	10/28/2010	10/27/2011	4/19/2012	5/15/2013	10/29/2013	4/28/2014	10/28/2014	Duplicate 10/28/2014	10/13/2015
1,2,4-Trimethylbenzene	**750**	190	**570**	400	**1,600**	**640**	390	261	**1780**	215	378	318	448
1,3,5-Trimethylbenzene	**65**	14	**23**	<2.0	**44**	**<0.20**	<0.23	<2.5	**<5.0**	<0.50	<1.2	<2.0	<1.2
n-Butylbenzene	12	4.9	<0.80	3.7	10	5.3	<0.21	----	8.5	2.5	5.8	4.8	6.4
sec-Butylbenzene	41	17	10	23	28	21	13	----	24.2	15.5	21.2	18.6	22.7
tert-Butylbenzene	20	4.7	<0.80	5.4	11	8.9	<0.24	----	12.3	5.0	7.8	6.9	11.3
Isopropylbenzene	27	6.8	9.4	11	16	12	5.8	----	25.2	6.1	10.2	9.0	8.7
p-Isopropyltoluene	24	6.8	7.3	7.1	23	17	3.0	----	24.4	3.8	10.6	9.2	11.4
Naphthalene	14	2.2	6.4	2.9	11	4.1	2.6	<2.5	<25.0	<2.5	<6.2	<10.0	<6.2
n-Propylbenzene	52	13	18	23	36	25	9.2	----	48.4	9.2	17.8	15.9	18.6
Xylenes (total)	5.2	<1.0	2.2	<5.0	<4.0	1.1	<0.30	<1.3	<13.2	<1.5	<3.8	<6.0	<3.8
Metals, mg/L													
Arsenic	**0.032**	0.0032	**0.012**	**0.010**	**0.014**	**0.017**	0.0082	**0.0105**	**0.0203**	0.0087	**0.0111**	----	**0.0111**
Barium	0.33	0.15	0.21	0.27	0.34	0.24	0.170	0.178	0.318	0.149	0.166	----	0.204
Cadmium	<0.00012	<0.00012	<0.00061	<0.00061	<0.00012	<0.00012	<0.00010	<0.00038	<0.00038	<0.00060	<0.00060	----	<0.00060
Calcuim	----	----	----	----	----	----	----	69.2	----	58.2	----	----	----
Cobalt	0.00089	0.0079	<0.00061	0.001	<0.00061	0.00039	0.00049	<0.00085	<0.00085	<0.00094	<0.00094	----	<0.00094
Iron	**49**	**4.9**	**19**	**34**	**33**	**22**	**14**	**14.4**	**31.6**	**12.0**	**12.9**	----	**15.3**
Lead	<0.00012	<0.00012	<0.00061	<0.00061	<0.00061	<0.00013	<0.00016	0.0015	0.0025	<0.0030	<0.0030	----	<0.0030
Magnesium	----	----	----	----	----	----	----	29.5	----	25.0	----	----	----
Manganese	**3.3**	**1.4**	**1.5**	**2.9**	**3.6**	**2.5**	**2.1**	**1.42**	**2.91**	**1.25**	**1.78**	----	**2.28**
Mercury	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070	<0.000070	<0.00010	<0.00010	<0.00010	<0.00010	----	<0.00010
Potassium	----	----	----	----	----	----	----	1.92	----	1.35	----	----	----
Sodium	----	----	----	----	----	----	----	2.65	----	2.71	----	----	----
Vanadium	<0.00012	0.00025	<0.00061	<0.00061	<0.00061	<0.00066	<0.00034	0.0015	0.0014	<0.0020	<0.0020	----	0.0076
Natural Attenuation Parameters, mg/L													
Chloride	----	3.5	----	2.7	----	----	3.5	4.6	----	2.6	----	----	----
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	----	----
Sulfate	----	----	----	----	----	----	----	4.5	----	3.9	----	----	----
Total Alkalinity	----	260	----	260	----	----	220	248	----	251	----	----	196
Total Organic Carbon	----	----	----	----	----	----	----	---	----	----	----	----	----
pH	6.61	6.59	6.72	7.0	7.33	7.59	7.93	6.67	6.86	7.00	6.65	----	7.01
Conductivity (mS/cm)	600	524	440	460	590	625	410	0.366	0.458	0.376	0.357	----	0.355
Temperature (C)	9.7	6.3	11.0	8.8	-9.39	10.2	8.5	7.68	12.6	7.09	12.25	----	12.19
ORP (mV)	-47	-29	-55	-10	-220.2	-188	-18.6	-50.9	-102.4	-85.7	-50.4	----	-116.8
Dissolved Oxygen (mg/L)	2.5	4.0	3.0	4.0	0.0	0.5	4.5	4.1	0.67	4.99	1.22	----	0.39

Note: Please see notes provided at the end of this table.

Table 1
17S
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/25/2016	10/3/2016	4/18/2017	1/9/2018	4/25/2018	10/24/2018	4/24/2019	10/16/2019	PAL	ES
1,2,4-Trimethylbenzene	**943**	**897**	433	**1090**	436	**1350**	304	431	96	480
1,3,5-Trimethylbenzene	**<5.0**	**<5.0**	<5.0	**<5.0**	<5.0	**<8.7**	<3.5	<4.4	96	480
n-Butylbenzene	<5.0	7.7	<5.0	9.7J	6.7J	7.3J	3.8J	<3.5	-----	-----
sec-Butylbenzene	22.5	<21.9	<21.9	30.2J	<21.9	13.1J	13.1J	19.5J	-----	-----
tert-Butylbenzene	7.8	5.2	3.2J	11.2	9.3J	10.3	3.7J	6.0	-----	-----
Isopropylbenzene	11.5	8.5	5.2J	13.4	9.8J	11.4J	6.2J	9.1J	-----	-----
p-Isopropyltoluene	15.6	10.2	7.4J	23.4	8.3J	21.1J	5.7J	11.8J	-----	-----
Naphthalene	<25	<25	<25	<25.0	<25.0	<11.8	7.3J	<5.9	10	100
n-Propylbenzene	29.5	23.3	11.3	31.1	19.7J	25.5J	15.1J	16.4J	-----	-----
Xylenes (total)	<15	<15	<15	<15.0	<15.0	<15.0	<6.0	<7.5	400	2,000
Metals, mg/L										
Arsenic	**0.0108**	**0.0173**	**0.0109J**	**0.0183**	**.0104J**	<0.0054	<0.0054	**0.0147J**	0.001	0.01
Barium	0.173	0.177	0.172	0.22	0.187	0.188	0.143	0.14	0.4	2
Cadmium	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcuim	----	----	----	----	----	----	----	----	----	----
Cobalt	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	**13.6**	**11.3**	**12.4**	**16.3**	**13.4**	**11.1**	**8.65**	**7.67**	0.15	0.3
Lead	0.0033	<0.0030	<0.0043	<0.0043	<0.0043	<0.0064	<0.0064	<0.0059	0.0015	0.015
Magnesium	----	----	----	----	----	----	----	----	----	----
Manganese	**2.06**	**1.88**	**1.96**	**1.96**	**1.54**	**1.30**	**1.20**	**1.14**	0.060	0.300
Mercury	<0.00018	<0.00013	<0.00013	<0.00013	<0.00013	<0.000084	<0.000084	<0.000084	0.0002	0.002
Potassium	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----
Vanadium	<0.0020	<0.0020	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0026	0.006	0.03
Natural Attenuation Parameters, mg/L										
Chloride	----	----			----	----	----	----	125	250
Nitrate as N	----	----			----	----	----	----	2	10
Sulfate	----	----			----	----	----	----	125	250
Total Alkalinity	220	238	235	237	237	----	214	----	----	----
Total Organic Carbon	----	----		1.8	1.6	1.6	1.8	1.5	----	----
pH	7.27	6.83	7	6.48	6.61	6.97	7.13	7.09	----	----
Conductivity (mS/cm)	0.33	0.383	0.347	0.291	0.399	0.499	0.289	0.442	----	----
Temperature (C)	8.65	15.01	8.54	10.98	7.68	12.47	7.57	11.42	----	----
ORP (mV)	-107.7	-83.5	-102.8	-72	-81.8	-126.1	-122.3	-130.1	----	----
Dissolved Oxygen (mg/L)	0.81	1.70	1.55	0.38	1.42	1.42	1.67	1.83	----	----

Note: Please see notes provided at the end of this table.

Table 1
17M
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/14/2009	4/28/2010	Duplicate 4/28/2010	4/19/2012	5/15/2013	4/28/2014	10/13/2015	4/25/2016	4/18/2017	4/25/2018	4/24/2019	PAL	ES
1,2,4-Trimethylbenzene	<0.20	22	23	<0.22	<0.57	<0.50	----	----	<0.50	----	----	96	480
sec-Butylbenzene	<0.25	4.3	4.1	<0.19	----	<2.2	----	----	<2.2	----	----	-----	-----
tert-Butylbenzene	<0.20	5.5	5.3	<0.24	----	4.3	----	----	<0.18	----	----	-----	-----
Isopropylbenzene	<0.20	9.7	10	<0.21	----	5.5	----	----	<0.14	----	----	-----	-----
n-Propylbenzene	----	0.71	0.74	<0.19	----	<0.50	----	----	<0.50	----	----	-----	-----
Metals, mg/L													
Arsenic	0.0014	0.0013	----	0.0033	**0.0143**	**0.0147**	**0.0104**	**0.0117**	**0.0131J**	**.0143J**	**0.0159J**	0.001	0.01
Barium	0.35	1.1	----	0.35	0.694	0.905	0.608	0.637	0.634	0.779	0.607	0.4	2
Cadmium	<0.00012	<0.00061	----	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----	49.1	55.8	----	----	----	----	----	----	----
Cobalt	0.00019	0.00072	----	<0.00013	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.15	**5.3**	----	0.11	**5.58**	**6.68**	**5.48**	**4.46**	**4.92**	**6.46**	**5.29**	0.15	0.3
Lead	<0.00012	<0.00061	----	0.00022	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	----	21.8	24.6	----	----	----	----	----	----	----
Manganese	0.016	**2.9**	----	0.22	**1.39**	**1.97**	**1.06**	**1.14**	**0.993**	**1.110**	**0.875**	0.060	0.300
Mercury	<0.00065	<0.000065	----	<0.000070	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	----	2.1	2.25	----	----	----	----	----	----	----
Sodium	----	----	----	----	4.44	4.63	----	----	----	----	----	----	----
Vanadium	0.00017	0.00089	----	0.00055	0.0013	<0.0020	0.0023	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L													
Chloride	7.1	5.3	----	12	9.2	6.5	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	---	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	2.2	2.2	----	----	----	----	----		250
Total Alkalinity	200	320	----	150	187	261	200	184	184	211	179	----	----
Total Organic Carbon	----	----	----	----	-----	----	----	----	----	2.2	3.6	----	----
pH	7.03	6.9	----	8.10	7.31	7.71	7.63	7.88	7.73	7.41	7.69	----	----
Conductivity (mS/cm)	350	620	----	250	0.296	0.390	0.326	0.290	0.304	0.407	0.287	----	----
Temperature (C)	7.4	10.7	----	9.1	10.76	10.35	9.61	10.66	10.16	10.48	10.17	----	----
ORP (mV)	-30	-41	----	25.6	-182.2	-193.7	-166.8	-183.5	-194.7	-172.8	-217.5	----	----
Dissolved Oxygen (mg/L)	3.0	3.0	----	3.0	0.48	1.78	0.63	0.20	0.93	0.10	0.16	----	----

Note: Please see notes provided at the end of this table.

Table 1
PZ-1
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/15/2009	4/28/2010	4/19/2012	5/17/2013	4/28/2014	10/14/2015	4/27/2016	4/21/2017	4/25/2018	4/24/2019	PAL	ES
tert-Butylbenzene	----	----	0.52	----	----	----	----	<0.18	----	----	---	---
Metals, mg/L												
Arsenic	0.0011	0.0011	0.0010	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	0.0084J	<0.0054	0.001	0.01
Barium	0.025	0.044	0.013	0.0714	0.0891	0.106	0.101	0.0898	0.128	0.0948	0.4	2
Cadmium	<0.00012	<0.00061	0.00043	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	48.6	45.3	----	----	----	----	----	---	---
Cobalt	0.0003	<0.00061	0.00021	0.002	0.0018	0.0012	0.0015	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.15	**0.38**	0.067	<0.0140	<0.0129	<0.0129	<0.0129	<0.034	<0.0155	<0.0354	0.15	0.3
Lead	<0.00012	<0.00061	<0.00016	<0.0012	<0.0030	0.0031	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	19.6	18.2	----	----	----	----	----	---	---
Manganese	**0.31**	0.039	0.110	**3.72**	**3.19**	**2.61**	**1.77**	**1.5**	**2.17**	**1.56**	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	7.97	5.80	----	----	----	----	----	---	---
Sodium	----	----	----	14.1	6.45	----	----	----	----	----	---	---
Vanadium	0.00086	<0.00061	0.00062	0.0053	<0.0040	0.0083	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L												
Ethane	----	----	----	----	----	----	----	----	----	----	---	---
Ethene	----	----	----	----	----	----	----	----	----	----	---	---
Methane	----	----	----	----	----	----	----	----	----	----	---	---
Natural Attenuation Parameters, mg/L												
Chloride	8.7	5.5	5.7	7.9	8.9	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	6.8	7.0	----	----	----	----	----	125	250
Total Alkalinity	33	250	200	200	211	221	173	165	237	172	---	---
Total Organic Carbon	----	---		----	----	----	----	----	1.8	2.0	---	---
pH	7.15	7.3	8.16	7.98	7.71	7.89	8.20	8.02	7.65	7.92	---	---
Conductivity (mS/cm)	200	240	330	0.295	0.305	0.336	0.292	0.286	0.431	0.263	---	---
Temperature (C)	6.5	12.2	8.8	9.36	8.57	9.47	9.60	9.68	9.75	9.00	---	---
ORP (mV)	5	+13	-15.5	48.6	33.7	-33.2	-48.2	228.2	-32.6	-98.3	---	---
Dissolved Oxygen (mg/L)	3.0	3.0	2.5	4.9	7.04	0.74	0.19	0.66	0.17	0.32	---	---

Note: Please see notes provided at the end of this table.

Table 1
PZ-2
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic	4/15/2009	4/28/2010	4/19/2012	5/28/2013	4/28/2014	10/14/2015	4/27/2016	4/21/2017	4/25/2018	4/23/2019	PAL	ES
Metals, mg/L												
Arsenic	0.00099	0.0025	0.0021	<0.0044	<0.0072	<0.0072	0.0086	<0.0083	0.0089J	**0.0201J**	0.001	0.01
Barium	0.056	0.060	0.047	0.0432	0.0359	0.117	0.089	0.0691	0.0778	0.11	0.4	2
Cadmium	<0.00012	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	34.1	32.1	----	----	----	----	----	----	----
Cobalt	0.002	0.0038	0.011	0.0036	0.0036	<0.00094	0.00097	0.0021J	0.0022J	<0.0014	0.008	0.04
Iron	**1.0**	**11**	**6.6**	**1.97**	**1.47**	**25.6**	**23.4**	**21.2**	**27.8**	**22.4**	0.15	0.3
Lead	<0.00012	<0.00061	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	18.2	17.8	----	----	----	----	----	----	----
Manganese	**0.59**	**1.8**	**1.8**	**1.08**	**0.388**	**2.86**	**2.16**	**3.08**	**3.19**	**2.56**	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	0.175	0.24	----	----	----	----	----	----	----
Sodium	----	----	----	3.98	4.12	----	----	----	----	----	----	----
Vanadium	0.00053	0.0008	0.0049	<0.0012	<0.0020	0.0098	<0.0020	<0.0022	<0.0022	0.0029J	0.006	0.03
Dissolved Gases, ug/L												
Ethane	---	---	---	-----	----	----	----	----	----	----	----	----
Ethene	---	---	---	-----	----	----	----	----	----	----	----	----
Methane	---	---	---	-----	----	----	----	----	----	----	----	----
Natural Attenuation												
Chloride	11	7.0	8.9	5.6	8.9	----	----	----	----	----	125	250
Nitrate as N	---	---	---	----	----	----	----	----	----	----	2	10
Sulfate	---	---	---	8.1	8.3	----	----	----	----	----	125	250
Total Alkalinity	35	180	170	159	148	193	183	194	197	166	----	----
Total Organic Carbon	---	---	---	----	----	----	----	----	7.1	6.1	----	----
pH	7.25	7.1	8.26	----	6.94	6.77	7.21	6.81	6.39	6.81	----	----
Conductivity (mS/cm)	275	370	300	----	0.229	0.372	0.317	0.319	0.403	0.264	----	----
Temperature (C)	6.1	10.2	8.3	----	7.26	9.83	8.52	7.95	7.58	7.67	----	----
ORP (mV)	+17	+29	-10.9	----	26.6	-92.1	-101.4	-76.9	-77.4	-132.2	----	----
Dissolved Oxygen (mg/L)	5.0	4.0	2.5	----	8.41	0.70	0.66	1.72	1.17	1.05	----	----

Note: Please see notes provided at the end of this table.

Table 1
PZ-3
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/14/2009	Duplicate 4/14/09	4/28/2010	4/18/2012	5/16/2013	10/29/2013	4/29/2014	10/28/2014	10/14/2015	4/26/2016	10/3/2016	4/20/2017	4/23/2018	4/23/2019	PAL	ES
1,2,4-Trimethylbenzene	<0.20	<0.20	<0.20	240	<0.57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	96	480
Acetone	----	----	----	----	<2.6	<2.6	<3.0	<3.0	4.8	<3.0	<3.0	----	----	----	1800	9000
sec-Butylbenzene	----	----	2.7	9.8	----	<0.60	<2.2	6.5	2.4	<2.2	<2.2	----	----	----	-----	-----
tert-Butylbenzene	2.3	2.4	5.2	<0.24	----	1.1	7.7	13.0	3.4	2.3	3.5	----	----	----	-----	-----
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.22	<0.42	<0.42	<0.26	0.35	<0.26	<0.26	<0.26	----	----	----	7	70
Isopropylbenzene	<0.20	<0.20	<0.20	4.5	---	<0.34	<0.12	0.66	<0.14	<0.14	<0.14	----	----	----	-----	-----
n-Propylbenzene	<0.50	<0.50	<0.50	1.2	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	----	----	-----	-----
Metals, mg/L																
Arsenic	0.00094	----	0.00083	0.0022	<0.0044	<0.0044	<0.0072	<0.0072	<0.0072	<0.0072	0.0094	<0.0054	0.0057J	**0.014J**	0.001	0.01
Barium	0.14	----	0.140	0.130	0.176	0.179	0.144	0.148	0.126	0.109	0.122	0.113	0.12	0.124	0.4	2
Cadmium	0.00014	----	<0.00061	<0.00010	<0.00038	<0.00038	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----	84.3	----	63.9	----	----	----	----	----	----	----	----	----
Cobalt	0.0016	----	0.0022	0.0023	0.0025	0.0026	0.0023	0.0027	0.0029	0.0026	0.0013	0.0018J	0.0018J	0.0018J	0.008	0.04
Iron	**0.55**	----	**0.93**	**2.3**	**0.315**	**1.32**	0.298	**0.676**	**0.724**	**0.47**	**0.564**	**0.435**	**0.485**	0.22	0.15	0.3
Lead	<0.00012	----	<0.00061	<0.00016	<0.0012	<0.0012	<0.0030	<0.0030	0.0051	<0.0030	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	----	----	----	----	33.2	----	24.4	----	----	----	----	----	----	----	----	----
Manganese	**4.9**	----	**4.5**	**6.4**	**5.54**	**6.98**	**4.34**	**5.6**	**5.16**	**4.6**	**4.39**	**4.6**	**4.8**	**3.88**	0.060	0.300
Mercury	<0.000065	----	<0.000065	<0.000070	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00013	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	----	2.91	----	2.10	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	11.6	----	9.54	----	----	----	----	----	----	----	----	----
Vanadium	0.00051	----	<0.00061	0.00083	0.006	0.003	<0.0040	<0.0020	0.0141	<0.0020	<0.0020	<0.0022	<0.0022	0.0027J	0.006	0.03
Dissolved Gases, ug/L																
Ethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L																
Chloride	12	----	15	9.6	15.8	----	20.9	----	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	2.4	----	<2.0	----	----	----	----	----	----	----	125	250
Total Alkalinity	250	----	340	240	299	----	274	----	219	203	202	200	189	234	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	----	----	2.2	1.9	----	----
pH	7.07	----	7.2	8.20	7.12	6.89	7.07	6.74	6.95	7.30	6.61	7.09	6.81	7.20	----	----
Conductivity (mS/cm)	550	----	450	370	0.451	0.470	0.438	0.417	0.332	0.285	0.292	0.297	0.352	0.288	----	----
Temperature (C)	9.3	----	9.5	11.8	10.45	11.49	10.23	10.72	9.85	9.67	10.52	9.57	9.87	9.63	----	----
ORP (mV)	+395	----	+275	181.6	-14.9	55.8	-39.4	25.0	-12.7	-27.3	8.2	-17.9	-21.3	-146.7	----	----
Dissolved Oxygen (mg/L)	4.5	----	4.0	5.0	0.4	2.19	0.70	0.20	0.40	0.20	0.05	0.61	0.41	0.41	----	----

Note: Please see notes provided at the end of this table.

Table 1
PZ-4
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/18/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	4/24/2018	4/23/2019	PAL	ES
tert-Butylbenzene	4.1	---	---	---	---	5.9	---	---	-----	-----
cis-1,2-Dichloroethene	<0.22	---	---	---	---	0.39J	---	---	7	70
Isopropylbenzene						0.34J	---	---	---	---
sec-Butylbenzene						6.0	---	---	---	---
Metals, mg/L										
Arsenic	0.00055	<0.0044	<0.0072	<0.0072	<0.0072	0.0060J	<0.0054	**0.0113J**	0.001	0.01
Barium	0.160	0.209	0.165	0.167	0.208	0.264	0.28	0.278	0.4	2
Cadmium	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	---	62.7	52.2	----	----	----	----	----	---	---
Cobalt	0.0014	0.0021	0.0015	0.0021	0.0029	0.0032J	0.0027J	0.0034J	0.008	0.04
Iron	0.040	0.0261	0.0219	0.0151	0.0273	0.0314J	.0356J	<0.0354	0.15	0.3
Lead	<0.00016	<0.0012	<0.0030	0.0031	<0.0030	<0.0043	<0.0043	<0.0064	0.0015	0.015
Magnesium	---	27.8	22.0	----	----	----	----	----	---	---
Manganese	**2.2**	**2.69**	**2.17**	**2.64**	**3.04**	**3.08**	**3.22**	**3.68**	0.060	0.300
Mercury	<0.00070	<0.00010	<0.00010	<0.00010	<0.00018	<0.0013	<0.00013	<0.000084	0.0002	0.002
Potassium	---	1.6	1.28	----	----	----	----	----	---	---
Sodium	---	10.4	9.05	----	----	----	----	----	---	---
Vanadium	<0.00034	0.0027	<0.0020	0.0084	<0.0020	<0.0022	<0.0022	<0.0022	0.006	0.03
Dissolved Gases, ug/L										
Ethane	---	---	----	----	----	----	----	----	---	---
Ethene	---	---	----	----	----	----	----	----	---	---
Methane	---	---	----	----	----	----	----	----	---	---
Natural Attenuation Parameters, mg/L										
Chloride	13	16.2	14.5	----	----	----	----	----	125	250
Nitrate as N	---	---	----	----	----	----	----	----	2	10
Sulfate	---	2.2	2.5	----	----	----	----	----	125	250
Total Alkalinity	240	238	238	229	260	287	278	309	---	---
Total Organic Carbon	---	----	----	----	----	---	2.8	2.9	---	---
pH	7.38	7.43	9.16	7.24	7.37	7.15	6.96	7.18	---	---
Conductivity (mS/cm)	380	0.36	0.374	0.364	0.402	0.441	0.514	0.409	---	---
Temperature (C)	11.8	9.73	9.39	10.48	9.55	9.48	9.8	9.04	---	---
ORP (mV)	-13.8	-3.4	-558.7	-6.5	15.7	25.7	27.9	-61.5	---	---
Dissolved Oxygen (mg/L)	2.9	0.45	0.70	0.38	0.24	0.86	0.29	0.31	---	---

Note: Please see notes provided at the end of this table.

Table 1
PZ-5
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/19/2012	5/17/2013	4/29/2014	10/14/2015	4/27/2016	4/20/2017	1/9/2018	1/9/2018 Duplicate	4/23/2018	10/24/2018	4/25/2019	10/16/2019	PAL	ES
1,2,4-Trimethylbenzene	8.2	---	---	---	---	**673**	240	339	334	154	148	214	96	480
1,3,5-Trimethylbenzene	4.7	---	---	---	---	**<5**	16.4	36.9	<1.0	<0.87	<0.87	<0.87	96	480
n-Butylbenzene							7.2	8.7	5.7	1.5J	2.3J	4.0	-----	-----
Acetone	---	---	---	---	---	<29.5	<5.9	<14.8	<5.9	<2.7	7.3J	6.4J	1800	9000
sec-Butylbenzene	2.2	---	---	---	---	<21.9	16.9	19.2J	16.7	6.5	8.2	13.6	-----	-----
Isopropylbenzene		---	---	---	---	5.1J	2.1	2.9J	2.9	1.3J	1.8J	2.7J	---	---
Methylene chloride	<0.63	---	---	---	---	<2.3	<0.47	<1.2	<0.47	1.4J	<0.58	<0.58	0.5	5
n-Proplybenzene		---	---	---	---	11.6	4.3	6.5	5.5	2.4J	2.7J	4.1J	---	---
p-Isoproplytoluene		---	---	---	---	13.5	12.1	14.3	14.3	5.1	6.5	14.1	---	---
tert-Butylbenzene		---	---	---	---	2.1J	3.2	5.0	3.9	1.6	1.3	2.7	---	---
Metals, mg/L														
Arsenic	0.0057	0.0056	<0.0072	<0.0072	<0.0072	0.0073J	**0.0109J**	<0.0054	0.0063J	<0.0054	**0.0152J**	<0.0083	0.001	0.01
Barium	0.110	0.134	0.0944	0.168	0.132	0.155	0.155	0.157	0.143	0.139	0.121	0.124	0.4	2
Cadmium	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	---	51.4	37.9	----	----	----	----	----	----	----	----	----	----	----
Cobalt	0.0017	0.0013	0.001	0.0016	0.0014	0.0018J	0.0016	0.0026J	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	**4.1**	**4.7**	**3.09**	**6.55**	**6.26**	**7.7**	**6.71**	**6.71**	**6.54**	**5.98**	**5.22**	**5.06**	0.15	0.3
Lead	<0.00016	<0.0012	0.0034	<0.0030	<0.0030	<0.0043	<0.0043	<0.0043	<0.0043	<0.0064	<0.0064	<0.0059	0.0015	0.015
Magnesium	---	20.3	14.8	----	----	----	----	----	----	----	----	----	----	----
Manganese	**2.5**	**2.3**	**1.42**	**1.91**	**1.19**	**1.13**	**1.26**	**1.28**	**1.23**	**0.921**	**0.709**	**0.626**	0.060	0.300
Mercury	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.00013	<0.00013	<0.000084	<0.000084	<0.000084	0.0002	0.002
Potassium	---	0.725	0.502	----	----	----	----	----	----	----	----	----	----	----
Sodium	---	1.9	1.38	----	----	----	----	----	----	----	----	----	----	----
Vanadium	0.00061	0.0032	<0.0020	0.0059	<0.0020	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.0025J	<0.0026	0.006	0.03
Dissolved Gases, ug/L														
Ethane	----	----	----	----	----	----		----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----		----	----	----	----	----	----	----
Methane	----	----	----	----	----	----		----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L														
Chloride	1.0	3.2	2.9	----	----	----		----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----		----	----	----	----	----	2	10
Sulfate	----	4.7	3.7	----	----	----		----	----	----	----	----	125	250
Total Alkalinity	180	182	165	223	186	206	189	201	188	----	170	----	----	----
Total Organic Carbon	----	----	----	----	----	----	1.1	1.2	1.3	1.2	1.2	1.1	----	----
pH	8.43	6.69	7.23	7.16	7.52	7.12	6.95	6.95	6.88	6.97	7.20	7.15	----	----
Conductivity (mS/cm)	310	0.265	0.234	0.340	0.257	0.278	0.233	0.233	0.351	0.383	0.240	0.457	----	----
Temperature (C)	9.1	9.59	8.49	10.16	9.13	8.91	11.03	11.03	9.08	10.3	8.05	9.19	----	----
ORP (mV)	22.7	-40.6	-93.8	-94.9	-95.4	-73.8	-71.0	-71.0	-80.3	-92.8	-107.0	-98.7	----	----
Dissolved Oxygen (mg/L)	4.8	5.22	4.49	1.43	2.24	4.24	0.46	0.46	2.18	3.31	3.99	3.76	----	----

Note: Please see notes provided at the end of this table.

Table 1
PZ-6
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	1/8/2018	4/23/2018	10/24/2018	4/25/2019	4/25/2019 Duplicate	10/16/2019	PAL	ES
Acetone	<3.0	<3.0	2.8J	3.8J	<2.7	9.9J	1800	9000
Benzene	<0.50	1.5	<0.25	<0.25	<0.25	<0.25	0.5	5
sec-Butylbenzene	<2.2	27.9	<0.85	<0.85	<0.85	<0.85	-----	-----
tert-Butylbenzene	<0.18	25.5	<0.30	<0.30	<0.30	<0.30	-----	-----
Chlorobenzene	<0.50	0.96J	<0.71	<0.71	<0.71	<0.71	-----	-----
Methylene chloride	<0.23	<0.23	0.96J	<0.58	<0.58	<0.58	0.5	5
Naphthalene	<2.5	57.3	<1.2	<1.2	<1.2	<1.2	10	100
Isopropylbenzene	<0.14	101	<0.39	<0.39	<0.39	<0.39	-----	-----
n-Butylbenzene	<0.50	11.5	<0.71	<0.71	<0.71	<0.71	-----	-----
n-Propylbenzene	<0.50	150	<0.81	<0.81	<0.81	<0.81	-----	-----
p-Isopropyltoluene	<0.50	0.58J	<0.80	<0.80	<0.80	<0.80	-----	-----
Metals, mg/L								
Arsenic	<0.0054	<0.0054	<0.0054	**0.0139J**	<0.0054	<0.0083	0.001	0.01
Barium	0.0262	0.0237	0.0215	0.021	0.0216	0.0218	0.4	2
Cadmium	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	----	----	----	----	----
Cobalt	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	<0.0155	<0.0155	<0.0354	<0.0354	<0.0354	<0.0352	0.15	0.3
Lead	0.0074	<0.0043	<0.0064	<0.0064	<0.0064	<0.0059	0.0015	0.015
Magnesium	----	----	----	----	----	----	----	----
Manganese	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0015	0.060	0.300
Mercury	<0.00013	<0.00013	<0.000084	<0.000084	<0.000084	<0.000084	0.0002	0.002
Potassium	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----
Vanadium	<0.0022	<0.0022	<0.0022	0.0023J	0.003J	<0.0026	0.006	0.03
Dissolved Gases, ug/L								
Ethane	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L								
Chloride	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	----	----	125	250
Total Alkalinity	221	205	----	198	193	----	----	----
Total Organic Carbon	0.7	0.88	0.83J	0.90	1.1		----	----

Table 1
PW1
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	7/10/2008	4/29/2010	4/18/2012	5/15/2013	4/29/2014	10/16/2015	5/16/2016	10/5/2016	4/21/2017	4/24/2018	4/23/2019	PAL	ES
Metals, mg/L													
Arsenic	----	<0.00061	<0.00015	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	<0.0083	<0.0083	<0.0083	0.001	0.01
Barium	----	0.022	0.020	0.0228	0.0173	0.021	0.0207	0.0125	0.0218	0.0248	0.0203	0.4	2
Cadmium	----	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	69.9	60.7	----	----	----	----	----	----	----	----
Cobalt	----	<0.00061	<0.00013	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	----	**4.4**	**3.5**	**4.38**	**3.42**	**4.53**	**4.15**	<0.034	**5.87**	**10.4**	**5.44**	0.15	0.3
Lead	0.00014	<0.00061	0.0027	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0043	<0.0059	0.0015	0.015
Magnesium	----	----	----	18.4	16.5	----	----	----	----	----	----	----	----
Manganese	----	0.11	0.120	0.129	0.143	0.127	0.118	0.0054	0.158	0.133	0.145	0.060	0.300
Mercury	----	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00013	<0.00013	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	2.77	2.4	----	----	----	----	----	----	----	----
Sodium	----	----	----	7.78	6.5	----	----	----	----	----	----	----	----
Vanadium	----	<0.00061	<0.00034	<0.0012	<0.0020	<0.0020	<0.0020	<0.0022	<0.0022	<0.0022	0.0027J	0.006	0.03

Note: Please see notes provided at the end of this table.

Table 1
PW2
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/15/2009	4/29/2010	4/19/2012	5/15/2013	4/29/2014	10/16/2015	12/2/2015	4/27/2016	10/4/2016	4/21/2017	4/25/2018	4/23/2019	PAL	ES
Acetone	----	----	----	<2.6	<3.0	<3.0	----	<3.0	<3.0	<3.0	<3.0	2.9J	1800	9000
Chloromethane	<0.30	<0.30	<0.24	<0.39	<0.50	<0.50	----	<0.50	<0.50	<0.50	<0.50	4.3J	3	30
Metals, mg/L														
Arsenic	0.00058	<0.00061	0.00066	<0.0044	<0.0072	<0.0072	<0.0072	<0.0072	<0.0083	<0.0083	<0.0083	<0.0083	0.001	0.01
Barium	0.11	0.073	0.091	0.153	0.118	0.124	0.133	0.140	0.131	0.126	0.117	0.094	0.4	2
Cadmium	<0.00012	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	----	----	60	50.1	----	----	----	----	----	----	----	----	----
Cobalt	<0.00012	<0.00061	<0.00013	<0.00085	<0.00094	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	0.16	0.280	0.089	<0.0140	<0.0129	<0.0129	<0.0129	<0.0129	<0.034	0.0611J	0.177	0.117J	0.15	0.3
Lead	<0.00012	<0.00061	0.0037	<0.0012	<0.0030	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0043	<0.0059	0.0015	0.015
Magnesium	----	----	----	16.8	14.5	----	----	----	----	----	----	----	----	----
Manganese	0.054	0.050	0.190	0.209	0.158	**0.394**	0.131	0.109	**0.369**	0.132	0.172	0.0504	0.060	0.300
Mercury	<0.000065	<0.000065	<0.00070	<0.00010	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	----	----	4.11	3.21	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	7.59	5.61	----	----	----	----	----	----	----	----	----
Vanadium	<0.00012	<0.00061	<0.00034	<0.0012	<0.0020	<0.0020	<0.0020	<0.0020	<0.0022	<0.0022	<0.0022	<0.0026	0.006	0.03
Natural Attenuation Parameters, mg/L														
pH	----	U	----	7.73	----	----	----	----	----	----	----	----	----	----
Conductivity (mS/cm)	----	U	----	0.295	----	----	----	----	----	----	----	----	----	----
Temperature (C)	----	U	----	7.02	----	----	----	----	----	----	----	----	----	----
ORP (mV)	----	U	----	72.7	----	----	----	----	----	----	----	----	----	----
Dissolved Oxygen (mg/L)	----	U	----	2.84	----	----	----	----	----	----	----	----	----	----
Chloride	----	----	----	11.1	11.4	----	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	11.9	8.6	----	----	----	----	----	----	----	125	250
Total Alkalinity	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total Organic Carbon	----	----	----	-----	----	----	----	----	----	----	----	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
PW3
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	7/16/2013	4/29/2014	10/16/2015	4/27/2016	10/3/2016	4/21/2017	4/24/2019	PAL	ES
Acetone	<2.6	<3.0	<3.0	<3.0	<3.0	<3.0	2.9J	1800	9000
Toluene	0.73	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	160	800
Metals, mg/L									
Arsenic	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	<0.0083	<0.0083	0.001	0.01
Barium	0.0331	0.0259	0.0284	0.0189	0.028	0.0348	0.0252	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	65.4	----	----	----	----	----	----	----
Cobalt	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	**6.72**	**4.25**	**4**	**1.46**	**10.8**	**5.4**	**11.3**	0.15	0.3
Lead	0.0026	<0.0030	<0.0030	<0.0030	<0.0043	<0.0043	<0.0059	0.0015	0.015
Magnesium	----	16.2	----	----	----	----	----	----	----
Manganese	0.143	0.109	0.112	0.152	0.150	0.119	0.169	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	2.49	----	----	----	----	----	----	----
Sodium	----	3.79	----	----	----	----	----	----	----
Vanadium	<0.0012	<0.0020	<0.0020	<0.0020	<0.0022	<0.0022	<0.0026	0.006	0.03

Note: Please see notes provided at the end of this table.

Table 1
PW4
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	7/16/2013	4/29/2014	10/16/2015	4/27/2016	10/3/2016	4/21/2017	4/25/2018	4/23/2019	PAL	ES
Acetone	<2.6	<0.30	<3.0	<3.0	<3.0	4.1J	<3.0	3.4J	1800	9000
Toluene	0.88	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	160	800
Metals, mg/L										
Arsenic	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	<0.0083	<0.0083	<0.0083	0.001	0.01
Barium	0.0250	0.0189	0.0209	0.0166	0.0226	0.0206	0.02	0.0199	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	<0.0013	<0.0013	<0.0013	0.0005	0.005
Calcium	----	62.5	----	----	----	----	----	----	----	----
Cobalt	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	<0.0014	<0.0014	<0.0014	0.008	0.04
Iron	**6.6**	**5.49**	**4.82**	**1.43**	**4.57**	**4.12**	**7.58**	**6.83**	0.15	0.3
Lead	<0.0012	<0.0030	0.0033	0.0042	<0.0043	<0.0043	<0.0043	<0.0059	0.0015	0.015
Magnesium	----	16.3	----	----	----	----	----	----	----	----
Manganese	0.120	0.100	0.101	0.106	0.094	0.096	0.119	0.114	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	<0.00013	<0.000084	0.0002	0.002
Potassium	----	2.28	----	----	----	----	----	----	----	----
Sodium	----	5.86	----	----	----	----	----	----	----	----
Vanadium	<0.0012	<0.0020	<0.0020	<0.0020	<0.0022	<0.0022	<0.0022	0.0027J	0.006	0.03

Note: Please see notes provided at the end of this table.

Table 1
PW5
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	4/23/2019	5/14/2019	PAL	ES
Acetone	<2.7		1800	9000
Toluene	<0.17		160	800
Metals, mg/L				
Arsenic	<0.0083	<0.0083	0.001	0.01
Barium	0.0282	----	0.4	2
Cadmium	<0.0013	----	0.0005	0.005
Calcium	----	----	----	----
Cobalt	<0.0014	----	0.008	0.04
Iron	**0.799**	----	0.15	0.3
Lead	<0.0059	----	0.0015	0.015
Magnesium	----	----	----	----
Manganese	**0.368**	**0.398**	0.060	0.300
Mercury	<0.000084	----	0.0002	0.002
Potassium	----	----	----	----
Sodium	----	----	----	----
Vanadium	<0.0026	----	0.006	0.03
Natural Attenuation Parameters, mg/L				
pH	----	----	----	----
Conductivity (mS/cm)	----	----	----	----
Temperature (C)	----	----	----	----
ORP (mV)	----	----	----	----
Dissolved Oxygen (mg/L)	----	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
PW6
Summary of Detected Compounds
Onalaska Superfund Landfill

Volatile Organic Compounds (VOC), ug/L	Qualifier (HIDE)	4/23/2019	5/14/2019	PAL	ES
Acetone	U	3.9J	----	1800	9000
Toluene	U	<0.17		160	800
Metals, mg/L					
Arsenic	U	**.0147J**	<0.0083	0.001	0.01
Barium		0.0423	----	0.4	2
Cadmium	U	<0.0013	----	0.0005	0.005
Calcium		----	----	----	----
Cobalt	U	<0.0014	----	0.008	0.04
Iron		<0.0739	----	0.15	0.3
Lead		<0.0059	----	0.0015	0.015
Magnesium		----	----	----	----
Manganese		0.224	**0.407**	0.060	0.300
Mercury	U	<0.000084	----	0.0002	0.002
Potassium		----	----	----	----
Sodium		----	----	----	----
Vanadium	U	0.0028J	----	0.006	0.03
Natural Attenuation Parameters, mg/L					
pH		----		----	----
Conductivity (mS/cm)		----		----	----
Temperature (C)		----		----	----
ORP (mV)		----		----	----
Dissolved Oxygen (mg/L)		----		----	----

Note: Please see notes provided at the end of this table.

