



Aptim Environmental & Infrastructure Inc.
2872 North Ridge Road,
Suite 102
Wichita, KS 67205
Tel: +1 316-220-8027

December 13, 2018

Mr. Binyoti Amungwafor
Wisconsin Department of Natural Resources
Southeast Region Headquarters
2300 N. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-0436

**Re: Closure Request Status Update
Redi Quick Dry Cleaners
9508 West Greenfield Avenue,
West Allis, Wisconsin
BRRTS No. 02-41-000676**

Dear Mr. Amungwafor:

Aptim Environmental and Infrastructure (APTIM), on the behalf of Redi-Quick Dry Cleaner, is presenting this Closure Request Status Update for the Redi Quick facility located at the above referenced address (**Figure B.1.a**). On August 16, 2017, APTIM and the Wisconsin Department of Natural Resources (WDNR) discussed the scope of work for additional site activities including vapor sampling, vapor mitigation pilot testing, groundwater and soil sampling and reporting as outlined in the approved proposal dated May 4, 2018. The completed field activities included the following:

- Collected vapor sub-slab, indoor air, and ambient air samples to assess the vapor intrusion pathway within the Redi-Quick building.
- Collected soil samples along the north side of the Redi-Quick building to assess residual chlorinated volatile organic compounds (CVOCs) in the shallow and deep soils. The data for the deeper soil samples will be compared to the 2006 soil data of soil borings P1 through P8.
- Collected the first of two proposed rounds of groundwater samples from the monitoring well network to monitor plume trends. The previous two rounds of groundwater sampling at the Site were conducted in May 2013 and March 2017. The two additional groundwater sampling events are proposed to support the stable to decreasing dissolved phase contaminant trends currently observed at the Site.

The sample locations for the completed field activities are illustrated in **Figure B.1.b**. Documentation of the field activities are provided in **Attachment A**. The following field activities will be completed in 2019:

- Conduct a vapor mitigation pilot test. The data from the pilot test will be utilized in the development and installation of a vapor mitigation sub-slab depressurization system which will break the pathway into the indoor air. The pilot test is anticipated to occur in January 2019.
- Collect the second round of groundwater samples from the monitoring well network to monitor plume trends. The previous round of groundwater sampling at the Site was conducted in

November 2018. This is the last of two additional groundwater sampling events that were proposed to support the stable to decreasing dissolved phase contaminant trends currently observed at the Site.

Sub-Slab Vapor Sampling Data

On November 9, 2018, three sub-slab, one indoor air, and one ambient air samples were collected at the Redi-Quick building to evaluate the potential for vapor intrusion. Three Cox-Colvin vapor monitoring point were installed in the slab of the Redi-Quick building. The seals were confirmed using the water dam leak testing method. Vapor samples were collected in 6-liter summa canisters. The data tables for the indoor air and the sub-slab vapor samples were updated to compare the results to the November 2017 United States Environmental Protection Agency (USEPA) Regional Screening Level Tables. The vapor sample locations and test results are illustrated in **Figure B.4.a**.

The CVOCs concentrations in the sub-slab samples Sub-Slab-1 and Sub-Slab-3, located at the west and east extents of the building, respectively, were below the Wisconsin Vapor Action Levels (VALs) commercial sub-slab screening levels. Tetrachlorethene (PCE) and trichlorethene (TCE) concentrations in the sub-slab sample Sub-Slab-2, collected adjacent to the former solvent tank source area, exceeded the commercial target sub-slab screening levels.

The indoor air sample for the Redi-Quick Dry Cleaner contained PCE and TCE concentrations exceeding the commercial target indoor air screening levels. It should be noted, that the Redi-Quick Dry Cleaner is an active dry cleaning facility and chemicals are still in use. The indoor air sample was collected near the former solvent tank source area. Low concentrations of PCE and TCE were also detected in the ambient air samples collected on the south side of the building.

The updated indoor air and sub-slab data are summarized in **Table A.4**.

Vapor Mitigation Pilot Test

The results of the vapor sampling indicated that vapor intrusion likely occurs in the vicinity of the former PCE tank. A vapor mitigation system (VMS) is recommended to mitigate the intrusion of residual CVOCs from beneath the Redi-Quick building. A VMS pilot will be conducted to provide site specific information necessary for the design of the VMS. It is anticipated that the VMS pilot test will be completed in January 2019.

Groundwater Sampling Activities

On November 11, 2018, APTIM completed the groundwater monitoring activities. Monitoring well MW-8 was not located as it was covered by new asphalt paving. The rest of the monitoring well network was found to be in good condition. The locations of the monitoring wells and the site layout are illustrated in **Figure B.1.b**. Following the monitoring well network inspection, APTIM conducted groundwater gauging of the network prior to groundwater sampling activities. On November 8, 2018, the depth to groundwater ranged from 1.45 (MW-14) to 15.96 (PZ-20) feet below ground surface (bgs) (**Table A.6**). The general groundwater flow is to the northeast, which is consistent with previous gauging events. There is a mound of groundwater around monitoring well MW-14 and MW-10 which may be due to the presence of a sandy silt on the eastern portion of the Site containing perched water. The groundwater flow at the Site On November 8, 2018 is illustrated in **Figure B.3.c**.

Following the groundwater gauging, the monitoring well network was low flow purged and sampled. Each monitoring well was purged utilizing disposable tubing connected to a peristaltic pump and an YSI multi-parameter water quality meter. The YSI was used to monitor groundwater aquifer properties for stabilization prior to sampling. The properties monitored included temperature, pH, dissolved oxygen, specific conductivity, and oxidation reduction potential (ORP). The groundwater samples from each well were collected into laboratory supplied jars for VOC analysis by EPA Method 8260 by Pace Analytical of Green Bay, Wisconsin. The historic groundwater data from the monitoring wells prior to the injection activities is presented on **Table A.1.a**. The natural attenuation data from the 2006 sampling event as a baseline for the Site are summarized in **Table A.7**. The post injection groundwater analytical data with the natural attenuation data are summarized in **Table A.1.b**. The laboratory analytical report is provided in **Attachment B**.

Groundwater Analytical Results

The groundwater VOC data for the groundwater monitoring well network has shown a stable footprint of the dissolved groundwater plume since the May 2013 sampling event. The breakdown daughter products of cis-1,2-dichloroethene (cis-DCE) and vinyl chloride (VC) have shown reductions in concentrations over time. PCE and TCE have remained stable, with some slight increases in concentration in monitoring wells near the former solvent tank located beneath the building. The down gradient and off-site monitoring wells of MW-11 and MW-21, as well as cross gradient well MW-13 have continued to exhibit low to non-detect concentrations of VOCs, as well as well MW-2.

Overall, the groundwater VOCs data has shown reduction of the source materials of PCE and TCE, the increase and decline in concentration of the daughter products of cis-DCE, and VC across the Site, and improved groundwater natural attenuation properties with low dissolved oxygen and negative oxidation reduction potential values which will promote further breakdown of the source materials. Concentrations of PCE, TCE, cis-DCE, and VC in the groundwater for the November 2018 sampling event are presented in **Figures B.3.b.1** thru **B.3.b.4**.

Soils Data Results

On November 9, 2018, soil samples were collected from two intervals, 2-4 feet and near the groundwater interface, at six location along the driveway for 1361 S. 95th Street residence adjacent to the Redi-Quick building. The Dorothy G Corporation, which owns the Redi Quick site, also owns the residence located to the north at 1361 S. 95th Street. Previous investigations identified the extent of impacted soils with CVOCs concentrations exceeding the WDNR direct contact standard and the soil to groundwater standard to beneath the Redi-Quick building, the adjacent north driveway for 1361 S. 95th Street residence, and in the vicinity of MW-14 and PZ-20. The November 2018 soil samples SB-10 through SB-15 were collected in close proximity to the June 2006 soil samples P-8, P-7, P-6, P-3, P-2, and P-1, respectively. The soil sample analytical data are summarized in **Table A.2**.

PCE was only detected in the direct impact soil sample collected at SB-13 (132 ug/kg). No other CVOCs were detected in the direct contact soil samples. PCE was detected in all six of the groundwater interface soil samples ranging in concentrations from 173 u/kg (SB-15) to 764,000 ug/kg (SB-13). The highest concentrations of PCE in the soil were reported in samples collected near the groundwater interface at boring SB-10 (213,000 ug/kg), SB-12 (196,000 ug/kg), and SB-13 (764,000 ug/kg). These locations

correspond to the 2006 soil sample locations P-8, P-6, and P-3, respectively. Soil PCE Concentrations at the groundwater interface interval are presented in **Figure B.2.b.1**.

TCE was not detected in any of the direct impact soil samples. TCE was detected in the groundwater interface soil samples collected from five of the six boring locations ranging in concentrations from 205J u/kg (SB-14) to 24,600 ug/kg (SB-13). The direct contact and the soil to groundwater standards exceedances for TCE follows the similar footprints as that of PCE. Soil TCE concentrations within the groundwater interface interval are presented in **Figure B.2.b.2**.

Cis-DCE was not detected in any of the direct impact soil samples. Cis-DCE was detected in the groundwater interface soil samples collected from five of the six boring locations ranging in concentrations from 4040J u/kg (SB-12) to 118,000 ug/kg (SB-13). Cis-DCE concentrations in soil did not exceed the direct contact standards, but exceeded the soil to groundwater standards. Concentrations of cis-DCE in the soil followed the same footprints as that of PCE and TCE. Soil cis-DCE concentrations within the groundwater interface interval are presented in **Figure B.2.b.3**.

Vinyl chloride was not detected in any of the direct impact soil samples. Vinyl chloride was detected in the groundwater interface soil samples collected from three of the six boring locations ranging in concentrations from 635 u/kg (SB-11) to 23,000 ug/kg (SB-14). Soil VC concentrations in soil exceeded the direct contact standards at two locations and the soil to groundwater standards at three locations. Concentrations of VC in the soil followed the same footprints as that of PCE, TCE, and cis-DCE. Soil VC concentrations within the groundwater interface interval are presented in **Figure B.2.b.4**.

Soils with reported concentrations of CVOCs within the direct contact interval of 0 to 4 ft bgs have had the impacts delineated and the extent of the impacts remain on-site. PCE was the only CVOC detected in the direct contact impact sample interval during the November 2018 sampling event.

Soils with reported concentrations of CVOCs within the groundwater interface interval of 10 to 16 ft bgs during the November 2018 sampling event include PCE and its daughter products. This is a dramatic change in the CVOCs makeup from the June 2006 sampling event where PCE was the dominant and often the only CVOC detected in the soil. This is a strong indicator of the reductive dehalogenation process following the injection of Newman's Zone® amendments in May 2010.

Summary

The results of the vapor assessment that was conducted in the Redi-Quick building indicated that a potential pathway for soil and groundwater vapors to enter the building may exist. The indoor air sample collected near the former solvent tank source area contained PCE and TCE concentrations that exceeded the commercial target indoor air screening levels. In addition, the sub-slab sample collected near the former solvent tank source area also contained PCE and TCE concentrations that exceeded commercial sub-slab screening levels. The Redi- Dry Cleaner is an active facility and occasionally uses and stores drums of PCE inside the building. A vapor mitigation system is recommended in the direct vicinity of the former solvent tank source area to address vapor intrusion as a potential pathway of concern for the Redi Quick Building. The proposed VMS will need to have regularly scheduled O&M to ensure the system is effectively operating to break the pathway for vapors to migrate into the building. The design of the CMS will be based on the results of the scheduled VMS pilot test.

The CVOCs concentrations in the soil at both the direct contact interval of 2 to 4 ft bgs and the groundwater interface interval of 10 to 16 ft bgs along the north driveway at 1361 S. 95th Street were investigated to evaluate residual concentrations following the 2009/2010 amendment injections. Soil and groundwater for the Site have shown significant improvements since the initial investigation work in 2006 and from the amendment injections in 2009 and in 2010. Concentrations of CVOCs at the monitoring wells have shown a stable or decreasing trend between 2010 and 2018. The reduction in PCE concentrations and the formation and increase in its daughter products TCE, cis-DCE, and VC continue to demonstrate that the injection of amendments have promoted the reductive dehalogenation of these compounds within the groundwater interface and dissolved plume. No CVOCs were detected in the groundwater at the downgradient monitoring wells. In 2006, PCE daughter products comprised of less than 1 percent of the total CVOCs in the soil. By 2018, PCE daughter products comprised of 6 to 96 percent of the total CVOCs with a 60 to 99 percent reduction of PCE concentrations in the soil.

The on-site building and the parking area serve as a protective cover to prevent direct contact with soils and will inhibit the infiltration of water through the soils. Site closure will require that these two covers remain in place, and that the building be recorded as a structural impediment to the underlying soils. A VMS will be installed in the vicinity of the former PCE tank at the Redi-Quick Dry Cleaner to mitigate the potential intrusion of vapor into the building. The vapor mitigation system in place at 1361 S. 95th Street continues to function optimally in order to break the soil and groundwater vapor migration pathway into the residence. Both VMSs will need to be continuously operated and maintained as a condition of site closure.

Closing

If you have any questions concerning this update, please contact me at (913) 317-3591.

Sincerely,



Mark Finney
Project Manager
Aptim Environmental & Infrastructure, Inc.

Please Reply To: Mark Finney
Phone: 913-317-3591
E-Mail Address: Mark.Finney@Aptim.com

c: Sam Gruichich, Redi-Quick
Mr. Carl Sinderbrand, Axley Brynelsoon, LLP

Tables

Table A.4
Vapor Concentration of Detected VOC Compo
Residential Buildings Ambient and Sub Slab Samples
1349, 1356, and 1361 S. 95th St.
West Allis, Wisconsin

Residence	Ambient Air and Sub-Slab Soil Gas Samples		1349 S. 95th Street					
			Basement 6/20/2006	Living Room 6/20/2006	Sub Slab 6/7/2006	Basement 1/23/2007	Living Room 1/23/2007	Sub Slab 1/24/2007
Sample Location	Residential Target Indoor Air Concentration	Residential Target Sub-Slab Soil Gas	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Sample Date	AF=0.03	AF=0.03						
Units								
1,2-Dichloroethane (1,2-DCA)	18	600	ND	ND	ND	ND	3.6	ND
1,2,4-Trimethylbenzene	7.3	240	ND	3.5	4.5	ND	ND	ND
1,3-Butadiene	0.94	31	12	15	15	3.5	5.9	ND
2-Butanone (Methyl Ethyl Ketone)	NES	NES	16	15	14	140	170	ND
2-Propanol	NES	NES	42	38	22	46	72	ND
4-Methyl-2-pentanone	3100	100000	3.6	ND	ND	ND	ND	ND
4-Ethyltoluene	NES	NES	ND	3.7	ND	ND	ND	ND
Acetone	32000	1100000	130	140	130	36	57	8.8
Benzene	3.6	120	10	12	11	3.4	4.9	ND
Carbon Disulfide	94	3100	ND	ND	ND	10	ND	ND
Chloromethane	94	3100	11	15	18	ND	8.3	ND
Cyclohexane	NES	NES	ND	ND	ND	2.8	3.4	ND
Ethanol	NES	NES	660 E	850 E	35	67	71	ND
Ethyl Benzene	11	370	6	6.4	5.1	5.6	7.4	ND
Heptane	NES	NES	4.2	4.1	5.6	31	36	ND
Hexane	NES	NES	5	4.8	5.0	ND	ND	ND
Methylene Chloride	630	21000	130	96	130	48	30	3.4
Styrene	NES	NES	4.9	5.2	3.7	ND	ND	ND
Tetrachloroethene (PCE)	42	1400	12	12	ND	ND	ND	ND
Tetrahydrofuran	2100	70000	ND	ND	ND	ND	ND	ND
Toluene	5200	170000	110	110	37	120	160	5.3
Trichloroethene (TCE)	2.1	70	6.8	6.7	ND	ND	ND	ND
Xylenes (m,p)	100	3300	18	19	11	17	25	ND
Xylenes (o)	100	3300	4.1	4.4	ND	5.7	8.1	ND

NOTES:

µg/m³= micrograms per cubic meter

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Pilot Test refers to the amendment injection pilot test conducted in 2009 for groundwater remediation

Indoor Air Vapor Action Levels and Vapor Risk Screening Levels are based on May 2016 USEPA Regional Screening Level Tables

Wisconsin Vapor Action Levels (VALs) are based on a Hazard Index (HI) = 1 and/or cRCL = 1x 10⁻⁵ for

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Residential Buildings Ambient and Sub Slab Samples
1349, 1356, and 1361 S. 95th St.
West Allis, Wisconsin

Residence	Ambient Air and Sub-Slab Soil Gas Samples		1356 S. 95th St.					
			Basement 6/21/2006	Living Room 6/21/2006	Sub Slab 6/7/2006	Basement 1/23/2007	Living Room 1/23/2007	Sub Slab 1/24/2017
Sample Location	Residential Target Indoor Air Concentration	Residential Target Sub-Slab Soil Gas						
Sample Date	AF=0.03	AF=0.03						
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1,2-Dichloroethane (1,2-DCA)	18	600	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	7.3	240	ND	ND	ND	ND	ND	ND
1,3-Butadiene	0.94	31	ND	ND	ND	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	NES	NES	4.5	ND	6.0	ND	ND	2.5
2-Propanol	NES	NES	ND	ND	ND	20	480	52
4-Methyl-2-pentanone	3100	100000	ND	ND	ND	ND	ND	ND
4-Ethyltoluene	NES	NES	ND	ND	ND	ND	ND	ND
Acetone	32000	1100000	44	15	32	23	30	16
Benzene	3.6	120	ND	ND	ND	ND	ND	ND
Carbon Disulfide	94	3100	9.8	ND	ND	ND	ND	ND
Chloromethane	94	3100	ND	ND	ND	ND	ND	ND
Cyclohexane	NES	NES	ND	ND	ND	ND	ND	ND
Ethanol	NES	NES	110	39	10	270	610	230
Ethyl Benzene	11	370	ND	ND	ND	ND	ND	ND
Heptane	NES	NES	ND	ND	ND	ND	ND	ND
Hexane	NES	NES	ND	ND	ND	ND	ND	ND
Methylene Chloride	630	21000	3.4	ND	3.4	2.3	ND	ND
Styrene	NES	NES	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	42	1400	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	2100	70000	ND	ND	ND	ND	ND	ND
Toluene	5200	170000	16	3.8	7.7	6.8	9.4	6.6
Trichloroethene (TCE)	2.1	70	5.6	ND	ND	4.2	ND	ND
Xylenes (m,p)	100	3300	5.6	ND	ND	ND	ND	ND
Xylenes (o)	100	3300	ND	ND	ND	ND	ND	ND

NOTES:

µg/m³= micrograms per cubic meter

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Indoor Air Vapor Action Levels and Vapor Risk Screening Levels are based on May 2016 USEPA Regional Screening Level Tables

Wisconsin Vapor Action Levels (VALs) are based on a Hazard Index (HI) = 1 and/or cRCL = 1x 10⁻⁵ for

Table A.4
Vapor Concentration of Detected VOC Compo
Residential Buildings Ambient and Sub Slab Samples
1349, 1356, and 1361 S. 95th St.
West Allis, Wisconsin

Residence	Ambient Air and Sub-Slab Soil Gas Samples		1361 S. 95th St.							
			Basement 6/20/2006	Basement 7/31/2006	Background (Porch) 7/31/2006	Basement 1/23/2007	Background (Porch) 1/23/2007	Basement (Pilot Test) 4/9/2009	Basement 11/11/2010	Basement 12/18/2012
Sample Location	Residential Target Indoor Air Concentration	Residential Target Sub-Slab Soil Gas AF=0.03	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Sample Date										
Units	AF=0.03	AF=0.03								
1,2-Dichloroethane (1,2-DCA)	18	600	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	7.3	240	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Butadiene	0.94	31	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	NES	NES	34	41	2.9	3.0	ND	8.3	5.3	4.1
2-Propanol	NES	NES	19	46	ND	ND	ND	20	220	13.2
4-Methyl-2-pentanone	3100	100000	ND	ND	ND	ND	ND	ND	ND	ND
4-Ethyltoluene	NES	NES	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	32000	1100000	700	65	16	9.6	9.3	74	43	28
Benzene	3.6	120	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	94	3100	ND	ND	2.9	ND	2.8	<1.2	<0.62	ND
Chloromethane	94	3100	ND	ND	ND	ND	ND	1.2	2.5	1.4
Cyclohexane	NES	NES	ND	ND	ND	ND	ND	1.5	1.4	ND
Ethanol	NES	NES	440	110	ND	38	6.3	1000	380	278
Ethyl Benzene	11	370	ND	ND	ND	ND	ND	2.6	1.3	ND
Heptane	NES	NES	ND	ND	ND	ND	ND	2.0	1.9	ND
Hexane	NES	NES	ND	ND	ND	ND	2.3	ND	ND	ND
Methylene Chloride	630	21000	ND	ND	ND	ND	21	ND	ND	ND
Styrene	NES	NES	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	42	1400	23	7.6	44	ND	ND	410	17	2.8
Tetrahydrofuran	2100	70000	22	27	ND	2.4	ND	2.2	<0.59	ND
Toluene	5200	170000	6.7	7.8	ND	ND	ND	11	9	3.7
Trichloroethene (TCE)	2.1	70	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (m,p)	100	3300	ND	ND	ND	ND	ND	9.5	3.4	ND
Xylenes (o)	100	3300	ND	ND	ND	ND	ND	2.3	1.2	ND

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Table A.4
Vapor Concentration of Detected VOC Compounds
Small Commercial Buildings Ambient and Sub Slab Samples
9508 West Greenfield Avenue
West Allis, Wisconsin

Location	Ambient Air and Sub-Slab Soil Gas		9508 West Greenfield Avenue				
	Commercial Target Indoor Air Concentration AF=0.03	Commercial Target Sub-Slab Soil Gas AF=0.03	Sub-Slab 1 11/9/2018 µg/m ³	Sub-Slab 2 11/9/2018 µg/m ³	Sub-Slab 3 11/9/2018 µg/m ³	Indoor Ambient 11/9/2018 µg/m ³	Outdoor Ambient 11/9/2018 µg/m ³
1,1,1-Trichloroethane	22000	730000	53.6	27.6	3.8	128	ND
1,2,4-Trimethylbenzene	260	8700	30.6	6	5.1	32.5	ND
1,3,5-Trimethylbenzene	260	8700	16.4	3.2	2.9	13.2	ND
2-Propanol	NES	NES	42.7	7.4	20.8	9.4	ND
4-Ethyltoluene	NES	NES	14.6	ND	ND	14.4	ND
Acetone	NES	NES	29.9	45.7	44.2	14.1	ND
Benzene	16	530	ND	1.3	ND	1.1	ND
Chloroform	5.3	180	1.2	12	ND	1.4	ND
Chloroethane	NES	NES	ND	5.3	ND	ND	ND
cis-1,2-Dichloroethene	NES	NES	ND	146	2.7	ND	ND
trans-1,2-Dichloroethene	NES	NES	ND	9.6	ND	ND	ND
Dichlorodifluoromethane	440	15000	2.4	2.3	2.3	2.3	2.3
Ethanol	NES	NES	11.4	24	21.2	60.9	4.5
Tetrachloroethene (PCE)	180	6000	1920	48500	242	1820	37.5
Tetrahydrofuran	NES	NES	2.4	1.4	1.7	10.5	ND
Toluene	22000	730000	1.4	ND	ND	6.5	ND
Trichloroethene (TCE)	8.8	290	195	4240	16.9	127	3.3
Xylenes (m,p)	440	15000	2.6	ND	ND	7.4	ND
Xylenes (o)	440	15000	1.5	ND	ND	3.5	ND

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Wisconsin Vapor Action Levels (VALs) are based on a Hazard Index (HI) = 1 and/or cRCL = 1x 10⁻⁵ for carcinogens.

TABLE A.2

**Soil Analytical Summary
Redi-Quick Cleaners
West Allis, Wisconsin**

Sample Location	Sample Depth	Sampling Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Unit:	feet		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Not-to-Exceed D-C RCL Non-Industrial			33,000	1,300	156,000	1,560,000	67
Not-to-Exceed D-C RCL Industrial			145,000	8,410	2,340,000	1,850,000	2,080
RCL - GW DF=2			4.5	3.6	41.2	62.6	1
SB-1	(18 - 20')	5/19/1999	230	<25	<25	<25	<25
SB-2	(14 - 16')	5/19/1999	33	<25	<25	<25	<25
SB - 3	(14 - 16')	5/19/1999	230,000	<1,000	<1000	<1000	<1000
SB - 4	(16 - 18')	5/19/1999	<25	30	<25	<25	<25
MW-11	(14 - 16')	8/30/2000	<25	<25	<25	<25	<25
MW-12	(10 - 12')	8/30/2000	129,000	180	<25	<25	<25
	(24 - 26')	8/30/2000	<25	<25	<25	<25	<25
MW-13	(20 - 22')	8/30/2000	<25	<25	<25	<25	<25
PZ-10	(2 - 4')	8/31/2000	3,090	<25	<25	<25	<25
	(16 - 18')	8/31/2000	<25	<25	<25	<25	<25
	(22 - 24')	8/31/2000	<25	<25	<25	<25	<25
	(45')	8/31/2000	<25	<25	<25	<25	<25
P-1	16-18	6/22/2006	110	<31	<31	<31	<31
P-2	12-14	6/22/2006	410,000	220	38	<31	<31
P-3	14-16	6/22/2006	1,900,000	<610	<610	<610	<610
P-4	12-14	6/22/2006	<29	<29	<29	<29	<29
P-5	14-16	6/22/2006	<30	<30	<30	<30	<30
P-6	14-16	6/23/2006	1,000,000	620	<610	<610	<610
P-7	10-12	6/23/2006	29,000	62	<29	<29	<29
P-8	14-16	6/23/2006	50,000	<610	<610	<610	<610
P-9	10-12	6/23/2006	<33	<33	<33	<33	<33
IS-1	2-4	5/10/2010	11,000	1,100	590	<40	<40
	10-11.5	5/10/2010	190,000	1,200	32	<40	<40
IS-2	6-8	5/10/2010	260,000	290	590	<45	140
	10-12	5/10/2010	840,000	110	<32	<45	<45
SB-10	2-4	11/9/2018	<25	<25	<25	<25	<25
	12-14	11/9/2018	213,000	6,100	7,110	<1000	<1000
SB-11	2-4	11/9/2018	<25	<25	<25	<25	<25
	10-12	11/9/2018	7,630	3,340	8,640	269	635
SB-12	2-4	11/9/2018	<25	<25	<25	<25	<25
	10-12	11/9/2018	196,000	2340J	4040J	<2000	<2000
SB-13	2-4	11/9/2018	132	<25	<25	<25	<25
	12-14	11/9/2018	764,000	24,600	118,000	<5000	8990J
SB-14	2-4	11/9/2018	<25	<25	<25	<25	<25
	12-14	11/9/2018	3,170	205J	59,700	1,760	23,000
SB-15	2-4	11/9/2018	<25	<25	<25	<25	<25
	12-14	11/9/2018	173	<25	<25	<25	<25

Bold indicates exceedence of NR 720 Soil Standards
All concentrations in ppb, unless otherwise specified.
NS = No Standard

Table A.6 - Water Elevation Table
Summary of Groundwater Elevations
Redi-Quick Dry Cleaners
West Allis, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval		TOC to Water (ft btoc)	Water Elevation (ft msl)	Depth to TOS (ft)	Depth to BOW (ft)	Screen Length (feet)
			Top (ft msl)	Bottom (ft msl)					
MW-2	9/14/2000	781.58	765.63	755.63	NM	NM	15.95	25.95	10
	11/15/2000				12.56	769.02			
	6/9/2006				13.60	767.98			
	3/30/2009				13.33	768.25			
	7/28/2009				13.43	768.15			
	8/26/2009				13.62	767.96			
	7/7/2010				13.23	768.35			
	10/28/2010				13.65	767.93			
	1/27/2011				13.90	767.68			
	4/28/2011				12.21	769.37			
	8/7/2012				13.68	767.90			
	11/28/2012				15.38	766.20			
	2/27/2013				13.67	767.91			
	5/20/2013				12.92	768.66			
	3/30/2017				12.62	768.96			
11/8/2018	12.42	769.16							
MW-4	9/14/2000	783.30	780.15	770.15	3.25	766.90	3.15	13.15	10
	11/15/2000				4.71	778.59			
	3/30/2009				5.23	778.07			
	7/28/2009				5.72	777.58			
	8/26/2009				5.69	777.61			
	7/6/2010				4.63	778.67			
	10/28/2010				5.69	777.61			
	1/27/2011				6.20	777.10			
	4/28/2011				3.63	779.67			
	8/7/2012				6.68	776.62			
	11/28/2012				5.92	777.38			
	2/27/2013				4.31	778.99			
	5/20/2013				4.13	779.17			
	3/30/2017				3.72	779.58			
	11/8/2018				3.92	779.38			
MW-8	9/14/2000	781.13	766.23	756.23	12.94	743.29	14.90	24.90	10
	11/15/2000				13.22	767.91			
	6/9/2006				13.90	767.23			
	3/30/2009				13.41	767.72			
	7/28/2009				13.62	767.51			
	8/26/2009				13.79	767.34			
	7/7/2010				13.19	767.94			
	10/28/2010				14.37	766.76			
	1/27/2011				14.13	767.00			
	4/28/2011				12.87	768.26			
	8/7/2012				13.74	767.39			
	11/28/2012				16.68	764.45			
	2/27/2013				15.03	766.10			
	5/20/2013				14.85	766.28			
	3/30/2017				NM				
11/8/2018	NM								
RS-E	9/14/2000	781.97	-	771.47	NM	-	-	10.50	-
	11/15/2000				2.22	779.75			
RS-W	9/14/2000	782.45	-	771.71	NM	-	-	10.74	-
	11/15/2000				2.99	779.46			
MW-10	9/14/2000	779.26	771.37	756.37	4.37	752.00	7.89	22.89	15
	11/15/2000				6.61	772.65			
	6/9/2006				5.29	773.97			
	3/30/2009				4.75	774.51			
	7/28/2009				5.63	773.63			
	8/26/2009				5.47	773.79			
	7/7/2010				4.13	775.13			
	10/28/2010				11.48	767.78			
	1/27/2011				5.01	774.25			
	4/28/2011				1.77	777.49			
	8/7/2012				5.12	774.14			
	11/26/2012				4.42	774.84			
	2/27/2013				2.76	776.50			
	5/20/2013				2.33	776.93			
	3/30/2017				2.68	776.58			
11/8/2018	3.4	775.86							

Table A.6 - Water Elevation Table
Summary of Groundwater Elevations
Redi-Quick Dry Cleaners
West Allis, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval		TOC to Water (ft btoc)	Water Elevation (ft msl)	Depth to TOS (ft)	Depth to BOW (ft)	Screen Length (feet)
			Top (ft msl)	Bottom (ft msl)					
MW-11	9/14/2000	777.89	769.57	759.57	8.60	750.97	8.32	18.32	10
	11/15/2000				8.81	769.08			
	6/9/2006				8.26	769.63			
	3/30/2009				8.25	769.64			
	7/28/2009				9.16	768.73			
	8/26/2009				8.05	769.84			
	7/6/2010				8.01	769.88			
	10/28/2010				9.46	768.43			
	1/27/2011				10.00	767.89			
	4/28/2011				7.39	770.50			
	8/7/2012				9.13	768.76			
	11/28/2012				9.97	767.92			
	2/27/2013				9.14	768.75			
	5/20/2013				8.63	769.26			
	3/30/2017				7.11	770.78			
11/8/2018	8.09	769.80							
MW-12	9/14/2000	782.61	762.55	752.55	13.74	738.81	20.06	30.06	10
	11/15/2000				14.03	768.58			
	6/9/2006				14.94	767.67			
	3/30/2009				14.33	768.28			
	6/24/2009				14.03	768.58			
	7/28/2009				14.68	767.93			
	8/26/2009				14.98	767.63			
	7/6/2010				19.83	762.78			
	10/28/2010				15.54	767.07			
	1/26/2011				15.48	767.13			
	4/28/2011				15.21	767.40			
	8/7/2012				16.00	766.61			
	11/28/2012				15.23	767.38			
	2/27/2013				14.70	767.91			
	5/20/2013				13.52	769.09			
3/30/2017	13.83	768.78							
11/8/2018	13.60	769.01							
MW-13	9/14/2000	780.08	763.44	753.44	9.54	743.90	16.64	26.64	10
	11/15/2000				10.70	769.38			
	6/9/2006				11.60	768.48			
	3/30/2009				11.08	769.00			
	7/28/2009				11.60	768.48			
	8/26/2009				11.92	768.16			
	7/6/2010				10.37	769.71			
	10/28/2010				11.94	768.14			
	1/27/2011				12.49	767.59			
	4/28/2011				9.50	770.58			
	8/7/2012				12.12	767.96			
	11/28/2012				12.33	767.75			
	2/27/2013				11.49	768.59			
	5/20/2013				10.42	769.66			
	3/30/2017				9.82	770.26			
11/8/2018	10.26	769.82							
MW-14	3/25/2009	783.07	773.77	763.77	16.74	766.33	9.30	19.30	10
	3/30/2009				14.43	768.64			
	6/24/2009				6.71	776.36			
	7/28/2009				3.58	779.49			
	7/6/2010				14.63	768.44			
	10/28/2010				11.50	771.57			
	1/26/2011				8.54	774.53			
	4/28/2011				7.06	776.01			
	8/7/2012				7.65	775.42			
	11/28/2012				5.99	777.08			
	2/27/2013				5.01	778.06			
	5/20/2013				4.25	778.82			
	3/30/2017				2.39	780.68			
	11/8/2018				1.45	781.62			

Table A.6 - Water Elevation Table
Summary of Groundwater Elevations
Redi-Quick Dry Cleaners
West Allis, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval		TOC to Water (ft btoc)	Water Elevation (ft msl)	Depth to TOS (ft)	Depth to BOW (ft)	Screen Length (feet)
			Top (ft msl)	Bottom (ft msl)					
MW-21	6/9/2006	778.65	772.35	762.35	7.18	771.47	6.30	16.30	10
	3/30/2009				7.56	771.09			
	7/28/2009				7.68	770.97			
	8/26/2009				8.05	770.60			
	7/6/2010				7.09	771.56			
	10/28/2010				7.74	770.91			
	1/26/2011				9.11	769.54			
	4/28/2011				7.28	771.37			
	8/7/2012				8.00	770.65			
	11/28/2012				8.90	769.75			
	2/27/2013				NM	NM			
	5/20/2013				7.40	771.25			
	3/30/2017				5.72	772.93			
11/8/2018	8.40	770.25							
PZ-10	9/14/2000	779.44	738.98	733.98	38.72	695.26	40.46	45.46	5
	11/15/2000				13.40	766.04			
	6/9/2006				13.80	765.64			
	3/30/2009				13.13	766.31			
	7/28/2009				13.62	765.82			
	8/26/2009				13.91	765.53			
	7/7/2010				12.77	766.67			
	10/28/2010				13.94	765.50			
	1/27/2011				15.81	763.63			
	4/28/2011				13.31	766.13			
	8/7/2012				14.53	764.91			
	11/28/2012				14.39	765.05			
	2/27/2013				14.59	764.85			
	5/20/2013				13.83	765.61			
	3/30/2017				13.1	766.34			
11/8/2018	12.55	766.89							
PZ-20	6/9/2006	783.33	744.21	739.21	16.75	766.58	39.12	44.12	5
	3/30/2009				15.79	767.54			
	8/26/2009				16.76	766.57			
	7/6/2010				15.65	767.68			
	10/28/2010				16.90	766.43			
	1/26/2011				17.13	766.20			
	4/28/2011				16.42	766.91			
	8/7/2012				17.23	766.10			
	11/28/2012				17.24	766.09			
	2/27/2013				17.23	766.10			
	5/20/2013				16.75	766.58			
	3/30/2017				15.92	767.41			
	11/8/2018				15.96	767.37			

Notes:
All units in feet
ft msl = feet relative to mean sea level
TOC = top of casing
TOS = top of screen
BOC = bottom of casing
BOW = bottom of well
NM = not measured
"-" = not available

Table A.1.a
Detected Groundwater VOC Results - Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number Sample Date	Units	NR 140.10 Table 1		MW-2					
		PAL	ES	8/17/1992	2/23/1993	8/12/1998	5/10/1999	11/3/1999	6/9/2006
1,1-Dichloroethene	µg/l	0.7	7	< 1	< 1	< 0.61	< 0.43	< 0.43	< 0.5
1,1,2-Trichloroethane	µg/l	0.5	5	NA	NA	NA	NA	NA	< 0.25
1,2-Dichloroethane (1,2-DCA)	µg/l	0.5	5	NA	7.4	11	13	11	6.8
1,2,4-TMB	µg/l	96*	480*	< 1	< 1	< 0.41	< 0.22	< 0.22	< 0.2
1,3,5-Trimethylbenzene	µg/l	96*	480*	< 1	< 1	< 0.4	< 0.27	< 0.27	< 0.2
Benzene	µg/l	0.5	5	< 0.6	< 1	< 0.49	< 0.27	0.27	< 0.2
cis-1,2-Dichloroethene (DCE)	µg/l	7	70	< 1	< 1	10	13	19	37
cis-1,3-Dichloropropene	µg/l	0.02	0.2	< 1	< 1	< 0.48	< 0.32	< 0.42	< 0.2
Ethylbenzene	µg/l	140	700	< 1	< 1	< 0.39	< 0.32	< 0.32	< 0.5
Methyl-tert-butyl-ether (MTBE)	µg/l	12	60	< 1	< 1	< 0.55	< 0.32	< 0.32	< 0.5
Tetrachloroethene (PCE)	µg/l	0.5	5	< 1	< 1	< 0.4	< 0.43	< 0.43	< 0.5
trans-1,2-Dichloroethene (DCE)	µg/l	20	100	< 1	< 1	< 0.36	< 0.79	< 0.79	1.2 J
Trichloroethene (TCE)	µg/l	0.5	5	< 1	< 1	0.29 J	< 0.37	1.4	1.5
Toluene	µg/l	200	1000	< 1	< 1	< 0.4	< 0.27	< 0.27	< 0.2
Vinyl Chloride	µg/l	0.02	0.2	< 5	< 1	2	0.43	2.5	3.9
Xylenes	µg/l	1000	10000	< 2.5	< 2	< 1.04	< 0.43	< 0.43	< 0.5

Notes:

Only constituents with at least one concentration above laboratory detection limit are listed.