Table 1
Notes
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

For the volatile organic compound (VOC) only; the compounds reported are the only VOC that have been detected during the sampling event dates shown.

Shaded cells indicate the compound exceeds the WDNR preventive action limit (PAL).

Shaded cell and bold number indicates the compound exceeds the WDNR PAL and enforcement standard (ES).

The ES and PAL criteria for trimethylbenzene (TMB) is the sum of 1,2,4-TMB and 1,3,5-TMB.

< indicates the compound was not detected at or above the method detection limit.

--- indicates that there is no available criteria associated with the specified compound or the compound was not analyzed.

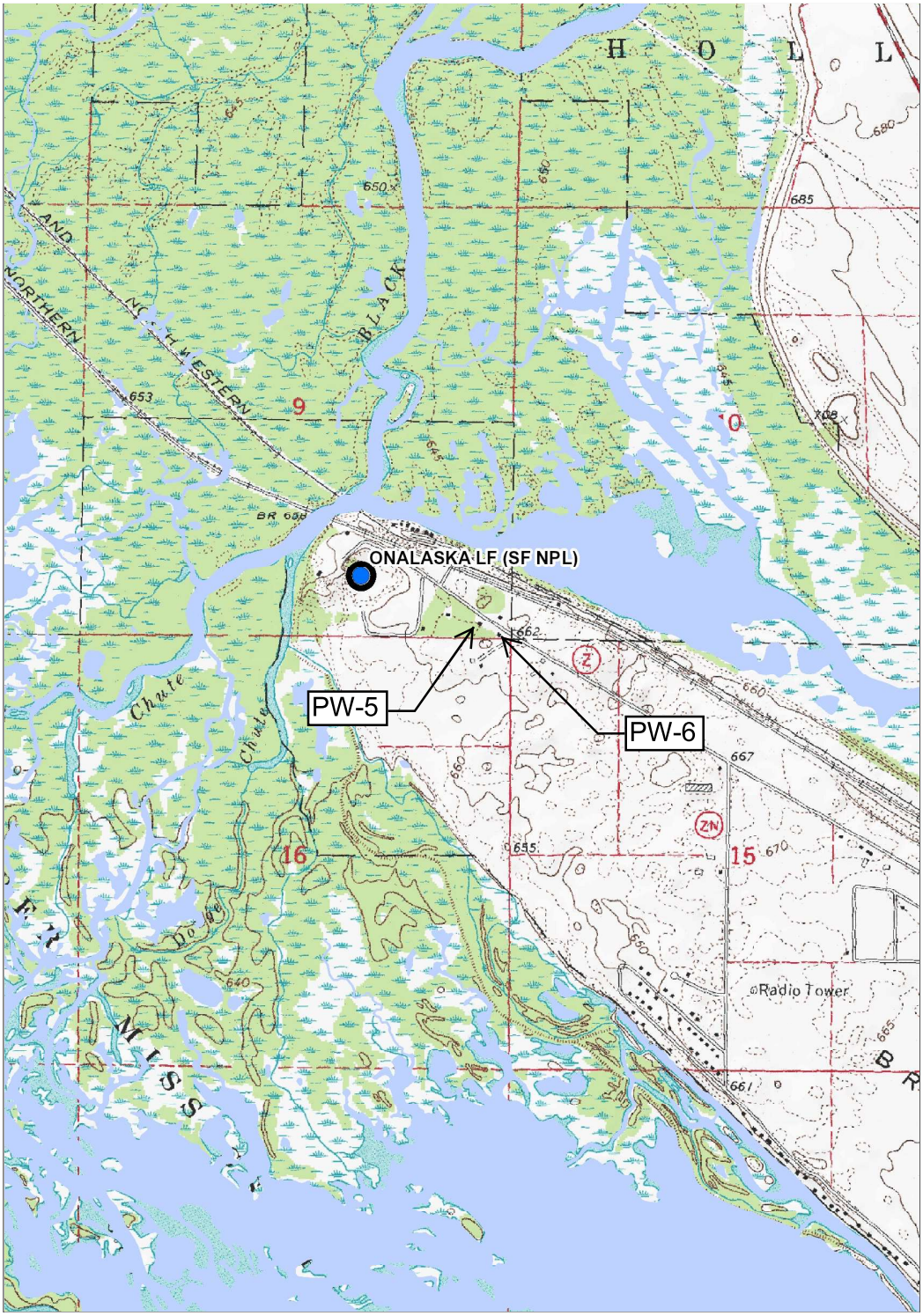
Residential wells are sampled for VOC and metals only.

Created by (beginning with 4/9/08 results):	TLR	Date:	5/6/2008
Last revision by:	SJO	Date:	1/15/2020
Checked by:	SJO	Date:	1/15/2020

C:\Users\Owner\The OS Group, LLC\John Storlie - CES-Projects\OnalaskaLandfill\[Table_1_Analytical_101619.xlsx]Notes

FIGURES

Figure 1
Site Location Map



Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands

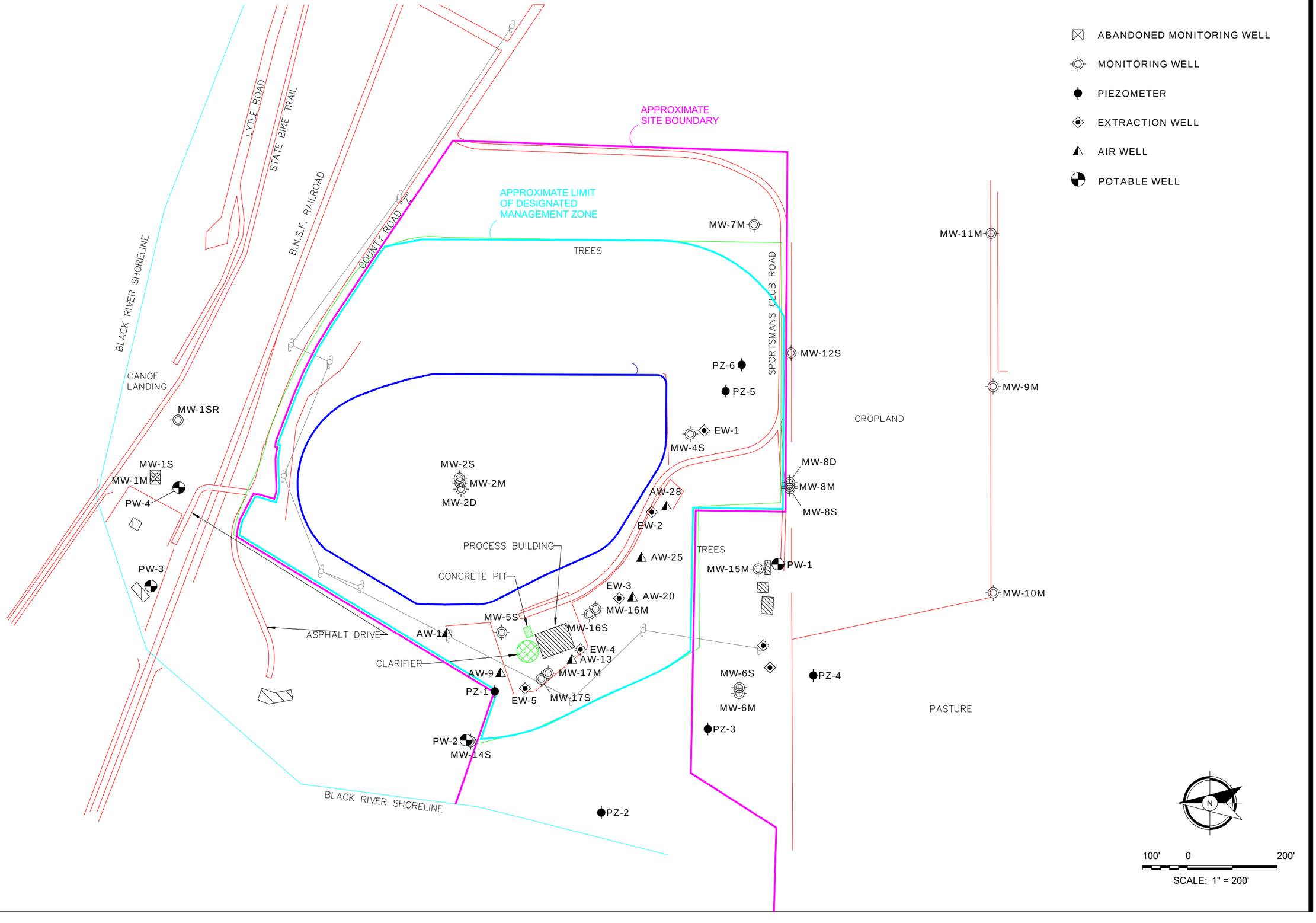
0.8 0 Distance / 2 0.8 Miles

1: 23,760

NAD_1983_HARN_Wisconsin_TM

Note: Not all sites are mapped.

Notes



OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_As_Oct18

The OS Group LLC

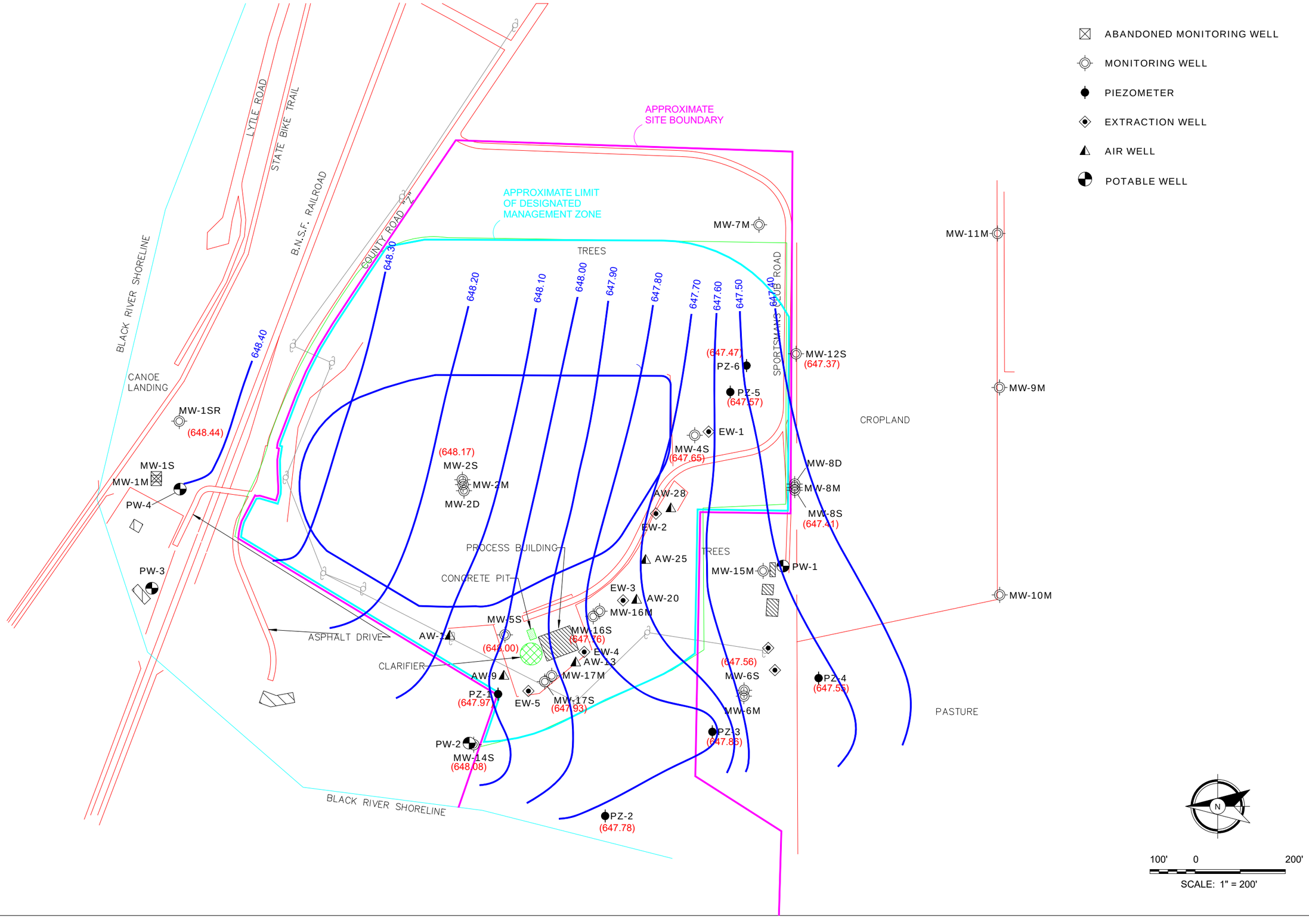
Site Plan View
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	12/12/18
Checked By:	JCS
Last Modified:	12/13/18

Sheet: 1 of 1

Fig: 2



OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_As_Oct18

The OS Group LLC

Groundwater Contour Map - Shallow - April 22, 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No: 1701119

Drawing No:

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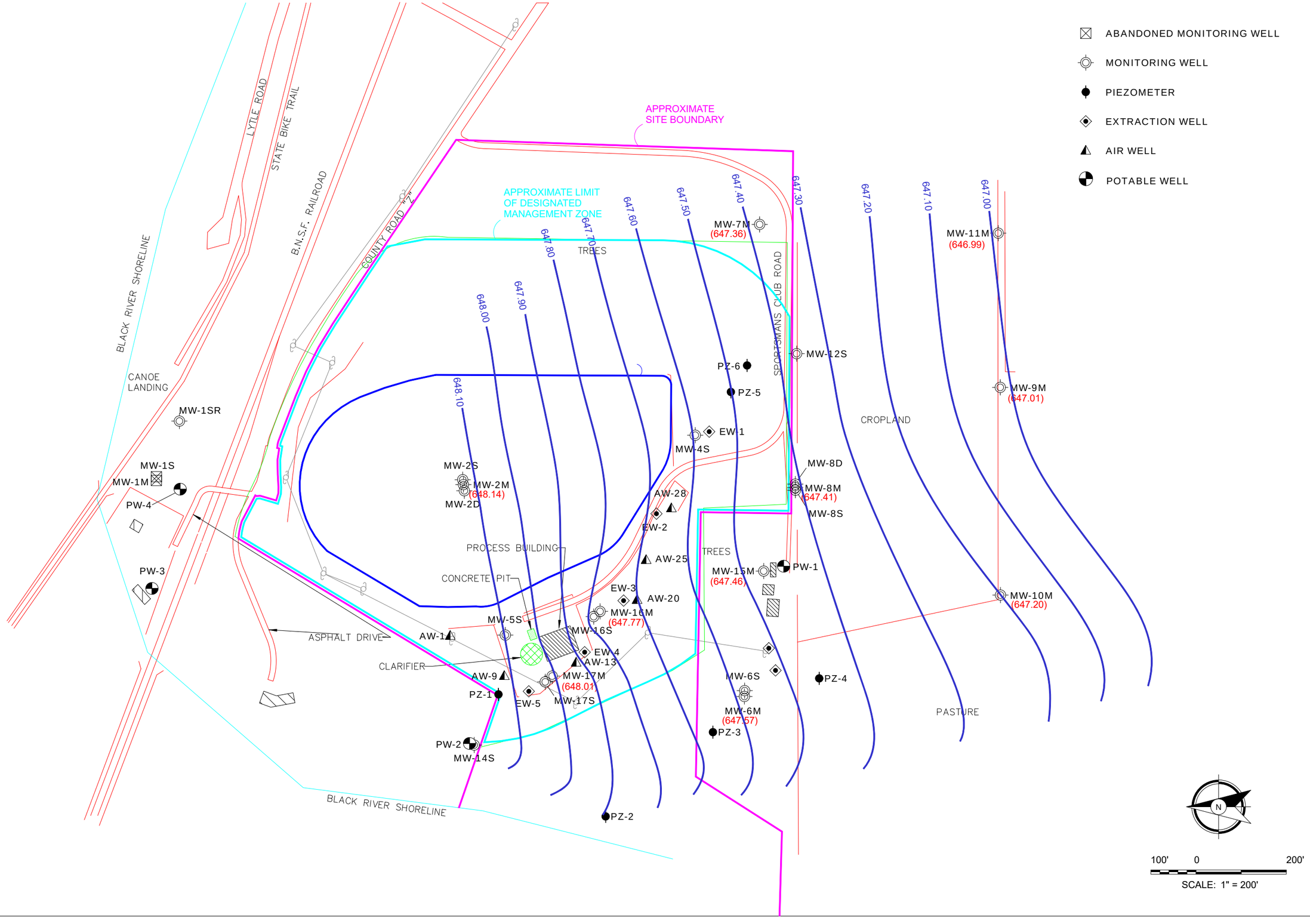
Date Drawn:	4/29/19
Checked By:	JCS
Last Modified:	4/29/19

Sheet: 1 of 1

Fig: 3



Groundwater Contour Map - Mid Depth - April 22, 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	4/29/19
Checked By:	JCS
Last Modified:	4/29/19
Sheet:	1 of 1
Fig:	4

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_As_Oct18

ABANDONED MONITORING WELL
MONITORING WELL
PIEZOMETER
EXTRACTION WELL
AIR WELL
POTABLE WELL
(645) GROUNDWATER ELEVATION

APPROXIMATE SITE BOUNDARY
APPROXIMATE LIMIT OF DESIGNATED MANAGEMENT ZONE
BLACK RIVER SHORELINE
LYTLE ROAD
STATE BIKE TRAIL
B.N.S.F. RAILROAD
COUNTY ROAD "Z"
SPORTSMANS CLUB ROAD
CANOE LANDING
TREES
CROPLAND
PASTURE
PROCESS BUILDING
CONCRETE PIT
ASPHALT DRIVE
CLARIFIER
645.80
645.70
645.60
646.00
645.90
646.10

MW-1SR (646.09)
MW-1S
MW-1M
PW-4
PW-3
MW-2S (646.13)
MW-2M
MW-2D
MW-7M
MW-11M
MW-9M
MW-10M
PZ-6 (645.77)
PZ-5 (645.85)
MW-12S (645.73)
EW-1
MW-4S (645.86)
MW-8D
MW-8M
MW-8S (645.63)
AW-28
EW-2
AW-25
MW-15M
PW-1
EW-3
AW-20
MW-16M
(645.91) MW-5S
MW-16S (645.77)
EW-4
AW-13
AW-1
AW-9
MW-17M
PZ-1 (645.81)
EW-5
MW-17S (645.84)
(645.54) MW-6S
MW-6M
PZ-4 (645.56)
PZ-3 (645.81)
PW-2
MW-14S (645.86)
PZ-2 (645.56)

100' 0 200'
SCALE: 1" = 200'

Groundwater Contour Map - Shallow - October 16, 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	12/19/19
Checked By:	JCS
Last Modified:	12/20/19
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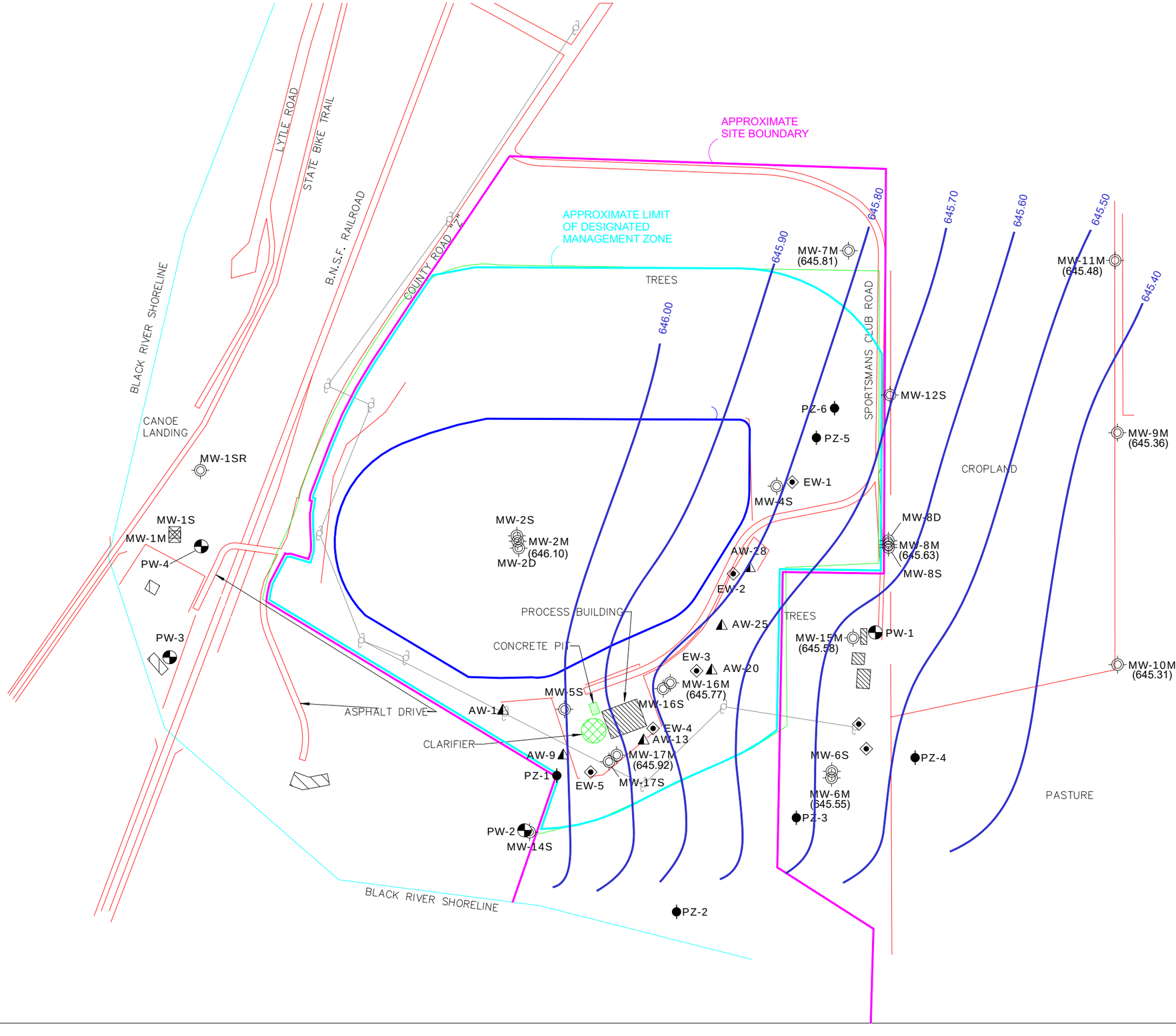
Fig:	5

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_S_Oct18



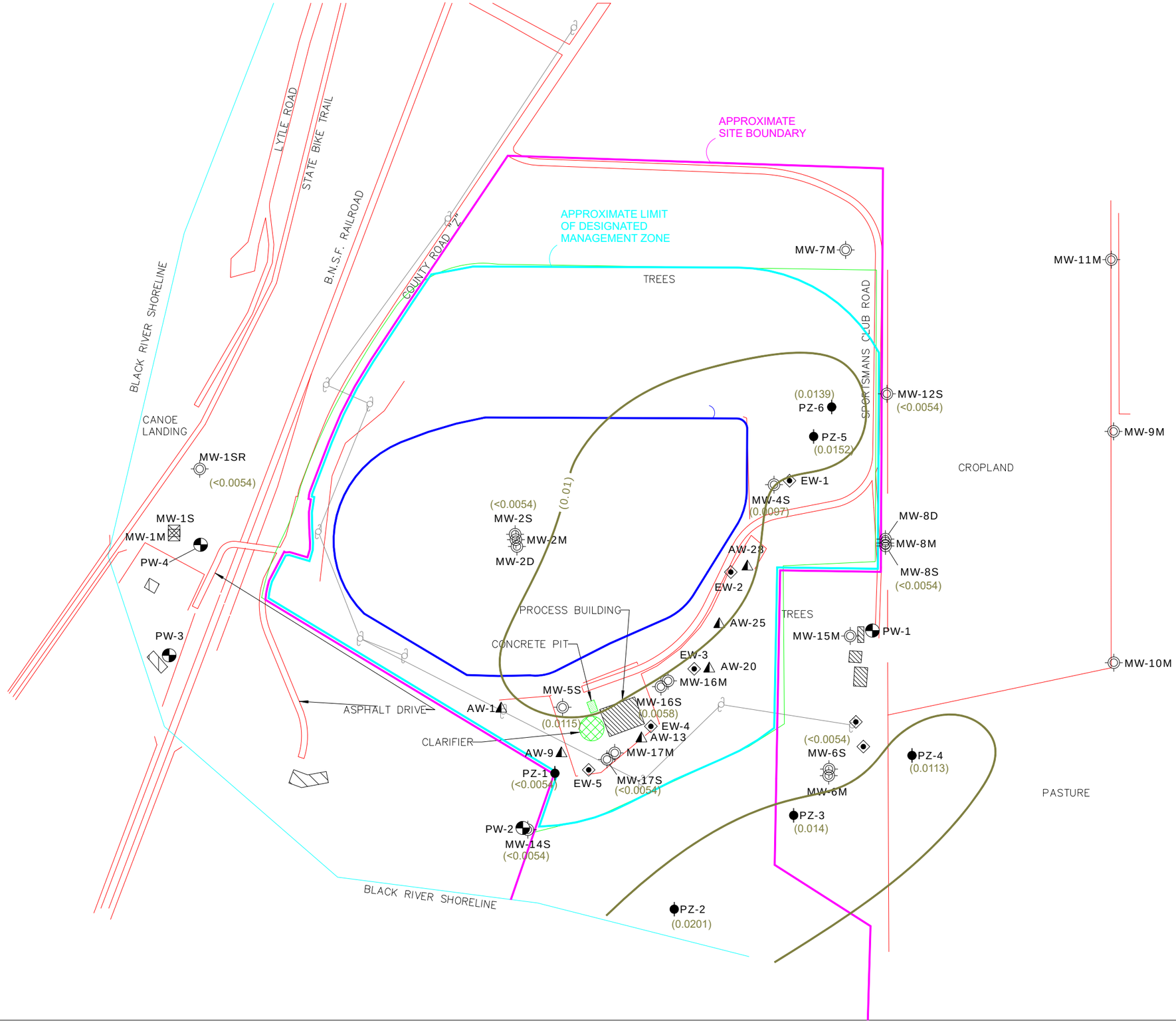
ABANDONED MONITORING WELL
MONITORING WELL
PIEZOMETER
EXTRACTION WELL
AIR WELL
POTABLE WELL
(645) GROUNDWATER ELEVATION

Groundwater Contour Map - Mid Depth - October 16, 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	12/19/19
Checked By:	JCS
Last Modified:	12/20/19
Sheet:	1 of 1
Fig:	6

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_M_Oct18



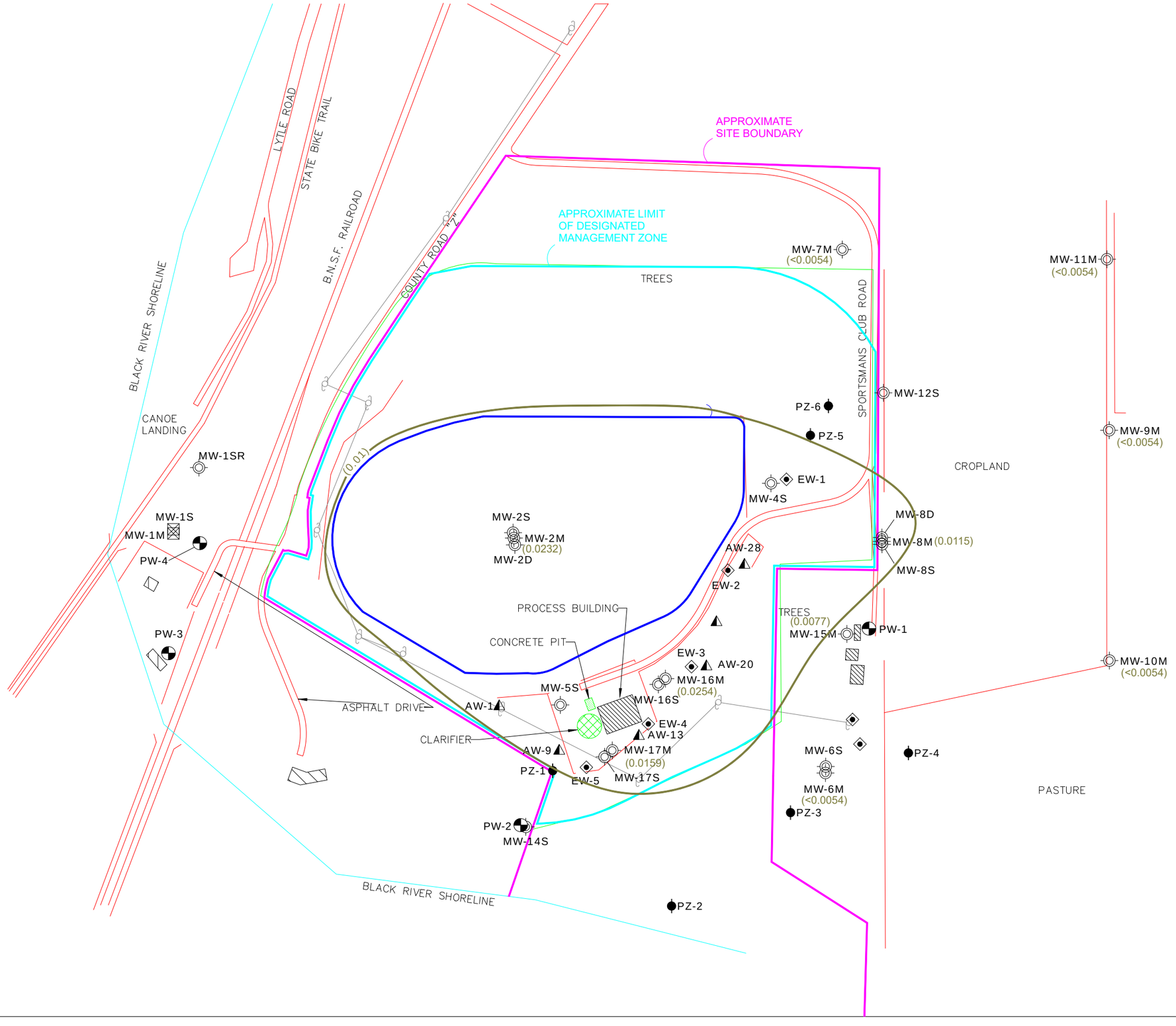
Groundwater Arsenic Isoconcentration - Shallow - April 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

The OS Group LLC

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	05/10/19
Checked By:	JCS
Last Modified:	05/10/19
Sheet:	1 of 1
Fig:	7

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_Sh_As_Apr18



ABANDONED MONITORING WELL

MONITORING WELL

PIEZOMETER

EXTRACTION WELL

AIR WELL

POTABLE WELL

(0.01) ARSENIC CONCENTRATION (mg/l)

Note: NR 140 Enforcement Standard for Arsenic is 0.01 mg/l

The OS Group LLC

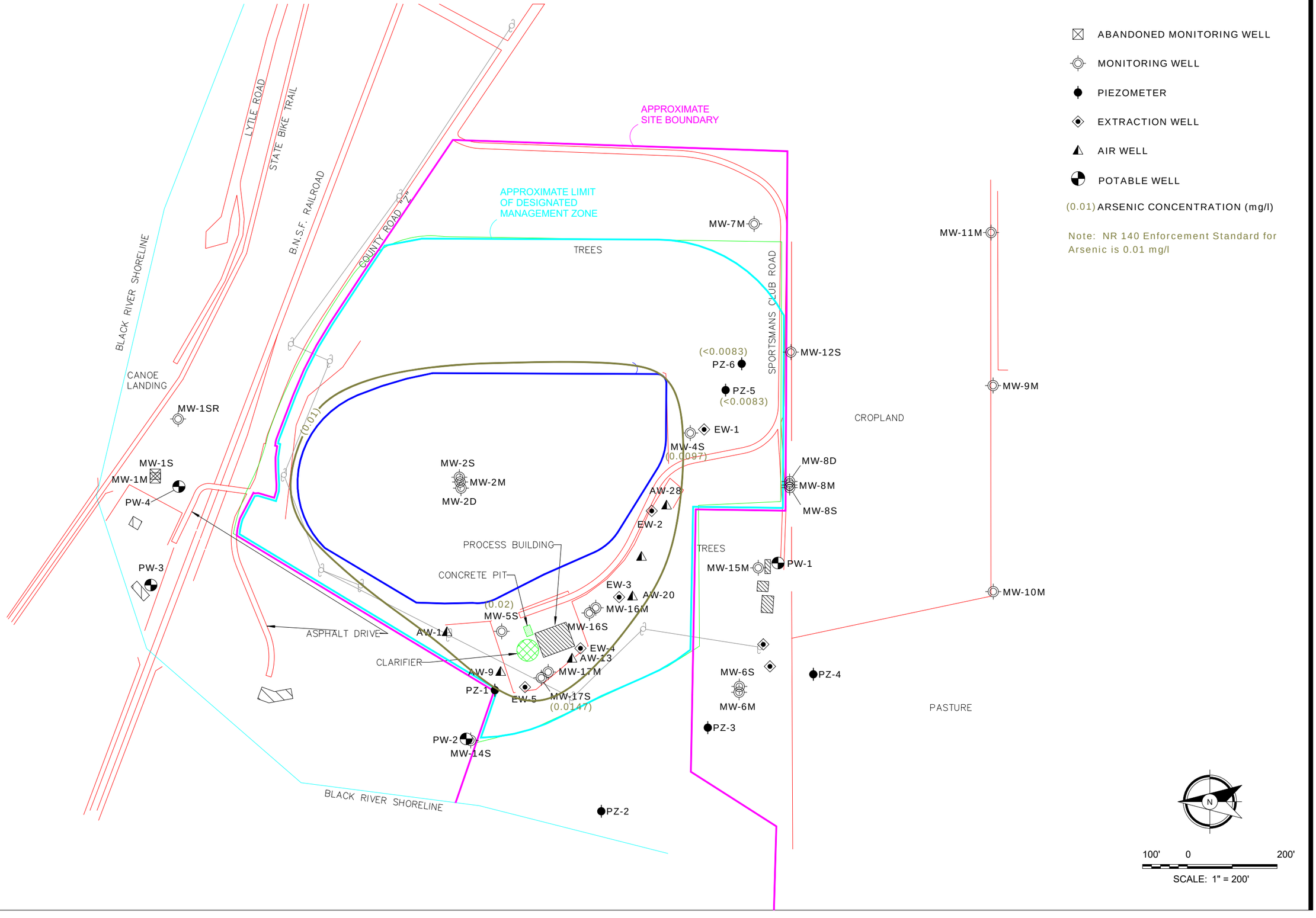
Groundwater Arsenic Isoconcentration - Mid Depth - April 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	05/10/19
Checked By:	JCS
Last Modified:	05/10/19

Sheet: 1 of 1 | Fig: 8

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_M_As_Apr18



Groundwater Arsenic Isoncentration - Shallow - October 16, 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

The OS Group LLC

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

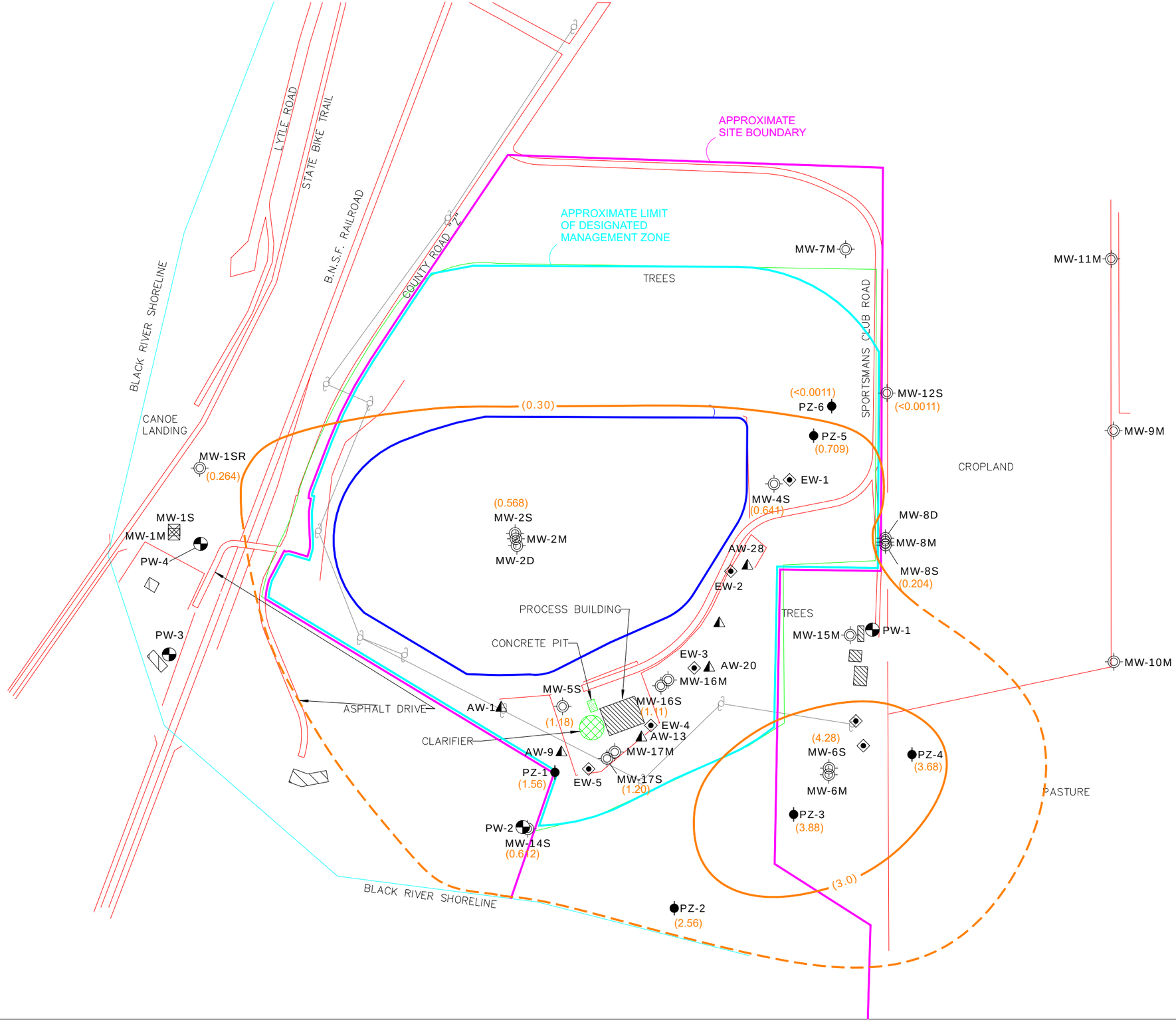
Project No: 1701119

Drawing No:

Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	12/19/19
Checked By:	JCS
Last Modified:	12/20/19

Sheet: 1 of 1 | Fig: 9

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_As_Oct18



The OS Group LLC

Groundwater Manganese Isoconcentration - Shallow - April 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No: 1701119

Drawing No:

Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	05/10/19
Checked By:	JCS
Last Modified:	05/10/19

Sheet: 1 of 1 Fig: 10

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_S_Mn_Apr18

ABANDONED MONITORING WELL
MONITORING WELL
PIEZOMETER
EXTRACTION WELL
AIR WELL
POTABLE WELL
(2.27) MANGANESE CONCENTRATION (mg/l)

Note: NR 140 Enforcement Standard for Manganese is 0.3 mg/l

APPROXIMATE SITE BOUNDARY
APPROXIMATE LIMIT OF DESIGNATED MANAGEMENT ZONE
(1.0)
(2.0)
BLACK RIVER SHORELINE
LYTLE ROAD
STATE BIKE TRAIL
B.N.S.F. RAILROAD
COUNTY ROAD "Z"
SPORTSMANS CLUB ROAD
CANOE LANDING
TREES
CROPLAND
PASTURE
PROCESS BUILDING
CONCRETE PIT
ASPHALT DRIVE
CLARIFIER
MW-1SR
MW-1S
MW-1M
PW-4
PW-3
MW-2S
MW-2M (1.210)
MW-2D
MW-4S
EW-1
MW-5S
MW-16S
MW-16M (1.40)
MW-17M (0.875)
MW-17S
EW-2
EW-3
EW-4
AW-1
AW-9
AW-13
AW-20
AW-28
PZ-1
PZ-2
PZ-3
PZ-4
PZ-5
PZ-6
EW-5
PW-2
MW-14S
MW-6S
MW-6M (3.19)
MW-7M (0.753)
MW-8D
MW-8M (2.27)
MW-8S
MW-9M (0.866)
MW-10M (1.74)
MW-11M (1.20)
MW-12S
MW-15M (2.00)
PW-1

100' 0 200'
SCALE: 1" = 200'

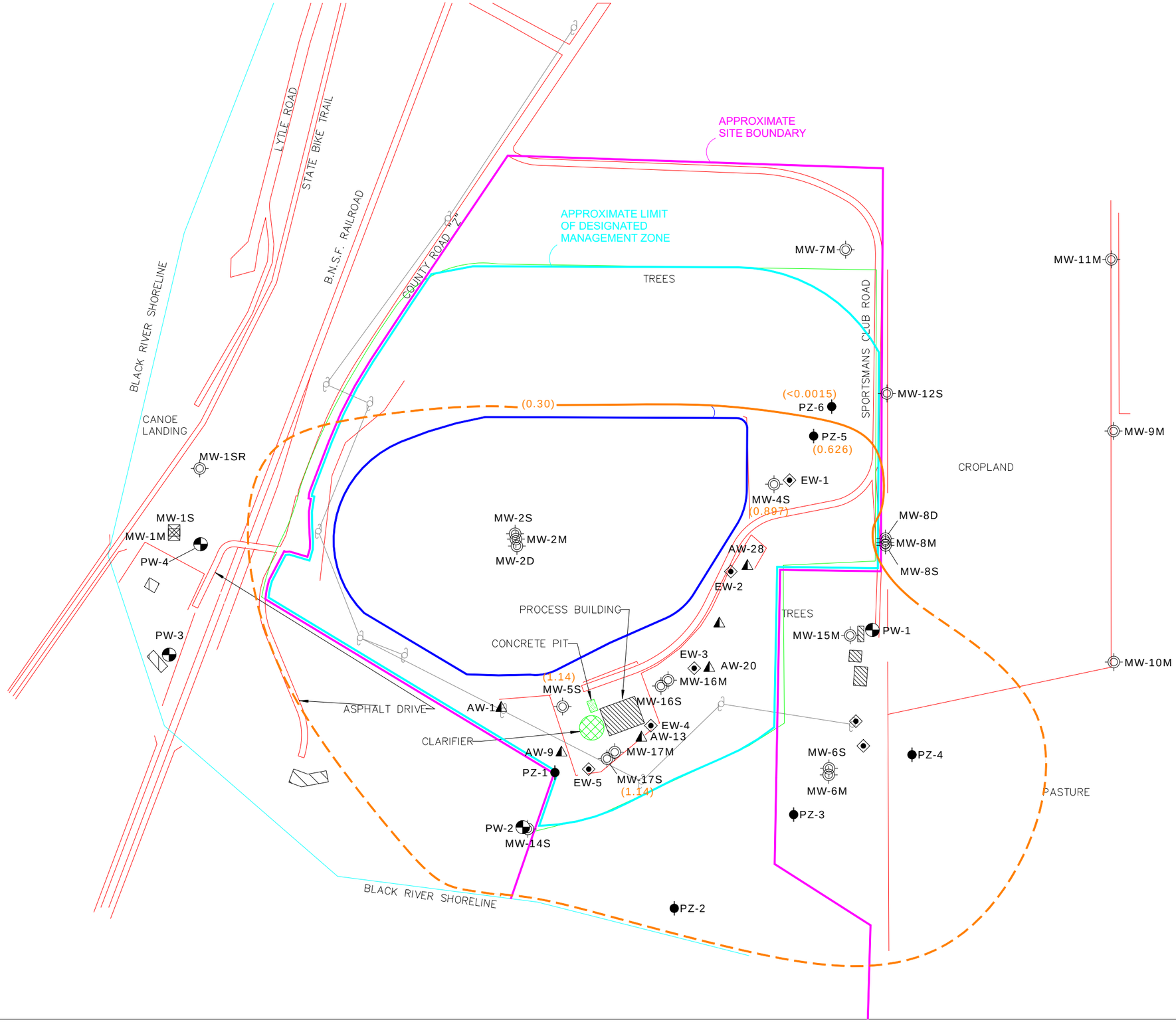
Groundwater Manganese Isoconcentration - Mid Depth - April 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	05/10/19
Checked By:	JCS
Last Modified:	05/10/19
Sheet:	1 of 1
Fig:	11

The OS Group LLC

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_M_Mn_Apr18



Groundwater Manganese Isoncentration - Shallow - October 16, 2019
Onalaska Municipal Landfill
Sportsman Club Road
Onalaska, WI

Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

Project No:	1701119
Drawing No:	
Scale:	1" = 200'
Drawn By:	SJO
Date Drawn:	12/19/19
Checked By:	JCS
Last Modified:	12/20/19
Sheet:	1 of 1
Fig:	12

OnalaskaLandfill\WDNR_CADD\Onalaska_Landfill2\GW_As_Oct18

APPENDIX A

GROUNDWATER SAMPLING SCHEDULE

APPENDIX B

Laboratory Analytical Results

APPENDIX C

Air Injection Header Piping and Well Location Plan

APPENDIX A

GROUNDWATER SAMPLING SCHEDULE

APPENDIX A

Groundwater Sampling Schedule – Onalaska Landfill

Sampling shall be conducted in April and October of this contract extension year according to the following schedule. The first round of sampling shall be conducted no later than April 30, 2019. Wells to be sampled for VOCs, metals, alkalinity (April rounds only), total organic carbon, and field parameters are:

April & Oct:	MW-4S, MW-5S, MW-17S, PZ-5, PZ-6
April:	MW-6S, MW-6M, MW-8S, MW-8M, MW-12S, MW-14S, MW-16S, MW-16M

Wells to be sampled for metals, alkalinity, total organic carbon, and field parameters only (no VOCs, except as noted below for 2022) are:

April:	MW-1SR, MW-2S, MW-2M, MW-7M, MW-9M, MW-10M, MW-11M, MW-15M, MW-17M, PZ-1, PZ-2, PZ-3, PZ-4

Wells to be sampled for VOCs, alkalinity, total organic carbon, and field parameters at 5-year intervals:

April 2022:	MW-2S, MW-2M, MW-7M, MW-9M, MW-11M, MW-15M, MW-17M, PZ-1, PZ-2, PZ-3, PZ-4

Samples for metals analysis shall be field filtered. Field natural attenuation parameters (ORP, dissolved oxygen, pH, specific conductance, and temperature) shall be measured using a down-hole instrument or a flow-through cell, in all monitoring wells from which VOC or metals samples are scheduled to be collected. Groundwater elevations are to be collected in all sampling rounds at the above listed wells.

Up to six nearby private water supply wells shall be sampled during the April rounds of sampling for VOCs and metals only. The purpose of private water supply sampling is to assure protectiveness. Well construction and property owner information will be provided. The contractor will be responsible for access arrangements.

APPENDIX B

Laboratory Analytical Results

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 09, 2019

Steve Osesek
The OS Group, LLC
N6746 McCurdy Road
Holmen, WI 54636

RE: Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Dear Steve Osesek:
Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: John Storlie, The OS Group, LLC

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40186580001	MW-1SR	Water	04/22/19 13:30	04/26/19 09:55
40186580002	MW-2S	Water	04/25/19 11:50	04/26/19 09:55
40186580003	MW-2M	Water	04/25/19 12:10	04/26/19 09:55
40186580004	MW-4S	Water	04/24/19 17:00	04/26/19 09:55
40186580005	MW-5S	Water	04/24/19 13:35	04/26/19 09:55
40186580006	MW-6S	Water	04/22/19 16:45	04/26/19 09:55
40186580007	MW-6M	Water	04/23/19 11:15	04/26/19 09:55
40186580008	MW-7M	Water	04/22/19 13:00	04/26/19 09:55
40186580009	MW-8S	Water	04/22/19 14:50	04/26/19 09:55
40186580010	MW-8M	Water	04/22/19 15:10	04/26/19 09:55
40186580011	MW-9M	Water	04/23/19 15:30	04/26/19 09:55
40186580012	MW-10M	Water	04/23/19 15:00	04/26/19 09:55
40186580013	MW-11M	Water	04/24/19 11:05	04/26/19 09:55
40186580014	MW-12S	Water	04/23/19 17:30	04/26/19 09:55
40186580015	MW-14S	Water	04/24/19 12:40	04/26/19 09:55
40186580016	MW-15M	Water	04/23/19 10:50	04/26/19 09:55
40186580017	MW-16S	Water	04/24/19 15:35	04/26/19 09:55
40186580018	MW-16M	Water	04/24/19 16:05	04/26/19 09:55
40186580019	MW-17S	Water	04/24/19 14:20	04/26/19 09:55
40186580020	MW-17M	Water	04/24/19 14:35	04/26/19 09:55
40186580021	PZ-1	Water	04/24/19 12:10	04/26/19 09:55
40186580022	PZ-2	Water	04/23/19 13:45	04/26/19 09:55
40186580023	PZ-3	Water	04/23/19 12:45	04/26/19 09:55
40186580024	PZ-4	Water	04/23/19 14:30	04/26/19 09:55
40186580025	PZ-5	Water	04/25/19 10:30	04/26/19 09:55
40186580026	PZ-6	Water	04/25/19 10:10	04/26/19 09:55
40186580027	PW-1	Water	04/23/19 18:30	04/26/19 09:55
40186580028	PW-2	Water	04/23/19 18:10	04/26/19 09:55
40186580029	PW-3	Water	04/24/19 17:40	04/26/19 09:55
40186580030	PW-4	Water	04/23/19 17:50	04/26/19 09:55
40186580031	PW-5	Water	04/23/19 19:00	04/26/19 09:55
40186580032	PW-6	Water	04/23/19 19:10	04/26/19 09:55
40186580033	MW-16S DUP	Water	04/24/19 15:40	04/26/19 09:55
40186580034	MW-4S DUP	Water	04/24/19 17:05	04/26/19 09:55
40186580035	PZ-6 DUP	Water	04/25/19 10:15	04/26/19 09:55
40186580036	MW-2S DUP	Water	04/25/19 11:55	04/26/19 09:55
40186580037	TRIP BLANK	Water	04/22/19 12:30	04/26/19 09:55

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40186580038	**MW-8D**	Water	04/22/19 00:00	04/26/19 09:55

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40186580001	**MW-1SR**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580002	**MW-2S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580003	**MW-2M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580004	**MW-4S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580005	**MW-5S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580006	**MW-6S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580007	**MW-6M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580008	**MW-7M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580009	**MW-8S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580010	**MW-8M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580011	**MW-9M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580012	**MW-10M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580013	**MW-11M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580014	**MW-12S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G

Pace Analytical Services, LLC
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Green Bay, WI 54302
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SAMPLE ANALYTE COUNT

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580015	**MW-14S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580016	**MW-15M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580017	**MW-16S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580018	**MW-16M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580019	**MW-17S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580020	**MW-17M**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40186580021	**PZ-1**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580022	**PZ-2**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580023	**PZ-3**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580024	**PZ-4**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580025	**PZ-5**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580026	**PZ-6**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580027	**PW-1**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
40186580028	**PW-2**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	LAP	57	PASI-G
40186580029	**PW-3**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
40186580030	**PW-4**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
40186580031	**PW-5**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
40186580032	**PW-6**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
40186580033	**MW-16S DUP**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580034	**MW-4S DUP**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580035	**PZ-6 DUP**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	LAP	57	PASI-G
			CDH	6	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40186580036	**MW-2S DUP**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
			CDH	6	PASI-G
40186580037	**TRIP BLANK**	EPA 8260	LAP	57	PASI-G
40186580038	**MW-8D**		CDH	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-1SR **Lab ID: 40186580001** Collected: 04/22/19 13:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:22	7440-38-2	
Barium, Dissolved	**21.1**	ug/L	5.0	1.5	1		05/02/19 13:22	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:22	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:22	7440-48-4	
Iron, Dissolved	**307**	ug/L	118	35.4	1		05/02/19 13:22	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:22	7439-92-1	
Manganese, Dissolved	**264**	ug/L	5.0	1.1	1		05/02/19 13:22	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:22	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.17J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:09	7439-97-6	B
Field Data	Analytical Method:								
Field pH	**7.22**	Std. Units			1		04/22/19 13:30		
Field Specific Conductance	**145**	umhos/cm			1		04/22/19 13:30		
Oxygen, Dissolved	**1.75**	mg/L			1		04/22/19 13:30	7782-44-7	
REDOX	**-41.2**	mV			1		04/22/19 13:30		
Static Water Level	**648.44**	feet			1		04/22/19 13:30		
Temperature, Water (C)	**7.80**	deg C			1		04/22/19 13:30		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**90.1**	mg/L	23.5	7.0	1		05/06/19 09:56		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**4.4**	mg/L	1.7	0.51	2		05/02/19 15:58	7440-44-0	
Total Organic Carbon	**4.3**	mg/L	1.7	0.51	2		05/02/19 15:58	7440-44-0	
Total Organic Carbon	**4.4**	mg/L	1.7	0.51	2		05/02/19 15:58	7440-44-0	
Total Organic Carbon	**4.4**	mg/L	1.7	0.51	2		05/02/19 15:58	7440-44-0	
Mean Total Organic Carbon	**4.4**	mg/L	1.7	0.51	2		05/02/19 15:58	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-2S **Lab ID: 40186580002** Collected: 04/25/19 11:50 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:29	7440-38-2	
Barium, Dissolved	**69.9**	ug/L	5.0	1.5	1		05/02/19 13:29	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:29	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:29	7440-48-4	
Iron, Dissolved	**19300**	ug/L	118	35.4	1		05/02/19 13:29	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:29	7439-92-1	
Manganese, Dissolved	**568**	ug/L	5.0	1.1	1		05/02/19 13:29	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:29	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.17J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:16	7439-97-6	B
Field Data	Analytical Method:								
Field pH	**6.67**	Std. Units			1		04/25/19 11:50		
Field Specific Conductance	**272**	umhos/cm			1		04/25/19 11:50		
Oxygen, Dissolved	**0.37**	mg/L			1		04/25/19 11:50	7782-44-7	
REDOX	**-110.1**	mV			1		04/25/19 11:50		
Static Water Level	**648.17**	feet			1		04/25/19 11:50		
Temperature, Water (C)	**10.64**	deg C			1		04/25/19 11:50		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**120**	mg/L	23.5	7.0	1		05/03/19 12:50		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**4.3**	mg/L	1.7	0.51	2		05/02/19 16:40	7440-44-0	
Total Organic Carbon	**4.4**	mg/L	1.7	0.51	2		05/02/19 16:40	7440-44-0	
Total Organic Carbon	**4.3**	mg/L	1.7	0.51	2		05/02/19 16:40	7440-44-0	
Total Organic Carbon	**4.4**	mg/L	1.7	0.51	2		05/02/19 16:40	7440-44-0	
Mean Total Organic Carbon	**4.4**	mg/L	1.7	0.51	2		05/02/19 16:40	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-2M **Lab ID: 40186580003** Collected: 04/25/19 12:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**23.2J**	ug/L	25.0	5.4	1		05/02/19 13:32	7440-38-2	
Barium, Dissolved	**688**	ug/L	5.0	1.5	1		05/02/19 13:32	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:32	7440-43-9	
Cobalt, Dissolved	**1.8J**	ug/L	5.0	1.4	1		05/02/19 13:32	7440-48-4	
Iron, Dissolved	**13700**	ug/L	118	35.4	1		05/02/19 13:32	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:32	7439-92-1	
Manganese, Dissolved	**1210**	ug/L	5.0	1.1	1		05/02/19 13:32	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:32	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.17J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:23	7439-97-6	B
Field Data	Analytical Method:								
Field pH	**7.36**	Std. Units			1		04/25/19 12:10		
Field Specific Conductance	**311**	umhos/cm			1		04/25/19 12:10		
Oxygen, Dissolved	**0.09**	mg/L			1		04/25/19 12:10	7782-44-7	
REDOX	**-196.4**	mV			1		04/25/19 12:10		
Static Water Level	**648.14**	feet			1		04/25/19 12:10		
Temperature, Water (C)	**10.38**	deg C			1		04/25/19 12:10		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**172**	mg/L	23.5	7.0	1		05/03/19 12:50		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/02/19 17:21	7440-44-0	
Total Organic Carbon	**3.7**	mg/L	0.85	0.25	1		05/02/19 17:21	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/02/19 17:21	7440-44-0	
Total Organic Carbon	**3.7**	mg/L	0.85	0.25	1		05/02/19 17:21	7440-44-0	
Mean Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/02/19 17:21	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-4S **Lab ID: 40186580004** Collected: 04/24/19 17:00 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**9.7J**	ug/L	25.0	5.4	1		05/02/19 13:34	7440-38-2	
Barium, Dissolved	**225**	ug/L	5.0	1.5	1		05/02/19 13:34	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:34	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:34	7440-48-4	
Iron, Dissolved	**9750**	ug/L	118	35.4	1		05/02/19 13:34	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:34	7439-92-1	
Manganese, Dissolved	**641**	ug/L	5.0	1.1	1		05/02/19 13:34	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:34	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.17J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:25	7439-97-6	B
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 07:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 07:01	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 07:01	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 07:01	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 07:01	75-35-4	
1,2,4-Trimethylbenzene	**174**	ug/L	2.8	0.84	1		05/01/19 07:01	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 07:01	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 07:01	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 07:01	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 07:01	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 07:01	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 07:01	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 07:01	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 07:01	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 07:01	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 07:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 07:01	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		05/01/19 07:01	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 07:01	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 07:01	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 07:01	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 07:01	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 07:01	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 07:01	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 07:01	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 07:01	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 07:01	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 07:01	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 07:01	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 07:01	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 07:01	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 07:01	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 07:01	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-4S **Lab ID: 40186580004** Collected: 04/24/19 17:00 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**4.7J**	ug/L	5.0	0.39	1		05/01/19 07:01	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 07:01	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 07:01	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 07:01	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 07:01	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 07:01	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 07:01	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 07:01	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 07:01	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 07:01	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 07:01	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 07:01	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 07:01	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 07:01	10061-01-5	
n-Butylbenzene	**4.1**	ug/L	2.4	0.71	1		05/01/19 07:01	104-51-8	
n-Propylbenzene	**8.6**	ug/L	5.0	0.81	1		05/01/19 07:01	103-65-1	
p-Isopropyltoluene	**5.8**	ug/L	2.7	0.80	1		05/01/19 07:01	99-87-6	
sec-Butylbenzene	**12.3**	ug/L	5.0	0.85	1		05/01/19 07:01	135-98-8	
tert-Butylbenzene	**1.4**	ug/L	1.0	0.30	1		05/01/19 07:01	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 07:01	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 07:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		05/01/19 07:01	460-00-4	
Dibromofluoromethane (S)	120	%	70-130		1		05/01/19 07:01	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/01/19 07:01	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.00**	Std. Units			1		04/24/19 17:00		
Field Specific Conductance	**335**	umhos/cm			1		04/24/19 17:00		
Oxygen, Dissolved	**0.21**	mg/L			1		04/24/19 17:00	7782-44-7	
REDOX	**-131.0**	mV			1		04/24/19 17:00		
Static Water Level	**647.65**	feet			1		04/24/19 17:00		
Temperature, Water (C)	**9.58**	deg C			1		04/24/19 17:00		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**206**	mg/L	23.5	7.0	1		05/03/19 12:38		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/02/19 18:03	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/02/19 18:03	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/02/19 18:03	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/02/19 18:03	7440-44-0	
Mean Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/02/19 18:03	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-5S **Lab ID: 40186580005** Collected: 04/24/19 13:35 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**11.5J**	ug/L	25.0	5.4	1		05/02/19 13:36	7440-38-2	
Barium, Dissolved	**242**	ug/L	5.0	1.5	1		05/02/19 13:36	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:36	7440-43-9	
Cobalt, Dissolved	**2.9J**	ug/L	5.0	1.4	1		05/02/19 13:36	7440-48-4	
Iron, Dissolved	**19600**	ug/L	118	35.4	1		05/02/19 13:36	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:36	7439-92-1	
Manganese, Dissolved	**1180**	ug/L	5.0	1.1	1		05/02/19 13:36	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:36	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.16J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:28	7439-97-6	B
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		05/01/19 00:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		05/01/19 00:41	79-34-5	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		05/01/19 00:41	79-00-5	
1,1-Dichloroethane	**<2.7**	ug/L	10.0	2.7	10		05/01/19 00:41	75-34-3	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		05/01/19 00:41	75-35-4	
1,2,4-Trimethylbenzene	**538**	ug/L	28.0	8.4	10		05/01/19 00:41	95-63-6	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		05/01/19 00:41	96-12-8	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		05/01/19 00:41	106-93-4	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		05/01/19 00:41	95-50-1	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		05/01/19 00:41	107-06-2	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		05/01/19 00:41	78-87-5	
1,3,5-Trimethylbenzene	**<8.7**	ug/L	29.1	8.7	10		05/01/19 00:41	108-67-8	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		05/01/19 00:41	541-73-1	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		05/01/19 00:41	106-46-7	
2-Butanone (MEK)	**<29.4**	ug/L	200	29.4	10		05/01/19 00:41	78-93-3	
2-Hexanone	**<24.6**	ug/L	81.9	24.6	10		05/01/19 00:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<15.3**	ug/L	51.0	15.3	10		05/01/19 00:41	108-10-1	
Acetone	**<27.4**	ug/L	200	27.4	10		05/01/19 00:41	67-64-1	
Benzene	**<2.5**	ug/L	10.0	2.5	10		05/01/19 00:41	71-43-2	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		05/01/19 00:41	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		05/01/19 00:41	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		05/01/19 00:41	74-83-9	
Carbon disulfide	**<3.7**	ug/L	50.0	3.7	10		05/01/19 00:41	75-15-0	
Carbon tetrachloride	**<1.7**	ug/L	10.0	1.7	10		05/01/19 00:41	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		05/01/19 00:41	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		05/01/19 00:41	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		05/01/19 00:41	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		05/01/19 00:41	74-87-3	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		05/01/19 00:41	124-48-1	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		05/01/19 00:41	74-95-3	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		05/01/19 00:41	75-71-8	
Ethylbenzene	**<2.2**	ug/L	10.0	2.2	10		05/01/19 00:41	100-41-4	
Hexachloro-1,3-butadiene	**<11.8**	ug/L	50.0	11.8	10		05/01/19 00:41	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-5S **Lab ID: 40186580005** Collected: 04/24/19 13:35 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**20.7J**	ug/L	50.0	3.9	10		05/01/19 00:41	98-82-8	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		05/01/19 00:41	1634-04-4	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		05/01/19 00:41	75-09-2	
Naphthalene	**13.3J**	ug/L	50.0	11.8	10		05/01/19 00:41	91-20-3	
Styrene	**<4.7**	ug/L	15.5	4.7	10		05/01/19 00:41	100-42-5	
Tetrachloroethene	**<3.3**	ug/L	10.9	3.3	10		05/01/19 00:41	127-18-4	
Tetrahydrofuran	**<23.2**	ug/L	200	23.2	10		05/01/19 00:41	109-99-9	
Toluene	**2.2J**	ug/L	50.0	1.7	10		05/01/19 00:41	108-88-3	
Trichloroethene	**<2.6**	ug/L	10.0	2.6	10		05/01/19 00:41	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		05/01/19 00:41	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		05/01/19 00:41	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		05/01/19 00:41	1330-20-7	
cis-1,2-Dichloroethene	**<2.7**	ug/L	10.0	2.7	10		05/01/19 00:41	156-59-2	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		05/01/19 00:41	10061-01-5	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		05/01/19 00:41	104-51-8	
n-Propylbenzene	**46.1J**	ug/L	50.0	8.1	10		05/01/19 00:41	103-65-1	
p-Isopropyltoluene	**9.1J**	ug/L	26.7	8.0	10		05/01/19 00:41	99-87-6	
sec-Butylbenzene	**10.0J**	ug/L	50.0	8.5	10		05/01/19 00:41	135-98-8	
tert-Butylbenzene	**15.6**	ug/L	10.1	3.0	10		05/01/19 00:41	98-06-6	
trans-1,2-Dichloroethene	**<10.9**	ug/L	36.4	10.9	10		05/01/19 00:41	156-60-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		05/01/19 00:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		10		05/01/19 00:41	460-00-4	
Dibromofluoromethane (S)	127	%	70-130		10		05/01/19 00:41	1868-53-7	
Toluene-d8 (S)	95	%	70-130		10		05/01/19 00:41	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.82**	Std. Units			1		04/24/19 13:35		
Field Specific Conductance	**352**	umhos/cm			1		04/24/19 13:35		
Oxygen, Dissolved	**0.53**	mg/L			1		04/24/19 13:35	7782-44-7	
REDOX	**-107.0**	mV			1		04/24/19 13:35		
Static Water Level	**648.00**	feet			1		04/24/19 13:35		
Temperature, Water (C)	**8.95**	deg C			1		04/24/19 13:35		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**250**	mg/L	23.5	7.0	1		05/03/19 12:39		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**5.6**	mg/L	5.1	1.5	6		05/02/19 18:44	7440-44-0	
Total Organic Carbon	**5.8**	mg/L	5.1	1.5	6		05/02/19 18:44	7440-44-0	
Total Organic Carbon	**5.8**	mg/L	5.1	1.5	6		05/02/19 18:44	7440-44-0	
Total Organic Carbon	**5.7**	mg/L	5.1	1.5	6		05/02/19 18:44	7440-44-0	
Mean Total Organic Carbon	**5.7**	mg/L	5.1	1.5	6		05/02/19 18:44	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-6S **Lab ID: 40186580006** Collected: 04/22/19 16:45 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:39	7440-38-2	
Barium, Dissolved	**284**	ug/L	5.0	1.5	1		05/02/19 13:39	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:39	7440-43-9	
Cobalt, Dissolved	**1.9J**	ug/L	5.0	1.4	1		05/02/19 13:39	7440-48-4	
Iron, Dissolved	**162**	ug/L	118	35.4	1		05/02/19 13:39	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:39	7439-92-1	
Manganese, Dissolved	**4280**	ug/L	5.0	1.1	1		05/02/19 13:39	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:39	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.17J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:30	7439-97-6	B
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/30/19 22:27	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 22:27	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/30/19 22:27	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 22:27	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 22:27	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/30/19 22:27	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/30/19 22:27	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/30/19 22:27	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 22:27	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 22:27	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 22:27	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/30/19 22:27	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/30/19 22:27	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/30/19 22:27	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/30/19 22:27	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/30/19 22:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/30/19 22:27	108-10-1	
Acetone	**4.3J**	ug/L	20.0	2.7	1		04/30/19 22:27	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/30/19 22:27	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/30/19 22:27	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/30/19 22:27	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/30/19 22:27	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/30/19 22:27	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 22:27	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 22:27	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/30/19 22:27	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/30/19 22:27	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/30/19 22:27	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/30/19 22:27	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/30/19 22:27	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/30/19 22:27	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/30/19 22:27	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 22:27	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-6S **Lab ID: 40186580006** Collected: 04/22/19 16:45 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**3.0J**	ug/L	5.0	0.39	1		04/30/19 22:27	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/30/19 22:27	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/30/19 22:27	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 22:27	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/30/19 22:27	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/30/19 22:27	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/30/19 22:27	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/30/19 22:27	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 22:27	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/30/19 22:27	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 22:27	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/30/19 22:27	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/30/19 22:27	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/30/19 22:27	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 22:27	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/30/19 22:27	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/30/19 22:27	99-87-6	
sec-Butylbenzene	**4.2J**	ug/L	5.0	0.85	1		04/30/19 22:27	135-98-8	
tert-Butylbenzene	**5.1**	ug/L	1.0	0.30	1		04/30/19 22:27	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/30/19 22:27	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/30/19 22:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/30/19 22:27	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		04/30/19 22:27	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/19 22:27	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.08**	Std. Units			1		04/22/19 16:45		
Field Specific Conductance	**342**	umhos/cm			1		04/22/19 16:45		
Oxygen, Dissolved	**0.70**	mg/L			1		04/22/19 16:45	7782-44-7	
REDOX	**-56.6**	mV			1		04/22/19 16:45		
Static Water Level	**647.56**	feet			1		04/22/19 16:45		
Temperature, Water (C)	**7.44**	deg C			1		04/22/19 16:45		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**270**	mg/L	23.5	7.0	1		05/06/19 09:56		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**4.1**	mg/L	0.85	0.25	1		05/02/19 21:11	7440-44-0	
Total Organic Carbon	**3.9**	mg/L	0.85	0.25	1		05/02/19 21:11	7440-44-0	
Total Organic Carbon	**4.0**	mg/L	0.85	0.25	1		05/02/19 21:11	7440-44-0	
Total Organic Carbon	**4.0**	mg/L	0.85	0.25	1		05/02/19 21:11	7440-44-0	
Mean Total Organic Carbon	**4.0**	mg/L	0.85	0.25	1		05/02/19 21:11	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-6M **Lab ID: 40186580007** Collected: 04/23/19 11:15 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:46	7440-38-2	
Barium, Dissolved	**1790**	ug/L	5.0	1.5	1		05/02/19 13:46	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:46	7440-43-9	
Cobalt, Dissolved	**1.5J**	ug/L	5.0	1.4	1		05/02/19 13:46	7440-48-4	
Iron, Dissolved	**36.8J**	ug/L	118	35.4	1		05/02/19 13:46	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:46	7439-92-1	
Manganese, Dissolved	**3190**	ug/L	5.0	1.1	1		05/02/19 13:46	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:46	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.16J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:32	7439-97-6	B
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/30/19 22:50	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 22:50	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/30/19 22:50	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 22:50	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 22:50	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/30/19 22:50	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/30/19 22:50	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/30/19 22:50	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 22:50	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 22:50	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 22:50	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/30/19 22:50	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/30/19 22:50	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/30/19 22:50	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/30/19 22:50	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/30/19 22:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/30/19 22:50	108-10-1	
Acetone	**3.3J**	ug/L	20.0	2.7	1		04/30/19 22:50	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/30/19 22:50	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/30/19 22:50	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/30/19 22:50	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/30/19 22:50	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/30/19 22:50	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 22:50	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 22:50	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/30/19 22:50	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/30/19 22:50	67-66-3	
Chloromethane	**3.2J**	ug/L	7.3	2.2	1		04/30/19 22:50	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/30/19 22:50	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/30/19 22:50	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/30/19 22:50	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/30/19 22:50	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 22:50	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-6M **Lab ID: 40186580007** Collected: 04/23/19 11:15 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**0.42J**	ug/L	5.0	0.39	1		04/30/19 22:50	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/30/19 22:50	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/30/19 22:50	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 22:50	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/30/19 22:50	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/30/19 22:50	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/30/19 22:50	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/30/19 22:50	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 22:50	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/30/19 22:50	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 22:50	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/30/19 22:50	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/30/19 22:50	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/30/19 22:50	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 22:50	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/30/19 22:50	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/30/19 22:50	99-87-6	
sec-Butylbenzene	**1.3J**	ug/L	5.0	0.85	1		04/30/19 22:50	135-98-8	
tert-Butylbenzene	**1.9**	ug/L	1.0	0.30	1		04/30/19 22:50	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/30/19 22:50	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/30/19 22:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/30/19 22:50	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		04/30/19 22:50	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/19 22:50	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.54**	Std. Units			1		04/23/19 11:15		
Field Specific Conductance	**316**	umhos/cm			1		04/23/19 11:15		
Oxygen, Dissolved	**0.40**	mg/L			1		04/23/19 11:15	7782-44-7	
REDOX	**-144.4**	mV			1		04/23/19 11:15		
Static Water Level	**647.57**	feet			1		04/23/19 11:15		
Temperature, Water (C)	**10.03**	deg C			1		04/23/19 11:15		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**208**	mg/L	23.5	7.0	1		05/03/19 12:26		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.7**	mg/L	0.85	0.25	1		05/02/19 21:52	7440-44-0	
Total Organic Carbon	**2.7**	mg/L	0.85	0.25	1		05/02/19 21:52	7440-44-0	
Total Organic Carbon	**2.7**	mg/L	0.85	0.25	1		05/02/19 21:52	7440-44-0	
Total Organic Carbon	**2.6**	mg/L	0.85	0.25	1		05/02/19 21:52	7440-44-0	
Mean Total Organic Carbon	**2.7**	mg/L	0.85	0.25	1		05/02/19 21:52	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-7M **Lab ID: 40186580008** Collected: 04/22/19 13:00 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:49	7440-38-2	
Barium, Dissolved	**314**	ug/L	5.0	1.5	1		05/02/19 13:49	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:49	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:49	7440-48-4	
Iron, Dissolved	**2200**	ug/L	118	35.4	1		05/02/19 13:49	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:49	7439-92-1	
Manganese, Dissolved	**753**	ug/L	5.0	1.1	1		05/02/19 13:49	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:49	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.14J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:35	7439-97-6	B
Field Data	Analytical Method:								
Field pH	**7.69**	Std. Units			1		04/22/19 13:00		
Field Specific Conductance	**359**	umhos/cm			1		04/22/19 13:00		
Oxygen, Dissolved	**7.69**	mg/L			1		04/22/19 13:00	7782-44-7	
REDOX	**-182.2**	mV			1		04/22/19 13:00		
Static Water Level	**647.36**	feet			1		04/22/19 13:00		
Temperature, Water (C)	**10.34**	deg C			1		04/22/19 13:00		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**205**	mg/L	23.5	7.0	1		05/06/19 09:57		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.4**	mg/L	0.85	0.25	1		05/02/19 22:34	7440-44-0	
Total Organic Carbon	**1.4**	mg/L	0.85	0.25	1		05/02/19 22:34	7440-44-0	
Total Organic Carbon	**1.4**	mg/L	0.85	0.25	1		05/02/19 22:34	7440-44-0	
Total Organic Carbon	**1.4**	mg/L	0.85	0.25	1		05/02/19 22:34	7440-44-0	
Mean Total Organic Carbon	**1.4**	mg/L	0.85	0.25	1		05/02/19 22:34	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-8S **Lab ID: 40186580009** Collected: 04/22/19 14:50 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:51	7440-38-2	
Barium, Dissolved	**27.0**	ug/L	5.0	1.5	1		05/02/19 13:51	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:51	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:51	7440-48-4	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		05/02/19 13:51	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:51	7439-92-1	
Manganese, Dissolved	**204**	ug/L	5.0	1.1	1		05/02/19 13:51	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:51	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.15J**	ug/L	0.28	0.084	1	05/02/19 10:45	05/03/19 09:37	7439-97-6	B
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/30/19 23:12	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:12	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/30/19 23:12	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 23:12	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 23:12	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/30/19 23:12	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/30/19 23:12	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/30/19 23:12	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:12	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:12	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:12	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/30/19 23:12	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/30/19 23:12	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/30/19 23:12	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/30/19 23:12	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/30/19 23:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/30/19 23:12	108-10-1	
Acetone	**4.5J**	ug/L	20.0	2.7	1		04/30/19 23:12	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/30/19 23:12	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/30/19 23:12	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/30/19 23:12	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/30/19 23:12	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/30/19 23:12	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 23:12	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:12	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/30/19 23:12	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/30/19 23:12	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/30/19 23:12	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/30/19 23:12	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/30/19 23:12	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/30/19 23:12	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/30/19 23:12	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 23:12	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-8S **Lab ID: 40186580009** Collected: 04/22/19 14:50 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/30/19 23:12	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/30/19 23:12	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/30/19 23:12	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 23:12	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/30/19 23:12	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/30/19 23:12	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/30/19 23:12	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/30/19 23:12	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 23:12	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/30/19 23:12	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 23:12	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/30/19 23:12	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/30/19 23:12	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/30/19 23:12	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:12	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/30/19 23:12	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/30/19 23:12	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/30/19 23:12	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/30/19 23:12	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/30/19 23:12	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/30/19 23:12	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/30/19 23:12	460-00-4	
Dibromofluoromethane (S)	120	%	70-130		1		04/30/19 23:12	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/30/19 23:12	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.27**	Std. Units			1		04/22/19 14:50		
Field Specific Conductance	**325**	umhos/cm			1		04/22/19 14:50		
Oxygen, Dissolved	**5.85**	mg/L			1		04/22/19 14:50	7782-44-7	
REDOX	**-18.9**	mV			1		04/22/19 14:50		
Static Water Level	**647.41**	feet			1		04/22/19 14:50		
Temperature, Water (C)	**8.20**	deg C			1		04/22/19 14:50		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**223**	mg/L	47.0	14.1	2		05/06/19 09:58		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		05/02/19 23:16	7440-44-0	
Total Organic Carbon	**1.4**	mg/L	0.85	0.25	1		05/02/19 23:16	7440-44-0	
Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		05/02/19 23:16	7440-44-0	
Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		05/02/19 23:16	7440-44-0	
Mean Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		05/02/19 23:16	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-8M **Lab ID: 40186580010** Collected: 04/22/19 15:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**11.5J**	ug/L	25.0	5.4	1		05/02/19 13:54	7440-38-2	
Barium, Dissolved	**497**	ug/L	5.0	1.5	1		05/02/19 13:54	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:54	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:54	7440-48-4	
Iron, Dissolved	**172**	ug/L	118	35.4	1		05/02/19 13:54	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:54	7439-92-1	
Manganese, Dissolved	**2270**	ug/L	5.0	1.1	1		05/02/19 13:54	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:54	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/30/19 23:35	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:35	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/30/19 23:35	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 23:35	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 23:35	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/30/19 23:35	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/30/19 23:35	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/30/19 23:35	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:35	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:35	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:35	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/30/19 23:35	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/30/19 23:35	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/30/19 23:35	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/30/19 23:35	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/30/19 23:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/30/19 23:35	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/30/19 23:35	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/30/19 23:35	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/30/19 23:35	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/30/19 23:35	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/30/19 23:35	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/30/19 23:35	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 23:35	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:35	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/30/19 23:35	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/30/19 23:35	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/30/19 23:35	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/30/19 23:35	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/30/19 23:35	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/30/19 23:35	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/30/19 23:35	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 23:35	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-8M **Lab ID: 40186580010** Collected: 04/22/19 15:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/30/19 23:35	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/30/19 23:35	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/30/19 23:35	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 23:35	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/30/19 23:35	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/30/19 23:35	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/30/19 23:35	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/30/19 23:35	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 23:35	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/30/19 23:35	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 23:35	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/30/19 23:35	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/30/19 23:35	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/30/19 23:35	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:35	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/30/19 23:35	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/30/19 23:35	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/30/19 23:35	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/30/19 23:35	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/30/19 23:35	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/30/19 23:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		04/30/19 23:35	460-00-4	
Dibromofluoromethane (S)	128	%	70-130		1		04/30/19 23:35	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		04/30/19 23:35	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.58**	Std. Units			1		04/22/19 15:10		
Field Specific Conductance	**268**	umhos/cm			1		04/22/19 15:10		
Oxygen, Dissolved	**0.37**	mg/L			1		04/22/19 15:10	7782-44-7	
REDOX	**-98.2**	mV			1		04/22/19 15:10		
Static Water Level	**647.41**	feet			1		04/22/19 15:10		
Temperature, Water (C)	**10.27**	deg C			1		04/22/19 15:10		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**153**	mg/L	23.5	7.0	1		05/03/19 12:18		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/02/19 23:57	7440-44-0	
Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/02/19 23:57	7440-44-0	
Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/02/19 23:57	7440-44-0	
Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/02/19 23:57	7440-44-0	
Mean Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/02/19 23:57	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-9M **Lab ID: 40186580011** Collected: 04/23/19 15:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:56	7440-38-2	
Barium, Dissolved	**161**	ug/L	5.0	1.5	1		05/02/19 13:56	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:56	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:56	7440-48-4	
Iron, Dissolved	**2330**	ug/L	118	35.4	1		05/02/19 13:56	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:56	7439-92-1	
Manganese, Dissolved	**866**	ug/L	5.0	1.1	1		05/02/19 13:56	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:56	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:17	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.75**	Std. Units			1		04/23/19 15:30		
Field Specific Conductance	**321**	umhos/cm			1		04/23/19 15:30		
Oxygen, Dissolved	**0.27**	mg/L			1		04/23/19 15:30	7782-44-7	
REDOX	**-194.2**	mV			1		04/23/19 15:30		
Static Water Level	**647.01**	feet			1		04/23/19 15:30		
Temperature, Water (C)	**10.40**	deg C			1		04/23/19 15:30		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**184**	mg/L	23.5	7.0	1		05/03/19 12:27		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/03/19 00:39	7440-44-0	
Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/03/19 00:39	7440-44-0	
Total Organic Carbon	**2.4**	mg/L	0.85	0.25	1		05/03/19 00:39	7440-44-0	
Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/03/19 00:39	7440-44-0	
Mean Total Organic Carbon	**2.3**	mg/L	0.85	0.25	1		05/03/19 00:39	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-10M **Lab ID: 40186580012** Collected: 04/23/19 15:00 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 13:59	7440-38-2	
Barium, Dissolved	**68.0**	ug/L	5.0	1.5	1		05/02/19 13:59	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 13:59	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 13:59	7440-48-4	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		05/02/19 13:59	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 13:59	7439-92-1	
Manganese, Dissolved	**1740**	ug/L	5.0	1.1	1		05/02/19 13:59	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 13:59	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:19	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.52**	Std. Units			1		04/23/19 15:00		
Field Specific Conductance	**335**	umhos/cm			1		04/23/19 15:00		
Oxygen, Dissolved	**0.32**	mg/L			1		04/23/19 15:00	7782-44-7	
REDOX	**-95.8**	mV			1		04/23/19 15:00		
Static Water Level	**647.20**	feet			1		04/23/19 15:00		
Temperature, Water (C)	**10.56**	deg C			1		04/23/19 15:00		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**209**	mg/L	23.5	7.0	1		05/03/19 12:27		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/03/19 12:59	7440-44-0	
Total Organic Carbon	**2.1**	mg/L	0.85	0.25	1		05/03/19 12:59	7440-44-0	
Total Organic Carbon	**2.1**	mg/L	0.85	0.25	1		05/03/19 12:59	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/03/19 12:59	7440-44-0	
Mean Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/03/19 12:59	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-11M **Lab ID: 40186580013** Collected: 04/24/19 11:05 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 14:01	7440-38-2	
Barium, Dissolved	**226**	ug/L	5.0	1.5	1		05/02/19 14:01	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:01	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:01	7440-48-4	
Iron, Dissolved	**3470**	ug/L	118	35.4	1		05/02/19 14:01	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:01	7439-92-1	
Manganese, Dissolved	**1200**	ug/L	5.0	1.1	1		05/02/19 14:01	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:01	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:22	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.55**	Std. Units			1		04/24/19 11:05		
Field Specific Conductance	**373**	umhos/cm			1		04/24/19 11:05		
Oxygen, Dissolved	**0.29**	mg/L			1		04/24/19 11:05	7782-44-7	
REDOX	**-194.5**	mV			1		04/24/19 11:05		
Static Water Level	**646.99**	feet			1		04/24/19 11:05		
Temperature, Water (C)	**10.28**	deg C			1		04/24/19 11:05		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**202**	mg/L	23.5	7.0	1		05/03/19 12:42		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/03/19 13:41	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/03/19 13:41	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/03/19 13:41	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/03/19 13:41	7440-44-0	
Mean Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/03/19 13:41	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-12S **Lab ID: 40186580014** Collected: 04/23/19 17:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 14:03	7440-38-2	
Barium, Dissolved	**19.4**	ug/L	5.0	1.5	1		05/02/19 14:03	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:03	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:03	7440-48-4	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		05/02/19 14:03	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:03	7439-92-1	
Manganese, Dissolved	**<1.1**	ug/L	5.0	1.1	1		05/02/19 14:03	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:03	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:24	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/30/19 23:57	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:57	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/30/19 23:57	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 23:57	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 23:57	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/30/19 23:57	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/30/19 23:57	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/30/19 23:57	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:57	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:57	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 23:57	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/30/19 23:57	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/30/19 23:57	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/30/19 23:57	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/30/19 23:57	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/30/19 23:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/30/19 23:57	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/30/19 23:57	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/30/19 23:57	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/30/19 23:57	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/30/19 23:57	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/30/19 23:57	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/30/19 23:57	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 23:57	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:57	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/30/19 23:57	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/30/19 23:57	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/30/19 23:57	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/30/19 23:57	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/30/19 23:57	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/30/19 23:57	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/30/19 23:57	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 23:57	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-12S **Lab ID: 40186580014** Collected: 04/23/19 17:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/30/19 23:57	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/30/19 23:57	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/30/19 23:57	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 23:57	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/30/19 23:57	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/30/19 23:57	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/30/19 23:57	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/30/19 23:57	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 23:57	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/30/19 23:57	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 23:57	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/30/19 23:57	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/30/19 23:57	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/30/19 23:57	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 23:57	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/30/19 23:57	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/30/19 23:57	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/30/19 23:57	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/30/19 23:57	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/30/19 23:57	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/30/19 23:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		04/30/19 23:57	460-00-4	
Dibromofluoromethane (S)	125	%	70-130		1		04/30/19 23:57	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		04/30/19 23:57	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.25**	Std. Units			1		04/23/19 17:30		
Field Specific Conductance	**294**	umhos/cm			1		04/23/19 17:30		
Oxygen, Dissolved	**4.2**	mg/L			1		04/23/19 17:30	7782-44-7	
REDOX	**-25.0**	mV			1		04/23/19 17:30		
Static Water Level	**647.37**	feet			1		04/23/19 17:30		
Temperature, Water (C)	**8.28**	deg C			1		04/23/19 17:30		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**189**	mg/L	23.5	7.0	1		05/03/19 12:30		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**0.97**	mg/L	0.85	0.25	1		05/03/19 14:22	7440-44-0	
Total Organic Carbon	**0.96**	mg/L	0.85	0.25	1		05/03/19 14:22	7440-44-0	
Total Organic Carbon	**0.96**	mg/L	0.85	0.25	1		05/03/19 14:22	7440-44-0	
Total Organic Carbon	**0.94**	mg/L	0.85	0.25	1		05/03/19 14:22	7440-44-0	
Mean Total Organic Carbon	**0.96**	mg/L	0.85	0.25	1		05/03/19 14:22	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-14S **Lab ID: 40186580015** Collected: 04/24/19 12:40 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 14:06	7440-38-2	
Barium, Dissolved	**76.4**	ug/L	5.0	1.5	1		05/02/19 14:06	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:06	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:06	7440-48-4	
Iron, Dissolved	**4340**	ug/L	118	35.4	1		05/02/19 14:06	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:06	7439-92-1	
Manganese, Dissolved	**612**	ug/L	5.0	1.1	1		05/02/19 14:06	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:06	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:26	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 10:09	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 10:09	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 10:09	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 10:09	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 10:09	75-35-4	
1,2,4-Trimethylbenzene	**4.2**	ug/L	2.8	0.84	1		05/01/19 10:09	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 10:09	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 10:09	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 10:09	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 10:09	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 10:09	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 10:09	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 10:09	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 10:09	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 10:09	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 10:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 10:09	108-10-1	
Acetone	**3.1J**	ug/L	20.0	2.7	1		05/01/19 10:09	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 10:09	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 10:09	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 10:09	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 10:09	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 10:09	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 10:09	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 10:09	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 10:09	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 10:09	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 10:09	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 10:09	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 10:09	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 10:09	75-71-8	
Ethylbenzene	**0.60J**	ug/L	1.0	0.22	1		05/01/19 10:09	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 10:09	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-14S **Lab ID: 40186580015** Collected: 04/24/19 12:40 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**2.6J**	ug/L	5.0	0.39	1		05/01/19 10:09	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 10:09	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 10:09	75-09-2	
Naphthalene	**22.6**	ug/L	5.0	1.2	1		05/01/19 10:09	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 10:09	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 10:09	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 10:09	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 10:09	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 10:09	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 10:09	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 10:09	75-01-4	
Xylene (Total)	**1.7J**	ug/L	3.0	1.5	1		05/01/19 10:09	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 10:09	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 10:09	10061-01-5	
n-Butylbenzene	**2.3J**	ug/L	2.4	0.71	1		05/01/19 10:09	104-51-8	
n-Propylbenzene	**1.7J**	ug/L	5.0	0.81	1		05/01/19 10:09	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 10:09	99-87-6	
sec-Butylbenzene	**1.3J**	ug/L	5.0	0.85	1		05/01/19 10:09	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 10:09	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 10:09	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 10:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		05/01/19 10:09	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		05/01/19 10:09	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/01/19 10:09	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.80**	Std. Units			1		04/24/19 12:40		
Field Specific Conductance	**199**	umhos/cm			1		04/24/19 12:40		
Oxygen, Dissolved	**1.36**	mg/L			1		04/24/19 12:40	7782-44-7	
REDOX	**-84.2**	mV			1		04/24/19 12:40		
Static Water Level	**648.08**	feet			1		04/24/19 12:40		
Temperature, Water (C)	**6.95**	deg C			1		04/24/19 12:40		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**147**	mg/L	23.5	7.0	1		05/03/19 12:42		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**3.3**	mg/L	2.5	0.76	3		05/03/19 15:04	7440-44-0	
Total Organic Carbon	**3.3**	mg/L	2.5	0.76	3		05/03/19 15:04	7440-44-0	
Total Organic Carbon	**3.4**	mg/L	2.5	0.76	3		05/03/19 15:04	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	2.5	0.76	3		05/03/19 15:04	7440-44-0	
Mean Total Organic Carbon	**3.4**	mg/L	2.5	0.76	3		05/03/19 15:04	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-15M **Lab ID: 40186580016** Collected: 04/23/19 10:50 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**7.7J**	ug/L	25.0	5.4	1		05/02/19 14:08	7440-38-2	
Barium, Dissolved	**533**	ug/L	5.0	1.5	1		05/02/19 14:08	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:08	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:08	7440-48-4	
Iron, Dissolved	**216**	ug/L	118	35.4	1		05/02/19 14:08	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:08	7439-92-1	
Manganese, Dissolved	**2000**	ug/L	5.0	1.1	1		05/02/19 14:08	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:08	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:29	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.67**	Std. Units			1		04/23/19 10:50		
Field Specific Conductance	**244**	umhos/cm			1		04/23/19 10:50		
Oxygen, Dissolved	**0.29**	mg/L			1		04/23/19 10:50	7782-44-7	
REDOX	**-177.5**	mV			1		04/23/19 10:50		
Static Water Level	**647.46**	feet			1		04/23/19 10:50		
Temperature, Water (C)	**10.38**	deg C			1		04/23/19 10:50		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**148**	mg/L	23.5	7.0	1		05/03/19 12:30		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.8**	mg/L	0.85	0.25	1		05/03/19 17:08	7440-44-0	
Total Organic Carbon	**2.7**	mg/L	0.85	0.25	1		05/03/19 17:08	7440-44-0	
Total Organic Carbon	**2.7**	mg/L	0.85	0.25	1		05/03/19 17:08	7440-44-0	
Total Organic Carbon	**2.8**	mg/L	0.85	0.25	1		05/03/19 17:08	7440-44-0	
Mean Total Organic Carbon	**2.8**	mg/L	0.85	0.25	1		05/03/19 17:08	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-16S **Lab ID: 40186580017** Collected: 04/24/19 15:35 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**5.8J**	ug/L	25.0	5.4	1		05/02/19 14:16	7440-38-2	
Barium, Dissolved	**129**	ug/L	5.0	1.5	1		05/02/19 14:16	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:16	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:16	7440-48-4	
Iron, Dissolved	**13700**	ug/L	118	35.4	1		05/02/19 14:16	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:16	7439-92-1	
Manganese, Dissolved	**1110**	ug/L	5.0	1.1	1		05/02/19 14:16	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:16	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:31	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 09:48	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 09:48	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 09:48	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 09:48	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 09:48	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 09:48	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 09:48	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 09:48	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 09:48	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 09:48	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 09:48	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 09:48	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 09:48	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 09:48	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 09:48	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 09:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 09:48	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		05/01/19 09:48	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 09:48	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 09:48	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 09:48	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 09:48	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 09:48	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 09:48	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 09:48	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 09:48	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 09:48	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 09:48	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 09:48	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 09:48	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 09:48	75-71-8	
Ethylbenzene	**0.23J**	ug/L	1.0	0.22	1		05/01/19 09:48	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 09:48	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-16S **Lab ID: 40186580017** Collected: 04/24/19 15:35 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**35.8**	ug/L	5.0	0.39	1		05/01/19 09:48	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 09:48	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 09:48	75-09-2	
Naphthalene	**28.7**	ug/L	5.0	1.2	1		05/01/19 09:48	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 09:48	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 09:48	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 09:48	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 09:48	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 09:48	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 09:48	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 09:48	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 09:48	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 09:48	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 09:48	10061-01-5	
n-Butylbenzene	**9.2**	ug/L	2.4	0.71	1		05/01/19 09:48	104-51-8	
n-Propylbenzene	**78.0**	ug/L	5.0	0.81	1		05/01/19 09:48	103-65-1	
p-Isopropyltoluene	**0.98J**	ug/L	2.7	0.80	1		05/01/19 09:48	99-87-6	
sec-Butylbenzene	**18.5**	ug/L	5.0	0.85	1		05/01/19 09:48	135-98-8	
tert-Butylbenzene	**15.0**	ug/L	1.0	0.30	1		05/01/19 09:48	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 09:48	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 09:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/01/19 09:48	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		05/01/19 09:48	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/01/19 09:48	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.74**	Std. Units			1		04/24/19 15:35		
Field Specific Conductance	**385**	umhos/cm			1		04/24/19 15:35		
Oxygen, Dissolved	**1.22**	mg/L			1		04/24/19 15:35	7782-44-7	
REDOX	**-80.6**	mV			1		04/24/19 15:35		
Static Water Level	**647.76**	feet			1		04/24/19 15:35		
Temperature, Water (C)	**7.63**	deg C			1		04/24/19 15:35		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**296**	mg/L	23.5	7.0	1		05/03/19 12:43		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**3.2**	mg/L	0.85	0.25	1		05/03/19 17:50	7440-44-0	
Total Organic Carbon	**3.3**	mg/L	0.85	0.25	1		05/03/19 17:50	7440-44-0	
Total Organic Carbon	**3.3**	mg/L	0.85	0.25	1		05/03/19 17:50	7440-44-0	
Total Organic Carbon	**3.2**	mg/L	0.85	0.25	1		05/03/19 17:50	7440-44-0	
Mean Total Organic Carbon	**3.3**	mg/L	0.85	0.25	1		05/03/19 17:50	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-16M **Lab ID: 40186580018** Collected: 04/24/19 16:05 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**25.4**	ug/L	25.0	5.4	1		05/02/19 14:18	7440-38-2	
Barium, Dissolved	**1430**	ug/L	5.0	1.5	1		05/02/19 14:18	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:18	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:18	7440-48-4	
Iron, Dissolved	**22800**	ug/L	118	35.4	1		05/02/19 14:18	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:18	7439-92-1	
Manganese, Dissolved	**1400**	ug/L	5.0	1.1	1		05/02/19 14:18	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:18	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:33	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/02/19 02:48	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/02/19 02:48	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/02/19 02:48	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/02/19 02:48	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/02/19 02:48	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/02/19 02:48	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/02/19 02:48	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/02/19 02:48	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/02/19 02:48	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/02/19 02:48	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/02/19 02:48	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/02/19 02:48	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/02/19 02:48	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/02/19 02:48	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/02/19 02:48	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/02/19 02:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/02/19 02:48	108-10-1	
Acetone	**3.6J**	ug/L	20.0	2.7	1		05/02/19 02:48	67-64-1	
Benzene	**0.71J**	ug/L	1.0	0.25	1		05/02/19 02:48	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/02/19 02:48	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/02/19 02:48	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/02/19 02:48	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/02/19 02:48	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/02/19 02:48	56-23-5	
Chlorobenzene	**0.73J**	ug/L	2.4	0.71	1		05/02/19 02:48	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/02/19 02:48	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/02/19 02:48	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/02/19 02:48	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/02/19 02:48	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/02/19 02:48	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/02/19 02:48	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/02/19 02:48	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/02/19 02:48	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-16M **Lab ID: 40186580018** Collected: 04/24/19 16:05 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**1.6J**	ug/L	5.0	0.39	1		05/02/19 02:48	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/02/19 02:48	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/02/19 02:48	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/02/19 02:48	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/02/19 02:48	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/02/19 02:48	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/02/19 02:48	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/02/19 02:48	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/02/19 02:48	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/02/19 02:48	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/02/19 02:48	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/02/19 02:48	1330-20-7	
cis-1,2-Dichloroethene	**0.30J**	ug/L	1.0	0.27	1		05/02/19 02:48	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/02/19 02:48	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/02/19 02:48	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/02/19 02:48	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/02/19 02:48	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/02/19 02:48	135-98-8	
tert-Butylbenzene	**0.69J**	ug/L	1.0	0.30	1		05/02/19 02:48	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/02/19 02:48	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/02/19 02:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/02/19 02:48	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/02/19 02:48	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/02/19 02:48	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.23**	Std. Units			1		04/24/19 16:05		
Field Specific Conductance	**419**	umhos/cm			1		04/24/19 16:05		
Oxygen, Dissolved	**0.13**	mg/L			1		04/24/19 16:05	7782-44-7	
REDOX	**-196.7**	mV			1		04/24/19 16:05		
Static Water Level	**647.77**	feet			1		04/24/19 16:05		
Temperature, Water (C)	**11.08**	deg C			1		04/24/19 16:05		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**216**	mg/L	23.5	7.0	1		05/03/19 12:43		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**5.2**	mg/L	2.5	0.76	3		05/03/19 18:53	7440-44-0	
Total Organic Carbon	**5.2**	mg/L	2.5	0.76	3		05/03/19 18:53	7440-44-0	
Total Organic Carbon	**5.2**	mg/L	2.5	0.76	3		05/03/19 18:53	7440-44-0	
Total Organic Carbon	**5.1**	mg/L	2.5	0.76	3		05/03/19 18:53	7440-44-0	
Mean Total Organic Carbon	**5.2**	mg/L	2.5	0.76	3		05/03/19 18:53	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-17S **Lab ID: 40186580019** Collected: 04/24/19 14:20 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 14:21	7440-38-2	
Barium, Dissolved	**143**	ug/L	5.0	1.5	1		05/02/19 14:21	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:21	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:21	7440-48-4	
Iron, Dissolved	**8650**	ug/L	118	35.4	1		05/02/19 14:21	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:21	7439-92-1	
Manganese, Dissolved	**1200**	ug/L	5.0	1.1	1		05/02/19 14:21	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:21	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:40	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.98**	ug/L	4.0	0.98	4		05/02/19 13:03	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		05/02/19 13:03	79-34-5	
1,1,2-Trichloroethane	**<2.2**	ug/L	20.0	2.2	4		05/02/19 13:03	79-00-5	
1,1-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		05/02/19 13:03	75-34-3	
1,1-Dichloroethene	**<0.98**	ug/L	4.0	0.98	4		05/02/19 13:03	75-35-4	
1,2,4-Trimethylbenzene	**304**	ug/L	11.2	3.4	4		05/02/19 13:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<7.1**	ug/L	23.5	7.1	4		05/02/19 13:03	96-12-8	
1,2-Dibromoethane (EDB)	**<3.3**	ug/L	11.1	3.3	4		05/02/19 13:03	106-93-4	
1,2-Dichlorobenzene	**<2.8**	ug/L	9.4	2.8	4		05/02/19 13:03	95-50-1	
1,2-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		05/02/19 13:03	107-06-2	
1,2-Dichloropropane	**<1.1**	ug/L	4.0	1.1	4		05/02/19 13:03	78-87-5	
1,3,5-Trimethylbenzene	**<3.5**	ug/L	11.6	3.5	4		05/02/19 13:03	108-67-8	
1,3-Dichlorobenzene	**<2.5**	ug/L	8.4	2.5	4		05/02/19 13:03	541-73-1	
1,4-Dichlorobenzene	**<3.8**	ug/L	12.6	3.8	4		05/02/19 13:03	106-46-7	
2-Butanone (MEK)	**<11.7**	ug/L	80.0	11.7	4		05/02/19 13:03	78-93-3	
2-Hexanone	**<9.8**	ug/L	32.8	9.8	4		05/02/19 13:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<6.1**	ug/L	20.4	6.1	4		05/02/19 13:03	108-10-1	
Acetone	**<11.0**	ug/L	80.0	11.0	4		05/02/19 13:03	67-64-1	
Benzene	**<0.99**	ug/L	4.0	0.99	4		05/02/19 13:03	71-43-2	
Bromodichloromethane	**<1.5**	ug/L	4.8	1.5	4		05/02/19 13:03	75-27-4	
Bromoform	**<15.9**	ug/L	53.0	15.9	4		05/02/19 13:03	75-25-2	
Bromomethane	**<3.9**	ug/L	20.0	3.9	4		05/02/19 13:03	74-83-9	
Carbon disulfide	**<1.5**	ug/L	20.0	1.5	4		05/02/19 13:03	75-15-0	
Carbon tetrachloride	**<0.66**	ug/L	4.0	0.66	4		05/02/19 13:03	56-23-5	
Chlorobenzene	**<2.8**	ug/L	9.5	2.8	4		05/02/19 13:03	108-90-7	
Chloroethane	**<5.4**	ug/L	20.0	5.4	4		05/02/19 13:03	75-00-3	
Chloroform	**<5.1**	ug/L	20.0	5.1	4		05/02/19 13:03	67-66-3	
Chloromethane	**<8.8**	ug/L	29.2	8.8	4		05/02/19 13:03	74-87-3	
Dibromochloromethane	**<10.4**	ug/L	34.7	10.4	4		05/02/19 13:03	124-48-1	
Dibromomethane	**<3.7**	ug/L	12.5	3.7	4		05/02/19 13:03	74-95-3	
Dichlorodifluoromethane	**<2.0**	ug/L	20.0	2.0	4		05/02/19 13:03	75-71-8	
Ethylbenzene	**<0.87**	ug/L	4.0	0.87	4		05/02/19 13:03	100-41-4	
Hexachloro-1,3-butadiene	**<4.7**	ug/L	20.0	4.7	4		05/02/19 13:03	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-17S **Lab ID: 40186580019** Collected: 04/24/19 14:20 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**6.2J**	ug/L	20.0	1.6	4		05/02/19 13:03	98-82-8	
Methyl-tert-butyl ether	**<5.0**	ug/L	16.6	5.0	4		05/02/19 13:03	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	20.0	2.3	4		05/02/19 13:03	75-09-2	
Naphthalene	**7.3J**	ug/L	20.0	4.7	4		05/02/19 13:03	91-20-3	
Styrene	**<1.9**	ug/L	6.2	1.9	4		05/02/19 13:03	100-42-5	
Tetrachloroethene	**<1.3**	ug/L	4.4	1.3	4		05/02/19 13:03	127-18-4	
Tetrahydrofuran	**<9.3**	ug/L	80.0	9.3	4		05/02/19 13:03	109-99-9	
Toluene	**<0.69**	ug/L	20.0	0.69	4		05/02/19 13:03	108-88-3	
Trichloroethene	**<1.0**	ug/L	4.0	1.0	4		05/02/19 13:03	79-01-6	
Trichlorofluoromethane	**<0.86**	ug/L	4.0	0.86	4		05/02/19 13:03	75-69-4	
Vinyl chloride	**<0.70**	ug/L	4.0	0.70	4		05/02/19 13:03	75-01-4	
Xylene (Total)	**<6.0**	ug/L	12.0	6.0	4		05/02/19 13:03	1330-20-7	
cis-1,2-Dichloroethene	**<1.1**	ug/L	4.0	1.1	4		05/02/19 13:03	156-59-2	
cis-1,3-Dichloropropene	**<14.5**	ug/L	48.4	14.5	4		05/02/19 13:03	10061-01-5	
n-Butylbenzene	**3.8J**	ug/L	9.4	2.8	4		05/02/19 13:03	104-51-8	
n-Propylbenzene	**15.1J**	ug/L	20.0	3.2	4		05/02/19 13:03	103-65-1	
p-Isopropyltoluene	**5.7J**	ug/L	10.7	3.2	4		05/02/19 13:03	99-87-6	
sec-Butylbenzene	**13.1J**	ug/L	20.0	3.4	4		05/02/19 13:03	135-98-8	
tert-Butylbenzene	**3.7J**	ug/L	4.1	1.2	4		05/02/19 13:03	98-06-6	
trans-1,2-Dichloroethene	**<4.4**	ug/L	14.5	4.4	4		05/02/19 13:03	156-60-5	
trans-1,3-Dichloropropene	**<17.5**	ug/L	58.3	17.5	4		05/02/19 13:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		4		05/02/19 13:03	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		4		05/02/19 13:03	1868-53-7	
Toluene-d8 (S)	94	%	70-130		4		05/02/19 13:03	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.13**	Std. Units			1		04/24/19 14:20		
Field Specific Conductance	**289**	umhos/cm			1		04/24/19 14:20		
Oxygen, Dissolved	**1.67**	mg/L			1		04/24/19 14:20	7782-44-7	
REDOX	**-122.3**	mV			1		04/24/19 14:20		
Static Water Level	**647.93**	feet			1		04/24/19 14:20		
Temperature, Water (C)	**7.57**	deg C			1		04/24/19 14:20		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**214**	mg/L	23.5	7.0	1		05/03/19 12:44		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.8**	mg/L	0.85	0.25	1		05/03/19 20:57	7440-44-0	
Total Organic Carbon	**1.8**	mg/L	0.85	0.25	1		05/03/19 20:57	7440-44-0	
Total Organic Carbon	**1.8**	mg/L	0.85	0.25	1		05/03/19 20:57	7440-44-0	
Total Organic Carbon	**1.8**	mg/L	0.85	0.25	1		05/03/19 20:57	7440-44-0	
Mean Total Organic Carbon	**1.8**	mg/L	0.85	0.25	1		05/03/19 20:57	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-17M **Lab ID: 40186580020** Collected: 04/24/19 14:35 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**15.9J**	ug/L	25.0	5.4	1		05/02/19 14:23	7440-38-2	
Barium, Dissolved	**607**	ug/L	5.0	1.5	1		05/02/19 14:23	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 14:23	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 14:23	7440-48-4	
Iron, Dissolved	**5290**	ug/L	118	35.4	1		05/02/19 14:23	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 14:23	7439-92-1	
Manganese, Dissolved	**875**	ug/L	5.0	1.1	1		05/02/19 14:23	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 14:23	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:43	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.69**	Std. Units			1		04/24/19 14:35		
Field Specific Conductance	**287**	umhos/cm			1		04/24/19 14:35		
Oxygen, Dissolved	**0.16**	mg/L			1		04/24/19 14:35	7782-44-7	
REDOX	**-217.5**	mV			1		04/24/19 14:35		
Static Water Level	**648.01**	feet			1		04/24/19 14:35		
Temperature, Water (C)	**10.17**	deg C			1		04/24/19 14:35		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**179**	mg/L	23.5	7.0	1		05/03/19 12:44		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/03/19 21:38	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/03/19 21:38	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/03/19 21:38	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/03/19 21:38	7440-44-0	
Mean Total Organic Carbon	**3.6**	mg/L	0.85	0.25	1		05/03/19 21:38	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-1 **Lab ID: 40186580021** Collected: 04/24/19 12:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 19:13	7440-38-2	
Barium, Dissolved	**94.8**	ug/L	5.0	1.5	1		05/02/19 19:13	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:13	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:13	7440-48-4	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		05/02/19 19:13	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:13	7439-92-1	
Manganese, Dissolved	**1560**	ug/L	5.0	1.1	1		05/02/19 19:13	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 19:13	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:45	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.92**	Std. Units			1		04/24/19 12:10		
Field Specific Conductance	**263**	umhos/cm			1		04/24/19 12:10		
Oxygen, Dissolved	**0.32**	mg/L			1		04/24/19 12:10	7782-44-7	
REDOX	**-98.3**	mV			1		04/24/19 12:10		
Static Water Level	**647.97**	feet			1		04/24/19 12:10		
Temperature, Water (C)	**9.00**	deg C			1		04/24/19 12:10		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**172**	mg/L	23.5	7.0	1		05/03/19 12:45		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.0**	mg/L	0.85	0.25	1		05/03/19 22:20	7440-44-0	
Total Organic Carbon	**2.0**	mg/L	0.85	0.25	1		05/03/19 22:20	7440-44-0	
Total Organic Carbon	**2.1**	mg/L	0.85	0.25	1		05/03/19 22:20	7440-44-0	
Total Organic Carbon	**2.0**	mg/L	0.85	0.25	1		05/03/19 22:20	7440-44-0	
Mean Total Organic Carbon	**2.0**	mg/L	0.85	0.25	1		05/03/19 22:20	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-2 **Lab ID: 40186580022** Collected: 04/23/19 13:45 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**20.1J**	ug/L	25.0	5.4	1		05/02/19 19:20	7440-38-2	B
Barium, Dissolved	**110**	ug/L	5.0	1.5	1		05/02/19 19:20	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:20	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:20	7440-48-4	
Iron, Dissolved	**22400**	ug/L	118	35.4	1		05/02/19 19:20	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:20	7439-92-1	
Manganese, Dissolved	**2560**	ug/L	5.0	1.1	1		05/02/19 19:20	7439-96-5	
Vanadium, Dissolved	**2.9J**	ug/L	10.0	2.2	1		05/02/19 19:20	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:47	7439-97-6	
Field Data	Analytical Method:								
Field pH	**6.81**	Std. Units			1		04/23/19 13:45		
Field Specific Conductance	**264**	umhos/cm			1		04/23/19 13:45		
Oxygen, Dissolved	**1.05**	mg/L			1		04/23/19 13:45	7782-44-7	
REDOX	**-132.2**	mV			1		04/23/19 13:45		
Static Water Level	**647.78**	feet			1		04/23/19 13:45		
Temperature, Water (C)	**7.67**	deg C			1		04/23/19 13:45		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**166**	mg/L	23.5	7.0	1		05/03/19 12:31		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**6.1**	mg/L	1.7	0.51	2		05/03/19 23:02	7440-44-0	
Total Organic Carbon	**6.1**	mg/L	1.7	0.51	2		05/03/19 23:02	7440-44-0	
Total Organic Carbon	**6.1**	mg/L	1.7	0.51	2		05/03/19 23:02	7440-44-0	
Total Organic Carbon	**6.1**	mg/L	1.7	0.51	2		05/03/19 23:02	7440-44-0	
Mean Total Organic Carbon	**6.1**	mg/L	1.7	0.51	2		05/03/19 23:02	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-3 **Lab ID: 40186580023** Collected: 04/23/19 12:45 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**14.0J**	ug/L	25.0	5.4	1		05/02/19 19:23	7440-38-2	B
Barium, Dissolved	**124**	ug/L	5.0	1.5	1		05/02/19 19:23	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:23	7440-43-9	
Cobalt, Dissolved	**1.8J**	ug/L	5.0	1.4	1		05/02/19 19:23	7440-48-4	
Iron, Dissolved	**220**	ug/L	118	35.4	1		05/02/19 19:23	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:23	7439-92-1	
Manganese, Dissolved	**3880**	ug/L	5.0	1.1	1		05/02/19 19:23	7439-96-5	
Vanadium, Dissolved	**2.7J**	ug/L	10.0	2.2	1		05/02/19 19:23	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:50	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.20**	Std. Units			1		04/23/19 12:45		
Field Specific Conductance	**288**	umhos/cm			1		04/23/19 12:45		
Oxygen, Dissolved	**0.41**	mg/L			1		04/23/19 12:45	7782-44-7	
REDOX	**-146.7**	mV			1		04/23/19 12:45		
Static Water Level	**647.86**	feet			1		04/23/19 12:45		
Temperature, Water (C)	**9.63**	deg C			1		04/23/19 12:45		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**234**	mg/L	23.5	7.0	1		05/03/19 12:31		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.0**	mg/L	0.85	0.25	1		05/03/19 23:43	7440-44-0	
Total Organic Carbon	**1.9**	mg/L	0.85	0.25	1		05/03/19 23:43	7440-44-0	
Total Organic Carbon	**1.9**	mg/L	0.85	0.25	1		05/03/19 23:43	7440-44-0	
Total Organic Carbon	**1.9**	mg/L	0.85	0.25	1		05/03/19 23:43	7440-44-0	
Mean Total Organic Carbon	**1.9**	mg/L	0.85	0.25	1		05/03/19 23:43	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-4 **Lab ID: 40186580024** Collected: 04/23/19 14:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**11.3J**	ug/L	25.0	5.4	1		05/02/19 19:25	7440-38-2	B
Barium, Dissolved	**278**	ug/L	5.0	1.5	1		05/02/19 19:25	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:25	7440-43-9	
Cobalt, Dissolved	**3.4J**	ug/L	5.0	1.4	1		05/02/19 19:25	7440-48-4	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		05/02/19 19:25	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:25	7439-92-1	
Manganese, Dissolved	**3680**	ug/L	5.0	1.1	1		05/02/19 19:25	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 19:25	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:52	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.18**	Std. Units			1		04/23/19 14:30		
Field Specific Conductance	**409**	umhos/cm			1		04/23/19 14:30		
Oxygen, Dissolved	**0.31**	mg/L			1		04/23/19 14:30	7782-44-7	
REDOX	**-61.5**	mV			1		04/23/19 14:30		
Static Water Level	**647.55**	feet			1		04/23/19 14:30		
Temperature, Water (C)	**9.04**	deg C			1		04/23/19 14:30		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**309**	mg/L	23.5	7.0	1		05/03/19 12:33		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.9**	mg/L	0.85	0.25	1		05/04/19 00:25	7440-44-0	
Total Organic Carbon	**2.9**	mg/L	0.85	0.25	1		05/04/19 00:25	7440-44-0	
Total Organic Carbon	**2.9**	mg/L	0.85	0.25	1		05/04/19 00:25	7440-44-0	
Total Organic Carbon	**2.9**	mg/L	0.85	0.25	1		05/04/19 00:25	7440-44-0	
Mean Total Organic Carbon	**2.9**	mg/L	0.85	0.25	1		05/04/19 00:25	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-5 **Lab ID: 40186580025** Collected: 04/25/19 10:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**15.2J**	ug/L	25.0	5.4	1		05/02/19 19:28	7440-38-2	B
Barium, Dissolved	**121**	ug/L	5.0	1.5	1		05/02/19 19:28	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:28	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:28	7440-48-4	
Iron, Dissolved	**5220**	ug/L	118	35.4	1		05/02/19 19:28	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:28	7439-92-1	
Manganese, Dissolved	**709**	ug/L	5.0	1.1	1		05/02/19 19:28	7439-96-5	
Vanadium, Dissolved	**2.5J**	ug/L	10.0	2.2	1		05/02/19 19:28	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:54	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 09:38	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 09:38	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 09:38	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 09:38	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 09:38	75-35-4	
1,2,4-Trimethylbenzene	**148**	ug/L	2.8	0.84	1		05/01/19 09:38	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 09:38	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 09:38	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 09:38	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 09:38	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 09:38	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 09:38	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 09:38	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 09:38	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 09:38	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 09:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 09:38	108-10-1	
Acetone	**7.3J**	ug/L	20.0	2.7	1		05/01/19 09:38	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 09:38	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 09:38	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 09:38	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 09:38	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 09:38	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 09:38	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 09:38	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 09:38	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 09:38	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 09:38	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 09:38	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 09:38	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 09:38	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 09:38	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 09:38	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-5 **Lab ID: 40186580025** Collected: 04/25/19 10:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**1.8J**	ug/L	5.0	0.39	1		05/01/19 09:38	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 09:38	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 09:38	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 09:38	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 09:38	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 09:38	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 09:38	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 09:38	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 09:38	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 09:38	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 09:38	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 09:38	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 09:38	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 09:38	10061-01-5	
n-Butylbenzene	**2.3J**	ug/L	2.4	0.71	1		05/01/19 09:38	104-51-8	
n-Propylbenzene	**2.7J**	ug/L	5.0	0.81	1		05/01/19 09:38	103-65-1	
p-Isopropyltoluene	**6.5**	ug/L	2.7	0.80	1		05/01/19 09:38	99-87-6	
sec-Butylbenzene	**8.2**	ug/L	5.0	0.85	1		05/01/19 09:38	135-98-8	
tert-Butylbenzene	**1.3**	ug/L	1.0	0.30	1		05/01/19 09:38	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 09:38	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 09:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		05/01/19 09:38	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		05/01/19 09:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/01/19 09:38	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.20**	Std. Units			1		04/25/19 10:30		
Field Specific Conductance	**240**	umhos/cm			1		04/25/19 10:30		
Oxygen, Dissolved	**3.99**	mg/L			1		04/25/19 10:30	7782-44-7	
REDOX	**-107.0**	mV			1		04/25/19 10:30		
Static Water Level	**647.57**	feet			1		04/25/19 10:30		
Temperature, Water (C)	**8.05**	deg C			1		04/25/19 10:30		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**170**	mg/L	23.5	7.0	1		05/03/19 12:51		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.2**	mg/L	0.85	0.25	1		05/04/19 01:06	7440-44-0	
Total Organic Carbon	**1.2**	mg/L	0.85	0.25	1		05/04/19 01:06	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/04/19 01:06	7440-44-0	
Total Organic Carbon	**1.2**	mg/L	0.85	0.25	1		05/04/19 01:06	7440-44-0	
Mean Total Organic Carbon	**1.2**	mg/L	0.85	0.25	1		05/04/19 01:06	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-6 **Lab ID: 40186580026** Collected: 04/25/19 10:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**13.9J**	ug/L	25.0	5.4	1		05/02/19 19:30	7440-38-2	B
Barium, Dissolved	**21.0**	ug/L	5.0	1.5	1		05/02/19 19:30	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:30	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:30	7440-48-4	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		05/02/19 19:30	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:30	7439-92-1	
Manganese, Dissolved	**<1.1**	ug/L	5.0	1.1	1		05/02/19 19:30	7439-96-5	
Vanadium, Dissolved	**2.3J**	ug/L	10.0	2.2	1		05/02/19 19:30	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:57	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 11:33	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 11:33	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 11:33	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 11:33	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 11:33	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 11:33	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 11:33	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 11:33	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 11:33	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 11:33	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 11:33	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 11:33	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 11:33	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 11:33	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 11:33	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 11:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 11:33	108-10-1	
Acetone	**3.8J**	ug/L	20.0	2.7	1		05/01/19 11:33	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 11:33	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 11:33	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 11:33	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 11:33	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 11:33	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 11:33	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 11:33	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 11:33	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 11:33	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 11:33	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 11:33	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 11:33	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 11:33	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 11:33	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 11:33	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-6 **Lab ID: 40186580026** Collected: 04/25/19 10:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 11:33	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 11:33	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 11:33	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 11:33	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 11:33	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 11:33	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 11:33	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 11:33	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 11:33	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 11:33	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 11:33	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 11:33	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 11:33	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 11:33	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 11:33	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 11:33	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 11:33	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 11:33	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 11:33	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 11:33	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 11:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/01/19 11:33	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		05/01/19 11:33	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/01/19 11:33	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.41**	Std. Units			1		04/25/19 10:10		
Field Specific Conductance	**262**	umhos/cm			1		04/25/19 10:10		
Oxygen, Dissolved	**4.87**	mg/L			1		04/25/19 10:10	7782-44-7	
REDOX	**-12.2**	mV			1		04/25/19 10:10		
Static Water Level	**647.47**	feet			1		04/25/19 10:10		
Temperature, Water (C)	**8.95**	deg C			1		04/25/19 10:10		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**198**	mg/L	23.5	7.0	1		05/03/19 12:51		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**0.87**	mg/L	0.85	0.25	1		05/04/19 02:09	7440-44-0	
Total Organic Carbon	**0.88**	mg/L	0.85	0.25	1		05/04/19 02:09	7440-44-0	
Total Organic Carbon	**0.90**	mg/L	0.85	0.25	1		05/04/19 02:09	7440-44-0	
Total Organic Carbon	**0.93**	mg/L	0.85	0.25	1		05/04/19 02:09	7440-44-0	
Mean Total Organic Carbon	**0.90**	mg/L	0.85	0.25	1		05/04/19 02:09	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-1 **Lab ID: 40186580027** Collected: 04/23/19 18:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**<8.3**	ug/L	25.0	8.3	1	04/30/19 07:25	04/30/19 16:36	7440-38-2	
Barium	**20.3**	ug/L	5.0	1.5	1	04/30/19 07:25	04/30/19 16:36	7440-39-3	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	04/30/19 07:25	04/30/19 16:36	7440-43-9	
Cobalt	**<1.4**	ug/L	5.0	1.4	1	04/30/19 07:25	04/30/19 16:36	7440-48-4	
Iron	**5440**	ug/L	246	73.9	1	04/30/19 07:25	04/30/19 16:36	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/30/19 07:25	04/30/19 16:36	7439-92-1	1q
Manganese	**145**	ug/L	5.1	1.5	1	04/30/19 07:25	04/30/19 16:36	7439-96-5	
Vanadium	**2.7J**	ug/L	10.0	2.6	1	04/30/19 07:25	04/30/19 16:36	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.084**	ug/L	0.28	0.084	1	04/30/19 10:10	05/01/19 08:49	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 11:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 11:56	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 11:56	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 11:56	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 11:56	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 11:56	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 11:56	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 11:56	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 11:56	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 11:56	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 11:56	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 11:56	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 11:56	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 11:56	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 11:56	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 11:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 11:56	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		05/01/19 11:56	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 11:56	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 11:56	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 11:56	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 11:56	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 11:56	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 11:56	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 11:56	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 11:56	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 11:56	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 11:56	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 11:56	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 11:56	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 11:56	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 11:56	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 11:56	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-1 **Lab ID: 40186580027** Collected: 04/23/19 18:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 11:56	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 11:56	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 11:56	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 11:56	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 11:56	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 11:56	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 11:56	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 11:56	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 11:56	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 11:56	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 11:56	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 11:56	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 11:56	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 11:56	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 11:56	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 11:56	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 11:56	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 11:56	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 11:56	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 11:56	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 11:56	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		05/01/19 11:56	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		05/01/19 11:56	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		05/01/19 11:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-2 **Lab ID: 40186580028** Collected: 04/23/19 18:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**<8.3**	ug/L	25.0	8.3	1	04/30/19 07:25	04/30/19 16:43	7440-38-2	
Barium	**94.0**	ug/L	5.0	1.5	1	04/30/19 07:25	04/30/19 16:43	7440-39-3	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	04/30/19 07:25	04/30/19 16:43	7440-43-9	
Cobalt	**<1.4**	ug/L	5.0	1.4	1	04/30/19 07:25	04/30/19 16:43	7440-48-4	
Iron	**117J**	ug/L	246	73.9	1	04/30/19 07:25	04/30/19 16:43	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/30/19 07:25	04/30/19 16:43	7439-92-1	1q
Manganese	**50.4**	ug/L	5.1	1.5	1	04/30/19 07:25	04/30/19 16:43	7439-96-5	
Vanadium	**<2.6**	ug/L	10.0	2.6	1	04/30/19 07:25	04/30/19 16:43	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.084**	ug/L	0.28	0.084	1	04/30/19 10:10	05/01/19 08:51	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 12:18	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 12:18	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 12:18	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 12:18	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 12:18	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 12:18	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 12:18	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 12:18	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 12:18	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 12:18	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 12:18	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 12:18	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 12:18	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 12:18	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 12:18	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 12:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 12:18	108-10-1	
Acetone	**2.9J**	ug/L	20.0	2.7	1		05/01/19 12:18	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 12:18	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 12:18	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 12:18	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 12:18	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 12:18	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 12:18	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 12:18	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 12:18	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 12:18	67-66-3	
Chloromethane	**4.3J**	ug/L	7.3	2.2	1		05/01/19 12:18	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 12:18	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 12:18	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 12:18	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 12:18	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 12:18	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-2 **Lab ID: 40186580028** Collected: 04/23/19 18:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 12:18	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 12:18	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 12:18	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 12:18	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 12:18	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 12:18	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 12:18	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 12:18	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 12:18	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 12:18	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 12:18	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 12:18	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 12:18	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 12:18	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 12:18	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 12:18	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 12:18	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 12:18	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 12:18	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 12:18	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 12:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	70-130		1		05/01/19 12:18	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		05/01/19 12:18	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		05/01/19 12:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-3 **Lab ID: 40186580029** Collected: 04/24/19 17:40 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**<8.3**	ug/L	25.0	8.3	1	04/30/19 07:25	04/30/19 16:45	7440-38-2	
Barium	**25.2**	ug/L	5.0	1.5	1	04/30/19 07:25	04/30/19 16:45	7440-39-3	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	04/30/19 07:25	04/30/19 16:45	7440-43-9	
Cobalt	**<1.4**	ug/L	5.0	1.4	1	04/30/19 07:25	04/30/19 16:45	7440-48-4	
Iron	**11300**	ug/L	246	73.9	1	04/30/19 07:25	04/30/19 16:45	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/30/19 07:25	04/30/19 16:45	7439-92-1	1q
Manganese	**169**	ug/L	5.1	1.5	1	04/30/19 07:25	04/30/19 16:45	7439-96-5	
Vanadium	**<2.6**	ug/L	10.0	2.6	1	04/30/19 07:25	04/30/19 16:45	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.084**	ug/L	0.28	0.084	1	04/30/19 10:10	05/01/19 08:54	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 12:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 12:41	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 12:41	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 12:41	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 12:41	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 12:41	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 12:41	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 12:41	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 12:41	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 12:41	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 12:41	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 12:41	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 12:41	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 12:41	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 12:41	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 12:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 12:41	108-10-1	
Acetone	**2.9J**	ug/L	20.0	2.7	1		05/01/19 12:41	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 12:41	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 12:41	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 12:41	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 12:41	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 12:41	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 12:41	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 12:41	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 12:41	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 12:41	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 12:41	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 12:41	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 12:41	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 12:41	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 12:41	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 12:41	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-3 **Lab ID: 40186580029** Collected: 04/24/19 17:40 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 12:41	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 12:41	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 12:41	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 12:41	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 12:41	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 12:41	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 12:41	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 12:41	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 12:41	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 12:41	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 12:41	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 12:41	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 12:41	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 12:41	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 12:41	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 12:41	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 12:41	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 12:41	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 12:41	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 12:41	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 12:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		05/01/19 12:41	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		05/01/19 12:41	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/01/19 12:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-4 **Lab ID: 40186580030** Collected: 04/23/19 17:50 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**<8.3**	ug/L	25.0	8.3	1	04/30/19 07:25	04/30/19 16:48	7440-38-2	
Barium	**19.9**	ug/L	5.0	1.5	1	04/30/19 07:25	04/30/19 16:48	7440-39-3	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	04/30/19 07:25	04/30/19 16:48	7440-43-9	
Cobalt	**<1.4**	ug/L	5.0	1.4	1	04/30/19 07:25	04/30/19 16:48	7440-48-4	
Iron	**6830**	ug/L	246	73.9	1	04/30/19 07:25	04/30/19 16:48	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/30/19 07:25	04/30/19 16:48	7439-92-1	1q
Manganese	**114**	ug/L	5.1	1.5	1	04/30/19 07:25	04/30/19 16:48	7439-96-5	
Vanadium	**2.7J**	ug/L	10.0	2.6	1	04/30/19 07:25	04/30/19 16:48	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.084**	ug/L	0.28	0.084	1	04/30/19 10:10	05/01/19 08:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 13:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:07	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 13:07	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 13:07	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 13:07	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 13:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 13:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 13:07	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:07	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:07	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:07	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 13:07	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 13:07	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 13:07	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 13:07	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 13:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 13:07	108-10-1	
Acetone	**3.4J**	ug/L	20.0	2.7	1		05/01/19 13:07	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 13:07	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 13:07	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 13:07	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 13:07	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 13:07	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 13:07	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:07	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 13:07	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 13:07	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 13:07	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 13:07	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 13:07	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 13:07	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 13:07	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 13:07	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-4 **Lab ID: 40186580030** Collected: 04/23/19 17:50 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 13:07	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 13:07	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 13:07	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 13:07	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 13:07	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 13:07	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 13:07	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 13:07	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 13:07	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 13:07	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 13:07	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 13:07	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 13:07	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 13:07	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:07	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 13:07	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 13:07	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 13:07	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 13:07	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 13:07	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 13:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		05/01/19 13:07	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		05/01/19 13:07	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/01/19 13:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-5 **Lab ID: 40186580031** Collected: 04/23/19 19:00 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**<8.3**	ug/L	25.0	8.3	1	04/30/19 07:25	04/30/19 16:50	7440-38-2	
Barium	**28.2**	ug/L	5.0	1.5	1	04/30/19 07:25	04/30/19 16:50	7440-39-3	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	04/30/19 07:25	04/30/19 16:50	7440-43-9	
Cobalt	**<1.4**	ug/L	5.0	1.4	1	04/30/19 07:25	04/30/19 16:50	7440-48-4	
Iron	**799**	ug/L	246	73.9	1	04/30/19 07:25	04/30/19 16:50	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/30/19 07:25	04/30/19 16:50	7439-92-1	1q
Manganese	**368**	ug/L	5.1	1.5	1	04/30/19 07:25	04/30/19 16:50	7439-96-5	
Vanadium	**<2.6**	ug/L	10.0	2.6	1	04/30/19 07:25	04/30/19 16:50	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.084**	ug/L	0.28	0.084	1	04/30/19 10:10	05/01/19 08:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 13:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:30	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 13:30	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 13:30	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 13:30	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 13:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 13:30	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 13:30	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:30	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:30	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:30	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 13:30	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 13:30	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 13:30	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 13:30	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 13:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 13:30	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		05/01/19 13:30	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 13:30	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 13:30	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 13:30	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 13:30	74-83-9	
Carbon disulfide	**2.9J**	ug/L	5.0	0.37	1		05/01/19 13:30	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 13:30	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:30	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 13:30	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 13:30	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 13:30	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 13:30	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 13:30	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 13:30	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 13:30	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 13:30	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-5 **Lab ID: 40186580031** Collected: 04/23/19 19:00 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 13:30	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 13:30	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 13:30	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 13:30	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 13:30	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 13:30	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 13:30	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 13:30	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 13:30	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 13:30	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 13:30	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 13:30	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 13:30	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 13:30	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:30	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 13:30	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 13:30	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 13:30	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 13:30	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 13:30	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 13:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		05/01/19 13:30	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		05/01/19 13:30	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/01/19 13:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-6 **Lab ID: 40186580032** Collected: 04/23/19 19:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**14.7J**	ug/L	25.0	8.3	1	04/30/19 07:25	04/30/19 16:53	7440-38-2	
Barium	**42.3**	ug/L	5.0	1.5	1	04/30/19 07:25	04/30/19 16:53	7440-39-3	
Cadmium	**<1.3**	ug/L	5.0	1.3	1	04/30/19 07:25	04/30/19 16:53	7440-43-9	
Cobalt	**<1.4**	ug/L	5.0	1.4	1	04/30/19 07:25	04/30/19 16:53	7440-48-4	
Iron	**<73.9**	ug/L	246	73.9	1	04/30/19 07:25	04/30/19 16:53	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/30/19 07:25	04/30/19 16:53	7439-92-1	1q
Manganese	**224**	ug/L	5.1	1.5	1	04/30/19 07:25	04/30/19 16:53	7439-96-5	
Vanadium	**2.8J**	ug/L	10.0	2.6	1	04/30/19 07:25	04/30/19 16:53	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.084**	ug/L	0.28	0.084	1	04/30/19 10:10	05/01/19 09:01	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 13:52	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:52	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 13:52	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 13:52	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 13:52	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 13:52	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 13:52	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 13:52	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:52	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:52	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 13:52	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 13:52	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 13:52	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 13:52	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 13:52	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 13:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 13:52	108-10-1	
Acetone	**3.9J**	ug/L	20.0	2.7	1		05/01/19 13:52	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 13:52	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 13:52	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 13:52	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 13:52	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 13:52	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 13:52	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:52	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 13:52	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 13:52	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 13:52	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 13:52	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 13:52	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 13:52	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 13:52	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 13:52	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PW-6 **Lab ID: 40186580032** Collected: 04/23/19 19:10 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 13:52	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 13:52	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 13:52	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 13:52	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 13:52	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 13:52	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 13:52	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 13:52	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 13:52	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 13:52	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 13:52	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 13:52	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 13:52	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 13:52	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 13:52	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 13:52	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 13:52	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 13:52	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 13:52	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 13:52	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 13:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		05/01/19 13:52	460-00-4	HS
Dibromofluoromethane (S)	123	%	70-130		1		05/01/19 13:52	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		05/01/19 13:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-16S DUP **Lab ID: 40186580033** Collected: 04/24/19 15:40 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**18.7J**	ug/L	25.0	5.4	1		05/02/19 19:38	7440-38-2	B
Barium, Dissolved	**127**	ug/L	5.0	1.5	1		05/02/19 19:38	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:38	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:38	7440-48-4	
Iron, Dissolved	**12400**	ug/L	118	35.4	1		05/02/19 19:38	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:38	7439-92-1	
Manganese, Dissolved	**1050**	ug/L	5.0	1.1	1		05/02/19 19:38	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 19:38	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 09:59	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/02/19 12:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/02/19 12:41	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/02/19 12:41	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/02/19 12:41	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/02/19 12:41	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/02/19 12:41	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/02/19 12:41	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/02/19 12:41	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/02/19 12:41	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/02/19 12:41	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/02/19 12:41	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/02/19 12:41	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/02/19 12:41	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/02/19 12:41	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/02/19 12:41	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/02/19 12:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/02/19 12:41	108-10-1	
Acetone	**6.4J**	ug/L	20.0	2.7	1		05/02/19 12:41	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/02/19 12:41	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/02/19 12:41	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/02/19 12:41	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/02/19 12:41	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/02/19 12:41	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/02/19 12:41	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/02/19 12:41	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/02/19 12:41	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/02/19 12:41	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/02/19 12:41	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/02/19 12:41	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/02/19 12:41	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/02/19 12:41	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/02/19 12:41	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/02/19 12:41	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-16S DUP **Lab ID: 40186580033** Collected: 04/24/19 15:40 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**37.6**	ug/L	5.0	0.39	1		05/02/19 12:41	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/02/19 12:41	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/02/19 12:41	75-09-2	
Naphthalene	**24.9**	ug/L	5.0	1.2	1		05/02/19 12:41	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/02/19 12:41	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/02/19 12:41	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/02/19 12:41	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/02/19 12:41	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/02/19 12:41	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/02/19 12:41	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/02/19 12:41	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/02/19 12:41	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/02/19 12:41	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/02/19 12:41	10061-01-5	
n-Butylbenzene	**10.4**	ug/L	2.4	0.71	1		05/02/19 12:41	104-51-8	
n-Propylbenzene	**83.3**	ug/L	5.0	0.81	1		05/02/19 12:41	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/02/19 12:41	99-87-6	
sec-Butylbenzene	**20.3**	ug/L	5.0	0.85	1		05/02/19 12:41	135-98-8	
tert-Butylbenzene	**14.1**	ug/L	1.0	0.30	1		05/02/19 12:41	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/02/19 12:41	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/02/19 12:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/02/19 12:41	460-00-4	
Dibromofluoromethane (S)	127	%	70-130		1		05/02/19 12:41	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/02/19 12:41	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.74**	Std. Units			1		04/24/19 15:40		
Field Specific Conductance	**385**	umhos/cm			1		04/24/19 15:40		
Oxygen, Dissolved	**1.22**	mg/L			1		04/24/19 15:40	7782-44-7	
REDOX	**-80.6**	mV			1		04/24/19 15:40		
Static Water Level	**647.76**	feet			1		04/24/19 15:40		
Temperature, Water (C)	**7.63**	deg C			1		04/24/19 15:40		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**290**	mg/L	47.0	14.1	2		05/03/19 12:45		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**3.6**	mg/L	1.7	0.51	2		05/04/19 02:51	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	1.7	0.51	2		05/04/19 02:51	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	1.7	0.51	2		05/04/19 02:51	7440-44-0	
Total Organic Carbon	**3.6**	mg/L	1.7	0.51	2		05/04/19 02:51	7440-44-0	
Mean Total Organic Carbon	**3.6**	mg/L	1.7	0.51	2		05/04/19 02:51	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-4S DUP **Lab ID: 40186580034** Collected: 04/24/19 17:05 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**12.1J**	ug/L	25.0	5.4	1		05/02/19 19:40	7440-38-2	B
Barium, Dissolved	**230**	ug/L	5.0	1.5	1		05/02/19 19:40	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:40	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:40	7440-48-4	
Iron, Dissolved	**9550**	ug/L	118	35.4	1		05/02/19 19:40	7439-89-6	
Lead, Dissolved	**7.5J**	ug/L	21.4	6.4	1		05/02/19 19:40	7439-92-1	
Manganese, Dissolved	**642**	ug/L	5.0	1.1	1		05/02/19 19:40	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 19:40	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/03/19 09:30	05/06/19 10:01	7439-97-6	
Field Data	Analytical Method:								
Field pH	**7.00**	Std. Units			1		04/24/19 17:05		
Field Specific Conductance	**335**	umhos/cm			1		04/24/19 17:05		
Oxygen, Dissolved	**0.21**	mg/L			1		04/24/19 17:05	7782-44-7	
REDOX	**-131.0**	mV			1		04/24/19 17:05		
Static Water Level	**647.65**	feet			1		04/24/19 17:05		
Temperature, Water (C)	**9.58**	deg C			1		04/24/19 17:05		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**208**	mg/L	23.5	7.0	1		05/03/19 12:49		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/04/19 03:33	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/04/19 03:33	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/04/19 03:33	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/04/19 03:33	7440-44-0	
Mean Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		05/04/19 03:33	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-6 DUP **Lab ID: 40186580035** Collected: 04/25/19 10:15 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	25.0	5.4	1		05/02/19 19:43	7440-38-2	
Barium, Dissolved	**21.6**	ug/L	5.0	1.5	1		05/02/19 19:43	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:43	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:43	7440-48-4	
Iron, Dissolved	**<35.4**	ug/L	118	35.4	1		05/02/19 19:43	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:43	7439-92-1	
Manganese, Dissolved	**<1.1**	ug/L	5.0	1.1	1		05/02/19 19:43	7439-96-5	
Vanadium, Dissolved	**3.0J**	ug/L	10.0	2.2	1		05/02/19 19:43	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/07/19 08:45	05/07/19 13:12	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 14:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 14:19	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 14:19	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 14:19	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 14:19	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 14:19	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 14:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 14:19	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 14:19	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 14:19	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 14:19	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 14:19	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 14:19	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 14:19	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 14:19	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 14:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 14:19	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		05/01/19 14:19	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 14:19	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 14:19	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 14:19	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 14:19	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 14:19	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 14:19	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 14:19	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 14:19	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 14:19	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 14:19	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 14:19	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 14:19	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 14:19	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 14:19	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 14:19	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: PZ-6 DUP **Lab ID: 40186580035** Collected: 04/25/19 10:15 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 14:19	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 14:19	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 14:19	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 14:19	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 14:19	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 14:19	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 14:19	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 14:19	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 14:19	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 14:19	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 14:19	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 14:19	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 14:19	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 14:19	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 14:19	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 14:19	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 14:19	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 14:19	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 14:19	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 14:19	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 14:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		05/01/19 14:19	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		05/01/19 14:19	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/01/19 14:19	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.41**	Std. Units			1		04/25/19 10:15		
Field Specific Conductance	**262**	umhos/cm			1		04/25/19 10:15		
Oxygen, Dissolved	**4.87**	mg/L			1		04/25/19 10:15	7782-44-7	
REDOX	**-12.2**	mV			1		04/25/19 10:15		
Static Water Level	**647.47**	feet			1		04/25/19 10:15		
Temperature, Water (C)	**8.95**	deg C			1		04/25/19 10:15		
310.2 Alkalinity	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3	**193**	mg/L	23.5	7.0	1		05/03/19 12:52		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/04/19 04:15	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/04/19 04:15	7440-44-0	
Total Organic Carbon	**0.99**	mg/L	0.85	0.25	1		05/04/19 04:15	7440-44-0	
Total Organic Carbon	**0.99**	mg/L	0.85	0.25	1		05/04/19 04:15	7440-44-0	
Mean Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		05/04/19 04:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-2S DUP **Lab ID: 40186580036** Collected: 04/25/19 11:55 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**27.6**	ug/L	25.0	5.4	1		05/02/19 19:45	7440-38-2	B
Barium, Dissolved	**72.6**	ug/L	5.0	1.5	1		05/02/19 19:45	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/02/19 19:45	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/02/19 19:45	7440-48-4	
Iron, Dissolved	**19600**	ug/L	118	35.4	1		05/02/19 19:45	7439-89-6	
Lead, Dissolved	**<6.4**	ug/L	21.4	6.4	1		05/02/19 19:45	7439-92-1	
Manganese, Dissolved	**593**	ug/L	5.0	1.1	1		05/02/19 19:45	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/02/19 19:45	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	05/07/19 08:45	05/07/19 13:18	7439-97-6	
Field Data	Analytical Method:								
Field pH	**6.67**	Std. Units			1		04/25/19 11:55		
Field Specific Conductance	**272**	umhos/cm			1		04/25/19 11:55		
Oxygen, Dissolved	**0.37**	mg/L			1		04/25/19 11:55	7782-44-7	
REDOX	**-110.1**	mV			1		04/25/19 11:55		
Static Water Level	**648.17**	feet			1		04/25/19 11:55		
Temperature, Water (C)	**10.64**	deg C			1		04/25/19 11:55		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: TRIP BLANK **Lab ID: 40186580037** Collected: 04/22/19 12:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/01/19 08:54	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 08:54	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		05/01/19 08:54	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		05/01/19 08:54	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		05/01/19 08:54	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/01/19 08:54	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		05/01/19 08:54	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		05/01/19 08:54	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 08:54	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 08:54	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		05/01/19 08:54	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/01/19 08:54	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		05/01/19 08:54	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		05/01/19 08:54	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		05/01/19 08:54	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		05/01/19 08:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		05/01/19 08:54	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		05/01/19 08:54	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/01/19 08:54	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		05/01/19 08:54	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		05/01/19 08:54	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		05/01/19 08:54	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		05/01/19 11:11	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 08:54	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 08:54	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		05/01/19 08:54	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		05/01/19 08:54	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		05/01/19 08:54	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		05/01/19 08:54	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		05/01/19 08:54	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		05/01/19 08:54	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/01/19 08:54	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 08:54	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		05/01/19 08:54	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		05/01/19 08:54	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		05/01/19 08:54	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		05/01/19 08:54	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		05/01/19 08:54	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		05/01/19 08:54	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		05/01/19 08:54	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/01/19 08:54	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/01/19 08:54	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		05/01/19 08:54	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		05/01/19 08:54	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/01/19 08:54	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		05/01/19 08:54	156-59-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: TRIP BLANK **Lab ID: 40186580037** Collected: 04/22/19 12:30 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		05/01/19 08:54	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		05/01/19 08:54	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		05/01/19 08:54	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		05/01/19 08:54	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		05/01/19 08:54	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		05/01/19 08:54	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		05/01/19 08:54	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		05/01/19 08:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		05/01/19 08:54	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		05/01/19 08:54	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/01/19 08:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Sample: MW-8D **Lab ID: 40186580038** Collected: 04/22/19 00:00 Received: 04/26/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**647.42**	feet			1		04/22/19 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320178 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40186580001, 40186580002, 40186580003, 40186580004, 40186580005, 40186580006, 40186580007, 40186580008, 40186580009, 40186580010, 40186580011, 40186580012, 40186580013, 40186580014, 40186580015, 40186580016, 40186580017, 40186580018, 40186580019, 40186580020