J = Value below limit of quantitation, but greater than the method detection limit

[D] = duplicate sample

M = sample pH greater than 2

NA = not analyzed

NES = no established standard

Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)

TMB = Trimethylbenzene

µg/l = micrograms per liter

* = NR 140.10 standards apply to Total Trimethylbenzene concentration.

Red/Bold = Wisconsin Administrative Code NR 140 Enforcement Standard (ES) exceedence

Blue/Italic = Wisconsin Administrative Code NR 140 Preventive Action Limit (PAL) exceedence

Table A.1.a
Detected Groundwater VOC Results - Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number Sample Date	Units	NR 140.10 Table 1		MW-4					
		PAL	ES	8/17/1992	2/23/1993	8/12/1998	5/10/1999	11/3/1999	9/14/2000
1,1-Dichloroethene	µg/l	0.7	7	< 1	< 1	< 0.61	< 0.43	< 0.43	< 0.5
1,1,2-Trichloroethane	µg/l	0.5	5	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane (1,2-DCA)	µg/l	0.5	5	< 1	< 1	< 0.5	< 0.37	< 0.37	< 0.5
1,2,4-TMB	µg/l	96*	480*	< 1	< 1	< 0.41	< 0.22	< 0.22	< 5
1,3,5-Trimethylbenzene	µg/l	96*	480*	< 1	< 1	< 0.4	< 0.27	< 0.27	< 5
Benzene	µg/l	0.5	5	< 0.6	< 1	< 0.49	< 0.27	< 0.27	< 0.5
cis-1,2-Dichloroethene (DCE)	µg/l	7	70	12.2	3.2	0.4 J	0.5	0.37	< 5
cis-1,3-Dichloropropene	µg/l	0.02	0.2	4.03	< 1	< 0.48	< 0.32	< 0.42	NA
Ethylbenzene	µg/l	140	700	< 1	< 1	< 0.39	< 0.32	< 0.32	< 5
Methyl-tert-butyl-ether (MTBE)	µg/l	12	60	< 1	< 1	< 0.55	< 0.32	< 0.32	< 0.5
Tetrachloroethene (PCE)	µg/l	0.5	5	6.59	2.8	6	3.7	5.6	10.6
trans-1,2-Dichloroethene (DCE)	µg/l	20	100	< 1	< 1	< 0.36	< 0.79	< 0.79	< 5
Trichloroethene (TCE)	µg/l	0.5	5	2.79	1.4	0.88 J	0.77	0.71	0.969
Toluene	µg/l	200	1000	< 1	< 1	< 0.4	< 0.27	< 0.27	< 5
Vinyl Chloride	µg/l	0.02	0.2	< 5	< 1	< 0.6	< 0.2	< 0.2	0.586
Xylenes	µg/l	1000	10000	< 2.5	< 2	< 1.0	< 0.43	< 0.43	< 5

Notes:

Only constituents with at least one concentration above laboratory detection limit are listed.

J= Val;ue below limit of quantitation, but greater than the method detection limit

[D] = duplicate sample

M = sample pH greater than 2

NA = not analyzed

NES = no established standard

Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)

TMB = Trimethylbenzene

µg/l = micrograms per liter

* = NR 140.10 standards apply to Total Trimethylbenzene concentration.

Red/Bold = Wisconsin Administrative Code NR 140 Enforcement Standard (ES) exceedence

Blue/Italic = Wisconsin Administrative Code NR 140 Preventive Action Limit (PAL) exceedence

Table A.1.a
Detected Groundwater VOC Results - Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number Sample Date	Units	NR 140.10 Table 1		MW-8						
		PAL	ES	8/17/1992	2/23/1993	8/12/1998	5/10/1999	11/3/1999	9/14/2000	6/9/2006
1,1-Dichloroethene	µg/l	<i>0.7</i>	7	< 1	< 1	< 0.61	< 0.35	< 0.43	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/l	<i>0.5</i>	5	NA	NA	NA	NA	NA	NA	< 0.25
1,2-Dichloroethane (1,2-DCA)	µg/l	<i>0.5</i>	5	< 1	< 1	< 0.5	< 0.37	< 0.37	< 0.5	< 0.5
1,2,4-TMB	µg/l	<i>96*</i>	480*	< 1	< 1	< 0.41	< 0.22	< 0.22	< 5	< 0.2
1,3,5-Trimethylbenzene	µg/l	<i>96*</i>	480*	< 1	< 1	< 0.4	< 0.27	< 0.27	< 5	< 0.2
Benzene	µg/l	<i>0.5</i>	5	< 0.6	< 1	< 0.49	< 0.27	< 0.27	< 0.5	< 0.2
cis-1,2-Dichloroethene (DCE)	µg/l	<i>7</i>	70	< 1	< 1	< 0.41	< 0.28	< 0.28	< 5	< 0.5
cis-1,3-Dichloropropene	µg/l	<i>0.02</i>	0.2	< 1	< 1	< 0.48	< 0.32	< 0.42	NA	< 0.2
Ethylbenzene	µg/l	<i>140</i>	700	< 1	< 1	< 0.39	< 0.32	< 0.32	< 5	< 0.5
Methyl-tert-butyl-ether (MTBE)	µg/l	<i>12</i>	60	< 1	< 1	< 0.55	< 0.32	< 0.32	< 0.5	< 0.5
Tetrachloroethene (PCE)	µg/l	<i>0.5</i>	5	< 1	< 1	< 0.4	< 0.43	< 0.43	< 0.5	< 0.5
trans-1,2-Dichloroethene (DCE)	µg/l	<i>20</i>	100	< 1	< 1	< 0.36	< 0.79	< 0.79	< 5	< 0.5
Trichloroethene (TCE)	µg/l	<i>0.5</i>	5	< 1	< 1	< 0.51	< 0.37	< 0.37	< 0.5	< 0.2
Toluene	µg/l	<i>200</i>	1000	< 1	< 1	< 0.4	< 0.27	< 0.27	< 5	< 0.2
Vinyl Chloride	µg/l	<i>0.02</i>	0.2	< 5	< 1	< 0.61	< 0.2	< 0.2	< 0.17	< 0.2
Xylenes	µg/l	<i>1000</i>	10000	< 2.5	< 2	< 1.04	< 0.43	< 0.43	< 5	< 0.5

Notes:

Only constituents with at least one concentration above laboratory detection limit are listed.

J = Value below limit of quantitation, but greater than the method detection limit

[D] = duplicate sample

M = sample pH greater than 2

NA = not analyzed

NES = no established standard

Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)

TMB = Trimethylbenzene

µg/l = micrograms per liter

* = NR 140.10 standards apply to Total Trimethylbenzene or Total Xylene concentration.

Red/Bold = Wisconsin Administrative Code NR 140 Enforcement Standard (ES) exceedence

Blue/Italic = Wisconsin Administrative Code NR 140 Preventive Action Limit (PAL) exceedence

Table A.1.a
Detected Groundwater VOC Results - Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number Sample Date	Units	NR 140.10 Table 1		RW-E				
		PAL	ES	8/17/1992	2/23/1993	8/12/1998	5/10/1999	11/3/1999
1,1-Dichloroethene	µg/l	0.7	7	< 1	< 1	< 0.61	< 0.43	< 0.43
1,1,2-Trichloroethane	µg/l	0.5	5	NA	NA	NA	NA	NA
1,2-Dichloroethane (1,2-DCA)	µg/l	0.5	5	< 1	3.9	2	< 0.37	0.75
1,2,4-TMB	µg/l	96*	480*	< 1	< 1	< 0.41	< 0.22	< 0.22
1,3,5-Trimethylbenzene	µg/l	96*	480*	< 1	< 1	< 0.4	< 0.27	< 0.27
Benzene	µg/l	0.5	5	< 0.6	4.4	0.42 J	0.69	< 0.27
cis-1,2-Dichloroethene (DCE)	µg/l	7	70	< 1	44	95	0.8	29
cis-1,3-Dichloropropene	µg/l	0.02	0.2	23	< 1	< 0.48	< 0.32	< 0.32
Ethylbenzene	µg/l	140	700	< 1	1.4	< 0.39	< 0.32	< 0.32
Methyl-tert-butyl-ether (MTBE)	µg/l	12	60	< 1	< 1	< 0.55	< 0.32	< 0.32
Tetrachloroethene (PCE)	µg/l	0.5	5	50	220	15	3	35
trans-1,2-Dichloroethene (DCE)	µg/l	20	100	< 1	< 1	0.69 J	< 0.79	0.88
Trichloroethene (TCE)	µg/l	0.5	5	13	29	64	0.41	30
Toluene	µg/l	200	1000	< 1	< 1	< 0.4	< 0.27	< 0.27
Vinyl Chloride	µg/l	0.02	0.2	< 5	37	3	0.86	1.3
Xylenes	µg/l	1000	10000	< 2.5	< 2	< 1.04	< 0.43	< 0.43

Notes:

Only constituents with at least one concentration above laboratory detection limit are listed.

J= Val;ue below limit of quantitation, but greater than the method detection limit

[D] = duplicate sample

M = sample pH greater than 2

NA = not analyzed

NES = no established standard

Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)

TMB = Trimethylbenzene

µg/l = micrograms per liter

* = NR 140.10 standards apply to Total Trimethylbenzene concentration.

Red/Bold = Wisconsin Administrative Code NR 140 Enforcement Standard (ES) exceedence

Blue/Italic = Wisconsin Administrative Code NR 140 Preventive Action Limit (PAL) exceedence

Table A.1.a
Detected Groundwater VOC Results - Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number Sample Date	Units	NR 140.10 Table 1		RW-W				
		PAL	ES	8/17/1992	2/23/1993	8/12/1998	5/10/1999	11/3/1999
1,1-Dichloroethene	µg/l	0.7	7	< 1	2.4	< 0.61	< 0.43	< 0.43
1,1,2-Trichloroethane	µg/l	0.5	5	NA	NA	NA	NA	NA
1,2-Dichloroethane (1,2-DCA)	µg/l	0.5	5	< 1	1.1	< 0.5	0.76	< 0.37
1,2,4-TMB	µg/l	96*	480*	< 1	< 1	< 0.41	< 0.22	< 0.22
1,3,5-Trimethylbenzene	µg/l	96*	480*	< 1	< 1	< 0.4	< 0.27	< 0.27
Benzene	µg/l	0.5	5	< 0.6	4	< 0.49	0.69	< 0.27
cis-1,2-Dichloroethene (DCE)	µg/l	7	70	3.95	35	0.42 J	23	3.2
cis-1,3-Dichloropropene	µg/l	0.02	0.2	< 1	< 1	< 0.48	< 0.32	< 0.32
Ethylbenzene	µg/l	140	700	< 1	< 1	< 0.39	< 0.32	< 0.32
Methyl-tert-butyl-ether (MTBE)	µg/l	12	60	< 1	< 1	< 0.55	< 0.32	< 0.32
Tetrachloroethene (PCE)	µg/l	0.5	5	< 1	< 1	6	44	6.5
trans-1,2-Dichloroethene (DCE)	µg/l	20	100	< 1	< 1	< 0.36	< 0.79	< 0.79
Trichloroethene (TCE)	µg/l	0.5	5	< 1	17	0.98 J	21	3
Toluene	µg/l	200	1000	< 1	< 1	< 0.4	< 0.27	< 0.27
Vinyl Chloride	µg/l	0.02	0.2	< 5	17	< 0.61	3.9	0.27
Xylenes	µg/l	1000	10000	< 2.5	< 2	< 1.04	< 0.43	< 0.43

Notes:

Only constituents with at least one concentration above laboratory detection limit are listed.

J = Value below limit of quantitation, but greater than the method detection limit

[D] = duplicate sample

M = sample pH greater than 2

NA = not analyzed

NES = no established standard

Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)

TMB = Trimethylbenzene

µg/l = micrograms per liter

* = NR 140.10 standards apply to Total Trimethylbenzene concentration.

Red/Bold = Wisconsin Administrative Code NR 140 Enforcement Standard (ES) exceedence

Blue/Italic = Wisconsin Administrative Code NR 140 Preventive Action Limit (PAL) exceedence

Table A.1.a
Detected Groundwater VOC Results - Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number Sample Date	NR 140.10 Table 1		MW-10		MW-11		MW-12		MW-13	
	Units	PAL	ES	9/14/2000	6/9/2006	9/14/2000	6/9/2006	9/14/2000	6/9/2006	9/14/2000
1,1-Dichloroethene	µg/l	0.7	7	2.11	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/l	0.5	5	< 0.16	0.34 J	< 0.16	< 0.25	< 0.16	< 0.25	< 0.16
1,2-Dichloroethane (1,2-DCA)	µg/l	0.5	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4-TMB	µg/l	96*	480*	< 5	0.3 J	< 5	< 0.2	< 5	< 0.2	< 5
1,3,5-Trimethylbenzene	µg/l	96*	480*	< 5	< 0.2	< 5	< 0.2	< 5	< 0.2	< 5
Benzene	µg/l	0.5	5	< 0.5	0.37 J	< 0.5	< 0.2	< 0.5	< 0.2	< 0.5
cis-1,2-Dichloroethene (DCE)	µg/l	7	70	2630 A,B	49	< 5	< 0.5	12	< 0.5	< 5
cis-1,3-Dichloropropene	µg/l	0.02	0.2	NA	< 0.2	NA	< 0.2	NA	< 0.2	NA
Ethylbenzene	µg/l	140	700	< 5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 5
Methyl-tert-butyl-ether (MTBE)	µg/l	12	60	47.8	< 0.5	< 5	< 0.5	< 5	< 0.5	< 5
Tetrachloroethene (PCE)	µg/l	0.5	5	24700 A	17000	5.9	< 0.5	708 A	2.1	< 0.5
trans-1,2-Dichloroethene (DCE)	µg/l	20	100	28.5 C	4.3	< 5	< 0.5	< 5	< 0.5	< 5
Trichloroethene (TCE)	µg/l	0.5	5	4670 A	330	< 0.5	< 0.2	17	< 0.2	< 0.5
Toluene	µg/l	200	1000	< 5	< 0.2	< 5	< 0.2	< 5	< 0.2	< 5
Vinyl Chloride	µg/l	0.02	0.2	9.13	0.64 J	< 0.17	< 0.2	< 0.17	< 0.2	< 0.17
Xylenes	µg/l	1000	10000	< 5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 5

Notes:

Only constituents with at least one concentration above laboratory detection limit are listed.

J= Value below limit of quantitation, but greater than the method detection limit

[D] = duplicate sample

M = sample pH greater than 2

NA = not analyzed

NES = no established standard

A= The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects

B= The recovery of this analyte in the check standard is above the method specified acceptance criteria

C= The recovery of this analyte is below the method specified acceptance criteria

Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)

TMB = Trimethylbenzene

µg/l = micrograms per liter

* = NR 140.10 standards apply to Total Trimethylbenzene concentration.

Red/Bold = Wisconsin Administrative Code NR 140 Enforcement Standard (ES) exceedence

Blue/Italic = Wisconsin Administrative Code NR 140 Preventive Action Limit (PAL) exceedence

Table A.1.a
Detected Groundwater VOC Results - Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number Sample Date	Units	NR 140.10 Table 1		PZ-10		PZ-20	MW-DUP
		PAL	ES	9/14/2000	6/9/2006	6/9/2006	6/9/2006
1,1-Dichloroethene	µg/l	<i>0.7</i>	7	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/l	<i>0.5</i>	5	< 0.16	< 0.25	< 0.25	< 0.25
1,2-Dichloroethane (1,2-DCA)	µg/l	<i>0.5</i>	5	< 0.5	< 0.5	< 0.5	6.9
1,2,4-TMB	µg/l	<i>96*</i>	480*	< 5	< 0.2	< 0.2	< 0.2
1,3,5-Trimethylbenzene	µg/l	<i>96*</i>	480*	< 5	< 0.2	< 0.2	< 0.2
Benzene	µg/l	<i>0.5</i>	5	< 0.5	< 0.2	< 0.2	< 0.2
cis-1,2-Dichloroethene (DCE)	µg/l	<i>7</i>	70	< 5	< 0.5	< 0.5	<i>37</i>
cis-1,3-Dichloropropene	µg/l	<i>0.02</i>	0.2	NA	< 0.2	< 0.2	< 0.2
Ethylbenzene	µg/l	<i>140</i>	700	< 5	< 0.5	< 0.5	< 0.5
Methyl-tert-butyl-ether (MTBE)	µg/l	<i>12</i>	60	< 5	< 0.5	< 0.5	< 0.5
Tetrachloroethene (PCE)	µg/l	<i>0.5</i>	5	< 0.5	15	59	< 0.5
trans-1,2-Dichloroethene (DCE)	µg/l	<i>20</i>	100	< 5	< 0.5	< 0.5	1.2 J
Trichloroethene (TCE)	µg/l	<i>0.5</i>	5	< 0.5	< 0.2	<i>0.95</i>	<i>1.5</i>
Toluene	µg/l	<i>200</i>	1000	< 5	< 0.2	< 0.2	< 0.2
Vinyl Chloride	µg/l	<i>0.02</i>	0.2	< 0.17	< 0.2	< 0.2	3.7
Xylenes	µg/l	<i>1000</i>	10000	< 5	< 0.5	< 0.5	< 0.5

Notes:

Only constituents with at least one concentration above laboratory detection limit are listed.

J= Value below limit of quantitation, but greater than the method detection limit

[D] = duplicate sample

M = sample pH greater than 2

NA = not analyzed

NES = no established standard

A= The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects

B= The recovery of this analyte in the check standard is above the method specified acceptance criteria

C= The recovery of this analyte is below the method specified acceptance criteria

Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)

TMB = Trimethylbenzene

µg/l = micrograms per liter

* = NR 140.10 standards apply to Total Trimethylbenzene concentration.

Red/Bold = Wisconsin Administrative Code NR 140 Enforcement Standard (ES) exceedence

Blue/Italic = Wisconsin Administrative Code NR 140 Preventive Action Limit (PAL) exceedence

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-2					Pilot Testing Program				Quarterly Performance Monitoring Program													
					Baseline 3/30/2009	3 Month Performance			1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018				
Detected VOCs	NR 140.10 Table 1																					
	PAL																					
	ES																					
	cis-1,2-Dichloroethene	µg/l	7	70	28	NS	NS	NS	NS	36	35	8.4	4.7	< 0.74	< 0.74	1.12	1.1	0.32	< 0.27			
	trans-1,2-Dichloroethene	µg/l	20	100	1.6	J	NS	NS	NS	1.95	2.36	J	1.21	J	1.31	J	1.16	J	1.33	0.6	< 1.1	
Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	NS	8.7	10.8	<	0.44	<	0.44	<	0.33	<	0.33	<	0.5	<	0.33
Trichloroethene (TCE)	µg/l	0.5	5	1.37	J	NS	NS	NS	2.62	2.51	<	0.47	<	0.47	<	0.33	<	0.33	<	0.33	<	0.26
Vinyl Chloride	µg/l	0.02	0.2	1.79	NS	NS	NS	NS	3.5	6.8	<	3.09	2.65	0.80	0.62	0.86	1.01	0.67	J	<	0.17	
Field Measurements	Temperature	deg. C	--	--	10.67	NS	NS	NS	14.89	16.30	13.95	8.57	16.02	16.84	13.84	14.66	11.8	13.8				
	pH	--	--	--	7.11	NS	NS	NS	6.11	6.79	6.78	6.92	7.07	7.10	7.03	6.90	7.17	7.39				
	Dissolved Oxygen	mg/l	--	--	2.08	NS	NS	NS	0.25	0.03	0.30	0.18	0.73	0.17	0.28	7.69	0.43	3.84				
	Specific Conductivity	µs/cm	--	--	6674	NS	NS	NS	5107	4767	4307	4937	4999	4499	3861	3956	4249	102				
	ORP	mV	--	--	300.1	NS	NS	NS	-113	-151	-414	-83	-138	-257	-89	-125	-49.1	37				
Geochemical Parameters	TOC	µg/l	--	--	1,700	NS	NS	NS	400,000	170,000	170,000	91,000	NS	NS	NS	NS	NS	NS				
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS				
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.1	J	NS	NS	NS	0.1	J	<	0.1	<	0.1	<	0.1	NS	NS			
	Dissolved Sulfate	mg/l	--	--	156	NS	NS	NS	NS	91.8	4.44	J	<	3.4	<	3.4	NS	NS	NS			
	Ethane	µg/l	--	--	NS	NS	NS	NS	NS	4.2	895	<	5	<	20	<	0.5	<	10			
	Ethene	µg/l	--	--	NS	NS	NS	NS	NS	6.6	2.54	J	6.5	J	<	20	<	0.75	J	<	10	
	Methane	µg/l	--	--	NS	NS	NS	NS	NS	5.2	2.69	J	7.100	10.200	11.500	13.600	11.500	5.900	NS	NS		

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Italic = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-4					Pilot Testing Program				Quarterly Performance Monitoring Program														
					Baseline 3/30/2009	3 Month Performance			1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018					
Detected VOCs	NR 140.10 Table 1				NS	NS	NS	NS	1.93	22	24.8	36	35	23.2	10.1	5.6	0.73	J <	3.6				
	PAL				NS	NS	NS	NS	4.0	5.2	2.73	2.36	3.12	3.7	2.95	3.3	3.7	<	5.2				
	ES				NS	NS	NS	NS	<	0.39	1.23	0.74	J	0.54	J	1.87	1.6	1.15	1.38	1.2	<	1.3	
	cis-1,2-Dichloroethene	µg/l	7	70	NS	NS	NS	NS	<	0.19	0.62	1.42	1.04	2.41	2.24	<	0.18	<	0.18	<	0.18	<	0.17
Tetrachloroethene (PCE)	µg/l	0.5	5	NS	NS	NS	NS	17.02	17.01	9.14	3.65	19.34	13.82	6.25	11.61	7.3		13.6					
Trichloroethene (TCE)	µg/l	0.5	5	NS	NS	NS	NS	6.77	7.16	7.18	7.22	6.99	7.16	7.06	6.75	7.13		7.16					
Vinyl Chloride	µg/l	0.02	0.2	NS	NS	NS	NS	0.73	0.84	1.44	6.24	0.42	0.86	2.60	5.16	2.2		1.42					
Field Measurements	Temperature	deg. C	--	--	NS	NS	NS	NS	730	672	662	700	734	780	720	620	711		810				
	pH	--	--	--	NS	NS	NS	NS	-129	10	-394	26	110	-249	133	70	225.9		43.9				
	Dissolved Oxygen	mg/l	--	--	NS	NS	NS	NS	550	J	2300	NS	NS	NS	NS	NS	NS		NS				
	Specific Conductivity	µs/cm	--	--	NS	NS	NS	NS	0.51	0.13	J	0.14	J	0.52	NS	NS	NS	NS	NS		NS		
	ORP	mV	--	--	NS	NS	NS	NS	11.4	7.93	J	8.85	J	11.4	NS	NS	NS	NS	NS		NS		
Geochemical Parameters	TOC	µg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	<	0.5	NS	NS	NS	NS		NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	<	0.5	NS	NS	NS	NS		NS
	Dissolved Sulfate	mg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	<	0.5	NS	NS	NS	NS		NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	<	0.5	NS	NS	NS	NS		NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	<	0.5	NS	NS	NS	NS		NS
Methane	µg/l	--	--	NS	NS	NS	NS	1.2	J <	1	26.5	NS	31.2	NS	NS	NS	NS		NS				

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Italic = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-8	Pilot Testing Program				Quarterly Performance Monitoring Program																					
	Baseline 3/30/2009	3 Month Performance 5/30/2009	6/30/2009	7/30/2009	1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018												
Detected VOCs	NR 140.10 Table 1 PAL ES																									
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	NS	930	24,300	11,300	202	J	26.7	<	0.74	<	0.75	J	1.22	NS	NS			
	Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	NS	7,300	<	86	<	88	<	44	<	4.4	<	0.44	<	0.33	<	0.33	NS	NS
	Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	NS	380	<	78	<	94	<	47	<	4.7	<	0.47	<	0.33	<	0.33	NS	NS
Vinyl Chloride	µg/l	0.02	0.2	< 0.2	NS	NS	NS	NS	16.5	J	420	<	1,960	<	350	<	10.9	<	1.47	<	0.95	<	0.93	NS	NS	
Field Measurements	Temperature	deg. C	--	--	10.71	NS	NS	NS	NS	15.16	14.53	14.26	8.91	NS	18.06	16.50	13.44	15.81	NS	NS	NS	NS	NS	NS		
	pH	--	--	--	7.27	NS	NS	NS	NS	6.02	6.39	6.25	6.41	NS	6.66	6.69	6.57	6.38	NS	NS	NS	NS	NS	NS		
	Dissolved Oxygen	mg/l	--	--	1.44	NS	NS	NS	NS	0.33	0.01	0.42	0.29	NS	0.54	0.19	0.35	8.51	NS	NS	NS	NS	NS	NS		
	Specific Conductivity	µs/cm	--	--	1868	NS	NS	NS	NS	5164	4102	4192	3936	NS	4237	4012	4693	4567	NS	NS	NS	NS	NS	NS	NS	
	ORP	mV	--	--	285.1	NS	NS	NS	NS	-126	-77	-417	-41	NS	-106	-263	-52	-80	NS	NS	NS	NS	NS	NS	NS	
Geochemical Parameters	TOC	µg/l	--	--	2,100	NS	NS	NS	NS	960,000	840,000	1,000,000	640,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Dissolved Iron	µg/l	--	--	140	J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Dissolved Nitrate/Nitrite	mg/l	--	--	< 0.1	NS	NS	NS	NS	0.14	J	<	0.1	<	0.1	<	0.1	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Sulfate	mg/l	--	--	93.5	NS	NS	NS	NS	<	3.4	4.29	J	11.8	8.33	J	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Ethane	µg/l	--	--	NS	NS	NS	NS	NS	<	1	50.8	332	417	NS	135	202	125	127	NS	NS	NS	NS	NS	NS	
	Ethene	µg/l	--	--	NS	NS	NS	NS	NS	<	1	1120	1.5	J	<	20	<	0.5	1.4	2.17	<	10	NS	NS	NS	
	Methane	µg/l	--	--	NS	NS	NS	NS	NS	29	<	1	3600	5620	<	5,450	10,100	8,300	5,820	NS	NS	NS	NS	NS	NS	

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-10				Pilot Testing Program				Quarterly Performance Monitoring Program										
				Baseline 3/30/2009	5/30/2009	3 Month Performance 6/30/2009 7/30/2009		1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018	
Detected VOCs	NR 140.10 Table 1																	
	PAL																	
	ES																	
	cis-1,2-Dichloroethene	µg/l	7	70	< 220	NS	NS	NS	8,700	138,000	181,000	3,500 J	51,000	5,800	31,300	1,120	1,010	196
	trans-1,2-Dichloroethene	µg/l	20	100	< 305	NS	NS	NS	< 650	3,070	< 790	< 1580	< 395	< 395	< 175	< 175	< 104	83.7
Tetrachloroethene (PCE)	µg/l	0.5	5	33,000	NS	NS	NS	13,200	< 430	< 440	< 880	< 220	< 220	< 165	< 165	< 2.5	< 1.6	
Trichloroethene (TCE)	µg/l	0.5	5	580 J	NS	NS	NS	2,540	< 390	< 470	< 940	< 235	< 235	< 165	< 165	125	< 1.3	
Vinyl Chloride	µg/l	0.02	0.2	< 100	NS	NS	NS	220 J	14,700	25,700	1,660	21,100	4,600	13,300	640	699	200	
Field Measurements	Temperature	deg. C	--	--	9.33	NS	NS	NS	15.50	16.48	11.44	6.53	18.45	15.61	10.32	12.50	8.90	14.80
	pH	--	--	--	7.15	NS	NS	NS	6.48	6.60	6.33	6.87	6.54	6.79	6.79	6.86	7	6.99
	Dissolved Oxygen	mg/l	--	--	0.51	NS	NS	NS	0.28	0.10	0.37	0.31	0.57	0.18	0.25	0.51	0.37	0.50
	Specific Conductivity	µs/cm	--	--	3575	NS	NS	NS	3326	4992	5362	3936	4281	2794	3340	2432	2786	3450
	ORP	mV	--	--	294	NS	NS	NS	-136	-84	-413	-83	-95	-262	-70	-151	-137.5	-64
Geochemical Parameters	TOC	µg/l	--	--	2,800	NS	NS	NS	120,000	320,000	390,000	82,000	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.5	NS	NS	NS	< 0.1	< 0.1	< 0.1	< 0.1	NS	NS	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	103	NS	NS	NS	4.65 J	< 3.4	< 3.4	< 3.4	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	78	299	2630	4210	10300	13,500	10,100	4,910	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	2.5 J	4670	< 10	< 20	< 0.5	5	3.91	< 10	NS	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	62	< 1	4620	7870	5,600	10,300	10,500	7,380	NS	NS