METHOD BLANK: 1860176 Matrix: Water
Associated Lab Samples: 40186580001, 40186580002, 40186580003, 40186580004, 40186580005, 40186580006, 40186580007, 40186580008, 40186580009, 40186580010, 40186580011, 40186580012, 40186580013, 40186580014, 40186580015, 40186580016, 40186580017, 40186580018, 40186580019, 40186580020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<5.4	25.0	05/02/19 13:17	
Barium, Dissolved	ug/L	<1.5	5.0	05/02/19 13:17	
Cadmium, Dissolved	ug/L	<1.3	5.0	05/02/19 13:17	
Cobalt, Dissolved	ug/L	<1.4	5.0	05/02/19 13:17	
Iron, Dissolved	ug/L	<35.4	118	05/02/19 13:17	
Lead, Dissolved	ug/L	<6.4	21.4	05/02/19 13:17	
Manganese, Dissolved	ug/L	<1.1	5.0	05/02/19 13:17	
Vanadium, Dissolved	ug/L	<2.2	10.0	05/02/19 13:17	

LABORATORY CONTROL SAMPLE: 1860177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	486	97	80-120	
Barium, Dissolved	ug/L	500	476	95	80-120	
Cadmium, Dissolved	ug/L	500	496	99	80-120	
Cobalt, Dissolved	ug/L	500	489	98	80-120	
Iron, Dissolved	ug/L	5000	5020	100	80-120	
Lead, Dissolved	ug/L	500	489	98	80-120	
Manganese, Dissolved	ug/L	500	489	98	80-120	
Vanadium, Dissolved	ug/L	500	493	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860178 1860179

Parameter	Units	40186580001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	<5.4	500	500	498	503	100	101	75-125	1	20	
Barium, Dissolved	ug/L	21.1	500	500	499	496	96	95	75-125	1	20	
Cadmium, Dissolved	ug/L	<1.3	500	500	498	496	100	99	75-125	1	20	
Cobalt, Dissolved	ug/L	<1.4	500	500	481	475	96	95	75-125	1	20	
Iron, Dissolved	ug/L	307	5000	5000	5380	5360	102	101	75-125	0	20	
Lead, Dissolved	ug/L	<6.4	500	500	474	465	95	93	75-125	2	20	
Manganese, Dissolved	ug/L	264	500	500	752	756	98	99	75-125	1	20	
Vanadium, Dissolved	ug/L	<2.2	500	500	499	494	99	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320198 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40186580021, 40186580022, 40186580023, 40186580024, 40186580025, 40186580026, 40186580033, 40186580034, 40186580035, 40186580036

METHOD BLANK: 1860293 Matrix: Water
Associated Lab Samples: 40186580021, 40186580022, 40186580023, 40186580024, 40186580025, 40186580026, 40186580033, 40186580034, 40186580035, 40186580036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	11.3J	25.0	05/02/19 19:08	
Barium, Dissolved	ug/L	<1.5	5.0	05/02/19 19:08	
Cadmium, Dissolved	ug/L	<1.3	5.0	05/02/19 19:08	
Cobalt, Dissolved	ug/L	<1.4	5.0	05/02/19 19:08	
Iron, Dissolved	ug/L	<35.4	118	05/02/19 19:08	
Lead, Dissolved	ug/L	<6.4	21.4	05/02/19 19:08	
Manganese, Dissolved	ug/L	<1.1	5.0	05/02/19 19:08	
Vanadium, Dissolved	ug/L	<2.2	10.0	05/02/19 19:08	

LABORATORY CONTROL SAMPLE: 1860294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	497	99	80-120	
Barium, Dissolved	ug/L	500	485	97	80-120	
Cadmium, Dissolved	ug/L	500	501	100	80-120	
Cobalt, Dissolved	ug/L	500	487	97	80-120	
Iron, Dissolved	ug/L	5000	5080	102	80-120	
Lead, Dissolved	ug/L	500	484	97	80-120	
Manganese, Dissolved	ug/L	500	497	99	80-120	
Vanadium, Dissolved	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860295 1860296

Parameter	Units	40186580021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	<5.4	500	500	541	530	108	106	75-125	2	20	
Barium, Dissolved	ug/L	94.8	500	500	585	587	98	98	75-125	0	20	
Cadmium, Dissolved	ug/L	<1.3	500	500	513	521	102	104	75-125	2	20	
Cobalt, Dissolved	ug/L	<1.4	500	500	498	505	99	101	75-125	1	20	
Iron, Dissolved	ug/L	<35.4	5000	5000	5020	5050	100	101	75-125	0	20	
Lead, Dissolved	ug/L	<6.4	500	500	506	510	101	101	75-125	1	20	
Manganese, Dissolved	ug/L	1560	500	500	2030	2030	94	95	75-125	0	20	
Vanadium, Dissolved	ug/L	<2.2	500	500	507	506	101	101	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 319862 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 40186580027, 40186580028, 40186580029, 40186580030, 40186580031, 40186580032

METHOD BLANK: 1858468 Matrix: Water
Associated Lab Samples: 40186580027, 40186580028, 40186580029, 40186580030, 40186580031, 40186580032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.084	0.28	05/01/19 08:24	

LABORATORY CONTROL SAMPLE: 1858469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858470 1858471

Parameter	Units	40186550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.000084 mg/L	5	5	5.0	4.9	100	98	85-115	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320135 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40186580001, 40186580002, 40186580003, 40186580004, 40186580005, 40186580006, 40186580007, 40186580008, 40186580009

METHOD BLANK: 1859868 Matrix: Water
Associated Lab Samples: 40186580001, 40186580002, 40186580003, 40186580004, 40186580005, 40186580006, 40186580007, 40186580008, 40186580009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	0.16J	0.28	05/03/19 09:05	

LABORATORY CONTROL SAMPLE: 1859869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859870 1859871

Parameter	Units	40186580001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	0.17J	5	5	5.2	5.3	101	103	85-115	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320277 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40186580010, 40186580011, 40186580012, 40186580013, 40186580014, 40186580015, 40186580016, 40186580017, 40186580018, 40186580019, 40186580020, 40186580021, 40186580022, 40186580023, 40186580024, 40186580025, 40186580026, 40186580033, 40186580034

METHOD BLANK: 1860812 Matrix: Water
Associated Lab Samples: 40186580010, 40186580011, 40186580012, 40186580013, 40186580014, 40186580015, 40186580016, 40186580017, 40186580018, 40186580019, 40186580020, 40186580021, 40186580022, 40186580023, 40186580024, 40186580025, 40186580026, 40186580033, 40186580034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.084	0.28	05/06/19 09:01	

LABORATORY CONTROL SAMPLE: 1860813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860814 1860815

Parameter	Units	40186580010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.084	5	5	5.0	4.9	100	97	85-115	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320548 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40186580035, 40186580036

METHOD BLANK: 1861988 Matrix: Water
Associated Lab Samples: 40186580035, 40186580036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.084	0.28	05/07/19 13:07	

LABORATORY CONTROL SAMPLE: 1861989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1861990 1861991

Parameter	Units	40186580035 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.084	5	5	5.2	5.3	105	107	85-115	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 319839 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40186580027, 40186580028, 40186580029, 40186580030, 40186580031, 40186580032

METHOD BLANK: 1858371 Matrix: Water
Associated Lab Samples: 40186580027, 40186580028, 40186580029, 40186580030, 40186580031, 40186580032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<8.3	25.0	04/30/19 16:20	
Barium	ug/L	<1.5	5.0	04/30/19 16:20	
Cadmium	ug/L	<1.3	5.0	04/30/19 16:20	
Cobalt	ug/L	1.4J	5.0	04/30/19 16:20	
Iron	ug/L	<73.9	246	04/30/19 16:20	
Lead	ug/L	<5.9	19.7	04/30/19 16:20	
Manganese	ug/L	<1.5	5.1	04/30/19 16:20	
Vanadium	ug/L	<2.6	10.0	04/30/19 16:20	

LABORATORY CONTROL SAMPLE: 1858372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	493	99	80-120	
Barium	ug/L	500	505	101	80-120	
Cadmium	ug/L	500	517	103	80-120	
Cobalt	ug/L	500	513	103	80-120	
Iron	ug/L	5000	5210	104	80-120	
Lead	ug/L	500	495	99	80-120	
Manganese	ug/L	500	512	102	80-120	
Vanadium	ug/L	500	516	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858373 1858374

Parameter	Units	40186580027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<8.3	500	500	524	490	105	98	75-125	7	20	
Barium	ug/L	20.3	500	500	529	514	102	99	75-125	3	20	
Cadmium	ug/L	<1.3	500	500	522	507	104	101	75-125	3	20	
Cobalt	ug/L	<1.4	500	500	512	498	102	100	75-125	3	20	
Iron	ug/L	5440	5000	5000	10700	10500	105	101	75-125	2	20	
Lead	ug/L	<5.9	500	500	495	486	99	97	75-125	2	20	
Manganese	ug/L	145	500	500	658	640	102	99	75-125	3	20	
Vanadium	ug/L	2.7J	500	500	520	503	103	100	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 319733 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40186580004, 40186580005, 40186580006, 40186580007, 40186580009, 40186580010, 40186580014

METHOD BLANK: 1858040 Matrix: Water
Associated Lab Samples: 40186580004, 40186580005, 40186580006, 40186580007, 40186580009, 40186580010, 40186580014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/30/19 15:44	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/30/19 15:44	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/30/19 15:44	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/30/19 15:44	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/30/19 15:44	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/30/19 15:44	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/30/19 15:44	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/30/19 15:44	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/30/19 15:44	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/30/19 15:44	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/30/19 15:44	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/30/19 15:44	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/30/19 15:44	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/30/19 15:44	
2-Butanone (MEK)	ug/L	<2.9	20.0	04/30/19 15:44	
2-Hexanone	ug/L	<2.5	8.2	04/30/19 15:44	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.5	5.1	04/30/19 15:44	
Acetone	ug/L	<2.7	20.0	04/30/19 15:44	
Benzene	ug/L	<0.25	1.0	04/30/19 15:44	
Bromodichloromethane	ug/L	<0.36	1.2	04/30/19 15:44	
Bromoform	ug/L	<4.0	13.2	04/30/19 15:44	
Bromomethane	ug/L	<0.97	5.0	04/30/19 15:44	
Carbon disulfide	ug/L	<0.37	5.0	04/30/19 15:44	
Carbon tetrachloride	ug/L	<0.17	1.0	04/30/19 15:44	
Chlorobenzene	ug/L	<0.71	2.4	04/30/19 15:44	
Chloroethane	ug/L	<1.3	5.0	04/30/19 15:44	
Chloroform	ug/L	<1.3	5.0	04/30/19 15:44	
Chloromethane	ug/L	<2.2	7.3	04/30/19 15:44	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/30/19 15:44	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/30/19 15:44	
Dibromochloromethane	ug/L	<2.6	8.7	04/30/19 15:44	
Dibromomethane	ug/L	<0.94	3.1	04/30/19 15:44	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/30/19 15:44	
Ethylbenzene	ug/L	<0.22	1.0	04/30/19 15:44	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	04/30/19 15:44	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	04/30/19 15:44	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/30/19 15:44	
Methylene Chloride	ug/L	<0.58	5.0	04/30/19 15:44	
n-Butylbenzene	ug/L	<0.71	2.4	04/30/19 15:44	
n-Propylbenzene	ug/L	<0.81	5.0	04/30/19 15:44	
Naphthalene	ug/L	<1.2	5.0	04/30/19 15:44	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

METHOD BLANK: 1858040 Matrix: Water
Associated Lab Samples: 40186580004, 40186580005, 40186580006, 40186580007, 40186580009, 40186580010, 40186580014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/L	<0.80	2.7	04/30/19 15:44	
sec-Butylbenzene	ug/L	<0.85	5.0	04/30/19 15:44	
Styrene	ug/L	<0.47	1.6	04/30/19 15:44	
tert-Butylbenzene	ug/L	<0.30	1.0	04/30/19 15:44	
Tetrachloroethene	ug/L	<0.33	1.1	04/30/19 15:44	
Tetrahydrofuran	ug/L	<2.3	20.0	04/30/19 15:44	
Toluene	ug/L	<0.17	5.0	04/30/19 15:44	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/30/19 15:44	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/30/19 15:44	
Trichloroethene	ug/L	<0.26	1.0	04/30/19 15:44	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/30/19 15:44	
Vinyl chloride	ug/L	<0.17	1.0	04/30/19 15:44	
Xylene (Total)	ug/L	<1.5	3.0	04/30/19 15:44	
4-Bromofluorobenzene (S)	%	88	70-130	04/30/19 15:44	
Dibromofluoromethane (S)	%	120	70-130	04/30/19 15:44	
Toluene-d8 (S)	%	95	70-130	04/30/19 15:44	

LABORATORY CONTROL SAMPLE: 1858041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.6	95	70-130	
1,1,2-Trichloroethane	ug/L	50	52.7	105	70-130	
1,1-Dichloroethane	ug/L	50	53.5	107	73-150	
1,1-Dichloroethene	ug/L	50	57.3	115	73-138	
1,2-Dibromo-3-chloropropane	ug/L	50	40.1	80	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.4	101	70-130	
1,2-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane	ug/L	50	54.6	109	75-140	
1,2-Dichloropropane	ug/L	50	51.5	103	73-135	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	50.2	100	70-130	
Benzene	ug/L	50	56.6	113	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	51.1	102	68-129	
Bromomethane	ug/L	50	47.8	96	18-159	
Carbon disulfide	ug/L	50	56.3	113	69-132	
Carbon tetrachloride	ug/L	50	56.6	113	70-130	
Chlorobenzene	ug/L	50	55.2	110	70-130	
Chloroethane	ug/L	50	55.8	112	53-147	
Chloroform	ug/L	50	52.4	105	74-136	
Chloromethane	ug/L	50	34.7	69	29-115	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.9	90	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

LABORATORY CONTROL SAMPLE: 1858041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	32.2	64	10-130	
Ethylbenzene	ug/L	50	51.4	103	80-124	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	70-130	
Methyl-tert-butyl ether	ug/L	50	40.4	81	54-137	
Methylene Chloride	ug/L	50	61.1	122	73-138	
Styrene	ug/L	50	53.1	106	70-130	
Tetrachloroethene	ug/L	50	50.6	101	70-130	
Toluene	ug/L	50	54.3	109	80-126	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	73-145	
trans-1,3-Dichloropropene	ug/L	50	43.5	87	70-130	
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	56.9	114	76-147	
Vinyl chloride	ug/L	50	43.7	87	51-120	
Xylene (Total)	ug/L	150	161	107	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			109	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858457 1858458

Parameter	Units	40186524002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.3	52.0	105	104	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.7	46.3	95	93	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.7	50.4	97	101	70-137	3	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	52.5	52.2	105	104	73-153	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	56.9	57.1	114	114	73-138	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.4	36.6	81	73	58-129	10	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.5	48.0	97	96	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.2	49.1	102	98	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	54.7	53.9	109	108	75-140	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	50.3	50.0	101	100	71-138	1	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.3	49.3	101	99	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.7	50.9	103	102	70-130	2	20	
Benzene	ug/L	<0.25	50	50	55.0	55.7	110	111	70-130	1	20	
Bromodichloromethane	ug/L	<0.36	50	50	48.1	48.8	96	98	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	48.2	48.7	96	97	68-129	1	20	
Bromomethane	ug/L	<0.97	50	50	48.9	48.9	98	98	15-170	0	20	
Carbon disulfide	ug/L	<0.37	50	50	56.4	56.2	113	112	66-145	0	20	
Carbon tetrachloride	ug/L	<0.17	50	50	57.0	57.1	114	114	70-130	0	20	
Chlorobenzene	ug/L	<0.71	50	50	52.9	51.0	106	102	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	53.7	55.0	107	110	51-148	2	20	
Chloroform	ug/L	<1.3	50	50	55.1	54.6	110	109	74-136	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858457 1858458

Parameter	Units	40186524002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloromethane	ug/L	<2.2	50	50	32.7	33.4	65	67	23-115	2	20	
cis-1,2-Dichloroethene	ug/L	0.40J	50	50	51.6	52.6	102	104	70-131	2	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	43.6	44.9	87	90	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	45.1	46.2	90	92	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.7	25.7	55	51	10-132	7	20	
Ethylbenzene	ug/L	<0.22	50	50	49.1	49.1	98	98	80-125	0	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	49.9	50.6	100	101	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.3	38.7	79	77	51-145	2	20	
Methylene Chloride	ug/L	<0.58	50	50	62.1	58.9	124	118	73-140	5	20	
Styrene	ug/L	<0.47	50	50	50.1	50.0	100	100	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	49.6	50.4	99	101	70-130	1	20	
Toluene	ug/L	<0.17	50	50	51.0	51.3	102	103	80-131	0	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	55.7	54.6	111	109	73-148	2	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	41.4	41.5	83	83	70-130	0	20	
Trichloroethene	ug/L	0.67J	50	50	51.9	53.0	102	105	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	55.8	55.7	112	111	74-147	0	20	
Vinyl chloride	ug/L	<0.17	50	50	42.3	42.1	85	84	41-129	1	20	
Xylene (Total)	ug/L	<1.5	150	150	153	154	102	103	70-130	1	20	
4-Bromofluorobenzene (S)	%						96	94	70-130			
Dibromofluoromethane (S)	%						113	112	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 319734 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40186580015, 40186580017, 40186580018

METHOD BLANK: 1858042 Matrix: Water
Associated Lab Samples: 40186580015, 40186580017, 40186580018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	05/01/19 08:22	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	05/01/19 08:22	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	05/01/19 08:22	
1,1-Dichloroethane	ug/L	<0.27	1.0	05/01/19 08:22	
1,1-Dichloroethene	ug/L	<0.24	1.0	05/01/19 08:22	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/01/19 08:22	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	05/01/19 08:22	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	05/01/19 08:22	
1,2-Dichlorobenzene	ug/L	0.77J	2.4	05/01/19 08:22	
1,2-Dichloroethane	ug/L	<0.28	1.0	05/01/19 08:22	
1,2-Dichloropropane	ug/L	<0.28	1.0	05/01/19 08:22	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/01/19 08:22	
1,3-Dichlorobenzene	ug/L	0.84J	2.1	05/01/19 08:22	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	05/01/19 08:22	
2-Butanone (MEK)	ug/L	<2.9	20.0	05/01/19 08:22	
2-Hexanone	ug/L	<2.5	8.2	05/01/19 08:22	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.5	5.1	05/01/19 08:22	
Acetone	ug/L	<2.7	20.0	05/01/19 08:22	
Benzene	ug/L	<0.25	1.0	05/01/19 08:22	
Bromodichloromethane	ug/L	<0.36	1.2	05/01/19 08:22	
Bromoform	ug/L	<4.0	13.2	05/01/19 08:22	
Bromomethane	ug/L	<0.97	5.0	05/01/19 08:22	
Carbon disulfide	ug/L	<0.37	5.0	05/01/19 08:22	
Carbon tetrachloride	ug/L	<0.17	1.0	05/01/19 08:22	
Chlorobenzene	ug/L	<0.71	2.4	05/01/19 08:22	
Chloroethane	ug/L	<1.3	5.0	05/01/19 08:22	
Chloroform	ug/L	<1.3	5.0	05/01/19 08:22	
Chloromethane	ug/L	<2.2	7.3	05/01/19 08:22	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	05/01/19 08:22	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	05/01/19 08:22	
Dibromochloromethane	ug/L	<2.6	8.7	05/01/19 08:22	
Dibromomethane	ug/L	<0.94	3.1	05/01/19 08:22	
Dichlorodifluoromethane	ug/L	<0.50	5.0	05/01/19 08:22	
Ethylbenzene	ug/L	<0.22	1.0	05/01/19 08:22	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	05/01/19 08:22	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	05/01/19 08:22	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/01/19 08:22	
Methylene Chloride	ug/L	<0.58	5.0	05/01/19 08:22	
n-Butylbenzene	ug/L	<0.71	2.4	05/01/19 08:22	
n-Propylbenzene	ug/L	<0.81	5.0	05/01/19 08:22	
Naphthalene	ug/L	<1.2	5.0	05/01/19 08:22	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

METHOD BLANK: 1858042 Matrix: Water
Associated Lab Samples: 40186580015, 40186580017, 40186580018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/L	<0.80	2.7	05/01/19 08:22	
sec-Butylbenzene	ug/L	<0.85	5.0	05/01/19 08:22	
Styrene	ug/L	<0.47	1.6	05/01/19 08:22	
tert-Butylbenzene	ug/L	<0.30	1.0	05/01/19 08:22	
Tetrachloroethene	ug/L	<0.33	1.1	05/01/19 08:22	
Tetrahydrofuran	ug/L	<2.3	20.0	05/01/19 08:22	
Toluene	ug/L	<0.17	5.0	05/01/19 08:22	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	05/01/19 08:22	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	05/01/19 08:22	
Trichloroethene	ug/L	<0.26	1.0	05/01/19 08:22	
Trichlorofluoromethane	ug/L	<0.21	1.0	05/01/19 08:22	
Vinyl chloride	ug/L	<0.17	1.0	05/01/19 08:22	
Xylene (Total)	ug/L	<1.5	3.0	05/01/19 08:22	
4-Bromofluorobenzene (S)	%	90	70-130	05/01/19 08:22	
Dibromofluoromethane (S)	%	99	70-130	05/01/19 08:22	
Toluene-d8 (S)	%	97	70-130	05/01/19 08:22	

LABORATORY CONTROL SAMPLE: 1858043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.2	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.2	98	70-130	
1,1,2-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1-Dichloroethane	ug/L	50	51.8	104	73-150	
1,1-Dichloroethene	ug/L	50	50.5	101	73-138	
1,2-Dibromo-3-chloropropane	ug/L	50	48.0	96	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	70-130	
1,2-Dichlorobenzene	ug/L	50	54.2	108	70-130	
1,2-Dichloroethane	ug/L	50	50.2	100	75-140	
1,2-Dichloropropane	ug/L	50	48.1	96	73-135	
1,3-Dichlorobenzene	ug/L	50	52.7	105	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
Benzene	ug/L	50	52.9	106	70-130	
Bromodichloromethane	ug/L	50	54.1	108	70-130	
Bromoform	ug/L	50	49.4	99	68-129	
Bromomethane	ug/L	50	37.2	74	18-159	
Carbon disulfide	ug/L	50	50.2	100	69-132	
Carbon tetrachloride	ug/L	50	54.0	108	70-130	
Chlorobenzene	ug/L	50	56.2	112	70-130	
Chloroethane	ug/L	50	41.7	83	53-147	
Chloroform	ug/L	50	52.2	104	74-136	
Chloromethane	ug/L	50	27.2	54	29-115	
cis-1,2-Dichloroethene	ug/L	50	51.2	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.4	97	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

LABORATORY CONTROL SAMPLE: 1858043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	55.8	112	70-130	
Dichlorodifluoromethane	ug/L	50	24.2	48	10-130	
Ethylbenzene	ug/L	50	58.5	117	80-124	
Isopropylbenzene (Cumene)	ug/L	50	56.8	114	70-130	
Methyl-tert-butyl ether	ug/L	50	50.4	101	54-137	
Methylene Chloride	ug/L	50	55.1	110	73-138	
Styrene	ug/L	50	54.4	109	70-130	
Tetrachloroethene	ug/L	50	54.8	110	70-130	
Toluene	ug/L	50	56.7	113	80-126	
trans-1,2-Dichloroethene	ug/L	50	56.6	113	73-145	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	70-130	
Trichloroethene	ug/L	50	55.5	111	70-130	
Trichlorofluoromethane	ug/L	50	51.2	102	76-147	
Vinyl chloride	ug/L	50	34.5	69	51-120	
Xylene (Total)	ug/L	150	179	119	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859393 1859394

Parameter	Units	40186580015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.4	52.5	103	105	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	46.6	48.2	93	96	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.3	51.1	103	102	70-137	0	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	48.5	49.2	97	98	73-153	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	49.9	51.1	100	102	73-138	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	51.5	54.9	103	110	58-129	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.1	52.3	100	105	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.8	53.3	106	107	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	47.7	48.5	95	97	75-140	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	45.5	45.0	91	90	71-138	1	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.5	51.8	101	104	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.7	50.9	101	102	70-130	0	20	
Benzene	ug/L	<0.25	50	50	50.2	50.2	100	100	70-130	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	51.1	52.1	102	104	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	46.8	47.8	94	96	68-129	2	20	
Bromomethane	ug/L	<0.97	50	50	37.1	37.2	74	74	15-170	0	20	
Carbon disulfide	ug/L	<0.37	50	50	48.4	48.0	97	96	66-145	1	20	
Carbon tetrachloride	ug/L	<0.17	50	50	52.4	51.7	105	103	70-130	1	20	
Chlorobenzene	ug/L	<0.71	50	50	53.0	53.5	106	107	70-130	1	20	
Chloroethane	ug/L	<1.3	50	50	40.2	40.5	80	81	51-148	1	20	
Chloroform	ug/L	<1.3	50	50	48.9	48.8	98	98	74-136	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859393 1859394

Parameter	Units	40186580015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloromethane	ug/L	<2.2	50	50	27.0	25.8	54	52	23-115	4	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	48.5	49.7	97	99	70-131	2	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.3	47.3	93	95	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	51.7	52.7	103	105	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	24.7	24.4	49	49	10-132	1	20	
Ethylbenzene	ug/L	0.60J	50	50	55.4	55.9	110	111	80-125	1	20	
Isopropylbenzene (Cumene)	ug/L	2.6J	50	50	55.3	55.6	105	106	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	48.0	51.2	96	102	51-145	6	20	
Methylene Chloride	ug/L	<0.58	50	50	53.4	52.8	107	106	73-140	1	20	
Styrene	ug/L	<0.47	50	50	52.9	53.1	106	106	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	50.8	51.4	102	103	70-130	1	20	
Toluene	ug/L	<0.17	50	50	53.3	53.7	107	107	80-131	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	54.1	54.3	108	109	73-148	0	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.9	47.8	94	96	70-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	51.4	52.8	103	106	70-130	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	48.4	50.1	97	100	74-147	3	20	
Vinyl chloride	ug/L	<0.17	50	50	33.8	33.8	68	68	41-129	0	20	
Xylene (Total)	ug/L	1.7J	150	150	173	174	114	115	70-130	1	20	
4-Bromofluorobenzene (S)	%						100	99	70-130			
Dibromofluoromethane (S)	%						100	97	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 319736 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40186580019, 40186580025, 40186580026, 40186580027, 40186580028, 40186580029, 40186580030, 40186580031, 40186580032, 40186580033, 40186580035, 40186580037

METHOD BLANK: 1858046 Matrix: Water
Associated Lab Samples: 40186580019, 40186580025, 40186580026, 40186580027, 40186580028, 40186580029, 40186580030, 40186580031, 40186580032, 40186580033, 40186580035, 40186580037

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	05/01/19 06:16	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	05/01/19 06:16	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	05/01/19 06:16	
1,1-Dichloroethane	ug/L	<0.27	1.0	05/01/19 06:16	
1,1-Dichloroethene	ug/L	<0.24	1.0	05/01/19 06:16	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/01/19 06:16	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	05/01/19 06:16	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	05/01/19 06:16	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	05/01/19 06:16	
1,2-Dichloroethane	ug/L	<0.28	1.0	05/01/19 06:16	
1,2-Dichloropropane	ug/L	<0.28	1.0	05/01/19 06:16	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/01/19 06:16	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	05/01/19 06:16	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	05/01/19 06:16	
2-Butanone (MEK)	ug/L	<2.9	20.0	05/01/19 06:16	
2-Hexanone	ug/L	<2.5	8.2	05/01/19 06:16	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.5	5.1	05/01/19 06:16	
Acetone	ug/L	<2.7	20.0	05/01/19 06:16	
Benzene	ug/L	<0.25	1.0	05/01/19 06:16	
Bromodichloromethane	ug/L	<0.36	1.2	05/01/19 06:16	
Bromoform	ug/L	<4.0	13.2	05/01/19 06:16	
Bromomethane	ug/L	<0.97	5.0	05/01/19 06:16	
Carbon disulfide	ug/L	<0.37	5.0	05/01/19 06:16	
Carbon tetrachloride	ug/L	<0.17	1.0	05/01/19 06:16	
Chlorobenzene	ug/L	<0.71	2.4	05/01/19 06:16	
Chloroethane	ug/L	<1.3	5.0	05/01/19 06:16	
Chloroform	ug/L	<1.3	5.0	05/01/19 06:16	
Chloromethane	ug/L	<2.2	7.3	05/01/19 06:16	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	05/01/19 06:16	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	05/01/19 06:16	
Dibromochloromethane	ug/L	<2.6	8.7	05/01/19 06:16	
Dibromomethane	ug/L	<0.94	3.1	05/01/19 06:16	
Dichlorodifluoromethane	ug/L	<0.50	5.0	05/01/19 06:16	
Ethylbenzene	ug/L	<0.22	1.0	05/01/19 06:16	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	05/01/19 06:16	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	05/01/19 06:16	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/01/19 06:16	
Methylene Chloride	ug/L	<0.58	5.0	05/01/19 06:16	
n-Butylbenzene	ug/L	<0.71	2.4	05/01/19 06:16	
n-Propylbenzene	ug/L	<0.81	5.0	05/01/19 06:16	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

METHOD BLANK: 1858046 Matrix: Water

Associated Lab Samples: 40186580019, 40186580025, 40186580026, 40186580027, 40186580028, 40186580029, 40186580030, 40186580031, 40186580032, 40186580033, 40186580035, 40186580037

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	<1.2	5.0	05/01/19 06:16	
p-Isopropyltoluene	ug/L	<0.80	2.7	05/01/19 06:16	
sec-Butylbenzene	ug/L	<0.85	5.0	05/01/19 06:16	
Styrene	ug/L	<0.47	1.6	05/01/19 06:16	
tert-Butylbenzene	ug/L	<0.30	1.0	05/01/19 06:16	
Tetrachloroethene	ug/L	<0.33	1.1	05/01/19 06:16	
Tetrahydrofuran	ug/L	<2.3	20.0	05/01/19 06:16	
Toluene	ug/L	<0.17	5.0	05/01/19 06:16	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	05/01/19 06:16	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	05/01/19 06:16	
Trichloroethene	ug/L	<0.26	1.0	05/01/19 06:16	
Trichlorofluoromethane	ug/L	<0.21	1.0	05/01/19 06:16	
Vinyl chloride	ug/L	<0.17	1.0	05/01/19 06:16	
Xylene (Total)	ug/L	<1.5	3.0	05/01/19 06:16	
4-Bromofluorobenzene (S)	%	88	70-130	05/01/19 06:16	
Dibromofluoromethane (S)	%	119	70-130	05/01/19 06:16	
Toluene-d8 (S)	%	96	70-130	05/01/19 06:16	

LABORATORY CONTROL SAMPLE: 1858047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.2	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	70-130	
1,1,2-Trichloroethane	ug/L	50	53.8	108	70-130	
1,1-Dichloroethane	ug/L	50	55.1	110	73-150	
1,1-Dichloroethene	ug/L	50	59.5	119	73-138	
1,2-Dibromo-3-chloropropane	ug/L	50	44.5	89	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	54.0	108	70-130	
1,2-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,2-Dichloroethane	ug/L	50	56.4	113	75-140	
1,2-Dichloropropane	ug/L	50	52.3	105	73-135	
1,3-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,4-Dichlorobenzene	ug/L	50	52.6	105	70-130	
Benzene	ug/L	50	58.2	116	70-130	
Bromodichloromethane	ug/L	50	51.7	103	70-130	
Bromoform	ug/L	50	52.5	105	68-129	
Bromomethane	ug/L	50	48.4	97	18-159	
Carbon disulfide	ug/L	50	60.6	121	69-132	
Carbon tetrachloride	ug/L	50	56.7	113	70-130	
Chlorobenzene	ug/L	50	55.0	110	70-130	
Chloroethane	ug/L	50	61.2	122	53-147	
Chloroform	ug/L	50	53.5	107	74-136	
Chloromethane	ug/L	50	38.3	77	29-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

LABORATORY CONTROL SAMPLE: 1858047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	54.7	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.9	92	70-130	
Dibromochloromethane	ug/L	50	48.8	98	70-130	
Dichlorodifluoromethane	ug/L	50	39.8	80	10-130	
Ethylbenzene	ug/L	50	53.0	106	80-124	
Isopropylbenzene (Cumene)	ug/L	50	54.6	109	70-130	
Methyl-tert-butyl ether	ug/L	50	43.3	87	54-137	
Methylene Chloride	ug/L	50	62.0	124	73-138	
Styrene	ug/L	50	54.7	109	70-130	
Tetrachloroethene	ug/L	50	52.5	105	70-130	
Toluene	ug/L	50	53.8	108	80-126	
trans-1,2-Dichloroethene	ug/L	50	56.7	113	73-145	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	70-130	
Trichloroethene	ug/L	50	56.0	112	70-130	
Trichlorofluoromethane	ug/L	50	59.3	119	76-147	
Vinyl chloride	ug/L	50	49.8	100	51-120	
Xylene (Total)	ug/L	150	166	111	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			114	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858449 1858450

Parameter	Units	40186580025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	56.2	54.4	112	109	70-130	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.8	48.3	100	97	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.6	52.3	111	105	70-137	6	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	57.5	54.3	115	109	73-153	6	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	62.7	59.0	125	118	73-138	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	41.6	40.4	83	81	58-129	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	54.7	51.2	109	102	70-130	7	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.9	52.6	106	105	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	58.6	54.7	117	109	75-140	7	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	54.0	51.2	108	102	71-138	5	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	53.4	50.5	107	101	70-130	6	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.9	51.7	106	103	70-130	2	20	
Benzene	ug/L	<0.25	50	50	61.0	57.0	122	114	70-130	7	20	
Bromodichloromethane	ug/L	<0.36	50	50	52.2	49.5	104	99	70-130	5	20	
Bromoform	ug/L	<4.0	50	50	52.6	50.3	105	101	68-129	4	20	
Bromomethane	ug/L	<0.97	50	50	56.7	58.4	113	117	15-170	3	20	
Carbon disulfide	ug/L	<0.37	50	50	63.5	58.2	127	116	66-145	9	20	
Carbon tetrachloride	ug/L	<0.17	50	50	61.5	57.2	123	114	70-130	7	20	
Chlorobenzene	ug/L	<0.71	50	50	56.5	54.3	113	109	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858449 1858450

Parameter	Units	40186580025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<1.3	50	50	62.6	57.2	125	114	51-148	9	20	
Chloroform	ug/L	<1.3	50	50	59.1	55.3	118	111	74-136	7	20	
Chloromethane	ug/L	<2.2	50	50	41.3	37.0	83	74	23-115	11	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	59.4	55.5	119	111	70-131	7	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	48.6	46.8	97	94	70-130	4	20	
Dibromochloromethane	ug/L	<2.6	50	50	51.0	47.7	102	95	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	39.7	38.3	79	77	10-132	4	20	
Ethylbenzene	ug/L	<0.22	50	50	54.5	51.0	109	102	80-125	7	20	
Isopropylbenzene (Cumene)	ug/L	1.8J	50	50	57.9	55.3	112	107	70-130	5	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.8	41.7	90	83	51-145	7	20	
Methylene Chloride	ug/L	<0.58	50	50	64.7	61.1	129	122	73-140	6	20	
Styrene	ug/L	<0.47	50	50	56.1	52.1	112	104	70-130	7	20	
Tetrachloroethene	ug/L	<0.33	50	50	53.5	50.2	107	100	70-130	6	20	
Toluene	ug/L	<0.17	50	50	54.4	52.3	109	105	80-131	4	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	59.6	55.8	119	112	73-148	6	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	45.1	42.8	90	86	70-130	5	20	
Trichloroethene	ug/L	<0.26	50	50	56.5	53.4	113	107	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	62.9	58.0	126	116	74-147	8	20	
Vinyl chloride	ug/L	<0.17	50	50	52.5	50.1	105	100	41-129	5	20	
Xylene (Total)	ug/L	<1.5	150	150	172	161	114	106	70-130	7	20	
4-Bromofluorobenzene (S)	%						98	95	70-130			
Dibromofluoromethane (S)	%						117	106	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320169 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40186580007, 40186580010, 40186580011, 40186580012, 40186580014, 40186580016, 40186580022, 40186580023, 40186580024

METHOD BLANK: 1860084 Matrix: Water
Associated Lab Samples: 40186580007, 40186580010, 40186580011, 40186580012, 40186580014, 40186580016, 40186580022, 40186580023, 40186580024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	8.1J	23.5	05/03/19 12:17	

LABORATORY CONTROL SAMPLE: 1860085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	105	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860086 1860087

Parameter	Units	40186514001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	144	500	500	628	654	97	102	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860088 1860089

Parameter	Units	40186516002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	306	500	500	764	768	92	92	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320170 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40186580002, 40186580003, 40186580004, 40186580005, 40186580013, 40186580015, 40186580017, 40186580018, 40186580019, 40186580020, 40186580021, 40186580025, 40186580026, 40186580033, 40186580034, 40186580035

METHOD BLANK: 1860090 Matrix: Water
Associated Lab Samples: 40186580002, 40186580003, 40186580004, 40186580005, 40186580013, 40186580015, 40186580017, 40186580018, 40186580019, 40186580020, 40186580021, 40186580025, 40186580026, 40186580033, 40186580034, 40186580035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	05/03/19 12:37	

LABORATORY CONTROL SAMPLE: 1860091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860092 1860093

Parameter	Units	40186580033 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	290	200	200	502	499	106	104	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860094 1860095

Parameter	Units	40186800002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	211	200	200	402	406	96	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320371 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40186580001, 40186580006, 40186580008, 40186580009

METHOD BLANK: 1861238 Matrix: Water
Associated Lab Samples: 40186580001, 40186580006, 40186580008, 40186580009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	05/06/19 09:40	

LABORATORY CONTROL SAMPLE: 1861239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	93.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1861240 1861241

Parameter	Units	40186338012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	382	200	200	594	579	106	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1861242 1861243

Parameter	Units	40186580009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	223	200	200	422	431	100	104	90-110	2	20	

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 319957 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 40186580001, 40186580002, 40186580003, 40186580004, 40186580005, 40186580006, 40186580007, 40186580008, 40186580009, 40186580010, 40186580011

METHOD BLANK: 1858975 Matrix: Water
Associated Lab Samples: 40186580001, 40186580002, 40186580003, 40186580004, 40186580005, 40186580006, 40186580007, 40186580008, 40186580009, 40186580010, 40186580011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.25	0.85	05/02/19 06:36	
Total Organic Carbon	mg/L	<0.25	0.85	05/02/19 06:36	
Total Organic Carbon	mg/L	<0.25	0.85	05/02/19 06:36	
Total Organic Carbon	mg/L	<0.25	0.85	05/02/19 06:36	
Total Organic Carbon	mg/L	<0.25	0.85	05/02/19 06:36	

LABORATORY CONTROL SAMPLE: 1858976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	2.5	2.6	105	80-120	
Total Organic Carbon	mg/L	2.5	2.6	105		
Total Organic Carbon	mg/L	2.5	2.6	105		
Total Organic Carbon	mg/L	2.5	2.6	105		
Total Organic Carbon	mg/L	2.5	2.6	105		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858977 1858978

Parameter	Units	40186440003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/L	10.9	6	6	17.6	17.5	112	110	80-120	1	20	
Total Organic Carbon	mg/L	10.7	6	6	17.5	17.5	115	114		0		
Total Organic Carbon	mg/L	11.4	6	6	17.6	17.6	104	103		0		
Total Organic Carbon	mg/L	10.1	6	6	17.5	17.2	124	119		2		
Total Organic Carbon	mg/L	11.3	6	6	17.6	17.5	105	104		0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1858979 1858980

Parameter	Units	40186580005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/L	5.7	6	6	12.4	12.4	112	111	80-120	0	20	
Total Organic Carbon	mg/L	5.8	6	6	12.4	12.4	110	110		0		
Total Organic Carbon	mg/L	5.7	6	6	12.5	12.3	113	110		1		
Total Organic Carbon	mg/L	5.6	6	6	12.3	12.5	113	116		1		
Total Organic Carbon	mg/L	5.8	6	6	12.4	12.3	110	109		1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

QC Batch: 320242 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 40186580012, 40186580013, 40186580014, 40186580015, 40186580016, 40186580017, 40186580018, 40186580019, 40186580020, 40186580021, 40186580022, 40186580023, 40186580024, 40186580025, 40186580026, 40186580033, 40186580034, 40186580035

METHOD BLANK: 1860675 Matrix: Water
Associated Lab Samples: 40186580012, 40186580013, 40186580014, 40186580015, 40186580016, 40186580017, 40186580018, 40186580019, 40186580020, 40186580021, 40186580022, 40186580023, 40186580024, 40186580025, 40186580026, 40186580033, 40186580034, 40186580035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.25	0.85	05/03/19 11:35	
Total Organic Carbon	mg/L	<0.25	0.85	05/03/19 11:35	
Total Organic Carbon	mg/L	<0.25	0.85	05/03/19 11:35	
Total Organic Carbon	mg/L	<0.25	0.85	05/03/19 11:35	
Total Organic Carbon	mg/L	<0.25	0.85	05/03/19 11:35	

LABORATORY CONTROL SAMPLE: 1860676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	2.5	2.6	105	80-120	
Total Organic Carbon	mg/L	2.5	2.7	107		
Total Organic Carbon	mg/L	2.5	2.6	105		
Total Organic Carbon	mg/L	2.5	2.6	103		
Total Organic Carbon	mg/L	2.5	2.6	105		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860677 1860678

Parameter	Units	40186580015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/L	3.4	3	3	6.9	7.0	116	119	80-120	1	20	
Total Organic Carbon	mg/L	3.3	3	3	6.9	7.1	122	128		3		
Total Organic Carbon	mg/L	3.6	3	3	6.9	6.8	112	107		2		
Total Organic Carbon	mg/L	3.3	3	3	6.8	7.0	116	123		3		
Total Organic Carbon	mg/L	3.4	3	3	6.9	7.0	116	118		1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860679 1860680

Parameter	Units	40186580018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/L	5.2	3	3	8.6	8.5	112	111	80-120	0	20	
Total Organic Carbon	mg/L	5.2	3	3	8.6	8.6	113	112		0		
Total Organic Carbon	mg/L	5.1	3	3	8.5	8.5	112	110		0		
Total Organic Carbon	mg/L	5.2	3	3	8.5	8.5	111	111		0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860679 1860680

Parameter	Units	40186580018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.2	3	3	8.6	8.5	112	110		1		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Analyte was measured in the associated method blank at a concentration of -6.0 ug/L.
B	Analyte was detected in the associated method blank.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186580027	**PW-1**	EPA 3010	319839	EPA 6010	319938
40186580028	**PW-2**	EPA 3010	319839	EPA 6010	319938
40186580029	**PW-3**	EPA 3010	319839	EPA 6010	319938
40186580030	**PW-4**	EPA 3010	319839	EPA 6010	319938
40186580031	**PW-5**	EPA 3010	319839	EPA 6010	319938
40186580032	**PW-6**	EPA 3010	319839	EPA 6010	319938
40186580001	**MW-1SR**	EPA 6010	320178		
40186580002	**MW-2S**	EPA 6010	320178		
40186580003	**MW-2M**	EPA 6010	320178		
40186580004	**MW-4S**	EPA 6010	320178		
40186580005	**MW-5S**	EPA 6010	320178		
40186580006	**MW-6S**	EPA 6010	320178		
40186580007	**MW-6M**	EPA 6010	320178		
40186580008	**MW-7M**	EPA 6010	320178		
40186580009	**MW-8S**	EPA 6010	320178		
40186580010	**MW-8M**	EPA 6010	320178		
40186580011	**MW-9M**	EPA 6010	320178		
40186580012	**MW-10M**	EPA 6010	320178		
40186580013	**MW-11M**	EPA 6010	320178		
40186580014	**MW-12S**	EPA 6010	320178		
40186580015	**MW-14S**	EPA 6010	320178		
40186580016	**MW-15M**	EPA 6010	320178		
40186580017	**MW-16S**	EPA 6010	320178		
40186580018	**MW-16M**	EPA 6010	320178		
40186580019	**MW-17S**	EPA 6010	320178		
40186580020	**MW-17M**	EPA 6010	320178		
40186580021	**PZ-1**	EPA 6010	320198		
40186580022	**PZ-2**	EPA 6010	320198		
40186580023	**PZ-3**	EPA 6010	320198		
40186580024	**PZ-4**	EPA 6010	320198		
40186580025	**PZ-5**	EPA 6010	320198		
40186580026	**PZ-6**	EPA 6010	320198		
40186580033	**MW-16S DUP**	EPA 6010	320198		
40186580034	**MW-4S DUP**	EPA 6010	320198		
40186580035	**PZ-6 DUP**	EPA 6010	320198		
40186580036	**MW-2S DUP**	EPA 6010	320198		
40186580027	**PW-1**	EPA 7470	319862	EPA 7470	319928
40186580028	**PW-2**	EPA 7470	319862	EPA 7470	319928
40186580029	**PW-3**	EPA 7470	319862	EPA 7470	319928
40186580030	**PW-4**	EPA 7470	319862	EPA 7470	319928
40186580031	**PW-5**	EPA 7470	319862	EPA 7470	319928
40186580032	**PW-6**	EPA 7470	319862	EPA 7470	319928
40186580001	**MW-1SR**	EPA 7470	320135	EPA 7470	320206
40186580002	**MW-2S**	EPA 7470	320135	EPA 7470	320206
40186580003	**MW-2M**	EPA 7470	320135	EPA 7470	320206
40186580004	**MW-4S**	EPA 7470	320135	EPA 7470	320206
40186580005	**MW-5S**	EPA 7470	320135	EPA 7470	320206

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186580006	MW-6S	EPA 7470	320135	EPA 7470	320206
40186580007	MW-6M	EPA 7470	320135	EPA 7470	320206
40186580008	MW-7M	EPA 7470	320135	EPA 7470	320206
40186580009	MW-8S	EPA 7470	320135	EPA 7470	320206
40186580010	MW-8M	EPA 7470	320277	EPA 7470	320346
40186580011	MW-9M	EPA 7470	320277	EPA 7470	320346
40186580012	MW-10M	EPA 7470	320277	EPA 7470	320346
40186580013	MW-11M	EPA 7470	320277	EPA 7470	320346
40186580014	MW-12S	EPA 7470	320277	EPA 7470	320346
40186580015	MW-14S	EPA 7470	320277	EPA 7470	320346
40186580016	MW-15M	EPA 7470	320277	EPA 7470	320346
40186580017	MW-16S	EPA 7470	320277	EPA 7470	320346
40186580018	MW-16M	EPA 7470	320277	EPA 7470	320346
40186580019	MW-17S	EPA 7470	320277	EPA 7470	320346
40186580020	MW-17M	EPA 7470	320277	EPA 7470	320346
40186580021	PZ-1	EPA 7470	320277	EPA 7470	320346
40186580022	PZ-2	EPA 7470	320277	EPA 7470	320346
40186580023	PZ-3	EPA 7470	320277	EPA 7470	320346
40186580024	PZ-4	EPA 7470	320277	EPA 7470	320346
40186580025	PZ-5	EPA 7470	320277	EPA 7470	320346
40186580026	PZ-6	EPA 7470	320277	EPA 7470	320346
40186580033	MW-16S DUP	EPA 7470	320277	EPA 7470	320346
40186580034	MW-4S DUP	EPA 7470	320277	EPA 7470	320346
40186580035	PZ-6 DUP	EPA 7470	320548	EPA 7470	320612
40186580036	MW-2S DUP	EPA 7470	320548	EPA 7470	320612
40186580004	MW-4S	EPA 8260	319733		
40186580005	MW-5S	EPA 8260	319733		
40186580006	MW-6S	EPA 8260	319733		
40186580007	MW-6M	EPA 8260	319733		
40186580009	MW-8S	EPA 8260	319733		
40186580010	MW-8M	EPA 8260	319733		
40186580014	MW-12S	EPA 8260	319733		
40186580015	MW-14S	EPA 8260	319734		
40186580017	MW-16S	EPA 8260	319734		
40186580018	MW-16M	EPA 8260	319734		
40186580019	MW-17S	EPA 8260	319736		
40186580025	PZ-5	EPA 8260	319736		
40186580026	PZ-6	EPA 8260	319736		
40186580027	PW-1	EPA 8260	319736		
40186580028	PW-2	EPA 8260	319736		
40186580029	PW-3	EPA 8260	319736		
40186580030	PW-4	EPA 8260	319736		
40186580031	PW-5	EPA 8260	319736		
40186580032	PW-6	EPA 8260	319736		
40186580033	MW-16S DUP	EPA 8260	319736		
40186580035	PZ-6 DUP	EPA 8260	319736		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186580037	TRIP BLANK	EPA 8260	319736		
40186580001	MW-1SR				
40186580002	MW-2S				
40186580003	MW-2M				
40186580004	MW-4S				
40186580005	MW-5S				
40186580006	MW-6S				
40186580007	MW-6M				
40186580008	MW-7M				
40186580009	MW-8S				
40186580010	MW-8M				
40186580011	MW-9M				
40186580012	MW-10M				
40186580013	MW-11M				
40186580014	MW-12S				
40186580015	MW-14S				
40186580016	MW-15M				
40186580017	MW-16S				
40186580018	MW-16M				
40186580019	MW-17S				
40186580020	MW-17M				
40186580021	PZ-1				
40186580022	PZ-2				
40186580023	PZ-3				
40186580024	PZ-4				
40186580025	PZ-5				
40186580026	PZ-6				
40186580033	MW-16S DUP				
40186580034	MW-4S DUP				
40186580035	PZ-6 DUP				
40186580036	MW-2S DUP				
40186580038	MW-8D				
40186580001	MW-1SR	EPA 310.2	320371		
40186580002	MW-2S	EPA 310.2	320170		
40186580003	MW-2M	EPA 310.2	320170		
40186580004	MW-4S	EPA 310.2	320170		
40186580005	MW-5S	EPA 310.2	320170		
40186580006	MW-6S	EPA 310.2	320371		
40186580007	MW-6M	EPA 310.2	320169		
40186580008	MW-7M	EPA 310.2	320371		
40186580009	MW-8S	EPA 310.2	320371		
40186580010	MW-8M	EPA 310.2	320169		
40186580011	MW-9M	EPA 310.2	320169		
40186580012	MW-10M	EPA 310.2	320169		
40186580013	MW-11M	EPA 310.2	320170		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186580014	MW-12S	EPA 310.2	320169		
40186580015	MW-14S	EPA 310.2	320170		
40186580016	MW-15M	EPA 310.2	320169		
40186580017	MW-16S	EPA 310.2	320170		
40186580018	MW-16M	EPA 310.2	320170		
40186580019	MW-17S	EPA 310.2	320170		
40186580020	MW-17M	EPA 310.2	320170		
40186580021	PZ-1	EPA 310.2	320170		
40186580022	PZ-2	EPA 310.2	320169		
40186580023	PZ-3	EPA 310.2	320169		
40186580024	PZ-4	EPA 310.2	320169		
40186580025	PZ-5	EPA 310.2	320170		
40186580026	PZ-6	EPA 310.2	320170		
40186580033	MW-16S DUP	EPA 310.2	320170		
40186580034	MW-4S DUP	EPA 310.2	320170		
40186580035	PZ-6 DUP	EPA 310.2	320170		
40186580001	MW-1SR	EPA 9060	319957		
40186580002	MW-2S	EPA 9060	319957		
40186580003	MW-2M	EPA 9060	319957		
40186580004	MW-4S	EPA 9060	319957		
40186580005	MW-5S	EPA 9060	319957		
40186580006	MW-6S	EPA 9060	319957		
40186580007	MW-6M	EPA 9060	319957		
40186580008	MW-7M	EPA 9060	319957		
40186580009	MW-8S	EPA 9060	319957		
40186580010	MW-8M	EPA 9060	319957		
40186580011	MW-9M	EPA 9060	319957		
40186580012	MW-10M	EPA 9060	320242		
40186580013	MW-11M	EPA 9060	320242		
40186580014	MW-12S	EPA 9060	320242		
40186580015	MW-14S	EPA 9060	320242		
40186580016	MW-15M	EPA 9060	320242		
40186580017	MW-16S	EPA 9060	320242		
40186580018	MW-16M	EPA 9060	320242		
40186580019	MW-17S	EPA 9060	320242		
40186580020	MW-17M	EPA 9060	320242		
40186580021	PZ-1	EPA 9060	320242		
40186580022	PZ-2	EPA 9060	320242		
40186580023	PZ-3	EPA 9060	320242		
40186580024	PZ-4	EPA 9060	320242		
40186580025	PZ-5	EPA 9060	320242		
40186580026	PZ-6	EPA 9060	320242		
40186580033	MW-16S DUP	EPA 9060	320242		
40186580034	MW-4S DUP	EPA 9060	320242		
40186580035	PZ-6 DUP	EPA 9060	320242		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40186580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 3

COC No. 40186580

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	The OS Group LLC
Branch/Location:	LaCrosse WI
Project Contact:	Steven Osesek
Phone:	608-433-9388
Project Number:	
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	Steven Osesek
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Steven Osesek
Mail To Company:	The OS Group LLC
Mail To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Contact:	Steven Osesek
Invoice To Company:	The OS Group LLC
Invoice To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Phone:	608-433-9388