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-11					Pilot Testing Program				Quarterly Performance Monitoring Program									
					Baseline 3/30/2009	3 Month Performance			1Q 7/6/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018
Detected VOCs	NR 140.10 Table 1																	
Detected VOCs	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	< 0.78	< 0.78	< 0.74	< 0.74	< 0.74	< 0.74	< 0.38	< 0.38	< 0.26	< 0.27
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	< 1.3	< 1.3	< 0.79	< 0.79	< 0.79	< 0.79	< 0.35	< 0.35	< 0.26	< 0.33
	Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44	< 0.33	< 0.33	< 0.5	< 0.26
	Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	< 0.39	< 0.39	< 0.47	< 0.47	< 0.47	< 0.47	< 0.33	< 0.33	< 0.33	< 0.33
Field Measurements	Temperature	deg. C	--	--	8.43	NS	NS	NS	15.07	16.70	11.57	5.15	17.74	15.64	10.23	11.29	9	14.3
	pH	--	--	--	7.00	NS	NS	NS	6.45	6.99	6.92	7.00	6.93	6.89	6.97	6.82	6.86	7.03
	Dissolved Oxygen	mg/l	--	--	0.89	NS	NS	NS	0.47	0.53	2.21	3.22	0.77	0.58	3.45	3.07	0.83	0.68
	Specific Conductivity	µs/cm	--	--	3446	NS	NS	NS	3567	3483	3202	3349	3388	3338	3226	3428	3428	3280
	ORP	mV	--	--	295.4	NS	NS	NS	-139	107	-370	14	81	-211	89	126	228.1	56.3
Geochemical Parameters	TOC	µg/l	--	--	3,000	NS	NS	NS	2,000	1400	1100	NS	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	< 0.1	NS	NS	NS	< 0.1	0.1	J	0.15	J	0.1	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	138	NS	NS	NS	193	172	127	168	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	< 1	1.4	J	2.6	J	NS	NS	NS	NS	NS

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-12				Pilot Testing Program				Quarterly Performance Monitoring Program										
				Baseline 3/30/2009	6/24/2009	3 Month Performance 7/28/2009 8/26/2009		1Q 7/6/2010	2Q 10/28/2010	3Q 1/26/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018	
Detected VOCs	NR 140.10 Table 1																	
	PAL																	
	ES																	
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	< 34	< 0.68	< 0.68	1,200 J	75,000	98,000	61,000	25,200	16,400	18,200	17,200	2.4	43.3
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	< 30.5	< 0.61	< 0.61	< 650	1,290	940 J	< 395	< 395	< 395	< 175	< 70	8.4	3.6 J
Tetrachloroethene (PCE)	µg/l	0.5	5	2.1	25.5 J	4.8	4.1	21,700	14,100	7,000	< 220	< 220	< 220	< 165	< 66	< 0.5	0.78 J	
Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	< 19.5	0.44 J	< 0.47 J	235 J	740	700 J	< 235	< 235	< 235	< 165	< 66	< 0.33	0.28 J	
Vinyl Chloride	µg/l	0.02	0.2					< 95	< 95	280	260	320	< 90	110 J	192	1.4	1.3	
Field Measurements	Temperature	deg. C	--	--	11.35	18.53	15.85	13.97	16.31	13.85	12.70	8.19	16.43	12.24	11.96	14.61	11.70	14.40
	pH	--	--	--	7.38	6.60	5.82	6.37	6.11	6.71	6.57	6.63	6.63	6.78	6.81	6.65	6.96	7.05
	Dissolved Oxygen	mg/l	--	--	1.78	1.43	3.14	0.52	0.42	0.07	0.26	0.40	0.48	0.73	0.40	7.13	0.70	0.54
	Specific Conductivity	µs/cm	--	--	1008	1114	1147	1363	3461	2446	2667	2763	2603	2513	2281	2129	1620	1320
	ORP	mV	--	--	274.1	-15.3	-152.7	-167	-153	-112	-160	-71	-106	-266	-80	-120	-131	-23
Geochemical Parameters	TOC	µg/l	--	--	2,200	22,000	230,000	280	830,000	510,000	580,000	430,000	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	2,930	2.7	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.1 J	1.01	<0.1	0.1 J	0.14 J	< 0.1	0.10 J	< 0.1	NS	NS	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	92.0	76.7	7.68 J	< 3.4	4.66 J	4.07 J	< 3.4	21.3	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	2.0 J	< 10	20.1 J	1.5	5.3	3.17	5.61	NS	NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1.0	< 10	< 20.0	< 0.5	< 0.5	< 0.5	< 5.0	NS	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	1150	3660	5420	4280	6,380	12,200	5,780	4,420	NS	NS
	Acetic Acid	mg/l	--	--	NS	46.00	190	210.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Butyric Acid	mg/l	--	--	NS	5.80	30	32.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Formic Acid	mg/l	--	--	NS	2.40	18	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Hexanoic Acid	mg/l	--	--	NS	1.20	<0.10	<0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	i-Hexanoic Acid	mg/l	--	--	NS	<0.1	<0.10	<0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	i-Pentanoic Acid	mg/l	--	--	NS	0.23	0.920	0.880	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lactic Acid	mg/l	--	--	NS	<1.00	<10.0	3.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Pentanoic Acid	mg/l	--	--	NS	0.54	2.50	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Propionic Acid	mg/l	--	--	NS	74.00	190.0	140.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Pyruvic Acid	mg/l	--	--	NS	0.77	3.10	2.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

NOTES
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 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-13					Pilot Testing Program				Quarterly Performance Monitoring Program										
					Baseline 3/30/2009	3 Month Performance			1Q 7/6/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018	
Detected VOCs	NR 140.10 Table 1																		
	PAL																		
	ES																		
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	< 0.78	< 0.78	< 0.74	< 0.74	< 0.74	NS	NS	NS	< 0.26	< 0.27	
trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	< 1.3	< 1.3	< 0.79	< 0.79	< 0.79	NS	NS	NS	< 0.26	< 1.10		
Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	NS	NS	NS	< 0.50	< 0.33		
Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	< 0.39	< 0.39	< 0.47	< 0.47	< 0.47	NS	NS	NS	< 0.03	< 0.26		
Field Measurements	Temperature	deg. C	--	--	10.27	NS	NS	NS	13.61	13.86	12.01	6.82	13.68	NS	NS	NS	11	13.9	
	pH	--	--	--	7.40	NS	NS	NS	7.03	7.42	7.26	7.62	7.29	NS	NS	NS	7.12	7.10	
	Dissolved Oxygen	mg/l	--	--	1.94	NS	NS	NS	2.33	0.93	2.88	8.33	0.48	NS	NS	NS	0.41	0.88	
	Specific Conductivity	µs/cm	--	--	810	NS	NS	NS	793	760	800	609	879	NS	NS	NS	1188	3220	
	ORP	mV	--	--	280.3	NS	NS	NS	-157	-12	-352	19	-39	NS	NS	NS	-49.5	42.6	
Geochemical Parameters	TOC	µg/l	--	--	3,500	NS	NS	NS	5200	6200	3900	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.37	NS	NS	NS	1.43	0.27	J	0.30	J <	0.1	NS	NS	NS	NS	
	Dissolved Sulfate	mg/l	--	--	33.0	NS	NS	NS	27.9	23.7	33.0	8.33	J	NS	NS	NS	NS	NS	
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	
	Methane	µg/l	--	--	NS	NS	NS	NS	< 1	1.8	J	2.3	J	NS	NS	NS	NS	NS	

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)

Redi-Quick Dry Cleaners
9508 West Greenfield Avenue
West Allis, Wisconsin

MW-14				Pilot Testing Program				Quarterly Performance Monitoring Program											
				Baseline 3/30/2009	6/24/2009	3 Month Performance 7/28/2009 8/26/2009		1Q 7/6/2010	2Q 10/28/2010	3Q 1/26/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018		
Detected VOCs	NR 140.10 Table 1 PAL ES																		
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	< 34	45 J	94	2,320	18,600	11,700	10,200	360	490	510	580	5.9	0.94 J	
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	< 30.5	NS	6.1	65	550	183 J	81	79	46	53	55	6.3	1.2 J	
	Tetrachloroethene (PCE)	µg/l	0.5	5	1.87	3300	550	208	2,040	98	44	44	47	44	4.4	3.3	< 3.3	< 0.5	0.33
	Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	< 19.5	<19.5	4.1 J	174	78	<	47	<	47	<	3.3	3.6 J	< 0.33	0.26
Vinyl Chloride	µg/l	0.02	0.2	< 0.2	< 10	<10	2.2 J	14.5 J	164	113	202	179	162	172	211	211	1.6	0.28 J	
Field Measurements	Temperature	deg. C	--	--	11.3	21.54	16.43	15.53	16.44	15.40	12.75	6.88	17.12	14.84	10.72	12.46	9.6	13.7	
	pH	--	--	--	7.99	5.9	5.88	6.18	5.97	6.42	6.42	6.51	6.43	6.40	6.37	6.30	6.58	7.01	
	Dissolved Oxygen	mg/l	--	--	1.74	2.44	3.23	0.96	0.40	0.04	0.31	0.27	0.55	0.21	0.35	5.40	0.51	0.39	
	Specific Conductivity	µs/cm	--	--	1020	3263	3200	3197	5207	3600	2907	2807	2964	3124	3144	3449	4122	541	
	ORP	mV	--	--	268.2	40.1	-51.9	-72	-133	-90	-161	-44	-70	-257	1	-61	-60.9	-20.3	
Geochemical Parameters	TOC	µg/l	--	--	2,400	22,000	1,200,000	810	1,900,000	1,100,000	680,000	410,000	NS	NS	NS	NS	NS	NS	
	Dissolved Iron	µg/l	--	--	< 60	5030	2.8	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Nitrate/Nitrite	mg/l	--	--	0.1 J	2.47	0.1 J	0.1 J	0.14 J	0.1	0.12 J	0.1	NS	NS	NS	NS	NS	NS	
	Sulfate	mg/l	--	--	82.5	35.2	35.4	3.4	22.4	5.12 J	3.76 J	3.4	NS	NS	NS	NS	NS	NS	
	Ethane	µg/l	--	--	NS	NS	NS	NS	1	5	1.1 J	20	179	146	104	139	NS	NS	
	Ethene	µg/l	--	--	NS	NS	NS	NS	1.1 J	5	1	20	<	10	0.5	10	NS	NS	
	Methane	µg/l	--	--	NS	NS	NS	NS	2,520	3920	9330	8580	7,240	9,910	8,290	7,850	NS	NS	
	Acetic Acid	mg/l	--	--	NS	380	280.0	320	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Butyric Acid	mg/l	--	--	NS	42	51.0	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Formic Acid	mg/l	--	--	NS	18	11.0	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Hexanoic Acid	mg/l	--	--	NS	7.4	<0.10	9.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	i-Hexanoic Acid	mg/l	--	--	NS	<1	<0.10	0.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	i-Pentanoic Acid	mg/l	--	--	NS	2.2	<0.70	1.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Lactic Acid	mg/l	--	--	NS	52	35.0	3.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Pentanoic Acid	mg/l	--	--	NS	4.6	8.10	7.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Propionic Acid	mg/l	--	--	NS	760	590.0	680	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Pyruvic Acid	mg/l	--	--	NS	10	5.80	6.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

NOTES
deg. C = degrees Celsius
mg/l = milligrams per liter
µs/cm = micro siemens per centimeter
µg/l = micrograms per liter
mV = millivolts
ORP = oxidation-reduction potential
TOC = Total Organic Carbon
J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
NS = not sampled
Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-21				Pilot Testing Program				Quarterly Performance Monitoring Program										
				Baseline 3/30/2009	3 Month Performance			1Q 7/6/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018	
Detected VOCs			NR 140.10 Table 1 PAL ES															
	cis-1,2-Dichloroethene	µg/l	7	< 0.44	NS	NS	NS	NS	< 0.78	NS	NS	< 0.74	NS	NS	NS	< 0.26	< 0.27	
	trans-1,2-Dichloroethene	µg/l	20	< 0.61	NS	NS	NS	NS	< 1.3	NS	NS	< 0.79	NS	NS	NS	< 0.26	< 1.1	
	Tetrachloroethene (PCE)	µg/l	0.5	< 0.5	NS	NS	NS	NS	< 0.43	NS	NS	< 0.44	NS	NS	NS	< 0.5	< 0.33	
	Trichloroethene (TCE)	µg/l	0.5	< 0.47	NS	NS	NS	NS	< 0.39	NS	NS	< 0.47	NS	NS	NS	< 0.33	< 0.26	
Field Measurements	Temperature	deg. C	--	7.43	NS	NS	NS	NS	16.37	NS	NS	17.09	NS	NS	NS	8.6	15.1	
	pH	--	--	6.95	NS	NS	NS	NS	6.89	NS	NS	6.84	NS	NS	NS	6.85	6.96	
	Dissolved Oxygen	mg/l	--	0.3	NS	NS	NS	NS	0.26	NS	NS	0.58	NS	NS	NS	0.98	0.49	
	Specific Conductivity	µs/cm	--	4632	NS	NS	NS	NS	4736	NS	NS	4989	NS	NS	NS	4020	5060	
	ORP	mV	--	283.2	NS	NS	NS	NS	98	NS	NS	72	NS	NS	NS	181.9	40.8	
Geochemical Parameters	TOC	µg/l	--	3,600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Ammonia as N	mg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Iron	µg/l	--	< 0.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Manganese	µg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Total Alkalinity (CaCO ₃)	mg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Nitrate/Nitrite	mg/l	--	< 0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Sulfate	mg/l	--	343.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Ethane	µg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Ethene	µg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Methane	µg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Acetic Acid	mg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Butyric Acid	mg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Lactic Acid	mg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Propionic Acid	mg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
Pyruvic Acid	mg/l	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

PZ-10				Pilot Testing Program				Quarterly Performance Monitoring Program													
				Baseline 3/30/2009	3 Month Performance			1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018				
Detected VOCs	NR 140.10 Table 1																				
	PAL																				
	ES																				
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	< 0.78	< 0.78	0.76	J	1.71	J	< 0.74	< 0.74	0.86	J	< 0.38	< 0.26	< 0.27
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	< 1.3	< 1.3	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.35	< 0.35	< 0.26
Tetrachloroethene (PCE)	µg/l	0.5	5	19.4	NS	NS	NS	13	17.9	8.2	5.0	4.0	4.9	9.8	8.7	13.6	13.6	8.7	8.7	0.48	12.8
Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	< 0.39	< 0.39	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.33	< 0.33	< 0.33	< 0.33	0.48	0.43J
Vinyl Chloride	µg/l	0.02	0.2	< 0.2	NS	NS	NS	< 0.19	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17
Field Measurements	Temperature	deg. C	--	--	10.91	NS	NS	NS	14.7	14.37	12.45	8.40	15.23	13.34	12.64	14.19	11.00	14.40			
	pH	--	--	--	7.64	NS	NS	NS	7.33	7.75	7.67	7.75	7.57	7.66	7.72	7.40	7.56	7.69			
	Dissolved Oxygen	mg/l	--	--	2.85	NS	NS	NS	2.58	2.78	2.83	6.30	2.10	1.51	5.85	7.89	4.96	4.81			
	Specific Conductivity	µs/cm	--	--	779	NS	NS	NS	847	767	762	801	795	752	816	792	782	790			
	ORP	mV	--	--	287	NS	NS	NS	-125	71	-344	19	107	-262	55	99	239.9	-21.5			
Geochemical Parameters	TOC	µg/l	--	--	3,800	NS	NS	NS	1900	3100	3100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.1	J	NS	NS	0.22	J	0.15	J	0.18	J	0.1	J	NS	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	37.0	NS	NS	NS	38.2	29.5	32.8	34.9	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	2.8	J	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Italic = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

PZ-20					Pilot Testing Program				Quarterly Performance Monitoring Program														
					Baseline 3/30/2009	3 Month Performance			1Q 7/6/2010	2Q 10/28/2010	3Q 1/26/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018					
Detected VOCs	NR 140.10 Table 1																						
			PAL	ES																			
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	<	0.78	1.37	J	3.8	2.05	J	10.2	14.3	<	5.0	10.3	26.3	15.3	
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	<	1.3	<	1.3	<	0.79	<	0.79	<	0.35	<	0.35	1.3	1.1	
	Tetrachloroethene (PCE)	µg/l	0.5	5	1.47	NS	NS	NS	83	43	<	22	12	17.5	19.8	5.5	8.6	21.9	29.8	7.6	9.2	29.8	
	Trichloroethene (TCE)	µg/l	0.5	5	1.64	NS	NS	NS	1.53	1.76	1.44	J	1.08	3.02	3.8	1.62	2.44	7.6	9.2	7.6	9.2	29.8	
Vinyl Chloride	µg/l	0.02	0.2	<0.2	NS	NS	NS	<	0.19	<	0.19	<	0.18	<	0.18	<	0.18	<	0.18	<	0.18	<	0.17
Field Measurements	Temperature	deg. C	--	--	10.61	NS	NS	NS	14.58	13.05	12.47	8.57	14.32	12.03	11.47	14.03	12.90	14.00					
	pH	--	--	--	7.67	NS	NS	NS	7.34	7.62	7.60	7.65	7.54	7.70	7.58	7.51	7.52	7.62					
	Dissolved Oxygen	mg/l	--	--	2.49	NS	NS	NS	4.39	2.21	2.21	4.07	4.41	5.65	1.38	5.86	3.49	2.88					
	Specific Conductivity	µs/cm	--	--	849	NS	NS	NS	888	833	816	867	848	817	898	843	861	890					
	ORP	mV	--	--	285.8	NS	NS	NS	-140	28	-138	16	116	-218	141	121	225	-57.2					
Geochemical Parameters	TOC	µg/l	--	--	1,900	NS	NS	NS	1400	1100	1620	NS	NS	NS	NS	NS	NS	NS					
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS					
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.1	J	NS	NS	0.12	J	0.1	0.14	J	0.1	NS	NS	NS	NS					
	Dissolved Sulfate	mg/l	--	--	41.4	NS	NS	NS	40.7	35.8	36.9	34.5	NS	NS	NS	NS	NS	NS					
	Ethane	µg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	NS	NS	NS	NS				
	Ethene	µg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	NS	NS	NS	NS				
	Methane	µg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	2.8	J	NS	NS	NS	NS				

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.7
Summary of Groundwater Field Measurements & Geochemical Parameters Pre-Injection
Redi-Quick Cleaners
West Allis, Wisconsin

Well Number		MW-2	MW-8	MW-10	MW-11	MW-12	PZ-10	PZ-20
Measurement Date		6/9/2006	6/9/2006	6/9/2006	6/9/2006	6/9/2006	6/9/2006	6/9/2006
Temperature	deg. C	13.03	13.47	13.78	12.25	13.12	14.09	13.62
pH		7	7.08	7.31	6.88	7.23	7.53	7.52
Dissolved Oxygen	mg/l	0.62	0.49	4.29	0.76	1.14	3.98	1.96
Specific Conductivity	µmhos	5029	1775	1656	3852	1002	768	817
ORP	mV	144	35	127	145	128	131	97
Nitrate/Nitrite	mg/L	.11 J	<.10	1.4	0.36	0.11	.22	0.12
Sulfate	mg/L	200	110	140	210	87	52	40
Iron	mg/L	<0.042	0.16	<0.042	<0.042	<0.042	<0.042	<0.042

Notes:

deg. C = degrees Celsius

mg/l = milligrams per liter

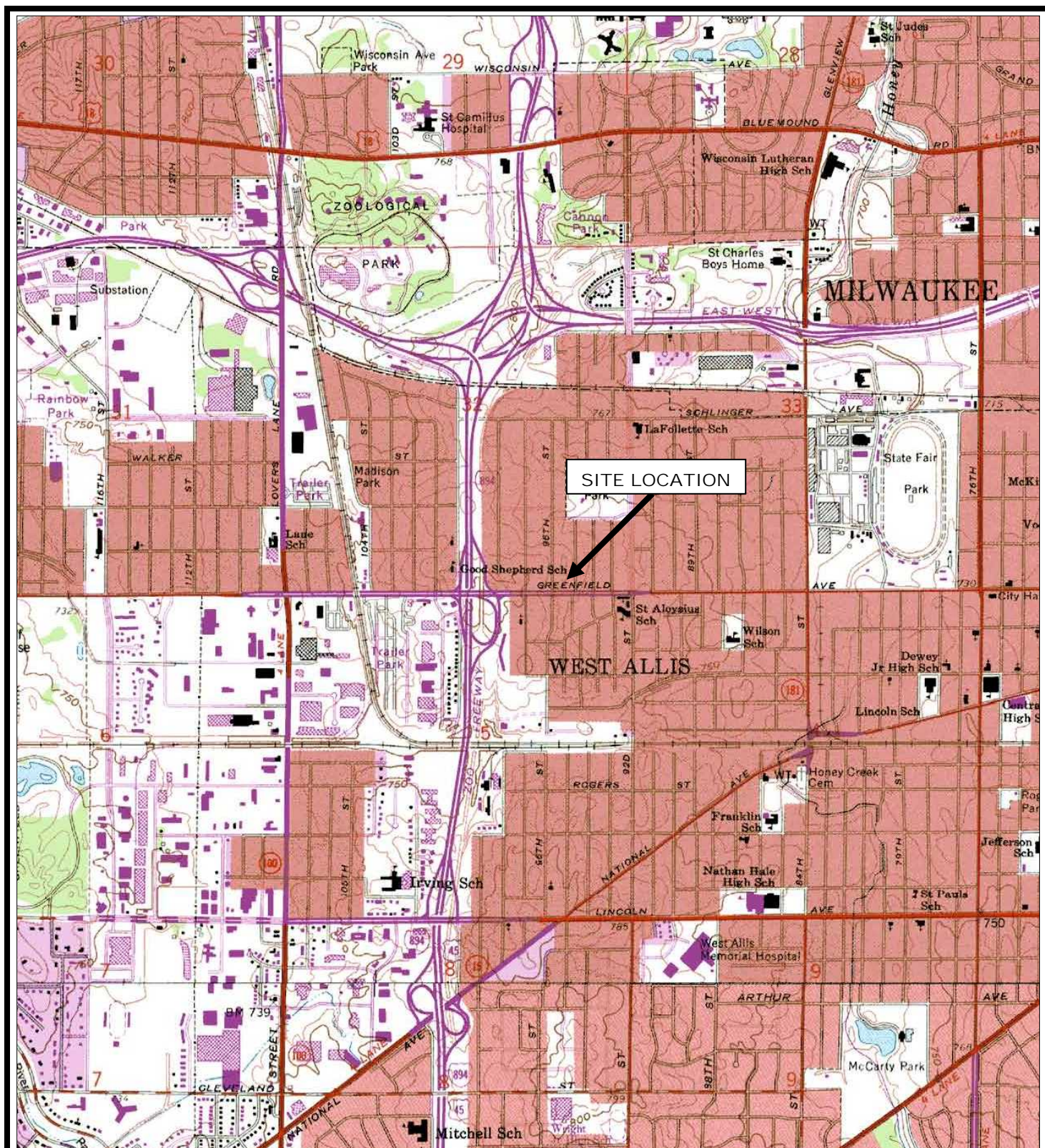
mV = milli-volts

NM = not measured, MW-5: sheen observed on 12/9/05.

ORP = oxidation-reduction potential

µs/cm = micro siemens per centimeter

Figures

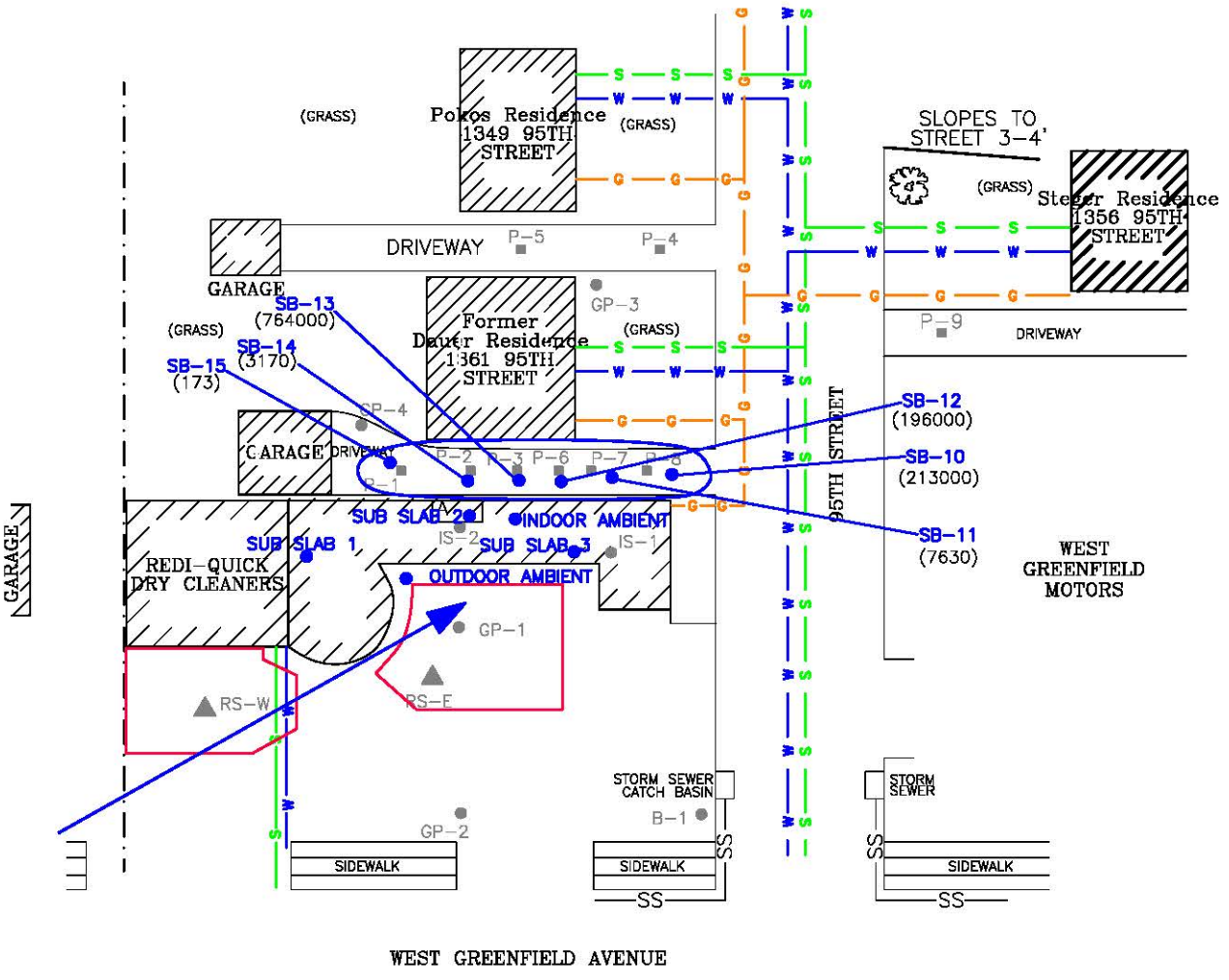


Source: USGS *Wauwatosa, Wisconsin* 7.5-minute Series (topographic) Quadrangle Map
 Scale: 1:24,000
 Contour Interval: 10 feet



Redi-Quick Dry Cleaners Site
 9805 West Greenfield Avenue
 West Allis, Wisconsin

Figure B.1.a
 Site Location Map



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (1.3) TETRACHLOROETHENE (PCE) CONCENTRATION UG/KG
- (NS) NOT SAMPLED

TANK KEY

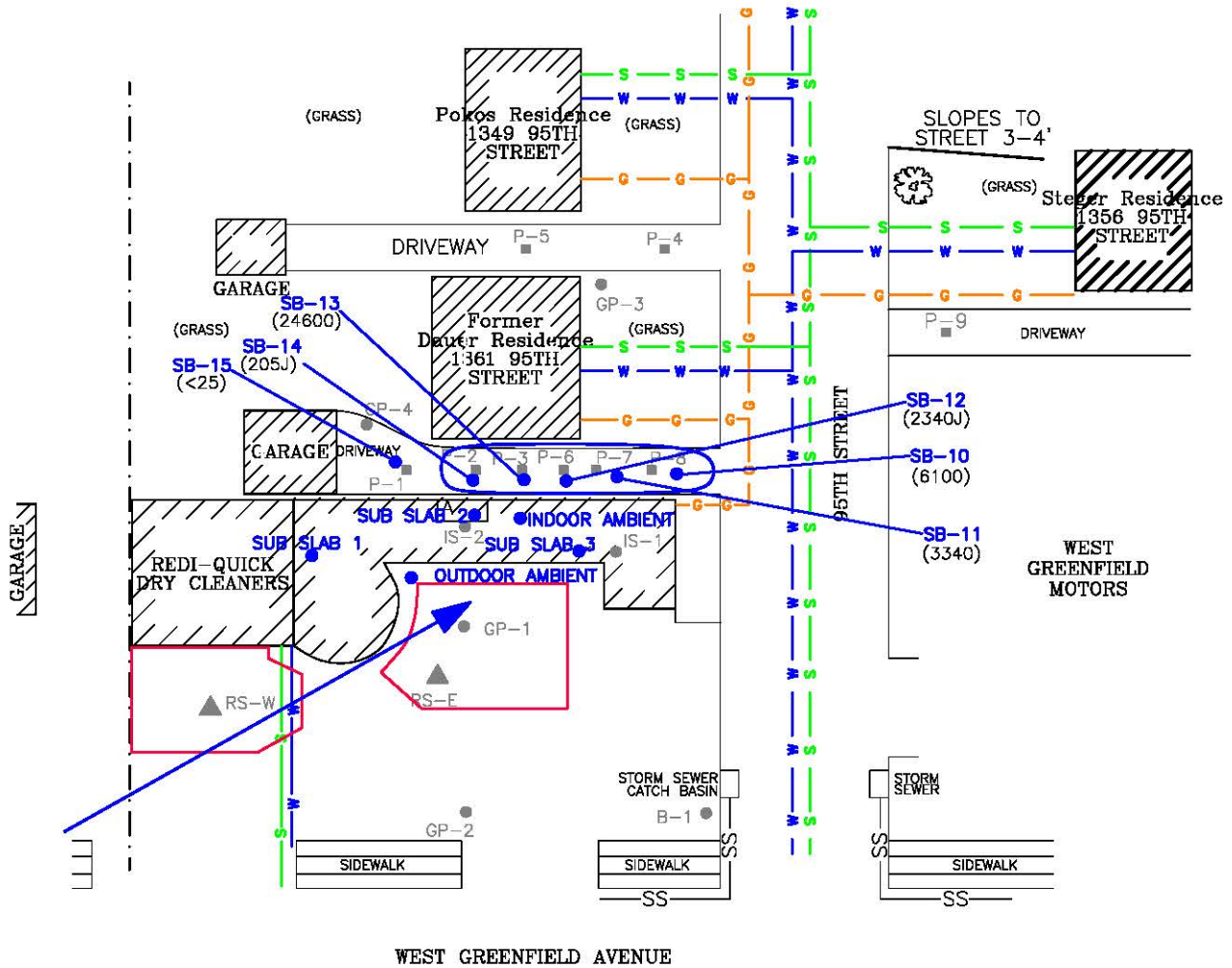
- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

- PCE GROUNDWATER RCL 4.5 UG/KG
- DIRECTION OF GROUNDWATER FLOW

APPROXIMATE SCALE IN FEET



		APTIM 2872 N. Ridge Road, Suite 102B Wichita, Kansas 67205		TITLE SOIL PCE CONCENTRATIONS IN DIRECT CONTACT INTERVAL NOVEMBER 2018	
CLIENT	Redi-Quick Dry Cleaners			DRWN	JRD
LOCATION	Redi-Quick Dry Cleaners Site 9508 West Greenfield Avenue West Allis, Wisconsin			CHKD	MLF
				REVD BY	JRD
				APPRVD BY	-
				PROJECT NO.	631224187
				REVISION DATE	-
				DATE	12/04/18
				FIGURE NO.	B.2.b.1



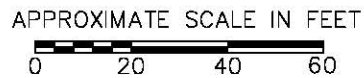
LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (1.3) TRICHLOROETHENE (TCE) CONCENTRATION UG/KG
- (NS) NOT SAMPLED

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

- TCE GROUNDWATER RCL 3.6 UG/KG
- DIRECTION OF GROUNDWATER FLOW



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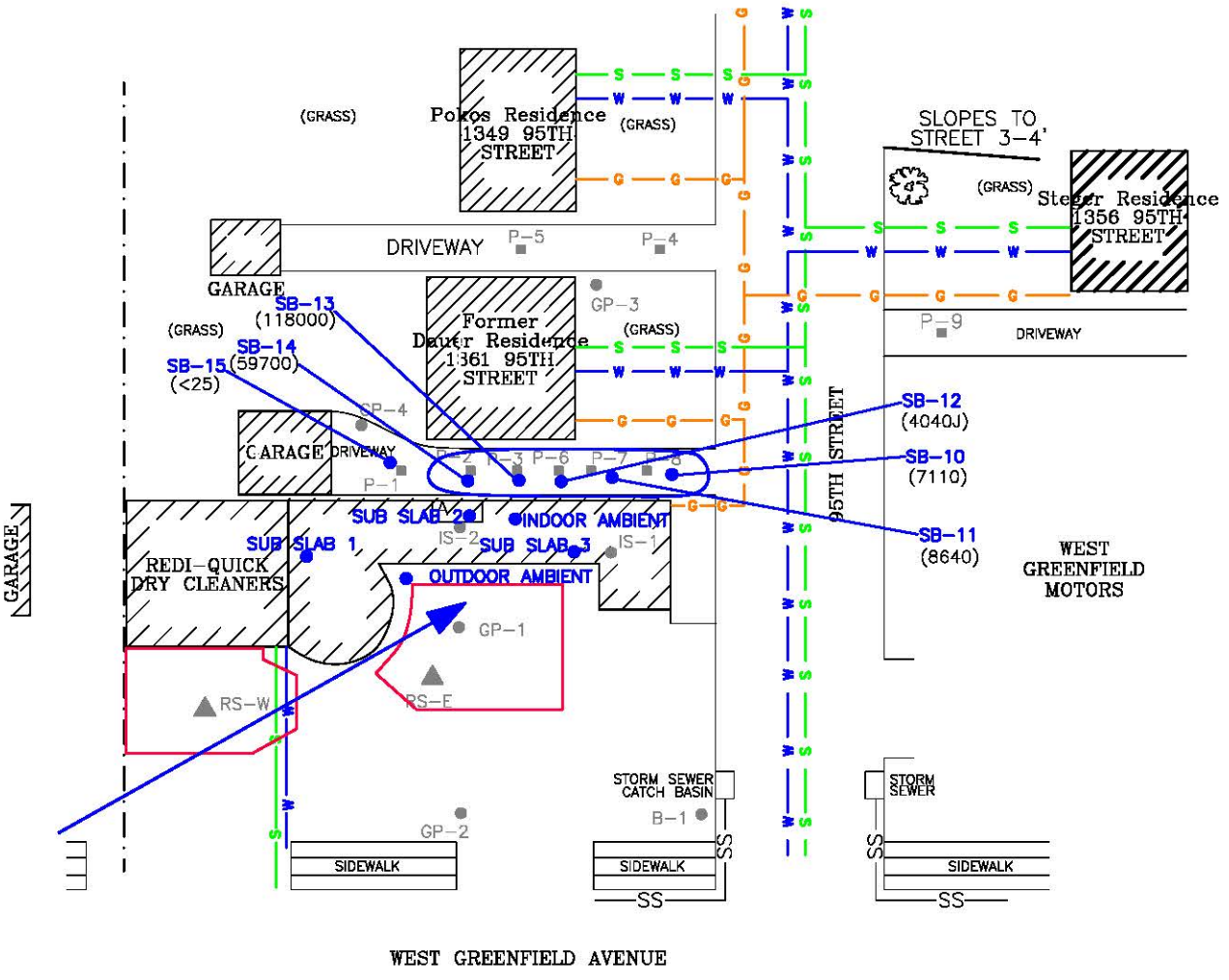
TITLE

SOIL TCE CONCENTRATIONS IN DIRECT CONTACT INTERVAL NOVEMBER 2018

CLIENT **Redi-Quick Dry Cleaners**

LOCATION **Redi-Quick Dry Cleaners Site
9508 West Greenfield Avenue
West Allis, Wisconsin**

DRWN JRD	CHKD MLF	REVD BY JRD	APPRVD BY	PROJECT NO. 631224187	FIGURE NO. B.2.b.2
		REVISION DATE		DATE 12/04/18	



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (1.3) CIS-1,2-DICHLOROTHENE (CIS-1,2-DCE) CONCENTRATION UG/KG
- (NS) NOT SAMPLED

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

— CIS-1,2-DCE GROUNDWATER RCL 41.2 UG/KG
 —→ DIRECTION OF GROUNDWATER FLOW

APPROXIMATE SCALE IN FEET

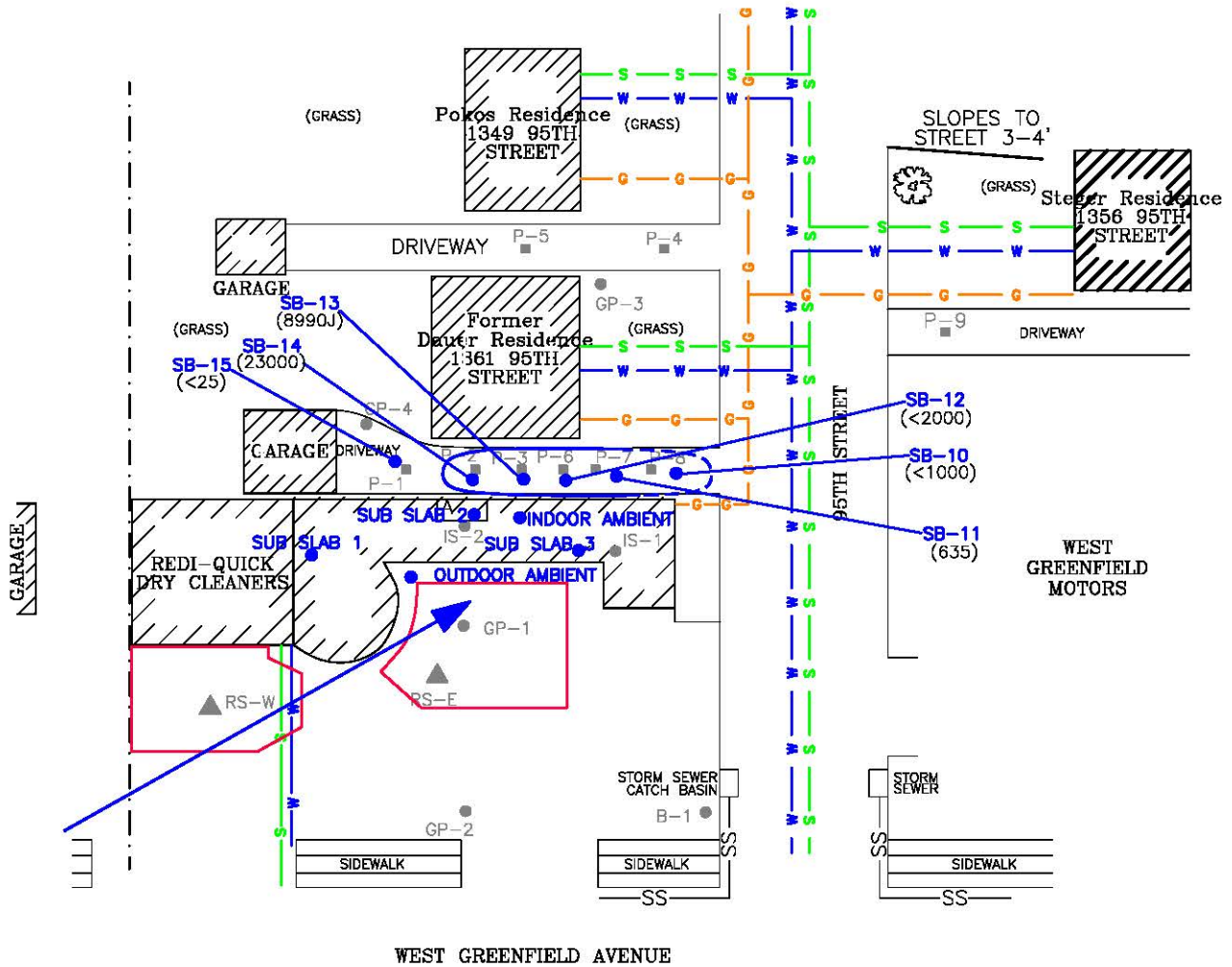


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 Wichita, Kansas 67205

TITLE
SOIL CIS-1,2-DCE CONCENTRATIONS IN DIRECT CONTACT INTERVAL
NOVEMBER 2018

CLIENT	Redi-Quick Dry Cleaners
LOCATION	Redi-Quick Dry Cleaners Site 9508 West Greenfield Avenue West Allis, Wisconsin

DRWN	CHKD	REVD BY	APPRVD BY	PROJECT NO.	FIGURE NO.
JRD	MLF	JRD		631224187	B.2.b.3
		REVISION DATE		DATE	
				12/04/18	



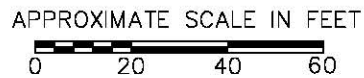
LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (1.3) VINYL CHLORIDE (VC) CONCENTRATION UG/KG
- (NS) NOT SAMPLED

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

- VC GROUNDWATER RCL 1.0 UG/KG
- DIRECTION OF GROUNDWATER FLOW



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Wichita, Kansas 67205

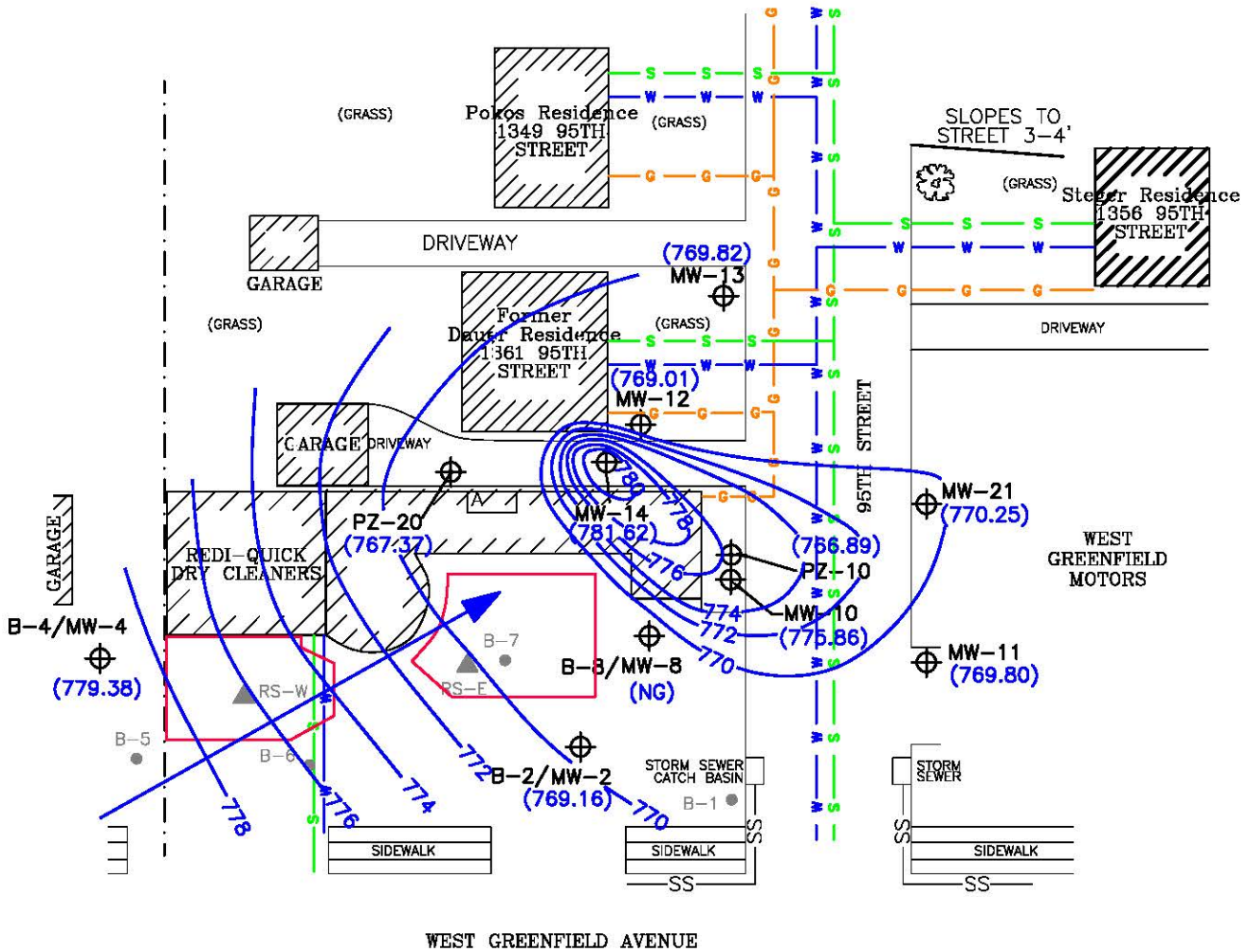
TITLE

SOIL VC CONCENTRATIONS IN DIRECT CONTACT INTERVAL NOVEMBER 2018

CLIENT **Redi-Quick Dry Cleaners**

LOCATION **Redi-Quick Dry Cleaners Site
9508 West Greenfield Avenue
West Allis, Wisconsin**

DRWN JRD	CHKD MLF	REVD BY JRD	APPRVD BY	PROJECT NO. 631224187	FIGURE NO. B.2.b.4
		REVISION DATE		DATE 12/04/18	



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ▲ RECOVERY SUMP
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (779.67) GROUNDWATER ELEVATION (FT)
- DIRECTION OF GROUNDWATER FLOW
- CONTOUR INTERVAL = 2'

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

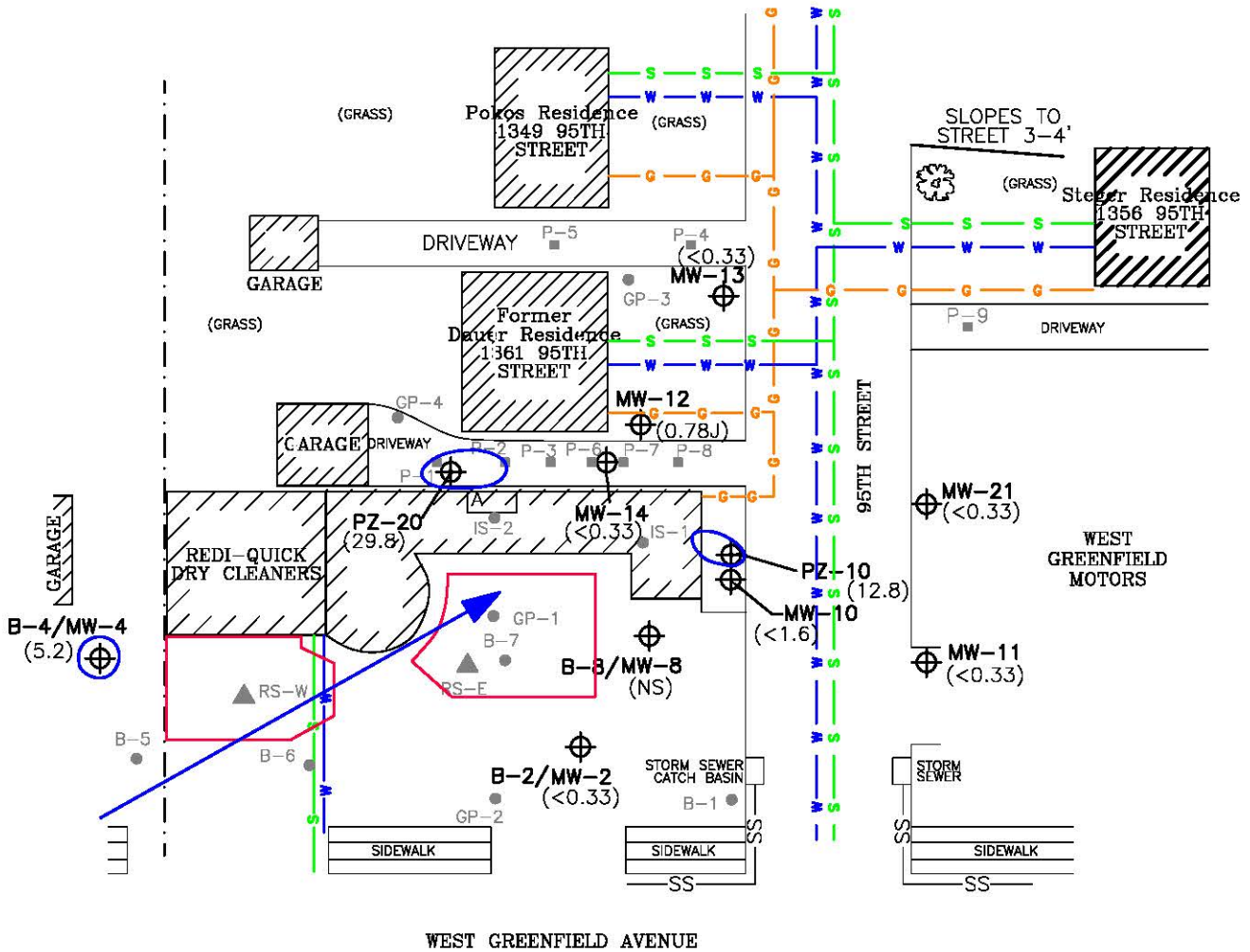


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Wichita, Kansas 67205

**GROUNDWATER FLOW MAP
NOVEMBER 2018**

CLIENT	Redi-Quick Dry Cleaners
LOCATION	Redi-Quick Dry Cleaners Site 9508 West Greenfield Avenue West Allis, Wisconsin

DRWN	CHKD	REVD BY	APPRVD BY	PROJECT NO.	FIGURE NO.
JRD	MLF	JRD		631224187	B.3.c
		REVISION DATE		DATE	
				12/04/18	



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (5.2) TETRACHLOROETHENE (PCE) CONCENTRATION UG/L
- (NS) NOT SAMPLED

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

- PCE ES CONTOUR 5.0 UG/L
- DIRECTION OF GROUNDWATER FLOW



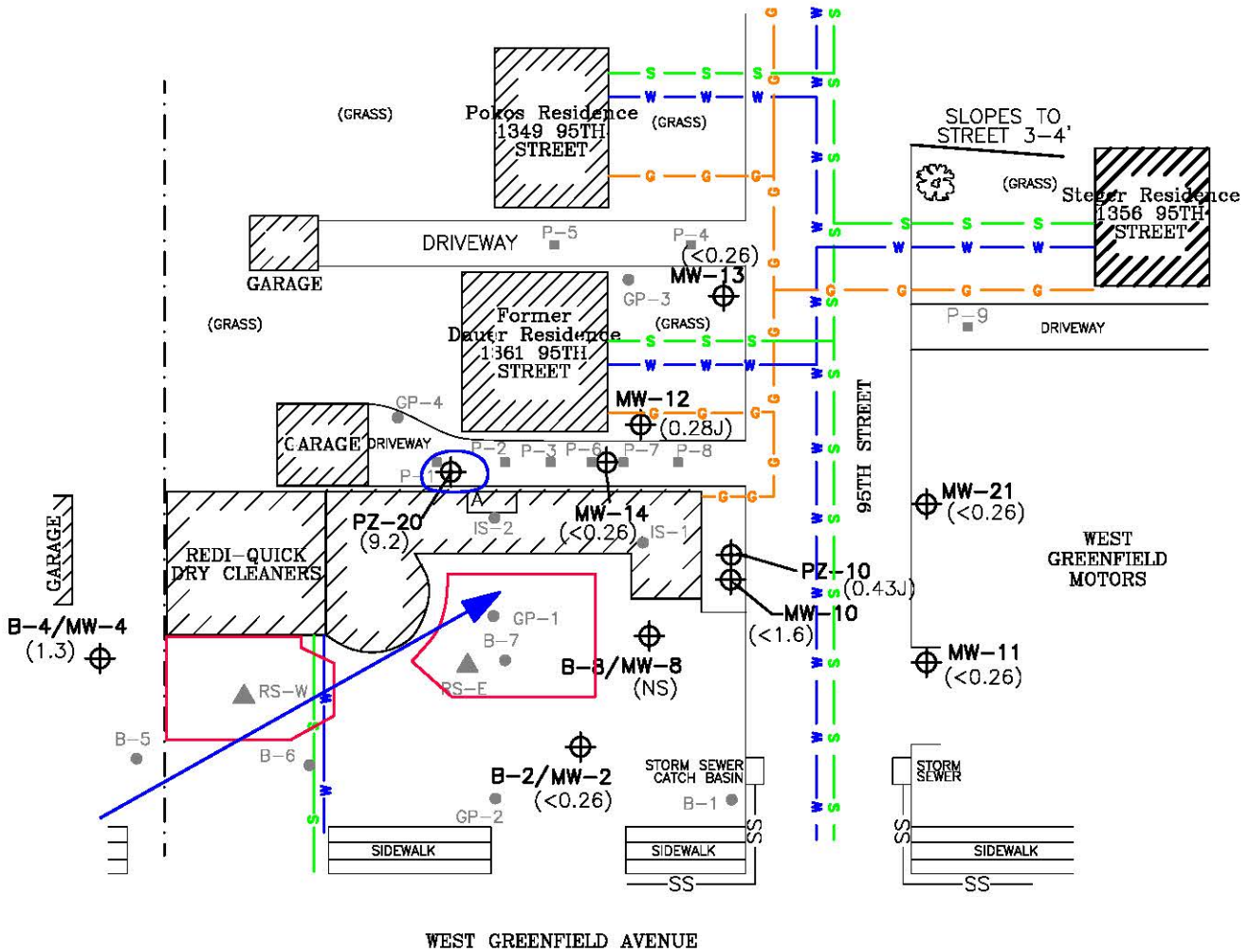
APTIM
2872 N. Ridge Road, Suite 102B
Wichita, Kansas 67205

TITLE
**GROUNDWATER ISOCONCENTRATION
MAP - PCE
NOVEMBER 2018**

CLIENT **Redi-Quick Dry Cleaners**

LOCATION **Redi-Quick Dry Cleaners Site
9508 West Greenfield Avenue
West Allis, Wisconsin**

DRWN JRD	CHKD MLF	REVD BY JRD	APPRVD BY	PROJECT NO. 631224187	FIGURE NO. B.3.b.1
		REVISION DATE		DATE 12/04/18	



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (1.3) TRICHLOROETHENE (TCE) CONCENTRATION UG/L
- (NS) NOT SAMPLED

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

- TCE ES CONTOUR 5.0 UG/L
- DIRECTION OF GROUNDWATER FLOW

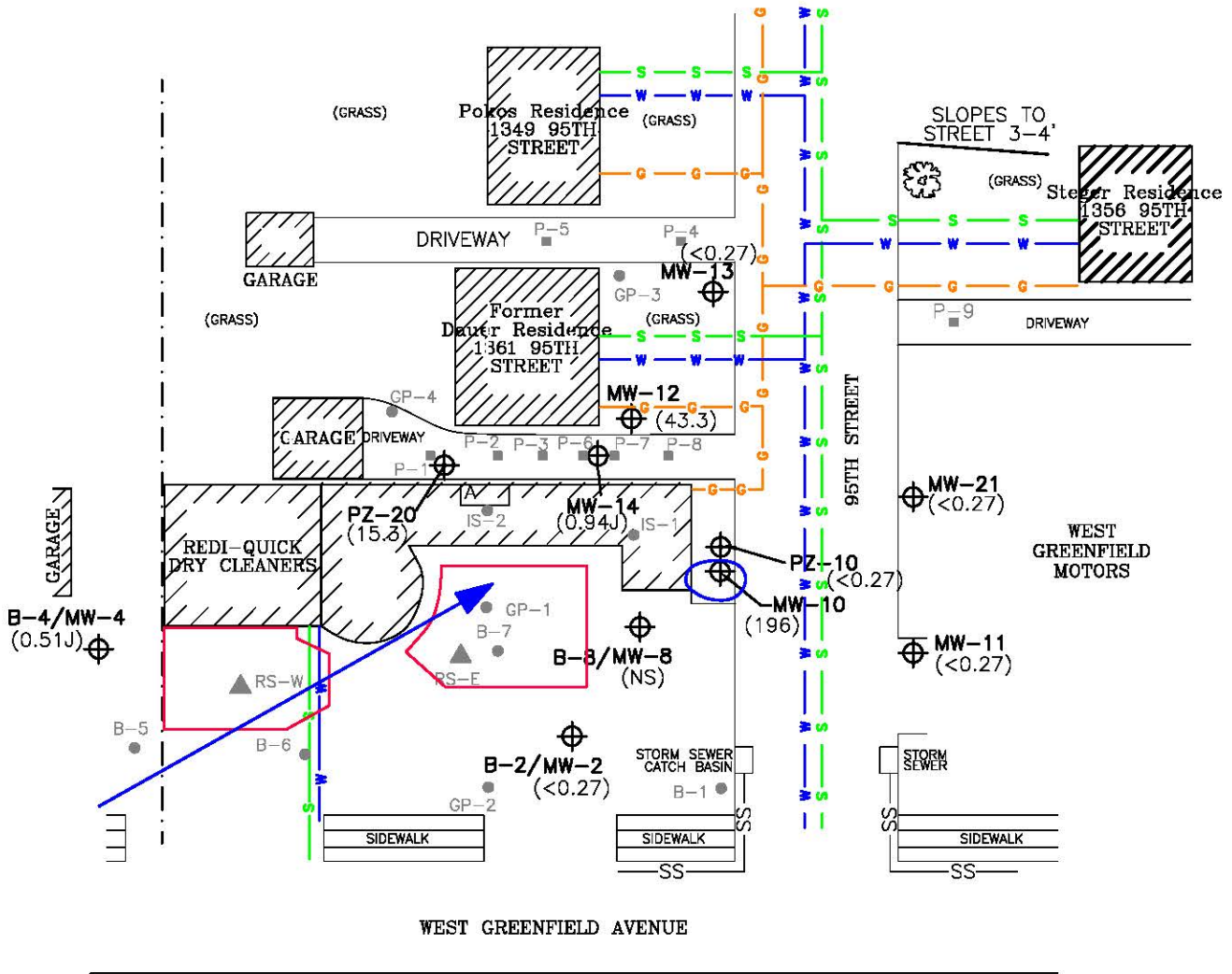


APTIM
2872 N. Ridge Road, Suite 102B
Wichita, Kansas 67205

**GROUNDWATER ISOCONCENTRATION
MAP - TCE
NOVEMBER 2018**

CLIENT	Redi-Quick Dry Cleaners
LOCATION	Redi-Quick Dry Cleaners Site 9508 West Greenfield Avenue West Allis, Wisconsin

DRWN	CHKD	REVD BY	APPRVD BY	PROJECT NO.	FIGURE NO.
JRD	MLF	JRD		631224187	B.3.b.2
		REVISION DATE		DATE	
				12/04/18	



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W— WATER LINE
- S— SEWER LINE
- G— GAS LINE
- UST EXCAVATION LIMITS (1989)
- (15.3) CIS-1,2-DICHLOROETHENE (CIS-1,2-DCE) CONCENTRATION UG/L
- (NS) NOT SAMPLED

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

- CIS-1,2-DCE ES CONTOUR 70 UG/L
- DIRECTION OF GROUNDWATER FLOW



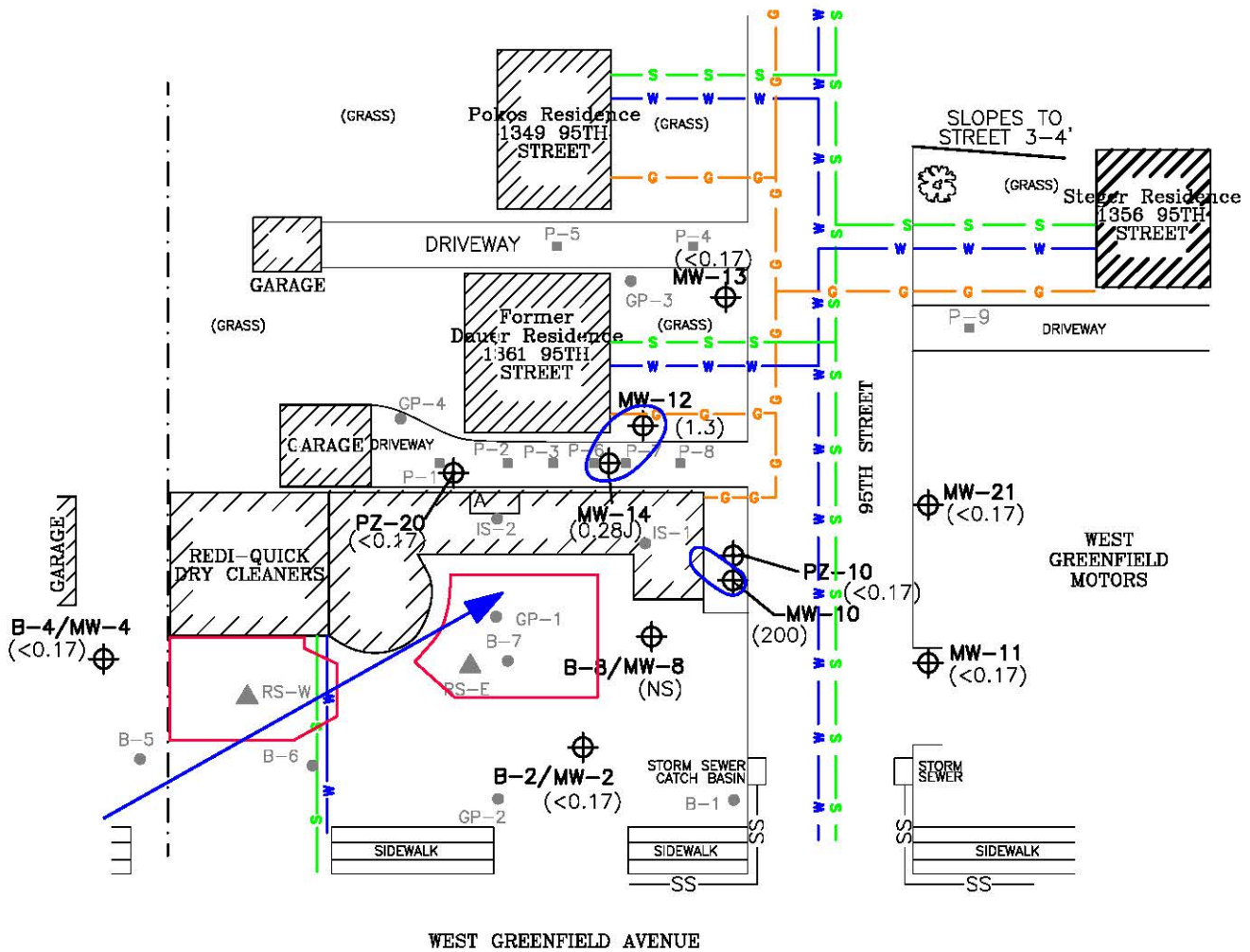
APTIM
2872 N. Ridge Road, Suite 102B
Wichita, Kansas 67205

TITLE
**GROUNDWATER ISOCONCENTRATION
MAP - CIS-1,2-DCE
NOVEMBER 2018**

CLIENT **Redi-Quick Dry Cleaners**

LOCATION **Redi-Quick Dry Cleaners Site
9508 West Greenfield Avenue
West Allis, Wisconsin**

DRWN JRD	CHKD MLF	REVD BY JRD	APPRVD BY	PROJECT NO. 631224187	FIGURE NO. B.3.b.3
		REVISION DATE		DATE 12/04/18	



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANK (UST)
- ⊕ MONITORING WELL
- ⊕ PIEZOMETER
- ⊕ TEST BORING, DRILLED 5/19/99 BY JJS & ASSOCIATES
- ▲ RECOVERY SUMP
- GEOPROBE BORING
- PROBE
- W — WATER LINE
- S — SEWER LINE
- G — GAS LINE
- UST EXCAVATION LIMITS (1989)
- (1.3) VINYL CHLORIDE (VC) CONCENTRATION UG/L
- (NS) NOT SAMPLED

TANK KEY

- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)

- VC ES CONTOUR 0.2 UG/L
- DIRECTION OF GROUNDWATER FLOW



APTIM
2872 N. Ridge Road, Suite 102B
Wichita, Kansas 67205

TITLE
**GROUNDWATER ISOCONCENTRATION
MAP - VC
NOVEMBER 2018**

CLIENT	Redi-Quick Dry Cleaners
LOCATION	Redi-Quick Dry Cleaners Site 9508 West Greenfield Avenue West Allis, Wisconsin

DRWN	CHKD	REVD BY	APPRVD BY	PROJECT NO.	FIGURE NO.
JRD	MLF	JRD		631224187	B.3.b.4
		REVISION DATE		DATE	
				12/04/18	

Appendix A
Field Notes

Location Amery, WIDate 10/10/18Project / Client CNme 10/11/18149409

Well	Temp °C	DO $\frac{mg}{L}$	Spec $\frac{ms}{cm}$	pH	ORP
MW-2					
MW-3					
MW-4	11.9	3.30	1.02	5.72	143.1
MW-6	12.4	4.31	2.42	6.20	117.4
MW-8	12.9	1.61	0.75	6.10	162.9
MW-11		FP			
MW-12		FP			
MW-14	14.8	1.10	1.94	6.43	99.5
MW-15	14.6	0.35	1.17	5.68	159.3
MW-16	13.7	1.34	0.587	6.39	124.2
MW-17	12.0	1.80	0.97	6.28	166.4
MW-18	13.4	0.16	1.21	6.49	-103.2
MW-19	13.5	1.17	0.594	6.10	175.7
MW-20	14.9	1.56	1.53	6.21	138.7

Location West Allis, WIDate 11/8/18Project / Client Redi-Quick631224187

Personnel: JMS

Weather: 30° cloudy

Objective: Sample groundwater monitoring well network for CVOC. Install 3 Cox Column vapor pins inside building for sub-slab vapor.

COOS: Arrived on site. Installed vapor pins inside dry cleaner building in areas specified in Work Plan.

Well	DTP	DTW	Sample Time	
MW-2	-	12.42	1205	* pipe frost heaved and damaged, cut down and replaced cap
MW-4	-	3.92	1110	
MW-8	-	Paved over	-	
MW-10	-	3.40	1510	
MW-11	-	8.09	1310	
MW-12	-	13.60	1710	
MW-13	-	10.26	1410	
MW-14	-	1.45*	1630	← DUP: MW-140 @ 1650
MW-21	-	8.40	1340	
P8-10	-	12.55	1445	
P8-20	-	15.96	1550	

* cap was not attached to MW-14 when well box was opened likely surface water infiltration.