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water
B = Biota, DW = Drinking Water
C = Charcoal, GW = Ground Water
O = Oil, SW = Surface Water
S = Soil, WW = Waste Water
SI = Sludge, WP = Wipe

FILTERED? (YES/NO) PRESERVATION (CODE)*

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	VOCs 8260 (B)	Metals, Diss* 6010/7470 (D)	Alkalinity 310.2 (A)	TOC 9060 (C)	Metals, Total* 6010/7470 (D)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Analyses Requested				N	B	N	Y D	N A	N C	N D			
001	MW-1SR	4-22-19	1:30	GW				X	X	X				
002	MW-2S	4-25	11:50	GW				X	X	X		Metals: As, Ba, Cd, Co, Fe, Pb, Mn, V, Hg		
003	MW-2M	4-25	12:10					X	X	X				
004	MW-4S	4-24	5:00				X	X	X	X				
005	MW-5S	4-24	1:35				X	X	X	X				
006	MW-6S	4-22	4:45				X	X	X	X				
007	MW-6M	4-23	11:15				X	X	X	X				
008	MW-7M	4-22-19	1:00					X	X	X				
009	MW-8S	4-22	2:50				X	X	X	X				
010	MW-8M	4-22	3:10				X	X	X	X				
011	MW-9M	4-23	3:30					X	X	X				
012	MW-10M	4-23	3:00					X	X	X				
013	MW-11M	4-24	11:05					X	X	X				

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steven Osesek	4/25/19 3:30		
FedEx	4-26-19 0955	Susan Ulbrich	4-26-19 0955

PACE Project No. 40186580

Receipt Temp = ROT °C

Sample Receipt pH: (OK) / Adjusted

Cooler Custody Seal: Present / (Not Present)

Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 **WI:** 920-469-2436

Page 2 of 3

COC No. 40186580

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	The OS Group LLC
Branch/Location:	LaCrosse WI
Project Contact:	Steven Osesek
Phone:	608-433-9388
Project Number:	1701119
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	Steven Osesek
Sampled By (Sign):	Steven Osesek
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Steven Osesek
Mail To Company:	The OS Group LLC
Mail To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Contact:	Steven Osesek
Invoice To Company:	The OS Group LLC
Invoice To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Phone:	608-433-9388

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

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PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: VOCs 8260	Metals, Diss* 6010/7470	Alkalinity 310.2	TOC 9060	Metals, Total* 6010/7470	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				N	Y	N	N	N			
	PRESERVATION (CODE)*				B	D	A	C	D			
014	MW-12S • 4/23	4-23	5:30	GW	X	X	X	X				
015	MW-14S	4-24	12:40		X	X	X	X		Metals: As, Ba, Cd, Co, Fe, Pb, Mn, V, Hg		
016	MW-15M	4-23	10:50			X	X	X				
017	MW-16S	4-24	3:35		X	X	X	X				
018	MW-16M	4-24	4:05		X	X	X	X				
019	MW-17S	4-24	2:20		X	X	X	X				
020	MW-17M	4-24	2:35			X	X	X				
021	PZ-1	4-24	12:10			X	X	X				
022	PZ-2	4-23	1:45			X	X	X				
023	PZ-3	4-23	12:45			X	X	X				
024	PZ-4	4-23	2:30			X	X	X				
025	PZ-5	4-25	10:30		X	X	X	X				
026	PZ-6	4-25	10:10		X	X	X	X				

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

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Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steven Osesek	4/25/19 3:30		
	4-26-19 0955	Susan Kilty Pace	4-26-19 0955

PACE Project No. 40186580
Receipt Temp 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 **WI:** 920-469-2436

COC No. 40186580

CHAIN OF CUSTODY

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☐ EPA Level IV

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☐ On your sample (billable)
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FILTERED? (YES/NO)
PRESERVATION (CODE)*

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	VOCs 8260	Metals, Diss* 6010/7470	Alkalinity 310.2	TOC 9060	Metals, Total* 6010/7470	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Y / N	N	Y	N	N	N							
	Pick Letter	B	D	A	C	D							
027	PW-1	4-23	6:30	DW		X				X			
028	PW-2 6:10	4-23	[illegible]			X				X	Metals: As, Ba, Cd, Co, Fe, Pb, Mn, V, Hg		
029	PW-3 4-24/5:40	[illegible]				X				X			
030	PW-4 5:50	4-23	[illegible]			X				X			
031	PW-5	4-23	7:00			X				X			
032	PW-6	4-23	7:10			X				X			
033	Dup #1	4-24	3:40	GW		X	X	X	X				
034	Dup #2	4-24	5:05	GW			X	X	X				
035	Dup #3	4-25		GW		X	X	X	X				
036	Dup #4 11:55	4-25	[illegible]	GW			X						
037	Trip Blank	4-22	12:30			X							

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steven Osesek	4/25/19 3:30		
Fed Ex	4-26-19 0955	Sarah Wyatt	4-26-19 0955

PACE Project No. 40186580

Receipt Temp = ROT °C

Sample Receipt pH: (Ok) / Adjusted

Cooler Custody Seal: Present / (Not Present)

Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: The OS Group Project # 40186580

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: SKW Date/ Time:

Lab Lot# of pH paper: 1045358 Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *						
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001			2	2							1		1																		X		2.5 / 5 / 10
002			2	2							1		1																		X		2.5 / 5 / 10
003			2	2							1		1																		X		2.5 / 5 / 10
004			2	2							1		1					3													X		2.5 / 5 / 10
005			2	2							1		1					3													X		2.5 / 5 / 10
006			2	2							1		1					3													X		2.5 / 5 / 10
007			2	2							1		1					3													X		2.5 / 5 / 10
008			2	2							1		1																		X		2.5 / 5 / 10
009			2	2							1		1					3													X		2.5 / 5 / 10
010			2	2							1		1					3													X		2.5 / 5 / 10
011			2	2							1		1																		X		2.5 / 5 / 10
012			2	2							1		1																		X		2.5 / 5 / 10
013			2	2							1		1																		X		2.5 / 5 / 10
014			2	2							1		1					2													X		2.5 / 5 / 10
015			2	2							1		1					3													X		2.5 / 5 / 10
016			2	2							1		1																		X		2.5 / 5 / 10
017			2	2							1		1					3													X		2.5 / 5 / 10
018			2	2							1		1					3													X		2.5 / 5 / 10
019			2	2							1		1					3													X		2.5 / 5 / 10
020			2	2							1		1																		X		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☑Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 54430

Client Name: The OS Group

Sample Preservation Receipt Form

Project #: 46186580

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
021			2								1		1																		X		2.5 / 5 / 10
022			2								1		1																		X		2.5 / 5 / 10
023			2								1		1																		X		2.5 / 5 / 10
024			2								1		1																		X		2.5 / 5 / 10
025			2								1		1					3													X		2.5 / 5 / 10
026			2								1		1					3													X		2.5 / 5 / 10
027													1					3													X		2.5 / 5 / 10
028													1					3													X		2.5 / 5 / 10
029													1					3													X		2.5 / 5 / 10
030													1					3													X		2.5 / 5 / 10
031													1					3													X		2.5 / 5 / 10
032													1					3									3				X		2.5 / 5 / 10
033			2								1		1					3													X		2.5 / 5 / 10
034			2								1		1					3	4/26/19												X		2.5 / 5 / 10
035			2								1		1					3													X		2.5 / 5 / 10
036													1																		X		2.5 / 5 / 10
037																		2															2.5 / 5 / 10
																																	2.5 / 5 / 11
																																	2.5 / 5 / 12
																																	2.5 / 5 / 13
																																	2.5 / 5 / 14
																																	2.5 / 5 / 15
																																	2.5 / 5 / 16
																																	2.5 / 5 / 17
																																	2.5 / 5 / 18
																																	2.5 / 5 / 19
																																	2.5 / 5 / 20
																																	2.5 / 5 / 21
																																	2.5 / 5 / 22
																																	2.5 / 5 / 23

Sample Condition Upon Receipt Form (SCUR)

Client Name: The OS Group

Project #: WO#: 40186580

40186580

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 786875235575

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 4-26-19 Initials:

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact: 4/26/19 SW	☑Yes ☐No	10 0014 - 1-40mlVB received Broken 4/26/19 SW
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 423		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 4/26/19

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 23, 2019

Steve Osesek
The OS Group, LLC
N6746 McCurdy Road
Holmen, WI 54636

RE: Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Dear Steve Osesek:
Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: John Storlie, The OS Group, LLC

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40187706001	**PW-5**	Water	05/14/19 15:30	05/16/19 09:50
40187706002	**PW-6**	Water	05/14/19 15:40	05/16/19 09:50

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40187706001	**PW-5**	EPA 6010	TXW	2	PASI-G
40187706002	**PW-6**	EPA 6010	TXW	2	PASI-G

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SUMMARY OF DETECTION

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40187706001	**PW-5**					
EPA 6010	Manganese	398	ug/L	5.1	05/17/19 16:42	
40187706002	**PW-6**					
EPA 6010	Manganese	407	ug/L	5.1	05/17/19 16:45	

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ANALYTICAL RESULTS

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Sample: PW-5 **Lab ID: 40187706001** Collected: 05/14/19 15:30 Received: 05/16/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**<8.3**	ug/L	25.0	8.3	1	05/17/19 07:38	05/17/19 16:42	7440-38-2	
Manganese	**398**	ug/L	5.1	1.5	1	05/17/19 07:38	05/17/19 16:42	7439-96-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Sample: PW-6 **Lab ID: 40187706002** Collected: 05/14/19 15:40 Received: 05/16/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**<8.3**	ug/L	25.0	8.3	1	05/17/19 07:38	05/17/19 16:45	7440-38-2	
Manganese	**407**	ug/L	5.1	1.5	1	05/17/19 07:38	05/17/19 16:45	7439-96-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

QC Batch: 321626 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40187706001, 40187706002

METHOD BLANK: 1867825 Matrix: Water
Associated Lab Samples: 40187706001, 40187706002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<8.3	25.0	05/17/19 16:00	
Manganese	ug/L	<1.5	5.1	05/17/19 16:00	

LABORATORY CONTROL SAMPLE: 1867826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	461	92	80-120	
Manganese	ug/L	500	500	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1867827 1867828

Parameter	Units	40187658018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<8.3	500	500	479	461	96	92	75-125	4	20	
Manganese	ug/L	232	500	500	721	704	98	94	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ONALAKSA LANDFILL
Pace Project No.: 40187706

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40187706001	**PW-5**	EPA 3010	321626	EPA 6010	321691
40187706002	**PW-6**	EPA 3010	321626	EPA 6010	321691

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

401877O6

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	The OS Group, LLC
Branch/Location:	La Crosse, WI
Project Contact:	Steven Osesek
Phone:	608-433-9388
Project Number:	
Project Name:	Onalaska Landfill
Project State:	WI
Sampled By (Print):	Steven Osesek
Sampled By (Sign):	Steven Osesek
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Steven Osesek
Mail To Company:	The OS Group, LLC
Mail To Address:	444 21st S La Crosse, WI 54601
Invoice To Contact:	Steven Osesek
Invoice To Company:	The OS Group, LLC
Invoice To Address:	444 21st S La Crosse, WI 54601
Invoice To Phone:	608-433-9388

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	Analyses Requested: Manganese	Analyses Requested: Arsenic	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Pick Letter	D	D			
001	PW-5	5/14/19	3:30	DW		X	X		OK	
002	PW-6	5-14	3:40	DW		X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steven Osesek	5/15/19 3:30		
Fed Ex	5/16/19 0950	[signature]	5/16/19 0950

PACE Project No.: 401877O6
Receipt Temp = N/A °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

C019a(27Jun2006)
Version 6.0 06/14/06
ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: US Group Project # cf0187706

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A Initial when completed: YG Date/ Time:

Lab Lot# of pH paper: 10453581 Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *						
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001													1																		1		2.5 / 5 / 10
002													1																		1		2.5 / 5 / 10
003																															1		2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
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014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40187706

40187706

Client Name: The US Group

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #: 7872 7412 4384

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used SR - DIA **Type of Ice:** Wet Blue Dry (None) X Samples on ice, cooling process has begun

Cooler Temperature Uncorr: N/A /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 5/16/19 PB
Initials:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. No PO # 5/16/19 PB
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:**

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 09, 2019

Steve Osesek
The OS Group, LLC
N6746 McCurdy Road
Holmen, WI 54636

RE: Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Dear Steve Osesek:
Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: John Storlie, The OS Group, LLC

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
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(920)469-2436

SAMPLE SUMMARY

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40197555001	MW-4S	Water	10/16/19 13:15	10/18/19 10:35
40197555002	MW-5S	Water	10/16/19 14:10	10/18/19 10:35
40197555003	MW-17S	Water	10/16/19 14:30	10/18/19 10:35
40197555004	PZ-5	Water	10/16/19 11:30	10/18/19 10:35
40197555005	PZ-6	Water	10/16/19 11:50	10/18/19 10:35
40197555006	MW-5S DUP	Water	10/16/19 14:15	10/18/19 10:35
40197555007	TRIP BLANK	Water	10/16/19 11:00	10/18/19 10:35
40197555008	MW-1SR	Water	10/16/19 00:00	10/18/19 10:35
40197555009	MW-2D	Water	10/16/19 00:00	10/18/19 10:35
40197555010	MW-2M	Water	10/16/19 00:00	10/18/19 10:35
40197555011	MW-2S	Water	10/16/19 00:00	10/18/19 10:35
40197555012	MW-6M	Water	10/16/19 00:00	10/18/19 10:35
40197555013	MW-6S	Water	10/16/19 00:00	10/18/19 10:35
40197555014	MW-7M	Water	10/16/19 00:00	10/18/19 10:35
40197555015	MW-8D	Water	10/16/19 00:00	10/18/19 10:35
40197555016	MW-8M	Water	10/16/19 00:00	10/18/19 10:35
40197555017	MW-8S	Water	10/16/19 00:00	10/18/19 10:35
40197555018	MW-9M	Water	10/16/19 00:00	10/18/19 10:35
40197555019	MW-10M	Water	10/16/19 00:00	10/18/19 10:35
40197555020	MW-11M	Water	10/16/19 00:00	10/18/19 10:35
40197555021	MW-12S	Water	10/16/19 00:00	10/18/19 10:35
40197555022	MW-14S	Water	10/16/19 00:00	10/18/19 10:35
40197555023	MW-15M	Water	10/16/19 00:00	10/18/19 10:35
40197555024	MW-16S	Water	10/16/19 00:00	10/18/19 10:35
40197555025	MW-16M	Water	10/16/19 00:00	10/18/19 10:35
40197555026	MW-17M	Water	10/16/19 00:00	10/18/19 10:35
40197555027	PZ-1	Water	10/16/19 00:00	10/18/19 10:35
40197555028	PZ-2	Water	10/16/19 00:00	10/18/19 10:35
40197555029	PZ-3	Water	10/16/19 00:00	10/18/19 10:35
40197555030	PZ-4	Water	10/16/19 00:00	10/18/19 10:35

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40197555001	**MW-4S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 9060	TJJ	5	PASI-G
40197555002	**MW-5S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 9060	TJJ	5	PASI-G
40197555003	**MW-17S**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 9060	TJJ	5	PASI-G
40197555004	**PZ-5**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 9060	TJJ	5	PASI-G
40197555005	**PZ-6**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 9060	TJJ	5	PASI-G
40197555006	**MW-5S DUP**	EPA 6010	TXW	8	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	HNW	57	PASI-G
			CDH	6	PASI-G
		EPA 9060	TJJ	5	PASI-G
40197555007	**TRIP BLANK**	EPA 8260	HNW	57	PASI-G
40197555008	**MW-1SR**		CDH	1	PASI-G
40197555009	**MW-2D**		CDH	1	PASI-G
40197555010	**MW-2M**		CDH	1	PASI-G
40197555011	**MW-2S**		CDH	1	PASI-G
40197555012	**MW-6M**		CDH	1	PASI-G
40197555013	**MW-6S**		CDH	1	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40197555014	**MW-7M**		CDH	1	PASI-G
40197555015	**MW-8D**		CDH	1	PASI-G
40197555016	**MW-8M**		CDH	1	PASI-G
40197555017	**MW-8S**		CDH	1	PASI-G
40197555018	**MW-9M**		CDH	1	PASI-G
40197555019	**MW-10M**		CDH	1	PASI-G
40197555020	**MW-11M**		CDH	1	PASI-G
40197555021	**MW-12S**		CDH	1	PASI-G
40197555022	**MW-14S**		CDH	1	PASI-G
40197555023	**MW-15M**		CDH	1	PASI-G
40197555024	**MW-16S**		CDH	1	PASI-G
40197555025	**MW-16M**		CDH	1	PASI-G
40197555026	**MW-17M**		CDH	1	PASI-G
40197555027	**PZ-1**		CDH	1	PASI-G
40197555028	**PZ-2**		CDH	1	PASI-G
40197555029	**PZ-3**		CDH	1	PASI-G
40197555030	**PZ-4**		CDH	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-4S **Lab ID: 40197555001** Collected: 10/16/19 13:15 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**9.7J**	ug/L	25.0	8.3	1	10/22/19 13:21	10/23/19 12:28	7440-38-2	
Barium, Dissolved	**313**	ug/L	5.0	1.5	1	10/22/19 13:21	10/23/19 12:28	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	10/22/19 13:21	10/23/19 12:28	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	10/22/19 13:21	10/23/19 12:28	7440-48-4	
Iron, Dissolved	**15000**	ug/L	117	35.2	1	10/22/19 13:21	10/23/19 12:28	7439-89-6	
Lead, Dissolved	**<5.9**	ug/L	19.7	5.9	1	10/22/19 13:21	10/23/19 12:28	7439-92-1	
Manganese, Dissolved	**897**	ug/L	5.1	1.5	1	10/22/19 13:21	10/23/19 12:28	7439-96-5	
Vanadium, Dissolved	**<2.6**	ug/L	10.0	2.6	1	10/22/19 13:21	10/23/19 12:28	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	10/23/19 15:00	10/24/19 11:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		10/23/19 09:20	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		10/23/19 09:20	79-34-5	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		10/23/19 09:20	79-00-5	
1,1-Dichloroethane	**<2.7**	ug/L	10.0	2.7	10		10/23/19 09:20	75-34-3	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		10/23/19 09:20	75-35-4	
1,2,4-Trimethylbenzene	**878**	ug/L	28.0	8.4	10		10/23/19 09:20	95-63-6	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		10/23/19 09:20	96-12-8	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		10/23/19 09:20	106-93-4	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		10/23/19 09:20	95-50-1	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		10/23/19 09:20	107-06-2	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		10/23/19 09:20	78-87-5	
1,3,5-Trimethylbenzene	**<8.7**	ug/L	29.1	8.7	10		10/23/19 09:20	108-67-8	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		10/23/19 09:20	541-73-1	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		10/23/19 09:20	106-46-7	
2-Butanone (MEK)	**<29.4**	ug/L	200	29.4	10		10/23/19 09:20	78-93-3	
2-Hexanone	**<24.6**	ug/L	81.9	24.6	10		10/23/19 09:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<15.3**	ug/L	51.0	15.3	10		10/23/19 09:20	108-10-1	
Acetone	**<27.4**	ug/L	200	27.4	10		10/23/19 09:20	67-64-1	
Benzene	**<2.5**	ug/L	10.0	2.5	10		10/23/19 09:20	71-43-2	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		10/23/19 09:20	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		10/23/19 09:20	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		10/23/19 09:20	74-83-9	
Carbon disulfide	**<3.7**	ug/L	50.0	3.7	10		10/23/19 09:20	75-15-0	
Carbon tetrachloride	**<1.7**	ug/L	10.0	1.7	10		10/23/19 09:20	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		10/23/19 09:20	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		10/23/19 09:20	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		10/23/19 09:20	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		10/23/19 09:20	74-87-3	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		10/23/19 09:20	124-48-1	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		10/23/19 09:20	74-95-3	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		10/23/19 09:20	75-71-8	
Ethylbenzene	**<2.2**	ug/L	10.0	2.2	10		10/23/19 09:20	100-41-4	
Hexachloro-1,3-butadiene	**<11.8**	ug/L	50.0	11.8	10		10/23/19 09:20	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-4S **Lab ID: 40197555001** Collected: 10/16/19 13:15 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**22.0J**	ug/L	50.0	3.9	10		10/23/19 09:20	98-82-8	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		10/23/19 09:20	1634-04-4	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		10/23/19 09:20	75-09-2	
Naphthalene	**<11.8**	ug/L	50.0	11.8	10		10/23/19 09:20	91-20-3	
Styrene	**<4.7**	ug/L	15.5	4.7	10		10/23/19 09:20	100-42-5	
Tetrachloroethene	**<3.3**	ug/L	10.9	3.3	10		10/23/19 09:20	127-18-4	
Tetrahydrofuran	**<23.2**	ug/L	200	23.2	10		10/23/19 09:20	109-99-9	
Toluene	**<1.7**	ug/L	50.0	1.7	10		10/23/19 09:20	108-88-3	
Trichloroethene	**<2.6**	ug/L	10.0	2.6	10		10/23/19 09:20	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		10/23/19 09:20	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		10/23/19 09:20	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		10/23/19 09:20	1330-20-7	
cis-1,2-Dichloroethene	**<2.7**	ug/L	10.0	2.7	10		10/23/19 09:20	156-59-2	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		10/23/19 09:20	10061-01-5	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		10/23/19 09:20	104-51-8	
n-Propylbenzene	**39.8J**	ug/L	50.0	8.1	10		10/23/19 09:20	103-65-1	
p-Isopropyltoluene	**17.3J**	ug/L	26.7	8.0	10		10/23/19 09:20	99-87-6	
sec-Butylbenzene	**29.9J**	ug/L	50.0	8.5	10		10/23/19 09:20	135-98-8	
tert-Butylbenzene	**<3.0**	ug/L	10.1	3.0	10		10/23/19 09:20	98-06-6	
trans-1,2-Dichloroethene	**<10.9**	ug/L	36.4	10.9	10		10/23/19 09:20	156-60-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		10/23/19 09:20	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		10		10/23/19 09:20	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		10		10/23/19 09:20	1868-53-7	
Toluene-d8 (S)	99	%	70-130		10		10/23/19 09:20	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.93**	Std. Units			1		10/16/19 13:15		
Field Specific Conductance	**413**	umhos/cm			1		10/16/19 13:15		
Oxygen, Dissolved	**1.6**	mg/L			1		10/16/19 13:15	7782-44-7	
REDOX	**-120.8**	mV			1		10/16/19 13:15		
Static Water Level	**645.86**	feet			1		10/16/19 13:15		
Temperature, Water (C)	**9.28**	deg C			1		10/16/19 13:15		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**2.1**	mg/L	0.85	0.25	1		10/29/19 09:46	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		10/29/19 09:46	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		10/29/19 09:46	7440-44-0	
Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		10/29/19 09:46	7440-44-0	
Mean Total Organic Carbon	**2.2**	mg/L	0.85	0.25	1		10/29/19 09:46	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-5S **Lab ID: 40197555002** Collected: 10/16/19 14:10 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**20.0J**	ug/L	25.0	8.3	1	10/22/19 13:21	10/23/19 12:30	7440-38-2	
Barium, Dissolved	**232**	ug/L	5.0	1.5	1	10/22/19 13:21	10/23/19 12:30	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	10/22/19 13:21	10/23/19 12:30	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	10/22/19 13:21	10/23/19 12:30	7440-48-4	
Iron, Dissolved	**19600**	ug/L	117	35.2	1	10/22/19 13:21	10/23/19 12:30	7439-89-6	
Lead, Dissolved	**<5.9**	ug/L	19.7	5.9	1	10/22/19 13:21	10/23/19 12:30	7439-92-1	
Manganese, Dissolved	**1140**	ug/L	5.1	1.5	1	10/22/19 13:21	10/23/19 12:30	7439-96-5	
Vanadium, Dissolved	**<2.6**	ug/L	10.0	2.6	1	10/22/19 13:21	10/23/19 12:30	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	10/23/19 15:00	10/24/19 11:48	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		10/23/19 10:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		10/23/19 10:25	79-34-5	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		10/23/19 10:25	79-00-5	
1,1-Dichloroethane	**<2.7**	ug/L	10.0	2.7	10		10/23/19 10:25	75-34-3	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		10/23/19 10:25	75-35-4	
1,2,4-Trimethylbenzene	**988**	ug/L	28.0	8.4	10		10/23/19 10:25	95-63-6	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		10/23/19 10:25	96-12-8	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		10/23/19 10:25	106-93-4	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		10/23/19 10:25	95-50-1	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		10/23/19 10:25	107-06-2	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		10/23/19 10:25	78-87-5	
1,3,5-Trimethylbenzene	**<8.7**	ug/L	29.1	8.7	10		10/23/19 10:25	108-67-8	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		10/23/19 10:25	541-73-1	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		10/23/19 10:25	106-46-7	
2-Butanone (MEK)	**<29.4**	ug/L	200	29.4	10		10/23/19 10:25	78-93-3	
2-Hexanone	**<24.6**	ug/L	81.9	24.6	10		10/23/19 10:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<15.3**	ug/L	51.0	15.3	10		10/23/19 10:25	108-10-1	
Acetone	**<27.4**	ug/L	200	27.4	10		10/23/19 10:25	67-64-1	
Benzene	**<2.5**	ug/L	10.0	2.5	10		10/23/19 10:25	71-43-2	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		10/23/19 10:25	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		10/23/19 10:25	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		10/23/19 10:25	74-83-9	
Carbon disulfide	**<3.7**	ug/L	50.0	3.7	10		10/23/19 10:25	75-15-0	
Carbon tetrachloride	**<1.7**	ug/L	10.0	1.7	10		10/23/19 10:25	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		10/23/19 10:25	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		10/23/19 10:25	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		10/23/19 10:25	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		10/23/19 10:25	74-87-3	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		10/23/19 10:25	124-48-1	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		10/23/19 10:25	74-95-3	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		10/23/19 10:25	75-71-8	
Ethylbenzene	**<2.2**	ug/L	10.0	2.2	10		10/23/19 10:25	100-41-4	
Hexachloro-1,3-butadiene	**<11.8**	ug/L	50.0	11.8	10		10/23/19 10:25	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-5S **Lab ID: 40197555002** Collected: 10/16/19 14:10 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**37.1J**	ug/L	50.0	3.9	10		10/23/19 10:25	98-82-8	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		10/23/19 10:25	1634-04-4	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		10/23/19 10:25	75-09-2	
Naphthalene	**27.5J**	ug/L	50.0	11.8	10		10/23/19 10:25	91-20-3	
Styrene	**<4.7**	ug/L	15.5	4.7	10		10/23/19 10:25	100-42-5	
Tetrachloroethene	**<3.3**	ug/L	10.9	3.3	10		10/23/19 10:25	127-18-4	
Tetrahydrofuran	**<23.2**	ug/L	200	23.2	10		10/23/19 10:25	109-99-9	
Toluene	**<1.7**	ug/L	50.0	1.7	10		10/23/19 10:25	108-88-3	
Trichloroethene	**<2.6**	ug/L	10.0	2.6	10		10/23/19 10:25	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		10/23/19 10:25	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		10/23/19 10:25	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		10/23/19 10:25	1330-20-7	
cis-1,2-Dichloroethene	**<2.7**	ug/L	10.0	2.7	10		10/23/19 10:25	156-59-2	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		10/23/19 10:25	10061-01-5	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		10/23/19 10:25	104-51-8	
n-Propylbenzene	**63.9**	ug/L	50.0	8.1	10		10/23/19 10:25	103-65-1	
p-Isopropyltoluene	**8.1J**	ug/L	26.7	8.0	10		10/23/19 10:25	99-87-6	
sec-Butylbenzene	**16.1J**	ug/L	50.0	8.5	10		10/23/19 10:25	135-98-8	
tert-Butylbenzene	**18.4**	ug/L	10.1	3.0	10		10/23/19 10:25	98-06-6	
trans-1,2-Dichloroethene	**<10.9**	ug/L	36.4	10.9	10		10/23/19 10:25	156-60-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		10/23/19 10:25	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		10		10/23/19 10:25	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		10		10/23/19 10:25	1868-53-7	
Toluene-d8 (S)	99	%	70-130		10		10/23/19 10:25	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.88**	Std. Units			1		10/16/19 14:10		
Field Specific Conductance	**381**	umhos/cm			1		10/16/19 14:10		
Oxygen, Dissolved	**1.4**	mg/L			1		10/16/19 14:10	7782-44-7	
REDOX	**-125.7**	mV			1		10/16/19 14:10		
Static Water Level	**645.91**	feet			1		10/16/19 14:10		
Temperature, Water (C)	**10.00**	deg C			1		10/16/19 14:10		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**4.4**	mg/L	2.5	0.76	3		10/29/19 10:28	7440-44-0	
Total Organic Carbon	**4.3**	mg/L	2.5	0.76	3		10/29/19 10:28	7440-44-0	
Total Organic Carbon	**4.4**	mg/L	2.5	0.76	3		10/29/19 10:28	7440-44-0	
Total Organic Carbon	**4.4**	mg/L	2.5	0.76	3		10/29/19 10:28	7440-44-0	
Mean Total Organic Carbon	**4.4**	mg/L	2.5	0.76	3		10/29/19 10:28	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-17S **Lab ID: 40197555003** Collected: 10/16/19 14:30 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**14.7J**	ug/L	25.0	8.3	1	10/22/19 13:21	10/23/19 12:32	7440-38-2	
Barium, Dissolved	**140**	ug/L	5.0	1.5	1	10/22/19 13:21	10/23/19 12:32	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	10/22/19 13:21	10/23/19 12:32	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	10/22/19 13:21	10/23/19 12:32	7440-48-4	
Iron, Dissolved	**7670**	ug/L	117	35.2	1	10/22/19 13:21	10/23/19 12:32	7439-89-6	
Lead, Dissolved	**<5.9**	ug/L	19.7	5.9	1	10/22/19 13:21	10/23/19 12:32	7439-92-1	
Manganese, Dissolved	**1140**	ug/L	5.1	1.5	1	10/22/19 13:21	10/23/19 12:32	7439-96-5	
Vanadium, Dissolved	**<2.6**	ug/L	10.0	2.6	1	10/22/19 13:21	10/23/19 12:32	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	10/23/19 15:00	10/24/19 11:55	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.2**	ug/L	5.0	1.2	5		10/23/19 09:42	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.4**	ug/L	5.0	1.4	5		10/23/19 09:42	79-34-5	
1,1,2-Trichloroethane	**<2.8**	ug/L	25.0	2.8	5		10/23/19 09:42	79-00-5	
1,1-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		10/23/19 09:42	75-34-3	
1,1-Dichloroethene	**<1.2**	ug/L	5.0	1.2	5		10/23/19 09:42	75-35-4	
1,2,4-Trimethylbenzene	**431**	ug/L	14.0	4.2	5		10/23/19 09:42	95-63-6	
1,2-Dibromo-3-chloropropane	**<8.8**	ug/L	29.4	8.8	5		10/23/19 09:42	96-12-8	
1,2-Dibromoethane (EDB)	**<4.1**	ug/L	13.8	4.1	5		10/23/19 09:42	106-93-4	
1,2-Dichlorobenzene	**<3.5**	ug/L	11.8	3.5	5		10/23/19 09:42	95-50-1	
1,2-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		10/23/19 09:42	107-06-2	
1,2-Dichloropropane	**<1.4**	ug/L	5.0	1.4	5		10/23/19 09:42	78-87-5	
1,3,5-Trimethylbenzene	**<4.4**	ug/L	14.6	4.4	5		10/23/19 09:42	108-67-8	
1,3-Dichlorobenzene	**<3.1**	ug/L	10.5	3.1	5		10/23/19 09:42	541-73-1	
1,4-Dichlorobenzene	**<4.7**	ug/L	15.7	4.7	5		10/23/19 09:42	106-46-7	
2-Butanone (MEK)	**<14.7**	ug/L	100	14.7	5		10/23/19 09:42	78-93-3	
2-Hexanone	**<12.3**	ug/L	41.0	12.3	5		10/23/19 09:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<7.7**	ug/L	25.5	7.7	5		10/23/19 09:42	108-10-1	
Acetone	**<13.7**	ug/L	100	13.7	5		10/23/19 09:42	67-64-1	
Benzene	**<1.2**	ug/L	5.0	1.2	5		10/23/19 09:42	71-43-2	
Bromodichloromethane	**<1.8**	ug/L	6.1	1.8	5		10/23/19 09:42	75-27-4	
Bromoform	**<19.9**	ug/L	66.2	19.9	5		10/23/19 09:42	75-25-2	
Bromomethane	**<4.9**	ug/L	25.0	4.9	5		10/23/19 09:42	74-83-9	
Carbon disulfide	**<1.9**	ug/L	25.0	1.9	5		10/23/19 09:42	75-15-0	
Carbon tetrachloride	**<0.83**	ug/L	5.0	0.83	5		10/23/19 09:42	56-23-5	
Chlorobenzene	**<3.6**	ug/L	11.8	3.6	5		10/23/19 09:42	108-90-7	
Chloroethane	**<6.7**	ug/L	25.0	6.7	5		10/23/19 09:42	75-00-3	
Chloroform	**<6.4**	ug/L	25.0	6.4	5		10/23/19 09:42	67-66-3	
Chloromethane	**<10.9**	ug/L	36.5	10.9	5		10/23/19 09:42	74-87-3	
Dibromochloromethane	**<13.0**	ug/L	43.4	13.0	5		10/23/19 09:42	124-48-1	
Dibromomethane	**<4.7**	ug/L	15.6	4.7	5		10/23/19 09:42	74-95-3	
Dichlorodifluoromethane	**<2.5**	ug/L	25.0	2.5	5		10/23/19 09:42	75-71-8	
Ethylbenzene	**<1.1**	ug/L	5.0	1.1	5		10/23/19 09:42	100-41-4	
Hexachloro-1,3-butadiene	**<5.9**	ug/L	25.0	5.9	5		10/23/19 09:42	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-17S **Lab ID: 40197555003** Collected: 10/16/19 14:30 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**9.1J**	ug/L	25.0	2.0	5		10/23/19 09:42	98-82-8	
Methyl-tert-butyl ether	**<6.2**	ug/L	20.8	6.2	5		10/23/19 09:42	1634-04-4	
Methylene Chloride	**<2.9**	ug/L	25.0	2.9	5		10/23/19 09:42	75-09-2	
Naphthalene	**<5.9**	ug/L	25.0	5.9	5		10/23/19 09:42	91-20-3	
Styrene	**<2.3**	ug/L	7.8	2.3	5		10/23/19 09:42	100-42-5	
Tetrachloroethene	**<1.6**	ug/L	5.4	1.6	5		10/23/19 09:42	127-18-4	
Tetrahydrofuran	**<11.6**	ug/L	100	11.6	5		10/23/19 09:42	109-99-9	
Toluene	**<0.86**	ug/L	25.0	0.86	5		10/23/19 09:42	108-88-3	
Trichloroethene	**<1.3**	ug/L	5.0	1.3	5		10/23/19 09:42	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/L	5.0	1.1	5		10/23/19 09:42	75-69-4	
Vinyl chloride	**<0.87**	ug/L	5.0	0.87	5		10/23/19 09:42	75-01-4	
Xylene (Total)	**<7.5**	ug/L	15.0	7.5	5		10/23/19 09:42	1330-20-7	
cis-1,2-Dichloroethene	**<1.4**	ug/L	5.0	1.4	5		10/23/19 09:42	156-59-2	
cis-1,3-Dichloropropene	**<18.1**	ug/L	60.5	18.1	5		10/23/19 09:42	10061-01-5	
n-Butylbenzene	**<3.5**	ug/L	11.8	3.5	5		10/23/19 09:42	104-51-8	
n-Propylbenzene	**16.4J**	ug/L	25.0	4.1	5		10/23/19 09:42	103-65-1	
p-Isopropyltoluene	**11.8J**	ug/L	13.3	4.0	5		10/23/19 09:42	99-87-6	
sec-Butylbenzene	**19.5J**	ug/L	25.0	4.2	5		10/23/19 09:42	135-98-8	
tert-Butylbenzene	**6.0**	ug/L	5.1	1.5	5		10/23/19 09:42	98-06-6	
trans-1,2-Dichloroethene	**<5.5**	ug/L	18.2	5.5	5		10/23/19 09:42	156-60-5	
trans-1,3-Dichloropropene	**<21.9**	ug/L	72.8	21.9	5		10/23/19 09:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		5		10/23/19 09:42	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		5		10/23/19 09:42	1868-53-7	
Toluene-d8 (S)	99	%	70-130		5		10/23/19 09:42	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.09**	Std. Units			1		10/16/19 14:30		
Field Specific Conductance	**327**	umhos/cm			1		10/16/19 14:30		
Oxygen, Dissolved	**1.83**	mg/L			1		10/16/19 14:30	7782-44-7	
REDOX	**-130.1**	mV			1		10/16/19 14:30		
Static Water Level	**645.84**	feet			1		10/16/19 14:30		
Temperature, Water (C)	**11.42**	deg C			1		10/16/19 14:30		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.6**	mg/L	0.85	0.25	1		10/29/19 12:33	7440-44-0	
Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		10/29/19 12:33	7440-44-0	
Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		10/29/19 12:33	7440-44-0	
Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		10/29/19 12:33	7440-44-0	
Mean Total Organic Carbon	**1.5**	mg/L	0.85	0.25	1		10/29/19 12:33	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-5 **Lab ID: 40197555004** Collected: 10/16/19 11:30 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	10/22/19 13:21	10/23/19 12:40	7440-38-2	
Barium, Dissolved	**124**	ug/L	5.0	1.5	1	10/22/19 13:21	10/23/19 12:40	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	10/22/19 13:21	10/23/19 12:40	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	10/22/19 13:21	10/23/19 12:40	7440-48-4	
Iron, Dissolved	**5060**	ug/L	117	35.2	1	10/22/19 13:21	10/23/19 12:40	7439-89-6	
Lead, Dissolved	**<5.9**	ug/L	19.7	5.9	1	10/22/19 13:21	10/23/19 12:40	7439-92-1	
Manganese, Dissolved	**626**	ug/L	5.1	1.5	1	10/22/19 13:21	10/23/19 12:40	7439-96-5	
Vanadium, Dissolved	**<2.6**	ug/L	10.0	2.6	1	10/22/19 13:21	10/23/19 12:40	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	10/23/19 15:00	10/24/19 11:57	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/22/19 20:57	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 20:57	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/22/19 20:57	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/19 20:57	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/22/19 20:57	75-35-4	
1,2,4-Trimethylbenzene	**214**	ug/L	7.0	2.1	2.5		10/23/19 08:59	95-63-6	1q
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/22/19 20:57	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/22/19 20:57	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 20:57	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 20:57	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 20:57	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/22/19 20:57	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/22/19 20:57	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/22/19 20:57	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		10/22/19 20:57	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		10/22/19 20:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		10/22/19 20:57	108-10-1	
Acetone	**6.4J**	ug/L	20.0	2.7	1		10/22/19 20:57	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/22/19 20:57	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/22/19 20:57	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/22/19 20:57	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/22/19 20:57	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		10/22/19 20:57	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/22/19 20:57	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 20:57	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/22/19 20:57	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/22/19 20:57	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/22/19 20:57	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/22/19 20:57	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/22/19 20:57	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/22/19 20:57	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/22/19 20:57	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/22/19 20:57	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-5 **Lab ID: 40197555004** Collected: 10/16/19 11:30 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**2.7J**	ug/L	5.0	0.39	1		10/22/19 20:57	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/22/19 20:57	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/22/19 20:57	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/22/19 20:57	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/22/19 20:57	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/22/19 20:57	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/22/19 20:57	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/22/19 20:57	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/22/19 20:57	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/22/19 20:57	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/22/19 20:57	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/22/19 20:57	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/22/19 20:57	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/22/19 20:57	10061-01-5	
n-Butylbenzene	**4.0**	ug/L	2.4	0.71	1		10/22/19 20:57	104-51-8	
n-Propylbenzene	**4.1J**	ug/L	5.0	0.81	1		10/22/19 20:57	103-65-1	
p-Isopropyltoluene	**14.1**	ug/L	2.7	0.80	1		10/22/19 20:57	99-87-6	
sec-Butylbenzene	**13.6**	ug/L	5.0	0.85	1		10/22/19 20:57	135-98-8	
tert-Butylbenzene	**2.7**	ug/L	1.0	0.30	1		10/22/19 20:57	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/22/19 20:57	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/22/19 20:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/22/19 20:57	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/22/19 20:57	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/22/19 20:57	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.15**	Std. Units			1		10/16/19 11:30		
Field Specific Conductance	**319**	umhos/cm			1		10/16/19 11:30		
Oxygen, Dissolved	**3.76**	mg/L			1		10/16/19 11:30	7782-44-7	
REDOX	**-98.7**	mV			1		10/16/19 11:30		
Static Water Level	**645.85**	feet			1		10/16/19 11:30		
Temperature, Water (C)	**9.19**	deg C			1		10/16/19 11:30		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		10/29/19 13:15	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		10/29/19 13:15	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		10/29/19 13:15	7440-44-0	
Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		10/29/19 13:15	7440-44-0	
Mean Total Organic Carbon	**1.1**	mg/L	0.85	0.25	1		10/29/19 13:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-6 **Lab ID: 40197555005** Collected: 10/16/19 11:50 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	10/22/19 13:21	10/23/19 12:42	7440-38-2	
Barium, Dissolved	**21.8**	ug/L	5.0	1.5	1	10/22/19 13:21	10/23/19 12:42	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	10/22/19 13:21	10/23/19 12:42	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	10/22/19 13:21	10/23/19 12:42	7440-48-4	
Iron, Dissolved	**<35.2**	ug/L	117	35.2	1	10/22/19 13:21	10/23/19 12:42	7439-89-6	
Lead, Dissolved	**<5.9**	ug/L	19.7	5.9	1	10/22/19 13:21	10/23/19 12:42	7439-92-1	
Manganese, Dissolved	**<1.5**	ug/L	5.1	1.5	1	10/22/19 13:21	10/23/19 12:42	7439-96-5	
Vanadium, Dissolved	**<2.6**	ug/L	10.0	2.6	1	10/22/19 13:21	10/23/19 12:42	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	10/23/19 15:00	10/24/19 12:00	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/22/19 21:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 21:19	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/22/19 21:19	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/19 21:19	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/22/19 21:19	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/22/19 21:19	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/22/19 21:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/22/19 21:19	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 21:19	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 21:19	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 21:19	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/22/19 21:19	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/22/19 21:19	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/22/19 21:19	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		10/22/19 21:19	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		10/22/19 21:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		10/22/19 21:19	108-10-1	
Acetone	**9.9J**	ug/L	20.0	2.7	1		10/22/19 21:19	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/22/19 21:19	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/22/19 21:19	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/22/19 21:19	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/22/19 21:19	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		10/22/19 21:19	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/22/19 21:19	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 21:19	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/22/19 21:19	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/22/19 21:19	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/22/19 21:19	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/22/19 21:19	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/22/19 21:19	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/22/19 21:19	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/22/19 21:19	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/22/19 21:19	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-6 **Lab ID: 40197555005** Collected: 10/16/19 11:50 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/22/19 21:19	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/22/19 21:19	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/22/19 21:19	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/22/19 21:19	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/22/19 21:19	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/22/19 21:19	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/22/19 21:19	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/22/19 21:19	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/22/19 21:19	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/22/19 21:19	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/22/19 21:19	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/22/19 21:19	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/22/19 21:19	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/22/19 21:19	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 21:19	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/22/19 21:19	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/22/19 21:19	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/22/19 21:19	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/22/19 21:19	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/22/19 21:19	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/22/19 21:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/22/19 21:19	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/22/19 21:19	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/22/19 21:19	2037-26-5	
Field Data	Analytical Method:								
Field pH	**7.40**	Std. Units			1		10/16/19 11:50		
Field Specific Conductance	**32.5**	~~umhos/cm~~	Should be 325 umhos/cm		1		10/16/19 11:50		
Oxygen, Dissolved	**8.16**	mg/L			1		10/16/19 11:50	7782-44-7	
REDOX	**24.4**	mV			1		10/16/19 11:50		
Static Water Level	**645.77**	feet			1		10/16/19 11:50		
Temperature, Water (C)	**9.00**	deg C			1		10/16/19 11:50		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**0.91**	mg/L	0.85	0.25	1		10/29/19 14:18	7440-44-0	
Total Organic Carbon	**0.90**	mg/L	0.85	0.25	1		10/29/19 14:18	7440-44-0	
Total Organic Carbon	**0.89**	mg/L	0.85	0.25	1		10/29/19 14:18	7440-44-0	
Total Organic Carbon	**0.88**	mg/L	0.85	0.25	1		10/29/19 14:18	7440-44-0	
Mean Total Organic Carbon	**0.90**	mg/L	0.85	0.25	1		10/29/19 14:18	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-5S DUP **Lab ID: 40197555006** Collected: 10/16/19 14:15 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**11.5J**	ug/L	25.0	8.3	1	10/22/19 13:21	10/23/19 12:45	7440-38-2	
Barium, Dissolved	**224**	ug/L	5.0	1.5	1	10/22/19 13:21	10/23/19 12:45	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	10/22/19 13:21	10/23/19 12:45	7440-43-9	
Cobalt, Dissolved	**1.8J**	ug/L	5.0	1.4	1	10/22/19 13:21	10/23/19 12:45	7440-48-4	
Iron, Dissolved	**19200**	ug/L	117	35.2	1	10/22/19 13:21	10/23/19 12:45	7439-89-6	
Lead, Dissolved	**<5.9**	ug/L	19.7	5.9	1	10/22/19 13:21	10/23/19 12:45	7439-92-1	
Manganese, Dissolved	**1130**	ug/L	5.1	1.5	1	10/22/19 13:21	10/23/19 12:45	7439-96-5	
Vanadium, Dissolved	**<2.6**	ug/L	10.0	2.6	1	10/22/19 13:21	10/23/19 12:45	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	10/23/19 15:00	10/24/19 12:02	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.49**	ug/L	2.0	0.49	2		10/23/19 02:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/L	2.0	0.55	2		10/23/19 02:41	79-34-5	
1,1,2-Trichloroethane	**<1.1**	ug/L	10.0	1.1	2		10/23/19 02:41	79-00-5	
1,1-Dichloroethane	**<0.55**	ug/L	2.0	0.55	2		10/23/19 02:41	75-34-3	
1,1-Dichloroethene	**<0.49**	ug/L	2.0	0.49	2		10/23/19 02:41	75-35-4	
1,2,4-Trimethylbenzene	**880**	ug/L	28.0	8.4	10		10/23/19 10:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<3.5**	ug/L	11.8	3.5	2		10/23/19 02:41	96-12-8	
1,2-Dibromoethane (EDB)	**<1.7**	ug/L	5.5	1.7	2		10/23/19 02:41	106-93-4	
1,2-Dichlorobenzene	**<1.4**	ug/L	4.7	1.4	2		10/23/19 02:41	95-50-1	
1,2-Dichloroethane	**<0.56**	ug/L	2.0	0.56	2		10/23/19 02:41	107-06-2	
1,2-Dichloropropane	**<0.57**	ug/L	2.0	0.57	2		10/23/19 02:41	78-87-5	
1,3,5-Trimethylbenzene	**<1.7**	ug/L	5.8	1.7	2		10/23/19 02:41	108-67-8	
1,3-Dichlorobenzene	**<1.3**	ug/L	4.2	1.3	2		10/23/19 02:41	541-73-1	
1,4-Dichlorobenzene	**<1.9**	ug/L	6.3	1.9	2		10/23/19 02:41	106-46-7	
2-Butanone (MEK)	**<5.9**	ug/L	40.0	5.9	2		10/23/19 02:41	78-93-3	
2-Hexanone	**<4.9**	ug/L	16.4	4.9	2		10/23/19 02:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<3.1**	ug/L	10.2	3.1	2		10/23/19 02:41	108-10-1	
Acetone	**7.7J**	ug/L	40.0	5.5	2		10/23/19 02:41	67-64-1	
Benzene	**<0.49**	ug/L	2.0	0.49	2		10/23/19 02:41	71-43-2	
Bromodichloromethane	**<0.73**	ug/L	2.4	0.73	2		10/23/19 02:41	75-27-4	
Bromoform	**<7.9**	ug/L	26.5	7.9	2		10/23/19 02:41	75-25-2	
Bromomethane	**<1.9**	ug/L	10.0	1.9	2		10/23/19 02:41	74-83-9	
Carbon disulfide	**<0.75**	ug/L	10.0	0.75	2		10/23/19 02:41	75-15-0	
Carbon tetrachloride	**<0.33**	ug/L	2.0	0.33	2		10/23/19 02:41	56-23-5	
Chlorobenzene	**<1.4**	ug/L	4.7	1.4	2		10/23/19 02:41	108-90-7	
Chloroethane	**<2.7**	ug/L	10.0	2.7	2		10/23/19 02:41	75-00-3	
Chloroform	**<2.5**	ug/L	10.0	2.5	2		10/23/19 02:41	67-66-3	
Chloromethane	**<4.4**	ug/L	14.6	4.4	2		10/23/19 02:41	74-87-3	
Dibromochloromethane	**<5.2**	ug/L	17.3	5.2	2		10/23/19 02:41	124-48-1	
Dibromomethane	**<1.9**	ug/L	6.2	1.9	2		10/23/19 02:41	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	10.0	1.0	2		10/23/19 02:41	75-71-8	
Ethylbenzene	**<0.44**	ug/L	2.0	0.44	2		10/23/19 02:41	100-41-4	
Hexachloro-1,3-butadiene	**<2.4**	ug/L	10.0	2.4	2		10/23/19 02:41	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-5S DUP **Lab ID: 40197555006** Collected: 10/16/19 14:15 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**33.8**	ug/L	10.0	0.79	2		10/23/19 02:41	98-82-8	
Methyl-tert-butyl ether	**<2.5**	ug/L	8.3	2.5	2		10/23/19 02:41	1634-04-4	
Methylene Chloride	**<1.2**	ug/L	10.0	1.2	2		10/23/19 02:41	75-09-2	
Naphthalene	**34.5**	ug/L	10.0	2.4	2		10/23/19 02:41	91-20-3	
Styrene	**<0.93**	ug/L	3.1	0.93	2		10/23/19 02:41	100-42-5	
Tetrachloroethene	**<0.65**	ug/L	2.2	0.65	2		10/23/19 02:41	127-18-4	
Tetrahydrofuran	**<4.6**	ug/L	40.0	4.6	2		10/23/19 02:41	109-99-9	
Toluene	**0.35J**	ug/L	10.0	0.34	2		10/23/19 02:41	108-88-3	
Trichloroethene	**<0.51**	ug/L	2.0	0.51	2		10/23/19 02:41	79-01-6	
Trichlorofluoromethane	**<0.43**	ug/L	2.0	0.43	2		10/23/19 02:41	75-69-4	
Vinyl chloride	**<0.35**	ug/L	2.0	0.35	2		10/23/19 02:41	75-01-4	
Xylene (Total)	**11.0**	ug/L	6.0	3.0	2		10/23/19 02:41	1330-20-7	
cis-1,2-Dichloroethene	**<0.54**	ug/L	2.0	0.54	2		10/23/19 02:41	156-59-2	
cis-1,3-Dichloropropene	**<7.3**	ug/L	24.2	7.3	2		10/23/19 02:41	10061-01-5	
n-Butylbenzene	**6.1**	ug/L	4.7	1.4	2		10/23/19 02:41	104-51-8	
n-Propylbenzene	**61.4**	ug/L	10.0	1.6	2		10/23/19 02:41	103-65-1	
p-Isopropyltoluene	**6.9**	ug/L	5.3	1.6	2		10/23/19 02:41	99-87-6	
sec-Butylbenzene	**13.3**	ug/L	10.0	1.7	2		10/23/19 02:41	135-98-8	
tert-Butylbenzene	**20.3**	ug/L	2.0	0.61	2		10/23/19 02:41	98-06-6	
trans-1,2-Dichloroethene	**<2.2**	ug/L	7.3	2.2	2		10/23/19 02:41	156-60-5	
trans-1,3-Dichloropropene	**<8.7**	ug/L	29.1	8.7	2		10/23/19 02:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		10/23/19 02:41	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		2		10/23/19 02:41	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2		10/23/19 02:41	2037-26-5	
Field Data	Analytical Method:								
Field pH	**6.88**	Std. Units			1		10/16/19 14:15		
Field Specific Conductance	**381**	umhos/cm			1		10/16/19 14:15		
Oxygen, Dissolved	**1.4**	mg/L			1		10/16/19 14:15	7782-44-7	
REDOX	**-125.7**	mV			1		10/16/19 14:15		
Static Water Level	**645.91**	feet			1		10/16/19 14:15		
Temperature, Water (C)	**10.00**	deg C			1		10/16/19 14:15		
Total Organic Carbon	Analytical Method: EPA 9060								
Total Organic Carbon	**4.0**	mg/L	2.5	0.76	3		10/29/19 15:00	7440-44-0	
Total Organic Carbon	**4.2**	mg/L	2.5	0.76	3		10/29/19 15:00	7440-44-0	
Total Organic Carbon	**4.2**	mg/L	2.5	0.76	3		10/29/19 15:00	7440-44-0	
Total Organic Carbon	**4.3**	mg/L	2.5	0.76	3		10/29/19 15:00	7440-44-0	
Mean Total Organic Carbon	**4.2**	mg/L	2.5	0.76	3		10/29/19 15:00	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: TRIP BLANK **Lab ID: 40197555007** Collected: 10/16/19 11:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/22/19 19:53	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 19:53	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/22/19 19:53	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/19 19:53	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/22/19 19:53	75-35-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/22/19 19:53	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/22/19 19:53	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/22/19 19:53	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 19:53	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 19:53	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/22/19 19:53	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/22/19 19:53	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/22/19 19:53	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/22/19 19:53	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		10/22/19 19:53	78-93-3	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		10/22/19 19:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		10/22/19 19:53	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		10/22/19 19:53	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/22/19 19:53	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/22/19 19:53	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/22/19 19:53	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/22/19 19:53	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		10/22/19 19:53	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/22/19 19:53	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 19:53	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/22/19 19:53	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/22/19 19:53	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/22/19 19:53	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/22/19 19:53	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/22/19 19:53	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/22/19 19:53	75-71-8	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/22/19 19:53	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/22/19 19:53	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/22/19 19:53	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/22/19 19:53	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/22/19 19:53	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/22/19 19:53	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/22/19 19:53	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/22/19 19:53	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/22/19 19:53	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/22/19 19:53	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/22/19 19:53	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/22/19 19:53	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/22/19 19:53	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/22/19 19:53	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/22/19 19:53	156-59-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: TRIP BLANK **Lab ID: 40197555007** Collected: 10/16/19 11:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/22/19 19:53	10061-01-5	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/19 19:53	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/22/19 19:53	103-65-1	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/22/19 19:53	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/22/19 19:53	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/22/19 19:53	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/22/19 19:53	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/22/19 19:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/22/19 19:53	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/22/19 19:53	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/22/19 19:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-1SR **Lab ID: 40197555008** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**646.09**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-2D **Lab ID: 40197555009** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**646.18**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-2M **Lab ID: 40197555010** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**646.10**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-2S **Lab ID: 40197555011** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**646.13**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-6M **Lab ID: 40197555012** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.55**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-6S **Lab ID: 40197555013** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.54**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-7M **Lab ID: 40197555014** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.81**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-8D **Lab ID: 40197555015** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.66**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-8M **Lab ID: 40197555016** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.63**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-8S **Lab ID: 40197555017** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.63**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-9M **Lab ID: 40197555018** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.36**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-10M **Lab ID: 40197555019** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.31**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-11M **Lab ID: 40197555020** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.48**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-12S **Lab ID: 40197555021** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.73**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-14S **Lab ID: 40197555022** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.86**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-15M **Lab ID: 40197555023** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.58**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-16S **Lab ID: 40197555024** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.77**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-16M **Lab ID: 40197555025** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.77**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: MW-17M **Lab ID: 40197555026** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.92**	feet			1		10/16/19 00:00		