Location West Allis, WI Date 11/8/18Project / Client Redi-Quick

Well	Temp °C	DO mg/L	Spec Cond. $\frac{ms}{cm}$	pH	ORP
MW-2	13.8	3.84	0.102	7.39	37.0
MU-4	13.6	1.42	0.81	7.16	43.9
MW-8	—	Paved over			
MW-10	14.8	0.50	3.45	6.99	-64.0
MW-11	14.3	0.68	3.28	7.03	56.3
MW-12	14.4	0.54	1.32	7.05	-23.1
MW-13	13.9	0.88	3.22	7.10	42.6
MW-14	13.7	0.39	0.541	7.01	-20.3
MW-21	15.1	0.49	5.06	6.96	40.8
PZ-10	14.4	4.81	0.79	7.69	-21.5
PZ-20	14.0	2.88	0.89	7.62	-57.2

1730: Setting up sunna canisters for sampling tomorrow. Water dam leak testing.
1750: Leaving site.

Location West Allis, WI Date 11/8/18Project / Client Redi-Quick631224187

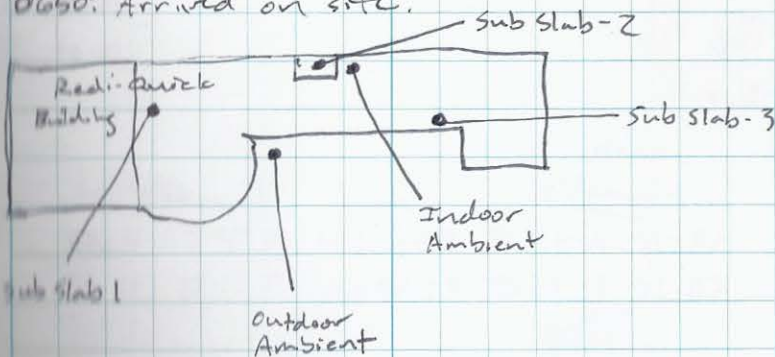
Personnel: JMS (APTM), Sam & Matt (GeoScience)

Weather: 30°, cloudy

Objective: 3 sub slab + 1 ambient indoor air, 1 outdoor ambient air. Advance 6 soil borings to 20 ft bgs.

Sample	Canister #	Flow Control	Initial Vacuum	Final Vacuum	O ₂ /CO	Sample Time
Sub Slab-1	1465	1233	29	1.5	NA	0730
Sub Slab-2	1530	1684	29	1.5	NA	0735
Sub Slab-3	0316	0642	29	1.5	NA	0740
Indoor Ambient	3591	1083	30	11	NA	1500
Outdoor Ambient	2326	1104	28	9	NA	1500

0650: Arrived on site.



Location West Allis, WI Date 11/9/18Project / Client Red: Quick631224187

OB10: Geosure on site to advance soil borings.

Will start borings with SB-10, previous soil sample ths dont appear to exceed 10.

SB-10

<u>Recovery</u>	<u>Depth</u>	<u>Description</u>	<u>PID</u>
20/48	0-20'	light brown CLAY stiff	0-4: 0 4-6: 0 6-8: 0 8-10: 1 10-12: 2 12-14: 16 14-16: 1 16-18: 0 18-20: 0
48/48		wet @ ~15'	
48/48			
48/48			
48/48			

Swam
Samples:

SB-10 2-4' @ 855

SB-10 12-14 @ 0900

Location West Allis WI Date 11/9/18Project / Client Red: QuickSB-11

<u>Rec</u>	<u>Depth</u>	<u>Description</u>	<u>PID</u>
30/48	0-20'	light brown stiff CLAY, some gravel	0-4 0 4-6 1 6-8 5 8-10 8 10-12 12
48/48		wet @ ~14'	12-14 8 14-16 8 16-18 18-20
48/48			
48/48			

Samples

SB-11 2-4' @ 0920

SB-11 10-12' @ 0925

Location West Allis WI Date 11/9/18Project / Client Redi QuickSB-12

<u>Recovery</u>	<u>Depth</u>	<u>Description</u>	<u>PID</u>
15/48	0-12'	light brown silty CLAY	0-4 0 4-6 0 6-8 1 8-10 6
48/48	12-19.5	light brown stiff CLAY	10-12 15 12-14 1
48/48		wet @ 13'	14-16 2
48/48	19.5-20:	very coarse SAND	16-18 0 18-20 0
48/48			

Samples:

SB-12 2-4' @ 942

SB-12 10-12' @ 945

Location West Allis WI Date 11/9/18Project / Client Redi QuickSB-13

<u>Rec.</u>	<u>Depth</u>	<u>Desc.</u>	<u>PID</u>
	0-4		0
35/48	0-8.5	light brown silty CLAY	4-6 1 6-8 1
48/48	8.5-20'	light brown stiff CLAY	8-10 62 10-12 82
30/48			12-14 128
48/48		wet @ 14'	14-16 18
48/48		very strong volatile odor in the 16-20'	16-18 850 18-20: 750

Samples:

SB-13 2-4' e 1000

SB-13 12-14 e 1009

Location West Allis WI Date 11/9/18Project / Client Redi QuickSB-14

<u>Recovery</u>	<u>Depth</u>	<u>Description</u>	<u>PIV</u>
	0-7'	light brown silty CLAY w/ gravel	0-4 0 4-6 0 6-8 0
	7-20	light brown stiff CLAY	8-10 1 10-12 23 12-14 27
	wet @ 14'		14-16 91 16-18 4 18-20 0

Samples

SB-14 2-4 @ 1015
SB-14 12-14 1020

Location West Allis WI Date 11/9/18Project / Client Redi QuickSB-15

<u>Recovery</u>	<u>Depth</u>	<u>Description</u>	<u>PIV</u>
15/48	0-7'	light brown silty CLAY	0-4 4 4-6 0 6-8 0
45/48	7-20'	light brown stiff CLAY	8-10 0 10-12 0 12-14 1 14-16 0 16-18 7 18-20 2

Samples

SB-15 2-4' @ 1030
SB-15 12-14 @ 1035

(Please Print Clearly)

MN: 612-607-1700 WI: 920-469-2436



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

Company Name: APTIM
Branch/Location: WI
Project Contact: Mark Finney
Phone: 913-317-3591
Project Number: 631224187
Project Name: Redi Quick
Project State: WI
Sampled By (Print): Jared Schmidt
Sampled By (Sign): [Signature]

Quote #:
Mail To Contact:
Mail To Company:
Mail To Address:
Invoice To Contact:
Invoice To Company:
Invoice To Address:
Invoice To Phone:

Data Package Options (billable)
MS/MSD
Matrix Codes
On your sample (billable)
NOT needed on your sample
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

Table with columns: FILTERED?, PRESERVATION CODE, Y/N, Pick Letter, Analyses Requested, and multiple empty columns for tracking.

Table with columns: PACE LAB #, CLIENT FIELD ID, COLLECTION DATE, TIME, MATRIX, and X marks in the tracking columns.

CLIENT COMMENTS, LAB COMMENTS (Lab Use Only), Profile #

Rush Turnaround Time Requested - Prelims
Relinquished By: [Signature] Date/Time: 11/10/18 0905
Received By: [Signature] Date/Time: 11/10/18 0905
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

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of

Company Name: **APTIM**
 Branch/Location: **WI**
 Project Contact: **Mark Finney**
 Phone: **913-317-3591**
 Project Number: **631224187**
 Project Name: **Redi-Quick**
 Project State: **WI**
 Sampled By (Print): **Jared Schmidt**
 Sampled By (Sign): *[Signature]*
 PO #: _____ Regulatory Program: _____



MN: 612-607-1700 WI: 920-469-2436

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

FILTERED?
(YES/NO)

 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	Collection																		
			DATE	TIME	MATRIX																
	F	CVOC																			

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

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		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
	SB-10 2-4'	11/9/18	855	S		X	
	SB-10 12-14'	11/9/18	900	S		X	
	SB-11 2-4'	11/9/18	920	S		X	
	SB-11 10-12'	11/9/18	925	S		X	
	SB-12 2-4'	11/9/18	940	S		X	
	SB-12 10-12'	11/9/18	945	S		X	
	SB-13 2-4'	11/9/18	1000	S		X	
	SB-13 12-14'	11/9/18	1005	S		X	
	SB-14 2-4'	11/9/18	1015	S		X	
	SB-14 12-14'	11/9/18	1020	S		X	
	SB-15 2-4'	11/9/18	1030	S		X	
	SB-15 12-14'	11/9/18	1035	S		X	

*Please analyze for CVOC only regardless of what is written on vial.

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: <i>[Signature]</i> Date/Time: 11/10/18 0905 Relinquished By: _____ Date/Time: _____ Relinquished By: _____ Date/Time: _____ Relinquished By: _____ Date/Time: _____ Relinquished By: _____ Date/Time: _____	Received By: <i>[Signature]</i> Date/Time: 11/10/18 0905 Received By: _____ Date/Time: _____ Received By: _____ Date/Time: _____ Received By: _____ Date/Time: _____ Received By: _____ Date/Time: _____	PACE Project No. _____ Receipt Temp = RU °C Sample Receipt pH _____ OK / Adjusted _____ Cooler Custody Seal Present / Not Present Intact / Not Intact _____
---	--	--	---



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

34651

Page: of

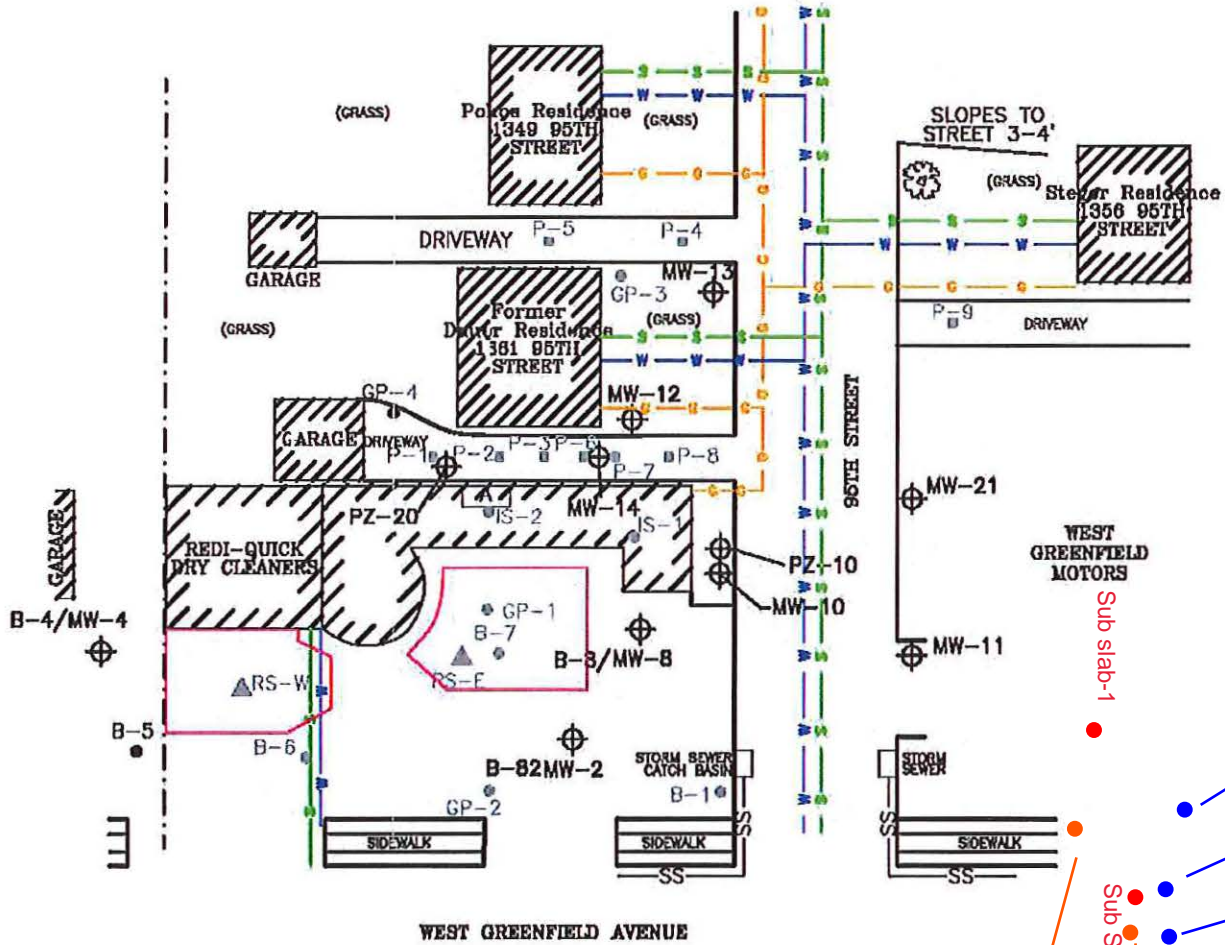
Section A Required Client Information: Company: <u>APTIM</u> Address: <u>8725 Rock Hill Rd, Suite 450</u> <u>Leawards, KS 66215</u> Email To: <u>mark.finnerty@aptim.com</u> Phone: <u>913-317-3591</u> Fax: Requested Due Date/TAT:	Section B Required Project Information: Report To: <u>Mark Finnerty</u> Copy To: Purchase Order No.: Project Name: <u>Red Quik</u> Project Number: <u>631224187</u>	Section C Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager/Sales Rep.: Pace Profile #: <u>34447</u>	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State _____ Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____ Report Level II. ___ III. ___ IV. ___ Other ___
--	--	--	---

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes		COLLECTED	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:	Pace Lab ID	
		MEDIA	CODE								
		MEDIA CODE	PID Reading (Client only)								
		Tedlar Bag	TB								
		1 Liter Summa Can	1LC								
		6 Liter Summa Can	6LC								
		Low Volume Puff	LVP								
		High Volume Puff	HVP								
		Other	PM10								
				COMPOSITE START	COMPOSITE - END/GRAB						
				DATE	TIME	DATE	TIME				
1	Sub Slab-1	6LC	0	11/9/10	7:00	11/9/10	7:30	29	1.5	1 4 6 5 1 2 3 3	X
2	Sub Slab-2	6LC	3	11/9/10	7:05	11/9/10	7:25	29	1.5	1 5 3 0 1 6 8 4	X
3	Sub Slab-3	6LC	0	11/9/10	7:10	11/9/10	7:40	29	1.5	0 3 1 6 0 6 4 2	X
4	Indoor Ambient	6LC	-	11/9/10	7:00	11/9/10	15:00	30	11	3 5 9 1 1 0 0 3	X
5	Outdoor Ambient	6LC	-	11/9/10	7:00	11/9/10	15:05	28	9	2 3 2 6 1 1 0 4	X
6											
7											
8											
9											
10											
11											
12											

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<u>214 LH + APTIM</u>	<u>11/9/10</u>	<u>17:00</u>				Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:										
SIGNATURE of SAMPLER:					DATE Signed (MM / DD / YY)					

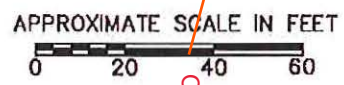
4

File: W:\SEMILFPS00\Draws\Projects\100000\133480 (Redi-Quick)\CAD\133480-02.dwg Layout: 050217 User: jll.deitchler May 02, 2017 - 3:59pm



- LEGEND**
- - - - - APPROXIMATE PROPERTY BOUNDARY
 - FORMER UNDERGROUND STORAGE TANK (UST)
 - ⊕ MONITORING WELL
 - ⊕ PIEZOMETER
 - ▲ RECOVERY SUMP
 - GEOPROBE BORING
 - PROBE
 - W — WATER LINE
 - S — SEWER LINE
 - G — GAS LINE
 - UST EXCAVATION LIMITS (1989)

- TANK KEY**
- A 1,000-GALLON DRY CLEANER SOLVENT UST (NO LONGER IN USE)



Sub slab-1
Sub Slab -2
Sub slab -3

Outdoor ambient

Indoor ambient

	Redi-Quick Dry Cleaners 200 South Executive Drive, Suite 101 Brookfield, Wisconsin	CB&I TITLE	
	CLIENT Redi-Quick Dry Cleaners LOCATION Redi-Quick Dry Cleaners Site 9508 West Greenfield Avenue West Allis, Wisconsin	DRWN JRD	CHKD HAW
		FIGURE NO. B.1.b	

Appendix B
Laboratory Reports

November 19, 2018

Jared Schmidt
APTIM Environmental Services
8725 Rosehill Road
Suite 450
Lenexa, KS 66215

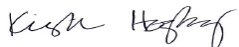
RE: Project: 631224187 Redi Quick
Pace Project No.: 10455247

Dear Jared Schmidt:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2018. 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,



Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10455247001	Sub Slab-1	Air	11/09/18 07:30	11/12/18 13:45
10455247002	Sub Slab-2	Air	11/09/18 07:35	11/12/18 13:45
10455247003	Sub Slab-3	Air	11/09/18 07:40	11/12/18 13:45
10455247004	Indoor Ambient	Air	11/09/18 15:00	11/12/18 13:45
10455247005	Outdoor Ambient	Air	11/09/18 15:05	11/12/18 13:45

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SAMPLE ANALYTE COUNT

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10455247001	Sub Slab-1	TO-15	AFV	61
10455247002	Sub Slab-2	TO-15	AFV, MJL	61
10455247003	Sub Slab-3	TO-15	AFV	61
10455247004	Indoor Ambient	TO-15	AFV	61
10455247005	Outdoor Ambient	TO-15	AFV	61

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PROJECT NARRATIVE

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Method: TO-15

Description: TO15 MSV AIR

Client: APTIM Enviromental Services

Date: November 19, 2018

General Information:

5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Sub Slab-1 **Lab ID: 10455247001** Collected: 11/09/18 07:30 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	29.9	ug/m3	3.5	1.7	1.44		11/14/18 18:50	67-64-1	
Benzene	ND	ug/m3	0.47	0.22	1.44		11/14/18 18:50	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	1.7	1.44		11/14/18 18:50	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.53	1.44		11/14/18 18:50	75-27-4	
Bromoform	ND	ug/m3	7.6	2.0	1.44		11/14/18 18:50	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.33	1.44		11/14/18 18:50	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.18	1.44		11/14/18 18:50	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	0.53	1.44		11/14/18 18:50	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.32	1.44		11/14/18 18:50	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.62	1.44		11/14/18 18:50	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.40	1.44		11/14/18 18:50	108-90-7	
Chloroethane	ND	ug/m3	0.77	0.37	1.44		11/14/18 18:50	75-00-3	
Chloroform	1.2	ug/m3	0.71	0.28	1.44		11/14/18 18:50	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.22	1.44		11/14/18 18:50	74-87-3	
Cyclohexane	ND	ug/m3	2.5	0.51	1.44		11/14/18 18:50	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.0	1.44		11/14/18 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.1	0.53	1.44		11/14/18 18:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		11/14/18 18:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.84	1.44		11/14/18 18:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.4	1.4	1.44		11/14/18 18:50	106-46-7	
Dichlorodifluoromethane	2.4	ug/m3	1.5	0.42	1.44		11/14/18 18:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.32	1.44		11/14/18 18:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.22	1.44		11/14/18 18:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.39	1.44		11/14/18 18:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.32	1.44		11/14/18 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.41	1.44		11/14/18 18:50	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.33	1.44		11/14/18 18:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.44	1.44		11/14/18 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.63	1.44		11/14/18 18:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.63	1.44		11/14/18 18:50	76-14-2	
Ethanol	11.4	ug/m3	2.8	1.2	1.44		11/14/18 18:50	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.27	1.44		11/14/18 18:50	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.44	1.44		11/14/18 18:50	100-41-4	
4-Ethyltoluene	14.6	ug/m3	3.6	0.82	1.44		11/14/18 18:50	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.55	1.44		11/14/18 18:50	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.8	2.8	1.44		11/14/18 18:50	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.45	1.44		11/14/18 18:50	110-54-3	
2-Hexanone	ND	ug/m3	6.0	1.1	1.44		11/14/18 18:50	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	1.4	1.44		11/14/18 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.75	1.44		11/14/18 18:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.95	1.44		11/14/18 18:50	1634-04-4	
Naphthalene	ND	ug/m3	3.8	1.9	1.44		11/14/18 18:50	91-20-3	
2-Propanol	42.7	ug/m3	3.6	1.0	1.44		11/14/18 18:50	67-63-0	
Propylene	ND	ug/m3	0.50	0.21	1.44		11/14/18 18:50	115-07-1	
Styrene	ND	ug/m3	1.2	0.50	1.44		11/14/18 18:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.42	1.44		11/14/18 18:50	79-34-5	

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Sub Slab-1 **Lab ID: 10455247001** Collected: 11/09/18 07:30 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	1920	ug/m3	29.8	13.6	43.2		11/15/18 17:48	127-18-4	
Tetrahydrofuran	2.4	ug/m3	0.86	0.38	1.44		11/14/18 18:50	109-99-9	
Toluene	1.4	ug/m3	1.1	0.51	1.44		11/14/18 18:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	5.4	1.44		11/14/18 18:50	120-82-1	
1,1,1-Trichloroethane	53.6	ug/m3	1.6	0.44	1.44		11/14/18 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.80	0.36	1.44		11/14/18 18:50	79-00-5	
Trichloroethene	195	ug/m3	0.79	0.37	1.44		11/14/18 18:50	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.53	1.44		11/14/18 18:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.81	1.44		11/14/18 18:50	76-13-1	
1,2,4-Trimethylbenzene	30.6	ug/m3	1.4	0.65	1.44		11/14/18 18:50	95-63-6	
1,3,5-Trimethylbenzene	16.4	ug/m3	1.4	0.57	1.44		11/14/18 18:50	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.39	1.44		11/14/18 18:50	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.18	1.44		11/14/18 18:50	75-01-4	
m&p-Xylene	2.6	ug/m3	2.5	1.0	1.44		11/14/18 18:50	179601-23-1	
o-Xylene	1.5	ug/m3	1.3	0.50	1.44		11/14/18 18:50	95-47-6	

Sample: Sub Slab-2 **Lab ID: 10455247002** Collected: 11/09/18 07:35 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	45.7	ug/m3	3.5	1.7	1.44		11/14/18 18:23	67-64-1	
Benzene	1.3	ug/m3	0.47	0.22	1.44		11/14/18 18:23	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	1.7	1.44		11/14/18 18:23	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.53	1.44		11/14/18 18:23	75-27-4	
Bromoform	ND	ug/m3	7.6	2.0	1.44		11/14/18 18:23	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.33	1.44		11/14/18 18:23	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.18	1.44		11/14/18 18:23	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	0.53	1.44		11/14/18 18:23	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.32	1.44		11/14/18 18:23	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.62	1.44		11/14/18 18:23	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.40	1.44		11/14/18 18:23	108-90-7	
Chloroethane	5.3	ug/m3	0.77	0.37	1.44		11/14/18 18:23	75-00-3	
Chloroform	12.0	ug/m3	0.71	0.28	1.44		11/14/18 18:23	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.22	1.44		11/14/18 18:23	74-87-3	
Cyclohexane	ND	ug/m3	2.5	0.51	1.44		11/14/18 18:23	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.0	1.44		11/14/18 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.1	0.53	1.44		11/14/18 18:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		11/14/18 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.84	1.44		11/14/18 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.4	1.4	1.44		11/14/18 18:23	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.5	0.42	1.44		11/14/18 18:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.32	1.44		11/14/18 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.22	1.44		11/14/18 18:23	107-06-2	

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Sub Slab-2 **Lab ID: 10455247002** Collected: 11/09/18 07:35 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,1-Dichloroethene	ND	ug/m3	1.2	0.39	1.44		11/14/18 18:23	75-35-4	
cis-1,2-Dichloroethene	146	ug/m3	1.2	0.32	1.44		11/14/18 18:23	156-59-2	
trans-1,2-Dichloroethene	9.6	ug/m3	1.2	0.41	1.44		11/14/18 18:23	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.33	1.44		11/14/18 18:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.44	1.44		11/14/18 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.63	1.44		11/14/18 18:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.63	1.44		11/14/18 18:23	76-14-2	
Ethanol	24.0	ug/m3	2.8	1.2	1.44		11/14/18 18:23	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.27	1.44		11/14/18 18:23	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.44	1.44		11/14/18 18:23	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	0.82	1.44		11/14/18 18:23	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.55	1.44		11/14/18 18:23	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.8	2.8	1.44		11/14/18 18:23	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.45	1.44		11/14/18 18:23	110-54-3	
2-Hexanone	ND	ug/m3	6.0	1.1	1.44		11/14/18 18:23	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	1.4	1.44		11/14/18 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.75	1.44		11/14/18 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.95	1.44		11/14/18 18:23	1634-04-4	
Naphthalene	ND	ug/m3	3.8	1.9	1.44		11/14/18 18:23	91-20-3	
2-Propanol	7.4	ug/m3	3.6	1.0	1.44		11/14/18 18:23	67-63-0	
Propylene	ND	ug/m3	0.50	0.21	1.44		11/14/18 18:23	115-07-1	
Styrene	ND	ug/m3	1.2	0.50	1.44		11/14/18 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.42	1.44		11/14/18 18:23	79-34-5	
Tetrachloroethene	48500	ug/m3	317	145	460.8		11/16/18 15:56	127-18-4	
Tetrahydrofuran	1.4	ug/m3	0.86	0.38	1.44		11/14/18 18:23	109-99-9	
Toluene	ND	ug/m3	1.1	0.51	1.44		11/14/18 18:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	5.4	1.44		11/14/18 18:23	120-82-1	
1,1,1-Trichloroethane	27.6	ug/m3	1.6	0.44	1.44		11/14/18 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.80	0.36	1.44		11/14/18 18:23	79-00-5	
Trichloroethene	4240	ug/m3	252	118	460.8		11/16/18 15:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.53	1.44		11/14/18 18:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.81	1.44		11/14/18 18:23	76-13-1	
1,2,4-Trimethylbenzene	6.0	ug/m3	1.4	0.65	1.44		11/14/18 18:23	95-63-6	
1,3,5-Trimethylbenzene	3.2	ug/m3	1.4	0.57	1.44		11/14/18 18:23	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.39	1.44		11/14/18 18:23	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.18	1.44		11/14/18 18:23	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.0	1.44		11/14/18 18:23	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.50	1.44		11/14/18 18:23	95-47-6	

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Sub Slab-3 **Lab ID: 10455247003** Collected: 11/09/18 07:40 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	44.2	ug/m3	3.5	1.7	1.44		11/14/18 17:55	67-64-1	
Benzene	ND	ug/m3	0.47	0.22	1.44		11/14/18 17:55	71-43-2	
Benzyl chloride	ND	ug/m3	3.8	1.7	1.44		11/14/18 17:55	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.53	1.44		11/14/18 17:55	75-27-4	
Bromoform	ND	ug/m3	7.6	2.0	1.44		11/14/18 17:55	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.33	1.44		11/14/18 17:55	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.18	1.44		11/14/18 17:55	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.3	0.53	1.44		11/14/18 17:55	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	0.32	1.44		11/14/18 17:55	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.62	1.44		11/14/18 17:55	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.40	1.44		11/14/18 17:55	108-90-7	
Chloroethane	ND	ug/m3	0.77	0.37	1.44		11/14/18 17:55	75-00-3	
Chloroform	ND	ug/m3	0.71	0.28	1.44		11/14/18 17:55	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.22	1.44		11/14/18 17:55	74-87-3	
Cyclohexane	ND	ug/m3	2.5	0.51	1.44		11/14/18 17:55	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.0	1.44		11/14/18 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.1	0.53	1.44		11/14/18 17:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.72	1.44		11/14/18 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.84	1.44		11/14/18 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.4	1.4	1.44		11/14/18 17:55	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.5	0.42	1.44		11/14/18 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.32	1.44		11/14/18 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.22	1.44		11/14/18 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.39	1.44		11/14/18 17:55	75-35-4	
cis-1,2-Dichloroethene	2.7	ug/m3	1.2	0.32	1.44		11/14/18 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.41	1.44		11/14/18 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.33	1.44		11/14/18 17:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.44	1.44		11/14/18 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.63	1.44		11/14/18 17:55	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.63	1.44		11/14/18 17:55	76-14-2	
Ethanol	21.2	ug/m3	2.8	1.2	1.44		11/14/18 17:55	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	0.27	1.44		11/14/18 17:55	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	0.44	1.44		11/14/18 17:55	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	0.82	1.44		11/14/18 17:55	622-96-8	
n-Heptane	ND	ug/m3	1.2	0.55	1.44		11/14/18 17:55	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.8	2.8	1.44		11/14/18 17:55	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.45	1.44		11/14/18 17:55	110-54-3	
2-Hexanone	ND	ug/m3	6.0	1.1	1.44		11/14/18 17:55	591-78-6	
Methylene Chloride	ND	ug/m3	5.1	1.4	1.44		11/14/18 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	0.75	1.44		11/14/18 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.95	1.44		11/14/18 17:55	1634-04-4	
Naphthalene	ND	ug/m3	3.8	1.9	1.44		11/14/18 17:55	91-20-3	
2-Propanol	20.8	ug/m3	3.6	1.0	1.44		11/14/18 17:55	67-63-0	
Propylene	ND	ug/m3	0.50	0.21	1.44		11/14/18 17:55	115-07-1	
Styrene	ND	ug/m3	1.2	0.50	1.44		11/14/18 17:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.42	1.44		11/14/18 17:55	79-34-5	

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Sub Slab-3 Lab ID: 10455247003 Collected: 11/09/18 07:40 Received: 11/12/18 13:45 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	242	ug/m3	0.99	0.45	1.44		11/14/18 17:55	127-18-4	
Tetrahydrofuran	1.7	ug/m3	0.86	0.38	1.44		11/14/18 17:55	109-99-9	
Toluene	ND	ug/m3	1.1	0.51	1.44		11/14/18 17:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.9	5.4	1.44		11/14/18 17:55	120-82-1	
1,1,1-Trichloroethane	3.8	ug/m3	1.6	0.44	1.44		11/14/18 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.80	0.36	1.44		11/14/18 17:55	79-00-5	
Trichloroethene	16.9	ug/m3	0.79	0.37	1.44		11/14/18 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.53	1.44		11/14/18 17:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	0.81	1.44		11/14/18 17:55	76-13-1	
1,2,4-Trimethylbenzene	5.1	ug/m3	1.4	0.65	1.44		11/14/18 17:55	95-63-6	
1,3,5-Trimethylbenzene	2.9	ug/m3	1.4	0.57	1.44		11/14/18 17:55	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	0.39	1.44		11/14/18 17:55	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	0.18	1.44		11/14/18 17:55	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.0	1.44		11/14/18 17:55	179601-23-1	
o-Xylene	ND	ug/m3	1.3	0.50	1.44		11/14/18 17:55	95-47-6	

Sample: Indoor Ambient Lab ID: 10455247004 Collected: 11/09/18 15:00 Received: 11/12/18 13:45 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	14.1	ug/m3	4.8	2.4	2.01		11/14/18 17:27	67-64-1	
Benzene	1.1	ug/m3	0.65	0.31	2.01		11/14/18 17:27	71-43-2	
Benzyl chloride	ND	ug/m3	5.3	2.4	2.01		11/14/18 17:27	100-44-7	
Bromodichloromethane	ND	ug/m3	2.7	0.74	2.01		11/14/18 17:27	75-27-4	
Bromoform	ND	ug/m3	10.6	2.9	2.01		11/14/18 17:27	75-25-2	
Bromomethane	ND	ug/m3	1.6	0.46	2.01		11/14/18 17:27	74-83-9	
1,3-Butadiene	ND	ug/m3	0.90	0.26	2.01		11/14/18 17:27	106-99-0	
2-Butanone (MEK)	ND	ug/m3	6.0	0.74	2.01		11/14/18 17:27	78-93-3	
Carbon disulfide	ND	ug/m3	1.3	0.44	2.01		11/14/18 17:27	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.6	0.86	2.01		11/14/18 17:27	56-23-5	
Chlorobenzene	ND	ug/m3	1.9	0.55	2.01		11/14/18 17:27	108-90-7	
Chloroethane	ND	ug/m3	1.1	0.52	2.01		11/14/18 17:27	75-00-3	
Chloroform	1.4	ug/m3	1.0	0.39	2.01		11/14/18 17:27	67-66-3	
Chloromethane	ND	ug/m3	0.84	0.31	2.01		11/14/18 17:27	74-87-3	
Cyclohexane	ND	ug/m3	3.5	0.71	2.01		11/14/18 17:27	110-82-7	
Dibromochloromethane	ND	ug/m3	3.5	1.4	2.01		11/14/18 17:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.6	0.74	2.01		11/14/18 17:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.5	1.0	2.01		11/14/18 17:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.5	1.2	2.01		11/14/18 17:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.2	2.0	2.01		11/14/18 17:27	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	2.0	0.59	2.01		11/14/18 17:27	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.7	0.45	2.01		11/14/18 17:27	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.83	0.30	2.01		11/14/18 17:27	107-06-2	

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Indoor Ambient **Lab ID: 10455247004** Collected: 11/09/18 15:00 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,1-Dichloroethene	ND	ug/m3	1.6	0.55	2.01		11/14/18 17:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	0.44	2.01		11/14/18 17:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	0.57	2.01		11/14/18 17:27	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.9	0.46	2.01		11/14/18 17:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.9	0.61	2.01		11/14/18 17:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.9	0.88	2.01		11/14/18 17:27	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.9	0.88	2.01		11/14/18 17:27	76-14-2	
Ethanol	60.9	ug/m3	3.9	1.6	2.01		11/14/18 17:27	64-17-5	
Ethyl acetate	ND	ug/m3	1.5	0.38	2.01		11/14/18 17:27	141-78-6	
Ethylbenzene	ND	ug/m3	1.8	0.61	2.01		11/14/18 17:27	100-41-4	
4-Ethyltoluene	14.4	ug/m3	5.0	1.1	2.01		11/14/18 17:27	622-96-8	
n-Heptane	ND	ug/m3	1.7	0.76	2.01		11/14/18 17:27	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.9	4.0	2.01		11/14/18 17:27	87-68-3	
n-Hexane	2.1	ug/m3	1.4	0.63	2.01		11/14/18 17:27	110-54-3	
2-Hexanone	ND	ug/m3	8.4	1.5	2.01		11/14/18 17:27	591-78-6	
Methylene Chloride	ND	ug/m3	7.1	1.9	2.01		11/14/18 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	8.4	1.0	2.01		11/14/18 17:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.4	1.3	2.01		11/14/18 17:27	1634-04-4	
Naphthalene	ND	ug/m3	5.3	2.7	2.01		11/14/18 17:27	91-20-3	
2-Propanol	9.4	ug/m3	5.0	1.4	2.01		11/14/18 17:27	67-63-0	
Propylene	ND	ug/m3	0.70	0.29	2.01		11/14/18 17:27	115-07-1	
Styrene	ND	ug/m3	1.7	0.69	2.01		11/14/18 17:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.4	0.59	2.01		11/14/18 17:27	79-34-5	
Tetrachloroethene	1820	ug/m3	41.5	18.9	60.3		11/15/18 17:22	127-18-4	
Tetrahydrofuran	10.5	ug/m3	1.2	0.52	2.01		11/14/18 17:27	109-99-9	
Toluene	6.5	ug/m3	1.5	0.71	2.01		11/14/18 17:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	15.2	7.5	2.01		11/14/18 17:27	120-82-1	
1,1,1-Trichloroethane	128	ug/m3	2.2	0.62	2.01		11/14/18 17:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.1	0.50	2.01		11/14/18 17:27	79-00-5	
Trichloroethene	127	ug/m3	1.1	0.52	2.01		11/14/18 17:27	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.3	0.74	2.01		11/14/18 17:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.1	1.1	2.01		11/14/18 17:27	76-13-1	
1,2,4-Trimethylbenzene	32.5	ug/m3	2.0	0.91	2.01		11/14/18 17:27	95-63-6	
1,3,5-Trimethylbenzene	13.2	ug/m3	2.0	0.80	2.01		11/14/18 17:27	108-67-8	
Vinyl acetate	ND	ug/m3	1.4	0.54	2.01		11/14/18 17:27	108-05-4	
Vinyl chloride	ND	ug/m3	0.52	0.25	2.01		11/14/18 17:27	75-01-4	
m&p-Xylene	7.4	ug/m3	3.6	1.4	2.01		11/14/18 17:27	179601-23-1	
o-Xylene	3.5	ug/m3	1.8	0.69	2.01		11/14/18 17:27	95-47-6	

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Outdoor Ambient **Lab ID: 10455247005** Collected: 11/09/18 15:05 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	ND	ug/m3	4.6	2.3	1.92		11/14/18 17:00	67-64-1	
Benzene	ND	ug/m3	0.62	0.29	1.92		11/14/18 17:00	71-43-2	
Benzyl chloride	ND	ug/m3	5.0	2.3	1.92		11/14/18 17:00	100-44-7	
Bromodichloromethane	ND	ug/m3	2.6	0.70	1.92		11/14/18 17:00	75-27-4	
Bromoform	ND	ug/m3	10.1	2.7	1.92		11/14/18 17:00	75-25-2	
Bromomethane	ND	ug/m3	1.5	0.44	1.92		11/14/18 17:00	74-83-9	
1,3-Butadiene	ND	ug/m3	0.86	0.25	1.92		11/14/18 17:00	106-99-0	
2-Butanone (MEK)	ND	ug/m3	5.8	0.71	1.92		11/14/18 17:00	78-93-3	
Carbon disulfide	ND	ug/m3	1.2	0.42	1.92		11/14/18 17:00	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.5	0.82	1.92		11/14/18 17:00	56-23-5	
Chlorobenzene	ND	ug/m3	1.8	0.53	1.92		11/14/18 17:00	108-90-7	
Chloroethane	ND	ug/m3	1.0	0.50	1.92		11/14/18 17:00	75-00-3	
Chloroform	ND	ug/m3	0.95	0.38	1.92		11/14/18 17:00	67-66-3	
Chloromethane	ND	ug/m3	0.81	0.30	1.92		11/14/18 17:00	74-87-3	
Cyclohexane	ND	ug/m3	3.4	0.68	1.92		11/14/18 17:00	110-82-7	
Dibromochloromethane	ND	ug/m3	3.3	1.4	1.92		11/14/18 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.5	0.70	1.92		11/14/18 17:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.3	0.96	1.92		11/14/18 17:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.3	1.1	1.92		11/14/18 17:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	5.9	1.9	1.92		11/14/18 17:00	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.9	0.56	1.92		11/14/18 17:00	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.6	0.43	1.92		11/14/18 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.79	0.29	1.92		11/14/18 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	0.53	1.92		11/14/18 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	0.42	1.92		11/14/18 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	0.55	1.92		11/14/18 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.8	0.44	1.92		11/14/18 17:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.8	0.58	1.92		11/14/18 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.8	0.84	1.92		11/14/18 17:00	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.7	0.84	1.92		11/14/18 17:00	76-14-2	
Ethanol	4.5	ug/m3	3.7	1.6	1.92		11/14/18 17:00	64-17-5	
Ethyl acetate	ND	ug/m3	1.4	0.36	1.92		11/14/18 17:00	141-78-6	
Ethylbenzene	ND	ug/m3	1.7	0.59	1.92		11/14/18 17:00	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.8	1.1	1.92		11/14/18 17:00	622-96-8	
n-Heptane	ND	ug/m3	1.6	0.73	1.92		11/14/18 17:00	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.4	3.8	1.92		11/14/18 17:00	87-68-3	
n-Hexane	ND	ug/m3	1.4	0.60	1.92		11/14/18 17:00	110-54-3	
2-Hexanone	ND	ug/m3	8.0	1.4	1.92		11/14/18 17:00	591-78-6	
Methylene Chloride	ND	ug/m3	6.8	1.8	1.92		11/14/18 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	8.0	0.99	1.92		11/14/18 17:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.0	1.3	1.92		11/14/18 17:00	1634-04-4	
Naphthalene	ND	ug/m3	5.1	2.5	1.92		11/14/18 17:00	91-20-3	
2-Propanol	ND	ug/m3	4.8	1.3	1.92		11/14/18 17:00	67-63-0	
Propylene	ND	ug/m3	0.67	0.27	1.92		11/14/18 17:00	115-07-1	
Styrene	ND	ug/m3	1.7	0.66	1.92		11/14/18 17:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	0.56	1.92		11/14/18 17:00	79-34-5	

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ANALYTICAL RESULTS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Sample: Outdoor Ambient **Lab ID: 10455247005** Collected: 11/09/18 15:05 Received: 11/12/18 13:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	37.5	ug/m3	1.3	0.60	1.92		11/14/18 17:00	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.2	0.50	1.92		11/14/18 17:00	109-99-9	
Toluene	ND	ug/m3	1.5	0.67	1.92		11/14/18 17:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	14.5	7.1	1.92		11/14/18 17:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.1	0.59	1.92		11/14/18 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.1	0.48	1.92		11/14/18 17:00	79-00-5	
Trichloroethene	3.3	ug/m3	1.0	0.49	1.92		11/14/18 17:00	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.2	0.70	1.92		11/14/18 17:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.0	1.1	1.92		11/14/18 17:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.9	0.87	1.92		11/14/18 17:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.9	0.77	1.92		11/14/18 17:00	108-67-8	
Vinyl acetate	ND	ug/m3	1.4	0.52	1.92		11/14/18 17:00	108-05-4	
Vinyl chloride	ND	ug/m3	0.50	0.24	1.92		11/14/18 17:00	75-01-4	
m&p-Xylene	ND	ug/m3	3.4	1.3	1.92		11/14/18 17:00	179601-23-1	
o-Xylene	ND	ug/m3	1.7	0.66	1.92		11/14/18 17:00	95-47-6	

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QUALITY CONTROL DATA

Project: 631224187 Redi Quick
Pace Project No.: 10455247

QC Batch: 575572 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10455247001, 10455247002, 10455247003, 10455247004, 10455247005

METHOD BLANK: 3123636 Matrix: Air
Associated Lab Samples: 10455247001, 10455247002, 10455247003, 10455247004, 10455247005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	11/14/18 14:12	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.35	11/14/18 14:12	
1,1,2-Trichloroethane	ug/m3	ND	0.28	11/14/18 14:12	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.78	11/14/18 14:12	
1,1-Dichloroethane	ug/m3	ND	0.41	11/14/18 14:12	
1,1-Dichloroethene	ug/m3	ND	0.40	11/14/18 14:12	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	11/14/18 14:12	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	11/14/18 14:12	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.39	11/14/18 14:12	
1,2-Dichlorobenzene	ug/m3	ND	0.61	11/14/18 14:12	
1,2-Dichloroethane	ug/m3	ND	0.21	11/14/18 14:12	
1,2-Dichloropropane	ug/m3	ND	0.47	11/14/18 14:12	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	11/14/18 14:12	
1,3-Butadiene	ug/m3	ND	0.22	11/14/18 14:12	
1,3-Dichlorobenzene	ug/m3	ND	0.61	11/14/18 14:12	
1,4-Dichlorobenzene	ug/m3	ND	1.5	11/14/18 14:12	
2-Butanone (MEK)	ug/m3	ND	1.5	11/14/18 14:12	
2-Hexanone	ug/m3	ND	2.1	11/14/18 14:12	
2-Propanol	ug/m3	ND	1.2	11/14/18 14:12	
4-Ethyltoluene	ug/m3	ND	1.2	11/14/18 14:12	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	11/14/18 14:12	
Acetone	ug/m3	ND	1.2	11/14/18 14:12	
Benzene	ug/m3	ND	0.16	11/14/18 14:12	
Benzyl chloride	ug/m3	ND	1.3	11/14/18 14:12	
Bromodichloromethane	ug/m3	ND	0.68	11/14/18 14:12	
Bromoform	ug/m3	ND	2.6	11/14/18 14:12	
Bromomethane	ug/m3	ND	0.39	11/14/18 14:12	
Carbon disulfide	ug/m3	ND	0.32	11/14/18 14:12	
Carbon tetrachloride	ug/m3	ND	0.64	11/14/18 14:12	
Chlorobenzene	ug/m3	ND	0.47	11/14/18 14:12	
Chloroethane	ug/m3	ND	0.27	11/14/18 14:12	
Chloroform	ug/m3	ND	0.25	11/14/18 14:12	
Chloromethane	ug/m3	ND	0.21	11/14/18 14:12	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	11/14/18 14:12	
cis-1,3-Dichloropropene	ug/m3	ND	0.46	11/14/18 14:12	
Cyclohexane	ug/m3	ND	0.88	11/14/18 14:12	
Dibromochloromethane	ug/m3	ND	0.86	11/14/18 14:12	
Dichlorodifluoromethane	ug/m3	ND	0.50	11/14/18 14:12	
Dichlorotetrafluoroethane	ug/m3	ND	0.71	11/14/18 14:12	
Ethanol	ug/m3	ND	0.96	11/14/18 14:12	
Ethyl acetate	ug/m3	ND	0.37	11/14/18 14:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 Redi Quick

Pace Project No.: 10455247

METHOD BLANK: 3123636

Matrix: Air

Associated Lab Samples: 10455247001, 10455247002, 10455247003, 10455247004, 10455247005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.44	11/14/18 14:12	
Hexachloro-1,3-butadiene	ug/m3	ND	2.7	11/14/18 14:12	
m&p-Xylene	ug/m3	ND	0.88	11/14/18 14:12	
Methyl-tert-butyl ether	ug/m3	ND	1.8	11/14/18 14:12	
Methylene Chloride	ug/m3	ND	1.8	11/14/18 14:12	
n-Heptane	ug/m3	ND	0.42	11/14/18 14:12	
n-Hexane	ug/m3	ND	0.36	11/14/18 14:12	
Naphthalene	ug/m3	ND	1.3	11/14/18 14:12	
o-Xylene	ug/m3	ND	0.44	11/14/18 14:12	
Propylene	ug/m3	ND	0.18	11/14/18 14:12	
Styrene	ug/m3	ND	0.43	11/14/18 14:12	
Tetrachloroethene	ug/m3	ND	0.34	11/14/18 14:12	
Tetrahydrofuran	ug/m3	ND	0.30	11/14/18 14:12	
Toluene	ug/m3	ND	0.38	11/14/18 14:12	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	11/14/18 14:12	
trans-1,3-Dichloropropene	ug/m3	ND	0.46	11/14/18 14:12	
Trichloroethene	ug/m3	ND	0.27	11/14/18 14:12	
Trichlorofluoromethane	ug/m3	ND	0.57	11/14/18 14:12	
Vinyl acetate	ug/m3	ND	0.36	11/14/18 14:12	
Vinyl chloride	ug/m3	ND	0.13	11/14/18 14:12	

LABORATORY CONTROL SAMPLE: 3123637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	55.8	99	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.5	95	70-146	
1,1,2-Trichloroethane	ug/m3	58.2	56.7	97	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	74.2	87	63-139	
1,1-Dichloroethane	ug/m3	42.4	39.4	93	70-134	
1,1-Dichloroethene	ug/m3	43.5	38.1	87	70-137	
1,2,4-Trichlorobenzene	ug/m3	74.7	76.8	103	60-133	
1,2,4-Trimethylbenzene	ug/m3	53	50.6	96	70-137	
1,2-Dibromoethane (EDB)	ug/m3	83.6	77.7	93	70-140	
1,2-Dichlorobenzene	ug/m3	59.9	57.9	97	70-137	
1,2-Dichloroethane	ug/m3	42.8	39.3	92	70-136	
1,2-Dichloropropane	ug/m3	48.4	45.3	94	70-136	
1,3,5-Trimethylbenzene	ug/m3	53.5	51.5	96	70-133	
1,3-Butadiene	ug/m3	22.5	22.2	99	64-141	
1,3-Dichlorobenzene	ug/m3	65.4	58.1	89	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	60.1	92	70-134	
2-Butanone (MEK)	ug/m3	32.4	30.0	93	65-143	
2-Hexanone	ug/m3	42.9	46.5	108	60-148	
2-Propanol	ug/m3	26.5	27.3	103	65-135	
4-Ethyltoluene	ug/m3	52	55.0	106	70-132	

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QUALITY CONTROL DATA

Project: 631224187 Redi Quick

Pace Project No.: 10455247

LABORATORY CONTROL SAMPLE: 3123637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	45.5	108	70-135	
Acetone	ug/m3	26.6	24.2	91	59-132	
Benzene	ug/m3	34.4	29.8	87	70-134	
Benzyl chloride	ug/m3	56.3	43.3	77	56-150	
Bromodichloromethane	ug/m3	69.5	67.2	97	70-142	
Bromoform	ug/m3	97.7	77.5	79	69-150	
Bromomethane	ug/m3	32.9	40.0	121	61-141	
Carbon disulfide	ug/m3	32.9	32.6	99	66-134	
Carbon tetrachloride	ug/m3	65.9	60.8	92	60-145	
Chlorobenzene	ug/m3	49.6	43.4	87	70-130	
Chloroethane	ug/m3	26.8	29.6	110	65-143	
Chloroform	ug/m3	52.6	46.4	88	70-132	
Chloromethane	ug/m3	22.2	19.6	88	58-140	
cis-1,2-Dichloroethene	ug/m3	41.9	38.5	92	70-136	
cis-1,3-Dichloropropene	ug/m3	48	42.2	88	70-136	
Cyclohexane	ug/m3	35.3	38.3	108	70-133	
Dibromochloromethane	ug/m3	90	75.2	84	68-149	
Dichlorodifluoromethane	ug/m3	52.8	46.2	87	69-130	
Dichlorotetrafluoroethane	ug/m3	74.6	67.6	91	68-130	
Ethanol	ug/m3	21.1	18.4	88	65-146	
Ethyl acetate	ug/m3	38.8	35.3	91	68-136	
Ethylbenzene	ug/m3	45.5	45.1	99	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	117	108	59-140	
m&p-Xylene	ug/m3	45.9	46.1	100	70-133	
Methyl-tert-butyl ether	ug/m3	37.4	36.7	98	70-132	
Methylene Chloride	ug/m3	38.1	33.6	88	67-132	
n-Heptane	ug/m3	43.7	41.5	95	64-136	
n-Hexane	ug/m3	37.6	34.7	92	70-130	
Naphthalene	ug/m3	52.7	54.3	103	55-136	
o-Xylene	ug/m3	44.1	42.7	97	70-132	
Propylene	ug/m3	19.2	16.6	86	37-150	
Styrene	ug/m3	44.2	47.3	107	70-139	
Tetrachloroethene	ug/m3	70.3	64.0	91	70-133	
Tetrahydrofuran	ug/m3	30.3	31.7	105	62-141	
Toluene	ug/m3	39.4	37.3	95	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	38.9	94	70-132	
trans-1,3-Dichloropropene	ug/m3	44.8	40.8	91	70-135	
Trichloroethene	ug/m3	56.3	53.2	95	70-135	
Trichlorofluoromethane	ug/m3	58.8	59.1	100	59-140	
Vinyl acetate	ug/m3	35.1	29.6	85	57-150	
Vinyl chloride	ug/m3	28.1	25.4	90	70-141	

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QUALITY CONTROL DATA

Project: 631224187 Redi Quick

Pace Project No.: 10455247

SAMPLE DUPLICATE: 3124488

Parameter	Units	10455069007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<2.0	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	<1.3	ND		25	
1,1,2-Trichloroethane	ug/m3	<1.0	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<2.9	ND		25	
1,1-Dichloroethane	ug/m3	<1.5	ND		25	
1,1-Dichloroethene	ug/m3	<1.5	ND		25	
1,2,4-Trichlorobenzene	ug/m3	<13.8	ND		25	
1,2,4-Trimethylbenzene	ug/m3	<1.8	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	ND		25	
1,2-Dichlorobenzene	ug/m3	<2.2	ND		25	
1,2-Dichloroethane	ug/m3	<0.75	ND		25	
1,2-Dichloropropane	ug/m3	<1.7	ND		25	
1,3,5-Trimethylbenzene	ug/m3	<1.8	ND		25	
1,3-Butadiene	ug/m3	<0.82	ND		25	
1,3-Dichlorobenzene	ug/m3	<2.2	ND		25	
1,4-Dichlorobenzene	ug/m3	<5.6	ND		25	
2-Butanone (MEK)	ug/m3	<5.5	.7J		25	
2-Hexanone	ug/m3	<7.6	ND		25	
2-Propanol	ug/m3	<4.6	ND		25	
4-Ethyltoluene	ug/m3	<4.6	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<7.6	ND		25	
Acetone	ug/m3	6.8	6.7	2	25	
Benzene	ug/m3	<0.59	ND		25	
Benzyl chloride	ug/m3	<4.8	ND		25	
Bromodichloromethane	ug/m3	<2.5	ND		25	
Bromoform	ug/m3	<9.6	ND		25	
Bromomethane	ug/m3	<1.4	ND		25	
Carbon disulfide	ug/m3	<1.2	ND		25	
Carbon tetrachloride	ug/m3	<2.3	ND		25	
Chlorobenzene	ug/m3	<1.7	ND		25	
Chloroethane	ug/m3	<0.98	ND		25	
Chloroform	ug/m3	<0.91	ND		25	
Chloromethane	ug/m3	<0.77	ND		25	
cis-1,2-Dichloroethene	ug/m3	<1.5	ND		25	
cis-1,3-Dichloropropene	ug/m3	<1.7	ND		25	
Cyclohexane	ug/m3	<3.2	ND		25	
Dibromochloromethane	ug/m3	<3.2	ND		25	
Dichlorodifluoromethane	ug/m3	2.3	2.3	3	25	
Dichlorotetrafluoroethane	ug/m3	<2.6	ND		25	
Ethanol	ug/m3	4.5	4.2	8	25	
Ethyl acetate	ug/m3	<1.3	ND		25	
Ethylbenzene	ug/m3	<1.6	ND		25	
Hexachloro-1,3-butadiene	ug/m3	<9.9	ND		25	
m&p-Xylene	ug/m3	<3.2	ND		25	
Methyl-tert-butyl ether	ug/m3	<6.7	ND		25	
Methylene Chloride	ug/m3	8.8	7.4	17	25	
n-Heptane	ug/m3	<1.5	ND		25	

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QUALITY CONTROL DATA

Project: 631224187 Redi Quick

Pace Project No.: 10455247

SAMPLE DUPLICATE: 3124488

Parameter	Units	10455069007 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	<1.3	.63J		25	
Naphthalene	ug/m3	<4.9	ND		25	
o-Xylene	ug/m3	<1.6	ND		25	
Propylene	ug/m3	<0.64	ND		25	
Styrene	ug/m3	<1.6	ND		25	
Tetrachloroethene	ug/m3	<1.3	ND		25	
Tetrahydrofuran	ug/m3	<1.1	ND		25	
Toluene	ug/m3	<1.4	ND		25	
trans-1,2-Dichloroethene	ug/m3	<1.5	ND		25	
trans-1,3-Dichloropropene	ug/m3	<1.7	ND		25	
Trichloroethene	ug/m3	<1.0	ND		25	
Trichlorofluoromethane	ug/m3	<2.1	1.2J		25	
Vinyl acetate	ug/m3	<1.3	ND		25	
Vinyl chloride	ug/m3	<0.48	ND		25	

SAMPLE DUPLICATE: 3124489

Parameter	Units	10455069005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<1.7	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	<1.0	ND		25	
1,1,2-Trichloroethane	ug/m3	<0.83	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<2.3	ND		25	
1,1-Dichloroethane	ug/m3	<1.2	ND		25	
1,1-Dichloroethene	ug/m3	<1.2	ND		25	
1,2,4-Trichlorobenzene	ug/m3	<11.2	ND		25	
1,2,4-Trimethylbenzene	ug/m3	<1.5	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.2	ND		25	
1,2-Dichlorobenzene	ug/m3	<1.8	ND		25	
1,2-Dichloroethane	ug/m3	<0.61	ND		25	
1,2-Dichloropropane	ug/m3	<1.4	ND		25	
1,3,5-Trimethylbenzene	ug/m3	<1.5	ND		25	
1,3-Butadiene	ug/m3	<0.67	ND		25	
1,3-Dichlorobenzene	ug/m3	<1.8	ND		25	
1,4-Dichlorobenzene	ug/m3	<4.6	ND		25	
2-Butanone (MEK)	ug/m3	<4.5	1J		25	
2-Hexanone	ug/m3	<6.2	ND		25	
2-Propanol	ug/m3	<3.7	3.1J		25	
4-Ethyltoluene	ug/m3	<3.7	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<6.2	ND		25	
Acetone	ug/m3	11.1	11.2	1	25	
Benzene	ug/m3	1.2	1.2	2	25	
Benzyl chloride	ug/m3	<3.9	ND		25	
Bromodichloromethane	ug/m3	<2.0	ND		25	
Bromoform	ug/m3	<7.8	ND		25	
Bromomethane	ug/m3	<1.2	ND		25	

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QUALITY CONTROL DATA

Project: 631224187 Redi Quick

Pace Project No.: 10455247

SAMPLE DUPLICATE: 3124489

Parameter	Units	10455069005 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.94	ND		25	
Carbon tetrachloride	ug/m3	<1.9	ND		25	
Chlorobenzene	ug/m3	<1.4	ND		25	
Chloroethane	ug/m3	<0.80	ND		25	
Chloroform	ug/m3	<0.74	ND		25	
Chloromethane	ug/m3	<0.63	ND		25	
cis-1,2-Dichloroethene	ug/m3	<1.2	ND		25	
cis-1,3-Dichloropropene	ug/m3	<1.4	ND		25	
Cyclohexane	ug/m3	<2.6	ND		25	
Dibromochloromethane	ug/m3	<2.6	ND		25	
Dichlorodifluoromethane	ug/m3	2.3	2.4	5	25	
Dichlorotetrafluoroethane	ug/m3	<2.1	ND		25	
Ethanol	ug/m3	11.1	12.2	9	25	
Ethyl acetate	ug/m3	<1.1	ND		25	
Ethylbenzene	ug/m3	<1.3	ND		25	
Hexachloro-1,3-butadiene	ug/m3	<8.1	ND		25	
m&p-Xylene	ug/m3	<2.6	1.2J		25	
Methyl-tert-butyl ether	ug/m3	<5.5	ND		25	
Methylene Chloride	ug/m3	11.7	11.5	2	25	
n-Heptane	ug/m3	<1.2	ND		25	
n-Hexane	ug/m3	1.8	1.7	2	25	
Naphthalene	ug/m3	<4.0	ND		25	
o-Xylene	ug/m3	<1.3	ND		25	
Propylene	ug/m3	<0.52	ND		25	
Styrene	ug/m3	<1.3	ND		25	
Tetrachloroethene	ug/m3	<1.0	ND		25	
Tetrahydrofuran	ug/m3	<0.89	ND		25	
Toluene	ug/m3	2.9	2.8	4	25	
trans-1,2-Dichloroethene	ug/m3	<1.2	ND		25	
trans-1,3-Dichloropropene	ug/m3	<1.4	ND		25	
Trichloroethene	ug/m3	<0.81	ND		25	
Trichlorofluoromethane	ug/m3	<1.7	1.4J		25	
Vinyl acetate	ug/m3	<1.1	ND		25	
Vinyl chloride	ug/m3	<0.39	ND		25	

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QUALIFIERS

Project: 631224187 Redi Quick

Pace Project No.: 10455247

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 631224187 Redi Quick

Pace Project No.: 10455247

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10455247001	Sub Slab-1	TO-15	575572		
10455247002	Sub Slab-2	TO-15	575572		
10455247003	Sub Slab-3	TO-15	575572		
10455247004	Indoor Ambient	TO-15	575572		
10455247005	Outdoor Ambient	TO-15	575572		

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO# : 10455247

 10455247

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information: 34651 Page: of

Company: **APTIM** Report To: **Mark Finney** Attention:
 Address: **8725 Rosehill Rd Suite 450** Copy To:
Lexxa KS 66215
 Email To: **mark.finney@aptim.com** Purchase Order No.:
 Phone: **913-317-3591** Fax: Project Name: **Redi Quick**
 Requested Due Date/TAT: Project Number: **631224187** Pace Quote Reference:
 Pace Project Manager/Sales Rep.:
 Pace Profile #: **39947**

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other
 Location of Sampling by State: Reporting Units
 ug/m³ mg/m³
 PPBV PPMV
 Other
 Report Level II III IV Other

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes		COLLECTED				Summa Can Number	Flow Control Number	Method:								Pace Lab ID		
		MEDIA	CODE	COMPOSITE START		COMPOSITE - END/GRAB				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	PM10 / 3C - Fixed Gas (%) / TO-3 FT EX / TO-SM (Methane) / TO-14 / TO-15 Full List VOCs / TO-15 Short List BTEX / TO-15 Short List Chlorinated								
		Tedlar Bag	TB	DATE	TIME	DATE	TIME													
		1 Liter Summa Can	1LC																	
1	Sub Slab -1	6LC	0	11/9/18	700	11/9/18	730	29	1.5	1	4	6	5	1	2	3	3	X	CO1	
2	Sub Slab -2	6LC	3	11/9/18	705	11/9/18	735	29	1.5	1	5	3	0	1	6	8	4	X	CO2	
3	Sub Slab -3	6LC	0	11/9/18	710	11/9/18	740	29	1.5	0	3	1	6	0	6	4	2	X	CO3	
4	Indoor Ambient	6LC	.	11/9/18	700	11/9/18	1500	30	11	3	5	9	1	1	0	8	3	X	CO4	
5	Outdoor Ambient	6LC		11/9/18	700	11/9/18	1505	28	9	2	3	2	6	1	1	0	4	X	CO5	
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<i>J. Schmidt</i> APTIM	11/9/18	1700	<i>W. Lopez</i>	11-12-18	1345	-	Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE: *Jared Schmidt*
 PRINT Name of SAMPLER: **Jared Schmidt**
 SIGNATURE OF SAMPLER: *J. Schmidt* DATE Signed (MM/DD/YY): **11/09/18**

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: APTIM Project #: _____

WO# : 10455247

PM: KNH Due Date: 11/19/18
CLIENT: APTIM

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 4545 9907 2606 / 2617

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: G87A9170600254
 G87A9155100842
Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 11-12-18 AA

Type of Ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.

Samples Received: <u>FFFF</u>	<u>2 cones</u>	Pressure Gauge # <u>10AIR35</u>							
Canisters				Canisters					
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>SS-1</u>			<u>-2</u>	<u>+5</u>					
<u>-2</u>			<u>-2</u>	<u>"</u>					
<u>-3</u>			<u>-2</u>	<u>"</u>					
<u>IA</u>			<u>-10</u>	<u>"</u>					
<u>OA</u>			<u>-9</u>	<u>"</u>					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review: Kirsten Hooper

Date: 11/12/2018

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

November 19, 2018

Mark Finney
APTIM
8725 Rosehill Road
Suite 450
Lenexa, KS 66215

RE: Project: 631224187 REDI-QUICK
Pace Project No.: 40179453

Dear Mark Finney:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2018. 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@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jared Schmidt, APTIM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40179453001	SB-10 2-4'	Solid	11/09/18 08:55	11/10/18 09:05
40179453002	SB-10 12-14'	Solid	11/09/18 09:00	11/10/18 09:05
40179453003	SB-11 2-4'	Solid	11/09/18 09:20	11/10/18 09:05
40179453004	SB-11 10-12'	Solid	11/09/18 09:25	11/10/18 09:05
40179453005	SB-12 2-4'	Solid	11/09/18 09:40	11/10/18 09:05
40179453006	SB-12 10-12'	Solid	11/09/18 09:45	11/10/18 09:05
40179453007	SB-13 2-4'	Solid	11/09/18 10:00	11/10/18 09:05
40179453008	SB-13 12-14'	Solid	11/09/18 10:05	11/10/18 09:05
40179453009	SB-14 2-4'	Solid	11/09/18 10:15	11/10/18 09:05
40179453010	SB-14 12-14'	Solid	11/09/18 10:20	11/10/18 09:05
40179453011	SB-15 2-4'	Solid	11/09/18 10:30	11/10/18 09:05
40179453012	SB-15 12-14'	Solid	11/09/18 10:35	11/10/18 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40179453001	SB-10 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453002	SB-10 12-14'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453003	SB-11 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453004	SB-11 10-12'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453005	SB-12 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453006	SB-12 10-12'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453007	SB-13 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453008	SB-13 12-14'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453009	SB-14 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453010	SB-14 12-14'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453011	SB-15 2-4'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40179453012	SB-15 12-14'	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 631224187 REDI-QUICK
Pace Project No.: 40179453