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-1 **Lab ID: 40197555027** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.81**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-2 **Lab ID: 40197555028** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.56**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-3 **Lab ID: 40197555029** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.81**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Sample: PZ-4 **Lab ID: 40197555030** Collected: 10/16/19 00:00 Received: 10/18/19 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Static Water Level	**645.56**	feet			1		10/16/19 00:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

QC Batch: 338518 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006

METHOD BLANK: 1965803 Matrix: Water
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.084	0.28	10/24/19 11:09	

LABORATORY CONTROL SAMPLE: 1965804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1965805 1965806

Parameter	Units	40197462001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.084	5	5	5.1	5.1	102	101	85-115	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

QC Batch: 338349 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006

METHOD BLANK: 1964828 Matrix: Water
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<8.3	25.0	10/23/19 12:10	
Barium, Dissolved	ug/L	<1.5	5.0	10/23/19 12:10	
Cadmium, Dissolved	ug/L	<1.3	5.0	10/23/19 12:10	
Cobalt, Dissolved	ug/L	<1.4	5.0	10/23/19 12:10	
Iron, Dissolved	ug/L	<35.2	117	10/23/19 12:10	
Lead, Dissolved	ug/L	<5.9	19.7	10/23/19 12:10	
Manganese, Dissolved	ug/L	<1.5	5.1	10/23/19 12:10	
Vanadium, Dissolved	ug/L	<2.6	10.0	10/23/19 12:10	

LABORATORY CONTROL SAMPLE: 1964829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	491	98	80-120	
Barium, Dissolved	ug/L	500	483	97	80-120	
Cadmium, Dissolved	ug/L	500	498	100	80-120	
Cobalt, Dissolved	ug/L	500	508	102	80-120	
Iron, Dissolved	ug/L	5000	5200	104	80-120	
Lead, Dissolved	ug/L	500	501	100	80-120	
Manganese, Dissolved	ug/L	500	499	100	80-120	
Vanadium, Dissolved	ug/L	500	506	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1964830 1964831

Parameter	Units	40197117002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	108	500	500	611	597	100	98	75-125	2	20	
Barium, Dissolved	ug/L	683	500	500	1190	1170	101	97	75-125	1	20	
Cadmium, Dissolved	ug/L	<5.0	500	500	522	510	104	102	75-125	2	20	
Cobalt, Dissolved	ug/L	23.7	500	500	492	484	94	92	75-125	2	20	
Iron, Dissolved	ug/L	659	5000	5000	5830	5790	103	103	75-125	1	20	
Lead, Dissolved	ug/L	<19.7	500	500	468	460	93	91	75-125	2	20	
Manganese, Dissolved	ug/L	1850	500	500	2330	2270	96	85	75-125	2	20	
Vanadium, Dissolved	ug/L	63.6	500	500	570	559	101	99	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

QC Batch: 338116 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006, 40197555007

METHOD BLANK: 1964128 Matrix: Water
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006, 40197555007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/22/19 17:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/22/19 17:01	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/22/19 17:01	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/22/19 17:01	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/22/19 17:01	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/22/19 17:01	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/22/19 17:01	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/22/19 17:01	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/22/19 17:01	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/22/19 17:01	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/22/19 17:01	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/22/19 17:01	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/22/19 17:01	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/22/19 17:01	
2-Butanone (MEK)	ug/L	<2.9	20.0	10/22/19 17:01	
2-Hexanone	ug/L	<2.5	8.2	10/22/19 17:01	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.5	5.1	10/22/19 17:01	
Acetone	ug/L	<2.7	20.0	10/22/19 17:01	
Benzene	ug/L	<0.25	1.0	10/22/19 17:01	
Bromodichloromethane	ug/L	<0.36	1.2	10/22/19 17:01	
Bromoform	ug/L	<4.0	13.2	10/22/19 17:01	
Bromomethane	ug/L	<0.97	5.0	10/22/19 17:01	
Carbon disulfide	ug/L	<0.37	5.0	10/22/19 17:01	
Carbon tetrachloride	ug/L	<0.17	1.0	10/22/19 17:01	
Chlorobenzene	ug/L	<0.71	2.4	10/22/19 17:01	
Chloroethane	ug/L	<1.3	5.0	10/22/19 17:01	
Chloroform	ug/L	<1.3	5.0	10/22/19 17:01	
Chloromethane	ug/L	<2.2	7.3	10/22/19 17:01	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/22/19 17:01	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/22/19 17:01	
Dibromochloromethane	ug/L	<2.6	8.7	10/22/19 17:01	
Dibromomethane	ug/L	<0.94	3.1	10/22/19 17:01	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/22/19 17:01	
Ethylbenzene	ug/L	<0.22	1.0	10/22/19 17:01	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/22/19 17:01	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/22/19 17:01	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/22/19 17:01	
Methylene Chloride	ug/L	<0.58	5.0	10/22/19 17:01	
n-Butylbenzene	ug/L	<0.71	2.4	10/22/19 17:01	
n-Propylbenzene	ug/L	<0.81	5.0	10/22/19 17:01	
Naphthalene	ug/L	<1.2	5.0	10/22/19 17:01	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

METHOD BLANK: 1964128 Matrix: Water
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006, 40197555007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/L	<0.80	2.7	10/22/19 17:01	
sec-Butylbenzene	ug/L	<0.85	5.0	10/22/19 17:01	
Styrene	ug/L	<0.47	1.6	10/22/19 17:01	
tert-Butylbenzene	ug/L	<0.30	1.0	10/22/19 17:01	
Tetrachloroethene	ug/L	<0.33	1.1	10/22/19 17:01	
Tetrahydrofuran	ug/L	<2.3	20.0	10/22/19 17:01	
Toluene	ug/L	<0.17	5.0	10/22/19 17:01	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/22/19 17:01	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/22/19 17:01	
Trichloroethene	ug/L	<0.26	1.0	10/22/19 17:01	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/22/19 17:01	
Vinyl chloride	ug/L	<0.17	1.0	10/22/19 17:01	
Xylene (Total)	ug/L	<1.5	3.0	10/22/19 17:01	
4-Bromofluorobenzene (S)	%	94	70-130	10/22/19 17:01	
Dibromofluoromethane (S)	%	101	70-130	10/22/19 17:01	
Toluene-d8 (S)	%	100	70-130	10/22/19 17:01	

LABORATORY CONTROL SAMPLE: 1964129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.7	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethane	ug/L	50	56.6	113	73-150	
1,1-Dichloroethene	ug/L	50	56.9	114	73-138	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	70-130	
1,2-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dichloroethane	ug/L	50	54.2	108	75-140	
1,2-Dichloropropane	ug/L	50	49.1	98	73-135	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	53.7	107	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	45.2	90	68-129	
Bromomethane	ug/L	50	37.0	74	18-159	
Carbon disulfide	ug/L	50	56.7	113	69-132	
Carbon tetrachloride	ug/L	50	53.9	108	70-130	
Chlorobenzene	ug/L	50	50.7	101	70-130	
Chloroethane	ug/L	50	55.3	111	53-147	
Chloroform	ug/L	50	50.8	102	74-136	
Chloromethane	ug/L	50	53.4	107	29-115	
cis-1,2-Dichloroethene	ug/L	50	51.9	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.7	99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

LABORATORY CONTROL SAMPLE: 1964129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	51.0	102	70-130	
Dichlorodifluoromethane	ug/L	50	57.6	115	10-130	
Ethylbenzene	ug/L	50	54.0	108	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.0	100	70-130	
Methyl-tert-butyl ether	ug/L	50	51.8	104	54-137	
Methylene Chloride	ug/L	50	52.9	106	73-138	
Styrene	ug/L	50	49.6	99	70-130	
Tetrachloroethene	ug/L	50	47.2	94	70-130	
Toluene	ug/L	50	52.2	104	80-126	
trans-1,2-Dichloroethene	ug/L	50	57.5	115	73-145	
trans-1,3-Dichloropropene	ug/L	50	46.3	93	70-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
Trichlorofluoromethane	ug/L	50	58.1	116	76-147	
Vinyl chloride	ug/L	50	59.2	118	51-120	
Xylene (Total)	ug/L	150	163	109	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1964555 1964556

Parameter	Units	40197555004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	56.4	56.1	113	112	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50.8	50.7	102	101	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.5	49.5	103	99	70-137	4	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	56.7	53.7	113	107	73-153	5	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	55.6	53.3	111	107	73-138	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	54.6	54.4	109	109	58-129	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	53.4	50.7	107	101	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.9	52.9	106	106	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	55.0	52.6	110	105	75-140	4	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	49.8	50.2	100	100	71-138	1	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.2	52.0	104	104	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.7	50.8	101	102	70-130	0	20	
Benzene	ug/L	<0.25	50	50	53.6	52.6	107	105	70-130	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	51.1	49.8	102	100	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	47.3	46.2	95	92	68-129	2	20	
Bromomethane	ug/L	<0.97	50	50	39.1	40.2	78	80	15-170	3	20	
Carbon disulfide	ug/L	<0.37	50	50	56.1	55.6	112	111	66-145	1	20	
Carbon tetrachloride	ug/L	<0.17	50	50	55.3	54.2	111	108	70-130	2	20	
Chlorobenzene	ug/L	<0.71	50	50	52.2	50.7	104	101	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	53.5	51.2	107	102	51-148	4	20	
Chloroform	ug/L	<1.3	50	50	50.5	49.6	101	99	74-136	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1964555 1964556

Parameter	Units	40197555004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloromethane	ug/L	<2.2	50	50	52.4	51.8	104	103	23-115	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	52.2	50.1	104	100	70-131	4	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	52.3	50.1	105	100	70-130	4	20	
Dibromochloromethane	ug/L	<2.6	50	50	52.1	50.6	104	101	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	52.9	55.4	106	111	10-132	5	20	
Ethylbenzene	ug/L	<0.22	50	50	55.8	54.7	111	109	80-125	2	20	
Isopropylbenzene (Cumene)	ug/L	2.7J	50	50	55.5	54.0	105	103	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	52.2	50.3	104	101	51-145	4	20	
Methylene Chloride	ug/L	<0.58	50	50	52.4	50.4	105	101	73-140	4	20	
Styrene	ug/L	<0.47	50	50	50.4	49.6	101	99	70-130	2	20	
Tetrachloroethene	ug/L	<0.33	50	50	49.0	48.8	98	98	70-130	1	20	
Toluene	ug/L	<0.17	50	50	53.3	52.1	107	104	80-131	2	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	58.4	56.3	117	113	73-148	4	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	48.1	47.4	96	95	70-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	53.4	52.8	107	106	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	57.2	57.3	114	115	74-147	0	20	
Vinyl chloride	ug/L	<0.17	50	50	57.7	57.3	115	115	41-129	1	20	
Xylene (Total)	ug/L	<1.5	150	150	172	168	114	111	70-130	2	20	
4-Bromofluorobenzene (S)	%						100	100	70-130			
Dibromofluoromethane (S)	%						99	97	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

QC Batch: 338841 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006

METHOD BLANK: 1968437 Matrix: Water
Associated Lab Samples: 40197555001, 40197555002, 40197555003, 40197555004, 40197555005, 40197555006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.25	0.85	10/29/19 06:58	
Total Organic Carbon	mg/L	<0.25	0.85	10/29/19 06:58	
Total Organic Carbon	mg/L	<0.25	0.85	10/29/19 06:58	
Total Organic Carbon	mg/L	<0.25	0.85	10/29/19 06:58	
Total Organic Carbon	mg/L	<0.25	0.85	10/29/19 06:58	

LABORATORY CONTROL SAMPLE: 1968438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	2.5	2.3	92	80-120	
Total Organic Carbon	mg/L	2.5	2.3	91		
Total Organic Carbon	mg/L	2.5	2.3	92		
Total Organic Carbon	mg/L	2.5	2.3	92		
Total Organic Carbon	mg/L	2.5	2.3	92		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1968439 1968440

Parameter	Units	40197555002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/L	4.4	3	3	7.4	7.5	101	102	80-120	1	20	
Total Organic Carbon	mg/L	4.3	3	3	7.4	7.4	103	104		0		
Total Organic Carbon	mg/L	4.4	3	3	7.4	7.4	101	101		0		
Total Organic Carbon	mg/L	4.4	3	3	7.4	7.5	99	103		1		
Total Organic Carbon	mg/L	4.4	3	3	7.4	7.5	100	101		1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1968441 1968442

Parameter	Units	40198023003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/L	7.0	6	6	13.1	13.0	101	100	80-120	0	20	
Total Organic Carbon	mg/L	7.0	6	6	13.0	13.0	101	100		1		
Total Organic Carbon	mg/L	6.9	6	6	13.1	13.0	102	101		1		
Total Organic Carbon	mg/L	7.2	6	6	13.0	13.2	96	99		2		
Total Organic Carbon	mg/L	7.0	6	6	13.2	13.0	104	101		2		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter). Insufficient sample vial for re-analysis.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40197555001	MW-4S	EPA 3010	338349	EPA 6010	338446
40197555002	MW-5S	EPA 3010	338349	EPA 6010	338446
40197555003	MW-17S	EPA 3010	338349	EPA 6010	338446
40197555004	PZ-5	EPA 3010	338349	EPA 6010	338446
40197555005	PZ-6	EPA 3010	338349	EPA 6010	338446
40197555006	MW-5S DUP	EPA 3010	338349	EPA 6010	338446
40197555001	MW-4S	EPA 7470	338518	EPA 7470	338564
40197555002	MW-5S	EPA 7470	338518	EPA 7470	338564
40197555003	MW-17S	EPA 7470	338518	EPA 7470	338564
40197555004	PZ-5	EPA 7470	338518	EPA 7470	338564
40197555005	PZ-6	EPA 7470	338518	EPA 7470	338564
40197555006	MW-5S DUP	EPA 7470	338518	EPA 7470	338564
40197555001	MW-4S	EPA 8260	338116		
40197555002	MW-5S	EPA 8260	338116		
40197555003	MW-17S	EPA 8260	338116		
40197555004	PZ-5	EPA 8260	338116		
40197555005	PZ-6	EPA 8260	338116		
40197555006	MW-5S DUP	EPA 8260	338116		
40197555007	TRIP BLANK	EPA 8260	338116		
40197555001	MW-4S				
40197555002	MW-5S				
40197555003	MW-17S				
40197555004	PZ-5				
40197555005	PZ-6				
40197555006	MW-5S DUP				
40197555008	MW-1SR				
40197555009	MW-2D				
40197555010	MW-2M				
40197555011	MW-2S				
40197555012	MW-6M				
40197555013	MW-6S				
40197555014	MW-7M				
40197555015	MW-8D				
40197555016	MW-8M				
40197555017	MW-8S				
40197555018	MW-9M				
40197555019	MW-10M				
40197555020	MW-11M				
40197555021	MW-12S				
40197555022	MW-14S				
40197555023	MW-15M				
40197555024	MW-16S				
40197555025	MW-16M				
40197555026	MW-17M				
40197555027	PZ-1				
40197555028	PZ-2				
40197555029	PZ-3				

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF ONALASKA LANDFILL
Pace Project No.: 40197555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40197555030	**PZ-4**				
40197555001	**MW-4S**	EPA 9060	338841		
40197555002	**MW-5S**	EPA 9060	338841		
40197555003	**MW-17S**	EPA 9060	338841		
40197555004	**PZ-5**	EPA 9060	338841		
40197555005	**PZ-6**	EPA 9060	338841		
40197555006	**MW-5S DUP**	EPA 9060	338841		

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 **WI:** 920-469-2436

Page 1 of 1

COC No. 46197555

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	The OS Group LLC
Branch/Location:	LaCrosse WI
Project Contact:	Steven Osesek
Phone:	608-433-9388
Project Number:	
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	Steven Osesek
Sampled By (Sign):	Steven Osesek
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Steven Osesek
Mail To Company:	The OS Group LLC
Mail To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Contact:	Steven Osesek
Invoice To Company:	The OS Group LLC
Invoice To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Phone:	608-433-9388

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	FILTERED? (YES/NO)	PRESERVATION (CODE)*	VOCs 8260	Metals, Diss* 6010/7470	TOC 9060	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						Y / N		N	Y	N			
						Pick Letter		B	D	C			
001	MW-4S	10/16	1:15	GW				X	X	X	Lic# 00507		
002	MW-5S	10/16	2:10	GW				X	X	X	Metals: As, Ba, Cd, Co, Fe, Pb, Mn, V, Hg		
003	MW-17S	10/16	2:30	GW				X	X	X		CM	
004	PZ-5	10/16	11:30	GW				X	X	X			
005	PZ-6	10/16	11:50	GW				X	X	X			
006	DUP	10/16	2:15	GW				X	X	X			
007	Trip Blank	10/16	11:00	W				X					

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steven Osesek	10/17/19 12:30		
Del Ex	10/18/19 1035	Alan Pace	10/18/19 1035

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: OS Group LLC Project # 40197555

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A

Lab Lot# of pH paper: 10V53581 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: AS Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001			2										1					3															2.5 / 5 / 10
002			2										1					3															2.5 / 5 / 10
003			2										1					3															2.5 / 5 / 10
004			2										1					3															2.5 / 5 / 10
005			2										1					3															2.5 / 5 / 10
006			2										1					3															2.5 / 5 / 10
007																		2															2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

10/18/19 AS

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☑No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40197555

40197555

Client Name: OS Group LLC

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: 780326515446

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used SR - 40 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 /Corr: 5.5

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 10/18/19
Initials: AS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 453		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

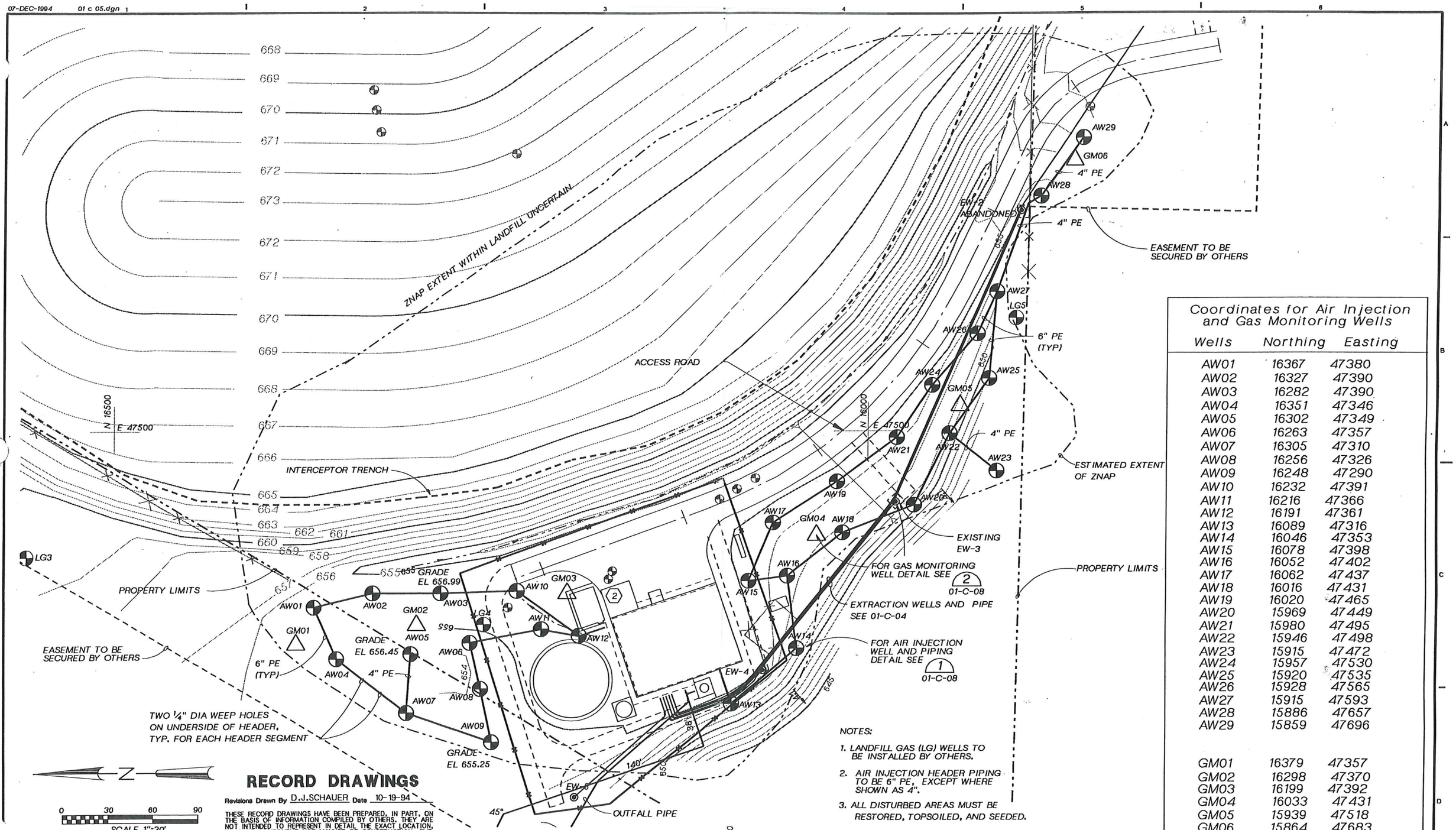
Project Manager Review: _____ **Date:** 10/21/19

APPENDIX C

Air Injection Header Piping and Well Location Plan

APPENDIX C

07-DEC-1994 01 c 05.dgn



Coordinates for Air Injection and Gas Monitoring Wells		
Wells	Northing	Easting
AW01	16367	47380
AW02	16327	47390
AW03	16282	47390
AW04	16351	47346
AW05	16302	47349
AW06	16263	47357
AW07	16305	47310
AW08	16256	47326
AW09	16248	47290
AW10	16232	47391
AW11	16216	47366
AW12	16191	47361
AW13	16089	47316
AW14	16046	47353
AW15	16078	47398
AW16	16052	47402
AW17	16062	47437
AW18	16016	47431
AW19	16020	47465
AW20	15969	47449
AW21	15980	47495
AW22	15946	47498
AW23	15915	47472
AW24	15957	47530
AW25	15920	47535
AW26	15928	47565
AW27	15915	47593
AW28	15886	47657
AW29	15859	47696
GM01	16379	47357
GM02	16298	47370
GM03	16199	47392
GM04	16033	47431
GM05	15939	47518
GM06	15864	47683

NOTES:

1. LANDFILL GAS (LG) WELLS TO BE INSTALLED BY OTHERS.
2. AIR INJECTION HEADER PIPING TO BE 6" PE, EXCEPT WHERE SHOWN AS 4".
3. ALL DISTURBED AREAS MUST BE RESTORED, TOPSOILED, AND SEEDED.

0 30 60 90
SCALE 1"=30'

RECORD DRAWINGS

Revisions Drawn By D.J.SCHAUER Date 10-19-94

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

CH2M HILL

DSGN	E.K. RUSSELL			DJS	SMK
DR	P.A. LLANAS	2	10-94 RECORD DRAWING	TP	SMK
CHK	P. BOERSMA	1	1-93 ACID TANK ADDITION		
APVD	S.M. KEITH	NO.	DATE REVISION	BY	APVD

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GROUNDWATER REMEDIAL ACTION
ONALASKA MUNICIPAL LANDFILL SITE
ONALASKA TOWNSHIP, WISCONSIN

AIR INJECTION HEADER PIPING AND WELL LOCATION PLAN

SHEET 12
DWG NO. 01-C-05
DATE OCT 1992
PROJ NO. GLO65602.FD

OVERLAY SCREEN
PROJID FILE