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40179453001	SB-10 2-4'					
ASTM D2974-87	Percent Moisture	15.6	%	0.10	11/15/18 09:21	
40179453002	SB-10 12-14'					
EPA 8260	cis-1,2-Dichloroethene	7110	ug/kg	2980	11/16/18 10:43	
EPA 8260	Tetrachloroethene	213000	ug/kg	2980	11/16/18 10:43	
EPA 8260	Trichloroethene	6100	ug/kg	2980	11/16/18 10:43	
ASTM D2974-87	Percent Moisture	19.4	%	0.10	11/15/18 09:21	
40179453003	SB-11 2-4'					
ASTM D2974-87	Percent Moisture	14.1	%	0.10	11/15/18 09:21	
40179453004	SB-11 10-12'					
EPA 8260	cis-1,2-Dichloroethene	8640	ug/kg	174	11/16/18 01:24	
EPA 8260	trans-1,2-Dichloroethene	269	ug/kg	174	11/16/18 01:24	
EPA 8260	Tetrachloroethene	7630	ug/kg	174	11/16/18 01:24	
EPA 8260	Trichloroethene	3340	ug/kg	174	11/16/18 01:24	
EPA 8260	Vinyl chloride	635	ug/kg	174	11/16/18 01:24	
ASTM D2974-87	Percent Moisture	14.0	%	0.10	11/15/18 09:21	
40179453005	SB-12 2-4'					
ASTM D2974-87	Percent Moisture	14.6	%	0.10	11/15/18 09:21	
40179453006	SB-12 10-12'					
EPA 8260	cis-1,2-Dichloroethene	4040J	ug/kg	5590	11/16/18 01:01	
EPA 8260	Tetrachloroethene	196000	ug/kg	5590	11/16/18 01:01	
EPA 8260	Trichloroethene	2340J	ug/kg	5590	11/16/18 01:01	
ASTM D2974-87	Percent Moisture	14.2	%	0.10	11/15/18 09:21	
40179453007	SB-13 2-4'					
EPA 8260	Tetrachloroethene	132	ug/kg	71.4	11/16/18 01:46	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	11/15/18 09:21	
40179453008	SB-13 12-14'					
EPA 8260	cis-1,2-Dichloroethene	118000	ug/kg	14900	11/16/18 00:16	
EPA 8260	Tetrachloroethene	764000	ug/kg	14900	11/16/18 00:16	
EPA 8260	Trichloroethene	24600	ug/kg	14900	11/16/18 00:16	
EPA 8260	Vinyl chloride	8990J	ug/kg	14900	11/16/18 00:16	
ASTM D2974-87	Percent Moisture	19.6	%	0.10	11/15/18 09:21	
40179453009	SB-14 2-4'					
ASTM D2974-87	Percent Moisture	14.9	%	0.10	11/15/18 09:22	
40179453010	SB-14 12-14'					
EPA 8260	cis-1,2-Dichloroethene	59700	ug/kg	369	11/16/18 03:18	
EPA 8260	trans-1,2-Dichloroethene	1760	ug/kg	369	11/16/18 03:18	
EPA 8260	Tetrachloroethene	3170	ug/kg	369	11/16/18 03:18	
EPA 8260	Trichloroethene	205J	ug/kg	369	11/16/18 03:18	
EPA 8260	Vinyl chloride	23000	ug/kg	369	11/16/18 03:18	
ASTM D2974-87	Percent Moisture	18.8	%	0.10	11/15/18 09:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40179453011	SB-15 2-4'					
ASTM D2974-87	Percent Moisture	15.0	%	0.10	11/15/18 09:22	
40179453012	SB-15 12-14'					
EPA 8260	Tetrachloroethene	173	ug/kg	73.9	11/16/18 01:22	
ASTM D2974-87	Percent Moisture	18.8	%	0.10	11/15/18 09:22	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: **SB-10 2-4'** Lab ID: **40179453001** Collected: 11/09/18 08:55 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:30	11/16/18 00:59	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:30	11/16/18 00:59	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:30	11/16/18 00:59	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:30	11/16/18 00:59	96-12-8	R1,W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:30	11/16/18 00:59	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-10 2-4' **Lab ID: 40179453001** Collected: 11/09/18 08:55 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:30	11/16/18 00:59	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:30	11/16/18 00:59	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 00:59	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-148		1	11/15/18 08:30	11/16/18 00:59	1868-53-7	
Toluene-d8 (S)	96	%	58-142		1	11/15/18 08:30	11/16/18 00:59	2037-26-5	
4-Bromofluorobenzene (S)	88	%	48-130		1	11/15/18 08:30	11/16/18 00:59	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.6	%	0.10	0.10	1		11/15/18 09:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: **SB-10 12-14'** Lab ID: **40179453002** Collected: 11/09/18 09:00 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	71-43-2	W
Bromobenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	108-86-1	W
Bromochloromethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	74-97-5	W
Bromodichloromethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-27-4	W
Bromoform	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-25-2	W
Bromomethane	<2800	ug/kg	10000	2800	40	11/15/18 08:15	11/16/18 10:43	74-83-9	1q,L1,W
n-Butylbenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	104-51-8	W
sec-Butylbenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	135-98-8	W
tert-Butylbenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	98-06-6	W
Carbon tetrachloride	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	56-23-5	W
Chlorobenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	108-90-7	W
Chloroethane	<2680	ug/kg	10000	2680	40	11/15/18 08:15	11/16/18 10:43	75-00-3	1q,L1,W
Chloroform	<1860	ug/kg	10000	1860	40	11/15/18 08:15	11/16/18 10:43	67-66-3	W
Chloromethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	74-87-3	W
2-Chlorotoluene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	95-49-8	W
4-Chlorotoluene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	106-43-4	W
1,2-Dibromo-3-chloropropane	<3650	ug/kg	10000	3650	40	11/15/18 08:15	11/16/18 10:43	96-12-8	W
Dibromochloromethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	124-48-1	W
1,2-Dibromoethane (EDB)	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	106-93-4	W
Dibromomethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	74-95-3	W
1,2-Dichlorobenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	95-50-1	W
1,3-Dichlorobenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	541-73-1	W
1,4-Dichlorobenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	106-46-7	W
Dichlorodifluoromethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-71-8	W
1,1-Dichloroethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-34-3	W
1,2-Dichloroethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	107-06-2	W
1,1-Dichloroethene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-35-4	W
cis-1,2-Dichloroethene	7110	ug/kg	2980	1240	40	11/15/18 08:15	11/16/18 10:43	156-59-2	
trans-1,2-Dichloroethene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	156-60-5	W
1,2-Dichloropropane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	78-87-5	W
1,3-Dichloropropane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	142-28-9	W
2,2-Dichloropropane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	594-20-7	W
1,1-Dichloropropene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	563-58-6	W
cis-1,3-Dichloropropene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	10061-01-5	W
trans-1,3-Dichloropropene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	10061-02-6	W
Diisopropyl ether	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	108-20-3	W
Ethylbenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	100-41-4	W
Hexachloro-1,3-butadiene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	87-68-3	W
Isopropylbenzene (Cumene)	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	98-82-8	W
p-Isopropyltoluene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	99-87-6	W
Methylene Chloride	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-09-2	W
Methyl-tert-butyl ether	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	1634-04-4	W
Naphthalene	<1600	ug/kg	10000	1600	40	11/15/18 08:15	11/16/18 10:43	91-20-3	W
n-Propylbenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	103-65-1	W
Styrene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: **SB-10 12-14'** Lab ID: **40179453002** Collected: 11/09/18 09:00 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	630-20-6	W
1,1,2,2-Tetrachloroethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	79-34-5	W
Tetrachloroethene	213000	ug/kg	2980	1240	40	11/15/18 08:15	11/16/18 10:43	127-18-4	
Toluene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	108-88-3	W
1,2,3-Trichlorobenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	87-61-6	W
1,2,4-Trichlorobenzene	<1900	ug/kg	10000	1900	40	11/15/18 08:15	11/16/18 10:43	120-82-1	W
1,1,1-Trichloroethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	71-55-6	W
1,1,2-Trichloroethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	79-00-5	W
Trichloroethene	6100	ug/kg	2980	1240	40	11/15/18 08:15	11/16/18 10:43	79-01-6	
Trichlorofluoromethane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-69-4	W
1,2,3-Trichloropropane	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	96-18-4	W
1,2,4-Trimethylbenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	95-63-6	W
1,3,5-Trimethylbenzene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	108-67-8	W
Vinyl chloride	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	75-01-4	W
m&p-Xylene	<2000	ug/kg	4800	2000	40	11/15/18 08:15	11/16/18 10:43	179601-23-1	W
o-Xylene	<1000	ug/kg	2400	1000	40	11/15/18 08:15	11/16/18 10:43	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	0	%	57-148		40	11/15/18 08:15	11/16/18 10:43	1868-53-7	S4
Toluene-d8 (S)	0	%	58-142		40	11/15/18 08:15	11/16/18 10:43	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	48-130		40	11/15/18 08:15	11/16/18 10:43	460-00-4	S4
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.4	%	0.10	0.10	1		11/15/18 09:21		

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-11 2-4' **Lab ID: 40179453003** Collected: 11/09/18 09:20 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:15	11/15/18 23:31	74-83-9	1q,L1,W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:15	11/15/18 23:31	75-00-3	1q,L1,W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:15	11/15/18 23:31	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:15	11/15/18 23:31	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:15	11/15/18 23:31	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	100-42-5	W

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-11 2-4' **Lab ID: 40179453003** Collected: 11/09/18 09:20 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:15	11/15/18 23:31	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:15	11/15/18 23:31	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	57-148		1	11/15/18 08:15	11/15/18 23:31	1868-53-7	
Toluene-d8 (S)	101	%	58-142		1	11/15/18 08:15	11/15/18 23:31	2037-26-5	
4-Bromofluorobenzene (S)	73	%	48-130		1	11/15/18 08:15	11/15/18 23:31	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.1	%	0.10	0.10	1		11/15/18 09:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-11 10-12' Lab ID: 40179453004 Collected: 11/09/18 09:25 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	71-43-2	W
Bromobenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	108-86-1	W
Bromochloromethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	74-97-5	W
Bromodichloromethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	75-27-4	W
Bromoform	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	75-25-2	W
Bromomethane	<175	ug/kg	625	175	2.5	11/15/18 08:15	11/16/18 01:24	74-83-9	1q,L1,W
n-Butylbenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	104-51-8	W
sec-Butylbenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	135-98-8	W
tert-Butylbenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	98-06-6	W
Carbon tetrachloride	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	56-23-5	W
Chlorobenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	108-90-7	W
Chloroethane	<168	ug/kg	625	168	2.5	11/15/18 08:15	11/16/18 01:24	75-00-3	1q,L1,W
Chloroform	<116	ug/kg	625	116	2.5	11/15/18 08:15	11/16/18 01:24	67-66-3	W
Chloromethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	74-87-3	W
2-Chlorotoluene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	95-49-8	W
4-Chlorotoluene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	106-43-4	W
1,2-Dibromo-3-chloropropane	<228	ug/kg	625	228	2.5	11/15/18 08:15	11/16/18 01:24	96-12-8	W
Dibromochloromethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	124-48-1	W
1,2-Dibromoethane (EDB)	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	106-93-4	W
Dibromomethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	74-95-3	W
1,2-Dichlorobenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	95-50-1	W
1,3-Dichlorobenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	541-73-1	W
1,4-Dichlorobenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	106-46-7	W
Dichlorodifluoromethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	75-71-8	W
1,1-Dichloroethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	75-34-3	W
1,2-Dichloroethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	107-06-2	W
1,1-Dichloroethene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	75-35-4	W
cis-1,2-Dichloroethene	8640	ug/kg	174	72.7	2.5	11/15/18 08:15	11/16/18 01:24	156-59-2	
trans-1,2-Dichloroethene	269	ug/kg	174	72.7	2.5	11/15/18 08:15	11/16/18 01:24	156-60-5	
1,2-Dichloropropane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	78-87-5	W
1,3-Dichloropropane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	142-28-9	W
2,2-Dichloropropane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	594-20-7	W
1,1-Dichloropropene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	563-58-6	W
cis-1,3-Dichloropropene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	10061-01-5	W
trans-1,3-Dichloropropene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	10061-02-6	W
Diisopropyl ether	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	108-20-3	W
Ethylbenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	100-41-4	W
Hexachloro-1,3-butadiene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	87-68-3	W
Isopropylbenzene (Cumene)	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	98-82-8	W
p-Isopropyltoluene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	99-87-6	W
Methylene Chloride	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	75-09-2	W
Methyl-tert-butyl ether	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	1634-04-4	W
Naphthalene	<100	ug/kg	625	100	2.5	11/15/18 08:15	11/16/18 01:24	91-20-3	W
n-Propylbenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	103-65-1	W
Styrene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-11 10-12' **Lab ID: 40179453004** Collected: 11/09/18 09:25 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	630-20-6	W
1,1,2,2-Tetrachloroethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	79-34-5	W
Tetrachloroethene	7630	ug/kg	174	72.7	2.5	11/15/18 08:15	11/16/18 01:24	127-18-4	
Toluene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	108-88-3	W
1,2,3-Trichlorobenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	87-61-6	W
1,2,4-Trichlorobenzene	<119	ug/kg	625	119	2.5	11/15/18 08:15	11/16/18 01:24	120-82-1	W
1,1,1-Trichloroethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	71-55-6	W
1,1,2-Trichloroethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	79-00-5	W
Trichloroethene	3340	ug/kg	174	72.7	2.5	11/15/18 08:15	11/16/18 01:24	79-01-6	
Trichlorofluoromethane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	75-69-4	W
1,2,3-Trichloropropane	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	96-18-4	W
1,2,4-Trimethylbenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	95-63-6	W
1,3,5-Trimethylbenzene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	108-67-8	W
Vinyl chloride	635	ug/kg	174	72.7	2.5	11/15/18 08:15	11/16/18 01:24	75-01-4	
m&p-Xylene	<125	ug/kg	300	125	2.5	11/15/18 08:15	11/16/18 01:24	179601-23-1	W
o-Xylene	<62.5	ug/kg	150	62.5	2.5	11/15/18 08:15	11/16/18 01:24	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	57-148		2.5	11/15/18 08:15	11/16/18 01:24	1868-53-7	
Toluene-d8 (S)	106	%	58-142		2.5	11/15/18 08:15	11/16/18 01:24	2037-26-5	
4-Bromofluorobenzene (S)	76	%	48-130		2.5	11/15/18 08:15	11/16/18 01:24	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	14.0	%	0.10	0.10	1		11/15/18 09:21		
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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-12 2-4' Lab ID: **40179453005** Collected: 11/09/18 09:40 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:15	11/15/18 23:54	74-83-9	1q,L1,W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:15	11/15/18 23:54	75-00-3	1q,L1,W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:15	11/15/18 23:54	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:15	11/15/18 23:54	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:15	11/15/18 23:54	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	100-42-5	W

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-12 2-4' **Lab ID: 40179453005** Collected: 11/09/18 09:40 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:15	11/15/18 23:54	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:15	11/15/18 23:54	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/15/18 23:54	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	57-148		1	11/15/18 08:15	11/15/18 23:54	1868-53-7	
Toluene-d8 (S)	111	%	58-142		1	11/15/18 08:15	11/15/18 23:54	2037-26-5	
4-Bromofluorobenzene (S)	82	%	48-130		1	11/15/18 08:15	11/15/18 23:54	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.6	%	0.10	0.10	1		11/15/18 09:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-12 10-12' **Lab ID: 40179453006** Collected: 11/09/18 09:45 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	71-43-2	W
Bromobenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	108-86-1	W
Bromochloromethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	74-97-5	W
Bromodichloromethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-27-4	W
Bromoform	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-25-2	W
Bromomethane	<5590	ug/kg	20000	5590	80	11/15/18 08:15	11/16/18 01:01	74-83-9	1q,L1,W
n-Butylbenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	104-51-8	W
sec-Butylbenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	135-98-8	W
tert-Butylbenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	98-06-6	W
Carbon tetrachloride	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	56-23-5	W
Chlorobenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	108-90-7	W
Chloroethane	<5360	ug/kg	20000	5360	80	11/15/18 08:15	11/16/18 01:01	75-00-3	1q,L1,W
Chloroform	<3720	ug/kg	20000	3720	80	11/15/18 08:15	11/16/18 01:01	67-66-3	W
Chloromethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	74-87-3	W
2-Chlorotoluene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	95-49-8	W
4-Chlorotoluene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	106-43-4	W
1,2-Dibromo-3-chloropropane	<7300	ug/kg	20000	7300	80	11/15/18 08:15	11/16/18 01:01	96-12-8	W
Dibromochloromethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	124-48-1	W
1,2-Dibromoethane (EDB)	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	106-93-4	W
Dibromomethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	74-95-3	W
1,2-Dichlorobenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	95-50-1	W
1,3-Dichlorobenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	541-73-1	W
1,4-Dichlorobenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	106-46-7	W
Dichlorodifluoromethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-71-8	W
1,1-Dichloroethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-34-3	W
1,2-Dichloroethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	107-06-2	W
1,1-Dichloroethene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-35-4	W
cis-1,2-Dichloroethene	4040J	ug/kg	5590	2330	80	11/15/18 08:15	11/16/18 01:01	156-59-2	
trans-1,2-Dichloroethene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	156-60-5	W
1,2-Dichloropropane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	78-87-5	W
1,3-Dichloropropane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	142-28-9	W
2,2-Dichloropropane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	594-20-7	W
1,1-Dichloropropene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	563-58-6	W
cis-1,3-Dichloropropene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	10061-01-5	W
trans-1,3-Dichloropropene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	10061-02-6	W
Diisopropyl ether	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	108-20-3	W
Ethylbenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	100-41-4	W
Hexachloro-1,3-butadiene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	87-68-3	W
Isopropylbenzene (Cumene)	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	98-82-8	W
p-Isopropyltoluene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	99-87-6	W
Methylene Chloride	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-09-2	W
Methyl-tert-butyl ether	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	1634-04-4	W
Naphthalene	<3200	ug/kg	20000	3200	80	11/15/18 08:15	11/16/18 01:01	91-20-3	W
n-Propylbenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	103-65-1	W
Styrene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-12 10-12' **Lab ID: 40179453006** Collected: 11/09/18 09:45 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	630-20-6	W
1,1,2,2-Tetrachloroethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	79-34-5	W
Tetrachloroethene	196000	ug/kg	5590	2330	80	11/15/18 08:15	11/16/18 01:01	127-18-4	
Toluene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	108-88-3	W
1,2,3-Trichlorobenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	87-61-6	W
1,2,4-Trichlorobenzene	<3800	ug/kg	20000	3800	80	11/15/18 08:15	11/16/18 01:01	120-82-1	W
1,1,1-Trichloroethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	71-55-6	W
1,1,2-Trichloroethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	79-00-5	W
Trichloroethene	2340J	ug/kg	5590	2330	80	11/15/18 08:15	11/16/18 01:01	79-01-6	
Trichlorofluoromethane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-69-4	W
1,2,3-Trichloropropane	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	96-18-4	W
1,2,4-Trimethylbenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	95-63-6	W
1,3,5-Trimethylbenzene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	108-67-8	W
Vinyl chloride	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	75-01-4	W
m&p-Xylene	<4000	ug/kg	9600	4000	80	11/15/18 08:15	11/16/18 01:01	179601-23-1	W
o-Xylene	<2000	ug/kg	4800	2000	80	11/15/18 08:15	11/16/18 01:01	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	0	%	57-148		80	11/15/18 08:15	11/16/18 01:01	1868-53-7	S4
Toluene-d8 (S)	0	%	58-142		80	11/15/18 08:15	11/16/18 01:01	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	48-130		80	11/15/18 08:15	11/16/18 01:01	460-00-4	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.2	%	0.10	0.10	1		11/15/18 09:21		

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-13 2-4' Lab ID: **40179453007** Collected: 11/09/18 10:00 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:15	11/16/18 01:46	74-83-9	1q,L1,W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:15	11/16/18 01:46	75-00-3	1q,L1,W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:15	11/16/18 01:46	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:15	11/16/18 01:46	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:15	11/16/18 01:46	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	100-42-5	W

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-13 2-4' **Lab ID: 40179453007** Collected: 11/09/18 10:00 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	79-34-5	W
Tetrachloroethene	132	ug/kg	71.4	29.7	1	11/15/18 08:15	11/16/18 01:46	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:15	11/16/18 01:46	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:15	11/16/18 01:46	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:15	11/16/18 01:46	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	57-148		1	11/15/18 08:15	11/16/18 01:46	1868-53-7	
Toluene-d8 (S)	116	%	58-142		1	11/15/18 08:15	11/16/18 01:46	2037-26-5	
4-Bromofluorobenzene (S)	83	%	48-130		1	11/15/18 08:15	11/16/18 01:46	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.0	%	0.10	0.10	1		11/15/18 09:21		

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: **SB-13 12-14'** Lab ID: **40179453008** Collected: 11/09/18 10:05 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	71-43-2	W
Bromobenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	108-86-1	W
Bromochloromethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	74-97-5	W
Bromodichloromethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	75-27-4	W
Bromoform	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	75-25-2	W
Bromomethane	<14000	ug/kg	50000	14000	200	11/15/18 08:15	11/16/18 00:16	74-83-9	1q,L1,W
n-Butylbenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	104-51-8	W
sec-Butylbenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	135-98-8	W
tert-Butylbenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	98-06-6	W
Carbon tetrachloride	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	56-23-5	W
Chlorobenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	108-90-7	W
Chloroethane	<13400	ug/kg	50000	13400	200	11/15/18 08:15	11/16/18 00:16	75-00-3	1q,L1,W
Chloroform	<9290	ug/kg	50000	9290	200	11/15/18 08:15	11/16/18 00:16	67-66-3	W
Chloromethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	74-87-3	W
2-Chlorotoluene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	95-49-8	W
4-Chlorotoluene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	106-43-4	W
1,2-Dibromo-3-chloropropane	<18200	ug/kg	50000	18200	200	11/15/18 08:15	11/16/18 00:16	96-12-8	W
Dibromochloromethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	124-48-1	W
1,2-Dibromoethane (EDB)	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	106-93-4	W
Dibromomethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	74-95-3	W
1,2-Dichlorobenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	95-50-1	W
1,3-Dichlorobenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	541-73-1	W
1,4-Dichlorobenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	106-46-7	W
Dichlorodifluoromethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	75-71-8	W
1,1-Dichloroethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	75-34-3	W
1,2-Dichloroethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	107-06-2	W
1,1-Dichloroethene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	75-35-4	W
cis-1,2-Dichloroethene	118000	ug/kg	14900	6220	200	11/15/18 08:15	11/16/18 00:16	156-59-2	
trans-1,2-Dichloroethene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	156-60-5	W
1,2-Dichloropropane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	78-87-5	W
1,3-Dichloropropane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	142-28-9	W
2,2-Dichloropropane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	594-20-7	W
1,1-Dichloropropene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	563-58-6	W
cis-1,3-Dichloropropene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	10061-01-5	W
trans-1,3-Dichloropropene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	10061-02-6	W
Diisopropyl ether	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	108-20-3	W
Ethylbenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	100-41-4	W
Hexachloro-1,3-butadiene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	87-68-3	W
Isopropylbenzene (Cumene)	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	98-82-8	W
p-Isopropyltoluene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	99-87-6	W
Methylene Chloride	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	75-09-2	W
Methyl-tert-butyl ether	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	1634-04-4	W
Naphthalene	<8010	ug/kg	50000	8010	200	11/15/18 08:15	11/16/18 00:16	91-20-3	W
n-Propylbenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	103-65-1	W
Styrene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	100-42-5	W

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-13 12-14' **Lab ID: 40179453008** Collected: 11/09/18 10:05 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	630-20-6	W
1,1,2,2-Tetrachloroethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	79-34-5	W
Tetrachloroethene	764000	ug/kg	14900	6220	200	11/15/18 08:15	11/16/18 00:16	127-18-4	
Toluene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	108-88-3	W
1,2,3-Trichlorobenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	87-61-6	W
1,2,4-Trichlorobenzene	<9510	ug/kg	50000	9510	200	11/15/18 08:15	11/16/18 00:16	120-82-1	W
1,1,1-Trichloroethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	71-55-6	W
1,1,2-Trichloroethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	79-00-5	W
Trichloroethene	24600	ug/kg	14900	6220	200	11/15/18 08:15	11/16/18 00:16	79-01-6	
Trichlorofluoromethane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	75-69-4	W
1,2,3-Trichloropropane	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	96-18-4	W
1,2,4-Trimethylbenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	95-63-6	W
1,3,5-Trimethylbenzene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	108-67-8	W
Vinyl chloride	8990J	ug/kg	14900	6220	200	11/15/18 08:15	11/16/18 00:16	75-01-4	
m&p-Xylene	<10000	ug/kg	24000	10000	200	11/15/18 08:15	11/16/18 00:16	179601-23-1	W
o-Xylene	<5000	ug/kg	12000	5000	200	11/15/18 08:15	11/16/18 00:16	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	0	%	57-148		200	11/15/18 08:15	11/16/18 00:16	1868-53-7	S4
Toluene-d8 (S)	0	%	58-142		200	11/15/18 08:15	11/16/18 00:16	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	48-130		200	11/15/18 08:15	11/16/18 00:16	460-00-4	S4
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.6	%	0.10	0.10	1		11/15/18 09:21		

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-14 2-4' **Lab ID: 40179453009** Collected: 11/09/18 10:15 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:30	11/16/18 01:45	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:30	11/16/18 01:45	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:30	11/16/18 01:45	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:30	11/16/18 01:45	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:30	11/16/18 01:45	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	100-42-5	W

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-14 2-4' **Lab ID: 40179453009** Collected: 11/09/18 10:15 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:30	11/16/18 01:45	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:30	11/16/18 01:45	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	57-148		1	11/15/18 08:30	11/16/18 01:45	1868-53-7	
Toluene-d8 (S)	92	%	58-142		1	11/15/18 08:30	11/16/18 01:45	2037-26-5	
4-Bromofluorobenzene (S)	89	%	48-130		1	11/15/18 08:30	11/16/18 01:45	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.9	%	0.10	0.10	1		11/15/18 09:22		

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: **SB-14 12-14'** Lab ID: **40179453010** Collected: 11/09/18 10:20 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	71-43-2	W
Bromobenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	108-86-1	W
Bromochloromethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	74-97-5	W
Bromodichloromethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	75-27-4	W
Bromoform	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	75-25-2	W
Bromomethane	<350	ug/kg	1250	350	5	11/15/18 08:30	11/16/18 03:18	74-83-9	W
n-Butylbenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	104-51-8	W
sec-Butylbenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	135-98-8	W
tert-Butylbenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	98-06-6	W
Carbon tetrachloride	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	56-23-5	W
Chlorobenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	108-90-7	W
Chloroethane	<335	ug/kg	1250	335	5	11/15/18 08:30	11/16/18 03:18	75-00-3	W
Chloroform	<232	ug/kg	1250	232	5	11/15/18 08:30	11/16/18 03:18	67-66-3	W
Chloromethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	74-87-3	W
2-Chlorotoluene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	95-49-8	W
4-Chlorotoluene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	106-43-4	W
1,2-Dibromo-3-chloropropane	<456	ug/kg	1250	456	5	11/15/18 08:30	11/16/18 03:18	96-12-8	W
Dibromochloromethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	124-48-1	W
1,2-Dibromoethane (EDB)	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	106-93-4	W
Dibromomethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	74-95-3	W
1,2-Dichlorobenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	95-50-1	W
1,3-Dichlorobenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	541-73-1	W
1,4-Dichlorobenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	106-46-7	W
Dichlorodifluoromethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	75-71-8	W
1,1-Dichloroethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	75-34-3	W
1,2-Dichloroethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	107-06-2	W
1,1-Dichloroethene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	75-35-4	W
cis-1,2-Dichloroethene	59700	ug/kg	369	154	5	11/15/18 08:30	11/16/18 03:18	156-59-2	
trans-1,2-Dichloroethene	1760	ug/kg	369	154	5	11/15/18 08:30	11/16/18 03:18	156-60-5	
1,2-Dichloropropane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	78-87-5	W
1,3-Dichloropropane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	142-28-9	W
2,2-Dichloropropane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	594-20-7	W
1,1-Dichloropropene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	563-58-6	W
cis-1,3-Dichloropropene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	10061-01-5	W
trans-1,3-Dichloropropene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	10061-02-6	W
Diisopropyl ether	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	108-20-3	W
Ethylbenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	100-41-4	W
Hexachloro-1,3-butadiene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	87-68-3	W
Isopropylbenzene (Cumene)	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	98-82-8	W
p-Isopropyltoluene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	99-87-6	W
Methylene Chloride	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	75-09-2	W
Methyl-tert-butyl ether	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	1634-04-4	W
Naphthalene	<200	ug/kg	1250	200	5	11/15/18 08:30	11/16/18 03:18	91-20-3	W
n-Propylbenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	103-65-1	W
Styrene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	100-42-5	W

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK
Pace Project No.: 40179453

Sample: SB-14 12-14' **Lab ID: 40179453010** Collected: 11/09/18 10:20 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	630-20-6	W
1,1,2,2-Tetrachloroethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	79-34-5	W
Tetrachloroethene	3170	ug/kg	369	154	5	11/15/18 08:30	11/16/18 03:18	127-18-4	
Toluene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	108-88-3	W
1,2,3-Trichlorobenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	87-61-6	W
1,2,4-Trichlorobenzene	<238	ug/kg	1250	238	5	11/15/18 08:30	11/16/18 03:18	120-82-1	W
1,1,1-Trichloroethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	71-55-6	W
1,1,2-Trichloroethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	79-00-5	W
Trichloroethene	205J	ug/kg	369	154	5	11/15/18 08:30	11/16/18 03:18	79-01-6	
Trichlorofluoromethane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	75-69-4	W
1,2,3-Trichloropropane	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	96-18-4	W
1,2,4-Trimethylbenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	95-63-6	W
1,3,5-Trimethylbenzene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	108-67-8	W
Vinyl chloride	23000	ug/kg	369	154	5	11/15/18 08:30	11/16/18 03:18	75-01-4	
m&p-Xylene	<250	ug/kg	600	250	5	11/15/18 08:30	11/16/18 03:18	179601-23-1	W
o-Xylene	<125	ug/kg	300	125	5	11/15/18 08:30	11/16/18 03:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-148		5	11/15/18 08:30	11/16/18 03:18	1868-53-7	
Toluene-d8 (S)	89	%	58-142		5	11/15/18 08:30	11/16/18 03:18	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-130		5	11/15/18 08:30	11/16/18 03:18	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	18.8	%	0.10	0.10	1		11/15/18 09:22		

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-15 2-4' Lab ID: 40179453011 Collected: 11/09/18 10:30 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:30	11/16/18 02:08	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:30	11/16/18 02:08	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:30	11/16/18 02:08	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:30	11/16/18 02:08	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:30	11/16/18 02:08	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	100-42-5	W

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-15 2-4' Lab ID: 40179453011 Collected: 11/09/18 10:30 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:30	11/16/18 02:08	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:30	11/16/18 02:08	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 02:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-148		1	11/15/18 08:30	11/16/18 02:08	1868-53-7	
Toluene-d8 (S)	106	%	58-142		1	11/15/18 08:30	11/16/18 02:08	2037-26-5	
4-Bromofluorobenzene (S)	101	%	48-130		1	11/15/18 08:30	11/16/18 02:08	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.0	%	0.10	0.10	1		11/15/18 09:22		

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: **SB-15 12-14'** Lab ID: **40179453012** Collected: 11/09/18 10:35 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/15/18 08:30	11/16/18 01:22	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/15/18 08:30	11/16/18 01:22	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/15/18 08:30	11/16/18 01:22	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/15/18 08:30	11/16/18 01:22	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/15/18 08:30	11/16/18 01:22	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Sample: SB-15 12-14' Lab ID: 40179453012 Collected: 11/09/18 10:35 Received: 11/10/18 09:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	79-34-5	W
Tetrachloroethene	173	ug/kg	73.9	30.8	1	11/15/18 08:30	11/16/18 01:22	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/15/18 08:30	11/16/18 01:22	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/15/18 08:30	11/16/18 01:22	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/15/18 08:30	11/16/18 01:22	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	87	%	57-148		1	11/15/18 08:30	11/16/18 01:22	1868-53-7	
Toluene-d8 (S)	88	%	58-142		1	11/15/18 08:30	11/16/18 01:22	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-130		1	11/15/18 08:30	11/16/18 01:22	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	18.8	%	0.10	0.10	1		11/15/18 09:22		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

QC Batch:	306746	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV Med Level Normal List
Associated Lab Samples:	40179453002, 40179453003, 40179453004, 40179453005, 40179453006, 40179453007, 40179453008		

METHOD BLANK:	1793824	Matrix:	Solid
Associated Lab Samples:	40179453002, 40179453003, 40179453004, 40179453005, 40179453006, 40179453007, 40179453008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/15/18 17:06	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/15/18 17:06	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/15/18 17:06	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/15/18 17:06	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/15/18 17:06	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/15/18 17:06	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/15/18 17:06	
1,2,3-Trichlorobenzene	ug/kg	17.0J	50.0	11/15/18 17:06	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/15/18 17:06	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/15/18 17:06	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/15/18 17:06	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/15/18 17:06	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/15/18 17:06	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/15/18 17:06	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/15/18 17:06	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/15/18 17:06	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/15/18 17:06	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/15/18 17:06	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/15/18 17:06	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/15/18 17:06	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/15/18 17:06	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/15/18 17:06	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/15/18 17:06	
Benzene	ug/kg	<9.2	20.0	11/15/18 17:06	
Bromobenzene	ug/kg	<20.6	50.0	11/15/18 17:06	
Bromochloromethane	ug/kg	<21.4	50.0	11/15/18 17:06	
Bromodichloromethane	ug/kg	<9.8	50.0	11/15/18 17:06	
Bromoform	ug/kg	<19.8	50.0	11/15/18 17:06	
Bromomethane	ug/kg	<69.9	250	11/15/18 17:06	1q
Carbon tetrachloride	ug/kg	<12.1	50.0	11/15/18 17:06	
Chlorobenzene	ug/kg	<14.8	50.0	11/15/18 17:06	
Chloroethane	ug/kg	<67.0	250	11/15/18 17:06	1q
Chloroform	ug/kg	<46.4	250	11/15/18 17:06	
Chloromethane	ug/kg	<20.4	50.0	11/15/18 17:06	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/15/18 17:06	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/15/18 17:06	
Dibromochloromethane	ug/kg	<17.9	50.0	11/15/18 17:06	
Dibromomethane	ug/kg	<19.3	50.0	11/15/18 17:06	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/15/18 17:06	
Diisopropyl ether	ug/kg	<17.7	50.0	11/15/18 17:06	
Ethylbenzene	ug/kg	<12.4	50.0	11/15/18 17:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

METHOD BLANK: 1793824

Matrix: Solid

Associated Lab Samples: 40179453002, 40179453003, 40179453004, 40179453005, 40179453006, 40179453007, 40179453008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	11/15/18 17:06	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/15/18 17:06	
m&p-Xylene	ug/kg	<34.4	100	11/15/18 17:06	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/15/18 17:06	
Methylene Chloride	ug/kg	<16.2	50.0	11/15/18 17:06	
n-Butylbenzene	ug/kg	<10.5	50.0	11/15/18 17:06	
n-Propylbenzene	ug/kg	<11.6	50.0	11/15/18 17:06	
Naphthalene	ug/kg	<40.0	250	11/15/18 17:06	
o-Xylene	ug/kg	<14.0	50.0	11/15/18 17:06	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/15/18 17:06	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/15/18 17:06	
Styrene	ug/kg	<9.0	50.0	11/15/18 17:06	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/15/18 17:06	
Tetrachloroethene	ug/kg	<12.9	50.0	11/15/18 17:06	
Toluene	ug/kg	<11.2	50.0	11/15/18 17:06	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/15/18 17:06	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/15/18 17:06	
Trichloroethene	ug/kg	<23.6	50.0	11/15/18 17:06	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/15/18 17:06	
Vinyl chloride	ug/kg	<21.1	50.0	11/15/18 17:06	
4-Bromofluorobenzene (S)	%	81	48-130	11/15/18 17:06	
Dibromofluoromethane (S)	%	108	57-148	11/15/18 17:06	
Toluene-d8 (S)	%	110	58-142	11/15/18 17:06	

LABORATORY CONTROL SAMPLE: 1793825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2410	96	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2710	108	68-130	
1,1,2-Trichloroethane	ug/kg	2500	2730	109	70-130	
1,1-Dichloroethane	ug/kg	2500	2660	106	67-132	
1,1-Dichloroethene	ug/kg	2500	3000	120	67-128	
1,2,4-Trichlorobenzene	ug/kg	2500	2190	88	51-131	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1910	76	49-117	
1,2-Dibromoethane (EDB)	ug/kg	2500	2750	110	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2660	106	70-130	
1,2-Dichloroethane	ug/kg	2500	2470	99	65-137	
1,2-Dichloropropane	ug/kg	2500	2560	103	75-126	
1,3-Dichlorobenzene	ug/kg	2500	2560	103	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2480	99	70-130	
Benzene	ug/kg	2500	2810	112	70-130	
Bromodichloromethane	ug/kg	2500	2320	93	70-130	
Bromoform	ug/kg	2500	2170	87	57-117	
Bromomethane	ug/kg	2500	4230	169	48-135	1q,L1

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

LABORATORY CONTROL SAMPLE: 1793825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2440	97	65-133	
Chlorobenzene	ug/kg	2500	2780	111	70-130	
Chloroethane	ug/kg	2500	5310	212	37-165	1q,L1
Chloroform	ug/kg	2500	2540	102	72-126	
Chloromethane	ug/kg	2500	2000	80	34-120	
cis-1,2-Dichloroethene	ug/kg	2500	2680	107	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2310	92	69-130	
Dibromochloromethane	ug/kg	2500	2570	103	68-130	
Dichlorodifluoromethane	ug/kg	2500	1700	68	22-100	
Ethylbenzene	ug/kg	2500	2610	104	79-121	
Isopropylbenzene (Cumene)	ug/kg	2500	2480	99	70-130	
m&p-Xylene	ug/kg	5000	5440	109	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2240	89	66-129	
Methylene Chloride	ug/kg	2500	2840	113	68-129	
o-Xylene	ug/kg	2500	2690	108	70-130	
Styrene	ug/kg	2500	2740	110	70-130	
Tetrachloroethene	ug/kg	2500	2680	107	70-130	
Toluene	ug/kg	2500	2740	110	80-123	
trans-1,2-Dichloroethene	ug/kg	2500	2600	104	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2330	93	67-130	
Trichloroethene	ug/kg	2500	2510	100	70-130	
Trichlorofluoromethane	ug/kg	2500	3070	123	64-134	
Vinyl chloride	ug/kg	2500	2400	96	52-122	
4-Bromofluorobenzene (S)	%			86	48-130	
Dibromofluoromethane (S)	%			110	57-148	
Toluene-d8 (S)	%			112	58-142	

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK
Pace Project No.: 40179453

QC Batch: 306757 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40179453001, 40179453009, 40179453010, 40179453011, 40179453012

METHOD BLANK: 1793913 Matrix: Solid
Associated Lab Samples: 40179453001, 40179453009, 40179453010, 40179453011, 40179453012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/15/18 17:39	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/15/18 17:39	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/15/18 17:39	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/15/18 17:39	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/15/18 17:39	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/15/18 17:39	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/15/18 17:39	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	11/15/18 17:39	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/15/18 17:39	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/15/18 17:39	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/15/18 17:39	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/15/18 17:39	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/15/18 17:39	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/15/18 17:39	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/15/18 17:39	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/15/18 17:39	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/15/18 17:39	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/15/18 17:39	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/15/18 17:39	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/15/18 17:39	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/15/18 17:39	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/15/18 17:39	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/15/18 17:39	
Benzene	ug/kg	<9.2	20.0	11/15/18 17:39	
Bromobenzene	ug/kg	<20.6	50.0	11/15/18 17:39	
Bromochloromethane	ug/kg	<21.4	50.0	11/15/18 17:39	
Bromodichloromethane	ug/kg	<9.8	50.0	11/15/18 17:39	
Bromoform	ug/kg	<19.8	50.0	11/15/18 17:39	
Bromomethane	ug/kg	<69.9	250	11/15/18 17:39	
Carbon tetrachloride	ug/kg	<12.1	50.0	11/15/18 17:39	
Chlorobenzene	ug/kg	<14.8	50.0	11/15/18 17:39	
Chloroethane	ug/kg	<67.0	250	11/15/18 17:39	
Chloroform	ug/kg	<46.4	250	11/15/18 17:39	
Chloromethane	ug/kg	<20.4	50.0	11/15/18 17:39	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/15/18 17:39	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/15/18 17:39	
Dibromochloromethane	ug/kg	<17.9	50.0	11/15/18 17:39	
Dibromomethane	ug/kg	<19.3	50.0	11/15/18 17:39	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/15/18 17:39	
Diisopropyl ether	ug/kg	<17.7	50.0	11/15/18 17:39	
Ethylbenzene	ug/kg	<12.4	50.0	11/15/18 17:39	

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

METHOD BLANK: 1793913

Matrix: Solid

Associated Lab Samples: 40179453001, 40179453009, 40179453010, 40179453011, 40179453012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	11/15/18 17:39	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/15/18 17:39	
m&p-Xylene	ug/kg	<34.4	100	11/15/18 17:39	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/15/18 17:39	
Methylene Chloride	ug/kg	<16.2	50.0	11/15/18 17:39	
n-Butylbenzene	ug/kg	<10.5	50.0	11/15/18 17:39	
n-Propylbenzene	ug/kg	<11.6	50.0	11/15/18 17:39	
Naphthalene	ug/kg	<40.0	250	11/15/18 17:39	
o-Xylene	ug/kg	<14.0	50.0	11/15/18 17:39	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/15/18 17:39	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/15/18 17:39	
Styrene	ug/kg	<9.0	50.0	11/15/18 17:39	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/15/18 17:39	
Tetrachloroethene	ug/kg	<12.9	50.0	11/15/18 17:39	
Toluene	ug/kg	<11.2	50.0	11/15/18 17:39	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/15/18 17:39	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/15/18 17:39	
Trichloroethene	ug/kg	<23.6	50.0	11/15/18 17:39	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/15/18 17:39	
Vinyl chloride	ug/kg	<21.1	50.0	11/15/18 17:39	
4-Bromofluorobenzene (S)	%	85	48-130	11/15/18 17:39	
Dibromofluoromethane (S)	%	93	57-148	11/15/18 17:39	
Toluene-d8 (S)	%	95	58-142	11/15/18 17:39	

LABORATORY CONTROL SAMPLE: 1793914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2450	98	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2470	99	68-130	
1,1,2-Trichloroethane	ug/kg	2500	2390	95	70-130	
1,1-Dichloroethane	ug/kg	2500	2540	102	67-132	
1,1-Dichloroethene	ug/kg	2500	2430	97	67-128	
1,2,4-Trichlorobenzene	ug/kg	2500	2100	84	51-131	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2150	86	49-117	
1,2-Dibromoethane (EDB)	ug/kg	2500	2300	92	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2260	90	70-130	
1,2-Dichloroethane	ug/kg	2500	2670	107	65-137	
1,2-Dichloropropane	ug/kg	2500	2360	94	75-126	
1,3-Dichlorobenzene	ug/kg	2500	2310	92	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2300	92	70-130	
Benzene	ug/kg	2500	2630	105	70-130	
Bromodichloromethane	ug/kg	2500	2560	102	70-130	
Bromoform	ug/kg	2500	1780	71	57-117	
Bromomethane	ug/kg	2500	2350	94	48-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

LABORATORY CONTROL SAMPLE: 1793914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2360	95	65-133	
Chlorobenzene	ug/kg	2500	2290	92	70-130	
Chloroethane	ug/kg	2500	2250	90	37-165	
Chloroform	ug/kg	2500	2630	105	72-126	
Chloromethane	ug/kg	2500	1580	63	34-120	
cis-1,2-Dichloroethene	ug/kg	2500	2230	89	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2350	94	69-130	
Dibromochloromethane	ug/kg	2500	2220	89	68-130	
Dichlorodifluoromethane	ug/kg	2500	1750	70	22-100	
Ethylbenzene	ug/kg	2500	2310	93	79-121	
Isopropylbenzene (Cumene)	ug/kg	2500	2220	89	70-130	
m&p-Xylene	ug/kg	5000	4670	93	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2480	99	66-129	
Methylene Chloride	ug/kg	2500	2280	91	68-129	
o-Xylene	ug/kg	2500	2250	90	70-130	
Styrene	ug/kg	2500	2420	97	70-130	
Tetrachloroethene	ug/kg	2500	2240	89	70-130	
Toluene	ug/kg	2500	2380	95	80-123	
trans-1,2-Dichloroethene	ug/kg	2500	2340	94	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2190	87	67-130	
Trichloroethene	ug/kg	2500	2780	111	70-130	
Trichlorofluoromethane	ug/kg	2500	2640	106	64-134	
Vinyl chloride	ug/kg	2500	2150	86	52-122	
4-Bromofluorobenzene (S)	%			98	48-130	
Dibromofluoromethane (S)	%			93	57-148	
Toluene-d8 (S)	%			95	58-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1793915 1793916

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40179453001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/kg	<25.0	1480	1480	1510	1520	102	103	62-130	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1480	1480	1670	1650	113	111	64-137	2	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1480	1480	1590	1560	107	105	70-130	2	20	
1,1-Dichloroethane	ug/kg	<25.0	1480	1480	1500	1520	101	103	65-132	1	20	
1,1-Dichloroethene	ug/kg	<25.0	1480	1480	1290	1310	87	88	50-128	1	21	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1480	1480	1440	1440	97	97	51-148	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1480	1480	1300	1680	88	113	43-134	25	23	R1
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1480	1480	1540	1360	104	92	70-130	13	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1480	1480	1530	1540	103	104	70-130	1	20	
1,2-Dichloroethane	ug/kg	<25.0	1480	1480	1800	1790	122	121	65-139	0	20	
1,2-Dichloropropane	ug/kg	<25.0	1480	1480	1470	1460	99	98	74-128	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1480	1480	1530	1590	103	108	70-130	4	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1480	1480	1600	1600	108	108	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

Parameter	Units	40179453001		1793915		1793916		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/kg	<25.0	1480	1480	1610	1590	109	107	66-132	1	20		
Bromodichloromethane	ug/kg	<25.0	1480	1480	1540	1580	104	107	69-130	3	20		
Bromoform	ug/kg	<25.0	1480	1480	1210	1060	82	71	57-130	13	20		
Bromomethane	ug/kg	<69.9	1480	1480	1500	1370	102	93	34-145	9	20		
Carbon tetrachloride	ug/kg	<25.0	1480	1480	1330	1260	90	85	54-133	5	20		
Chlorobenzene	ug/kg	<25.0	1480	1480	1550	1440	105	97	70-130	8	20		
Chloroethane	ug/kg	<67.0	1480	1480	1310	1250	88	85	33-165	4	20		
Chloroform	ug/kg	<46.4	1480	1480	1710	1630	115	110	72-128	5	20		
Chloromethane	ug/kg	<25.0	1480	1480	939	904	63	61	20-120	4	20		
cis-1,2-Dichloroethene	ug/kg	<25.0	1480	1480	1360	1480	92	100	69-130	8	20		
cis-1,3-Dichloropropene	ug/kg	<25.0	1480	1480	1390	1390	94	94	65-130	0	20		
Dibromochloromethane	ug/kg	<25.0	1480	1480	1340	1330	90	90	65-130	1	20		
Dichlorodifluoromethane	ug/kg	<25.0	1480	1480	994	947	67	64	10-109	5	29		
Ethylbenzene	ug/kg	<25.0	1480	1480	1520	1350	102	91	63-127	12	20		
Isopropylbenzene (Cumene)	ug/kg	<25.0	1480	1480	1440	1280	97	87	66-130	12	20		
m&p-Xylene	ug/kg	<50.0	2960	2960	3060	2790	103	94	70-130	9	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1480	1480	1610	1640	109	111	62-135	2	20		
Methylene Chloride	ug/kg	<25.0	1480	1480	1440	1370	97	92	68-129	5	20		
o-Xylene	ug/kg	<25.0	1480	1480	1430	1350	97	91	69-130	6	20		
Styrene	ug/kg	<25.0	1480	1480	1500	1420	101	96	70-130	5	20		
Tetrachloroethene	ug/kg	<25.0	1480	1480	1470	1280	99	87	70-130	14	20		
Toluene	ug/kg	<25.0	1480	1480	1590	1400	108	95	80-123	13	20		
trans-1,2-Dichloroethene	ug/kg	<25.0	1480	1480	1480	1430	100	96	70-130	3	20		
trans-1,3-Dichloropropene	ug/kg	<25.0	1480	1480	1370	1390	93	94	67-130	1	20		
Trichloroethene	ug/kg	<25.0	1480	1480	1590	1550	107	105	70-130	2	20		
Trichlorofluoromethane	ug/kg	<25.0	1480	1480	1530	1390	103	94	41-134	10	26		
Vinyl chloride	ug/kg	<25.0	1480	1480	1120	1050	76	71	39-122	7	20		
4-Bromofluorobenzene (S)	%						99	92	48-130				
Dibromofluoromethane (S)	%						97	98	57-148				
Toluene-d8 (S)	%						100	89	58-142				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

QC Batch:	306700	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40179453001, 40179453002, 40179453003, 40179453004, 40179453005, 40179453006, 40179453007, 40179453008, 40179453009, 40179453010, 40179453011, 40179453012		

SAMPLE DUPLICATE: 1793567

Parameter	Units	40179453008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.6	19.0	3	10	

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QUALIFIERS

Project: 631224187 REDI-QUICK

Pace Project No.: 40179453

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 631224187 REDI-QUICK
Pace Project No.: 40179453

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40179453001	SB-10 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179453002	SB-10 12-14'	EPA 5035/5030B	306746	EPA 8260	306752
40179453003	SB-11 2-4'	EPA 5035/5030B	306746	EPA 8260	306752
40179453004	SB-11 10-12'	EPA 5035/5030B	306746	EPA 8260	306752
40179453005	SB-12 2-4'	EPA 5035/5030B	306746	EPA 8260	306752
40179453006	SB-12 10-12'	EPA 5035/5030B	306746	EPA 8260	306752
40179453007	SB-13 2-4'	EPA 5035/5030B	306746	EPA 8260	306752
40179453008	SB-13 12-14'	EPA 5035/5030B	306746	EPA 8260	306752
40179453009	SB-14 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179453010	SB-14 12-14'	EPA 5035/5030B	306757	EPA 8260	306759
40179453011	SB-15 2-4'	EPA 5035/5030B	306757	EPA 8260	306759
40179453012	SB-15 12-14'	EPA 5035/5030B	306757	EPA 8260	306759
40179453001	SB-10 2-4'	ASTM D2974-87	306700		
40179453002	SB-10 12-14'	ASTM D2974-87	306700		
40179453003	SB-11 2-4'	ASTM D2974-87	306700		
40179453004	SB-11 10-12'	ASTM D2974-87	306700		
40179453005	SB-12 2-4'	ASTM D2974-87	306700		
40179453006	SB-12 10-12'	ASTM D2974-87	306700		
40179453007	SB-13 2-4'	ASTM D2974-87	306700		
40179453008	SB-13 12-14'	ASTM D2974-87	306700		
40179453009	SB-14 2-4'	ASTM D2974-87	306700		
40179453010	SB-14 12-14'	ASTM D2974-87	306700		
40179453011	SB-15 2-4'	ASTM D2974-87	306700		
40179453012	SB-15 12-14'	ASTM D2974-87	306700		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **APTIM**
 Branch/Location: **WI**
 Project Contact: **Mark Finney**
 Phone: **913-317-3591**
 Project Number: **631224187**
 Project Name: **Reedi - Quick**
 Project State: **WI**
 Sampled By (Print): **Jared Schmidt**
 Sampled By (Sign): *[Signature]*
 PO #:



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

40179453

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

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

Y/N	Pick Letter	Analysis Requested
	F	SVOC

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

Please analyze for SVOC only regardless of what is written on list.

Analyze for VOCs per Mark F. 11/13/18

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		MATRIX
		DATE	TIME	
001	SB-10 2-4'	11/9/18	855	S
003	SB-10 12-14'	11/9/18	900	S
003	SB-11 2-4'	11/9/18	920	S
004	SB-11 10-12'	11/9/18	925	S
005	SB-12 2-4'	11/9/18	940	S
004	SB-12 10-12'	11/9/18	945	S
007	SB-13 2-4'	11/9/18	1000	S
008	SB-13 12-14'	11/9/18	1005	S
009	SB-14 2-4'	11/9/18	1015	S
010	SB-14 12-14'	11/9/18	1020	S
011	SB-15 2-4'	11/9/18	1030	S
012	SB-15 12-14'	11/9/18	1035	S

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

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

Relinquished By: *[Signature]* Date/Time: 11/10/18 0905
 Relinquished By: _____ Date/Time: _____

Received By: *[Signature]* Date/Time: 11/10/18 0905
 Received By: _____ Date/Time: _____

PACE Project No. 40179453

Receipt Temp = **ROD** °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

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

Sample Preservation Receipt Form

Client Name: APTIM

Project # 40179453

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

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

Initial when completed:

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	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN	
001																																		2.5 / 5 / 10
002																																		2.5 / 5 / 10
003																																		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
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

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:	

Sample Condition Upon Receipt Form (SCUR)

Client Name: ADTIM

Project # _____
WO#: 40179453

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____

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: 15.2 ICorr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
Date: 11/10/18
Initials: _____

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg 11, multo, mobile</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>11/10/18</u>
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 11/12/18

November 15, 2018

Mark Finney
APTIM
8725 Rosehill Road
Suite 450
Lenexa, KS 66215

RE: Project: 631224187 REDI QUICK
Pace Project No.: 40179454

Dear Mark Finney:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2018. 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@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jared Schmidt, APTIM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40179454001	MW-2	Water	11/08/18 12:05	11/10/18 09:05
40179454002	MW-4	Water	11/08/18 11:10	11/10/18 09:05
40179454003	MW-10	Water	11/08/18 15:10	11/10/18 09:05
40179454004	MW-11	Water	11/08/18 13:10	11/10/18 09:05
40179454005	MW-12	Water	11/08/18 17:10	11/10/18 09:05
40179454006	MW-13	Water	11/08/18 14:10	11/10/18 09:05
40179454007	MW-14	Water	11/08/18 16:30	11/10/18 09:05
40179454008	MW-21	Water	11/08/18 13:40	11/10/18 09:05
40179454009	PZ-10	Water	11/08/18 14:45	11/10/18 09:05
40179454010	PZ-20	Water	11/08/18 15:50	11/10/18 09:05
40179454011	MW-140	Water	11/08/18 16:50	11/10/18 09:05
40179454012	TRIP BLANK	Water	11/08/18 00:00	11/10/18 09:05

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SAMPLE ANALYTE COUNT

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40179454001	MW-2	EPA 8260	LAP	64	PASI-G
40179454002	MW-4	EPA 8260	LAP	64	PASI-G
40179454003	MW-10	EPA 8260	LAP	64	PASI-G
40179454004	MW-11	EPA 8260	LAP	64	PASI-G
40179454005	MW-12	EPA 8260	LAP	64	PASI-G
40179454006	MW-13	EPA 8260	LAP	64	PASI-G
40179454007	MW-14	EPA 8260	LAP	64	PASI-G
40179454008	MW-21	EPA 8260	LAP	64	PASI-G
40179454009	PZ-10	EPA 8260	LAP	64	PASI-G
40179454010	PZ-20	EPA 8260	LAP	64	PASI-G
40179454011	MW-140	EPA 8260	LAP	64	PASI-G
40179454012	TRIP BLANK	EPA 8260	LAP	64	PASI-G

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SUMMARY OF DETECTION

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40179454002	MW-4					
EPA 8260	cis-1,2-Dichloroethene	0.51J	ug/L	1.0	11/14/18 16:03	
EPA 8260	Tetrachloroethene	5.2	ug/L	1.1	11/14/18 16:03	
EPA 8260	Trichloroethene	1.3	ug/L	1.0	11/14/18 16:03	
40179454003	MW-10					
EPA 8260	cis-1,2-Dichloroethene	196	ug/L	5.0	11/14/18 18:59	
EPA 8260	trans-1,2-Dichloroethene	83.7	ug/L	18.2	11/14/18 18:59	
EPA 8260	Vinyl chloride	200	ug/L	5.0	11/14/18 18:59	
40179454005	MW-12					
EPA 8260	cis-1,2-Dichloroethene	43.3	ug/L	1.0	11/14/18 17:53	
EPA 8260	trans-1,2-Dichloroethene	3.6J	ug/L	3.6	11/14/18 17:53	
EPA 8260	Tetrachloroethene	0.78J	ug/L	1.1	11/14/18 17:53	
EPA 8260	Trichloroethene	0.28J	ug/L	1.0	11/14/18 17:53	
EPA 8260	Vinyl chloride	1.3	ug/L	1.0	11/14/18 17:53	
40179454007	MW-14					
EPA 8260	cis-1,2-Dichloroethene	0.94J	ug/L	1.0	11/14/18 18:15	
EPA 8260	trans-1,2-Dichloroethene	1.2J	ug/L	3.6	11/14/18 18:15	
EPA 8260	Vinyl chloride	0.28J	ug/L	1.0	11/14/18 18:15	
40179454009	PZ-10					
EPA 8260	Tetrachloroethene	12.8	ug/L	1.1	11/14/18 16:47	
EPA 8260	Trichloroethene	0.43J	ug/L	1.0	11/14/18 16:47	
40179454010	PZ-20					
EPA 8260	cis-1,2-Dichloroethene	15.3	ug/L	1.0	11/14/18 17:09	
EPA 8260	trans-1,2-Dichloroethene	1.1J	ug/L	3.6	11/14/18 17:09	
EPA 8260	Tetrachloroethene	29.8	ug/L	1.1	11/14/18 17:09	
EPA 8260	Trichloroethene	9.2	ug/L	1.0	11/14/18 17:09	
40179454011	MW-140					
EPA 8260	cis-1,2-Dichloroethene	1.1	ug/L	1.0	11/14/18 18:37	
EPA 8260	trans-1,2-Dichloroethene	1.5J	ug/L	3.6	11/14/18 18:37	
EPA 8260	Vinyl chloride	0.36J	ug/L	1.0	11/14/18 18:37	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-2 **Lab ID: 40179454001** Collected: 11/08/18 12:05 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 17:31	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 17:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 17:31	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 17:31	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 17:31	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 17:31	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:31	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 17:31	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 17:31	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 17:31	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:31	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 17:31	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 17:31	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 17:31	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 17:31	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 17:31	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 17:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 17:31	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 17:31	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:31	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 17:31	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 17:31	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 17:31	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 17:31	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:31	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 17:31	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/14/18 17:31	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/14/18 17:31	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:31	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 17:31	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 17:31	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 17:31	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 17:31	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 17:31	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 17:31	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 17:31	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 17:31	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 17:31	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 17:31	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 17:31	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 17:31	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 17:31	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 17:31	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 17:31	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-2 **Lab ID: 40179454001** Collected: 11/08/18 12:05 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:31	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/14/18 17:31	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 17:31	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 17:31	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 17:31	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 17:31	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 17:31	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/14/18 17:31	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 17:31	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 17:31	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 17:31	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 17:31	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 17:31	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 17:31	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 17:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/14/18 17:31	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/14/18 17:31	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/14/18 17:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-4 **Lab ID: 40179454002** Collected: 11/08/18 11:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 16:03	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 16:03	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 16:03	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 16:03	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 16:03	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 16:03	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:03	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 16:03	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 16:03	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 16:03	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:03	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 16:03	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 16:03	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 16:03	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 16:03	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 16:03	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 16:03	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 16:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 16:03	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 16:03	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:03	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 16:03	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 16:03	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 16:03	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 16:03	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:03	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 16:03	75-35-4	
cis-1,2-Dichloroethene	0.51J	ug/L	1.0	0.27	1		11/14/18 16:03	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/14/18 16:03	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:03	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 16:03	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 16:03	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 16:03	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 16:03	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 16:03	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 16:03	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 16:03	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 16:03	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 16:03	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 16:03	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 16:03	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 16:03	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 16:03	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 16:03	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 16:03	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 16:03	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-4 **Lab ID: 40179454002** Collected: 11/08/18 11:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:03	79-34-5	
Tetrachloroethene	5.2	ug/L	1.1	0.33	1		11/14/18 16:03	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 16:03	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 16:03	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 16:03	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 16:03	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 16:03	79-00-5	
Trichloroethene	1.3	ug/L	1.0	0.26	1		11/14/18 16:03	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 16:03	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 16:03	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 16:03	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 16:03	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 16:03	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 16:03	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 16:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/14/18 16:03	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/14/18 16:03	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		11/14/18 16:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-10 **Lab ID: 40179454003** Collected: 11/08/18 15:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<1.2	ug/L	5.0	1.2	5		11/14/18 18:59	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		11/14/18 18:59	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		11/14/18 18:59	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		11/14/18 18:59	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		11/14/18 18:59	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		11/14/18 18:59	74-83-9	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		11/14/18 18:59	104-51-8	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		11/14/18 18:59	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		11/14/18 18:59	98-06-6	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		11/14/18 18:59	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		11/14/18 18:59	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		11/14/18 18:59	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		11/14/18 18:59	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		11/14/18 18:59	74-87-3	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		11/14/18 18:59	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		11/14/18 18:59	106-43-4	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		11/14/18 18:59	96-12-8	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		11/14/18 18:59	124-48-1	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		11/14/18 18:59	106-93-4	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		11/14/18 18:59	74-95-3	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		11/14/18 18:59	95-50-1	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		11/14/18 18:59	541-73-1	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		11/14/18 18:59	106-46-7	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		11/14/18 18:59	75-71-8	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/14/18 18:59	75-34-3	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/14/18 18:59	107-06-2	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		11/14/18 18:59	75-35-4	
cis-1,2-Dichloroethene	196	ug/L	5.0	1.4	5		11/14/18 18:59	156-59-2	
trans-1,2-Dichloroethene	83.7	ug/L	18.2	5.5	5		11/14/18 18:59	156-60-5	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		11/14/18 18:59	78-87-5	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		11/14/18 18:59	142-28-9	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		11/14/18 18:59	594-20-7	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		11/14/18 18:59	563-58-6	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		11/14/18 18:59	10061-01-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		11/14/18 18:59	10061-02-6	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		11/14/18 18:59	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		11/14/18 18:59	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		11/14/18 18:59	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		11/14/18 18:59	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		11/14/18 18:59	99-87-6	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		11/14/18 18:59	75-09-2	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		11/14/18 18:59	1634-04-4	
Naphthalene	<5.9	ug/L	25.0	5.9	5		11/14/18 18:59	91-20-3	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		11/14/18 18:59	103-65-1	
Styrene	<2.3	ug/L	7.8	2.3	5		11/14/18 18:59	100-42-5	
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		11/14/18 18:59	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-10 **Lab ID: 40179454003** Collected: 11/08/18 15:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		11/14/18 18:59	79-34-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		11/14/18 18:59	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		11/14/18 18:59	108-88-3	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		11/14/18 18:59	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		11/14/18 18:59	120-82-1	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		11/14/18 18:59	71-55-6	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		11/14/18 18:59	79-00-5	
Trichloroethene	<1.3	ug/L	5.0	1.3	5		11/14/18 18:59	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		11/14/18 18:59	75-69-4	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		11/14/18 18:59	96-18-4	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		11/14/18 18:59	95-63-6	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		11/14/18 18:59	108-67-8	
Vinyl chloride	200	ug/L	5.0	0.87	5		11/14/18 18:59	75-01-4	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		11/14/18 18:59	179601-23-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		11/14/18 18:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		5		11/14/18 18:59	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		5		11/14/18 18:59	1868-53-7	
Toluene-d8 (S)	103	%	70-130		5		11/14/18 18:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-11 **Lab ID: 40179454004** Collected: 11/08/18 13:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 16:25	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 16:25	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 16:25	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 16:25	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 16:25	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 16:25	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:25	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 16:25	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 16:25	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 16:25	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:25	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 16:25	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 16:25	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 16:25	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 16:25	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 16:25	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 16:25	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 16:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 16:25	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 16:25	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:25	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 16:25	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 16:25	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 16:25	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 16:25	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:25	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 16:25	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/14/18 16:25	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/14/18 16:25	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:25	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 16:25	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 16:25	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 16:25	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 16:25	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 16:25	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 16:25	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 16:25	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 16:25	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 16:25	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 16:25	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 16:25	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 16:25	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 16:25	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 16:25	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 16:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 16:25	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-11 **Lab ID: 40179454004** Collected: 11/08/18 13:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:25	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/14/18 16:25	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 16:25	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 16:25	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 16:25	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 16:25	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 16:25	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/14/18 16:25	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 16:25	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 16:25	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 16:25	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 16:25	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 16:25	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 16:25	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 16:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/14/18 16:25	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/14/18 16:25	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/14/18 16:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-12 **Lab ID: 40179454005** Collected: 11/08/18 17:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 17:53	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 17:53	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 17:53	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 17:53	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 17:53	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 17:53	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:53	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 17:53	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 17:53	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 17:53	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:53	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 17:53	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 17:53	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 17:53	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 17:53	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 17:53	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 17:53	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 17:53	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 17:53	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 17:53	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:53	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 17:53	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 17:53	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 17:53	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 17:53	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:53	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 17:53	75-35-4	
cis-1,2-Dichloroethene	43.3	ug/L	1.0	0.27	1		11/14/18 17:53	156-59-2	
trans-1,2-Dichloroethene	3.6J	ug/L	3.6	1.1	1		11/14/18 17:53	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:53	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 17:53	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 17:53	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 17:53	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 17:53	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 17:53	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 17:53	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 17:53	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 17:53	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 17:53	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 17:53	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 17:53	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 17:53	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 17:53	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 17:53	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 17:53	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 17:53	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-12 **Lab ID: 40179454005** Collected: 11/08/18 17:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:53	79-34-5	
Tetrachloroethene	0.78J	ug/L	1.1	0.33	1		11/14/18 17:53	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 17:53	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 17:53	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 17:53	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 17:53	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 17:53	79-00-5	
Trichloroethene	0.28J	ug/L	1.0	0.26	1		11/14/18 17:53	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 17:53	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 17:53	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 17:53	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 17:53	108-67-8	
Vinyl chloride	1.3	ug/L	1.0	0.17	1		11/14/18 17:53	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 17:53	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 17:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/14/18 17:53	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/14/18 17:53	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 17:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-13 **Lab ID: 40179454006** Collected: 11/08/18 14:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/15/18 08:09	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/15/18 08:09	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/15/18 08:09	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/15/18 08:09	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/15/18 08:09	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/15/18 08:09	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/15/18 08:09	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/15/18 08:09	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/15/18 08:09	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/15/18 08:09	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/15/18 08:09	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/15/18 08:09	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/15/18 08:09	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/15/18 08:09	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/15/18 08:09	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/15/18 08:09	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/15/18 08:09	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/15/18 08:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/15/18 08:09	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/15/18 08:09	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/15/18 08:09	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/15/18 08:09	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/15/18 08:09	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/15/18 08:09	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/15/18 08:09	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/15/18 08:09	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/15/18 08:09	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/15/18 08:09	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/15/18 08:09	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/15/18 08:09	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/15/18 08:09	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/15/18 08:09	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/15/18 08:09	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/15/18 08:09	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/15/18 08:09	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/15/18 08:09	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/15/18 08:09	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/15/18 08:09	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/15/18 08:09	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/15/18 08:09	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/15/18 08:09	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/15/18 08:09	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/15/18 08:09	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/15/18 08:09	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/15/18 08:09	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/15/18 08:09	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-13 **Lab ID: 40179454006** Collected: 11/08/18 14:10 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/15/18 08:09	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/15/18 08:09	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/15/18 08:09	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/15/18 08:09	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/15/18 08:09	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/15/18 08:09	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/15/18 08:09	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/15/18 08:09	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/15/18 08:09	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/15/18 08:09	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/15/18 08:09	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/15/18 08:09	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/15/18 08:09	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/15/18 08:09	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/15/18 08:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/15/18 08:09	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/15/18 08:09	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/15/18 08:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-14 **Lab ID: 40179454007** Collected: 11/08/18 16:30 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 18:15	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 18:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 18:15	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 18:15	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 18:15	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 18:15	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 18:15	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 18:15	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 18:15	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 18:15	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 18:15	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 18:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 18:15	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 18:15	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 18:15	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 18:15	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 18:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 18:15	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 18:15	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 18:15	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 18:15	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 18:15	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 18:15	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 18:15	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 18:15	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 18:15	75-35-4	
cis-1,2-Dichloroethene	0.94J	ug/L	1.0	0.27	1		11/14/18 18:15	156-59-2	
trans-1,2-Dichloroethene	1.2J	ug/L	3.6	1.1	1		11/14/18 18:15	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 18:15	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 18:15	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 18:15	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 18:15	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 18:15	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 18:15	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 18:15	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 18:15	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 18:15	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 18:15	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 18:15	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 18:15	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 18:15	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 18:15	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 18:15	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 18:15	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-14 **Lab ID: 40179454007** Collected: 11/08/18 16:30 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 18:15	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/14/18 18:15	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 18:15	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 18:15	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 18:15	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 18:15	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 18:15	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/14/18 18:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 18:15	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 18:15	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 18:15	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 18:15	108-67-8	
Vinyl chloride	0.28J	ug/L	1.0	0.17	1		11/14/18 18:15	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 18:15	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 18:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/14/18 18:15	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/14/18 18:15	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		11/14/18 18:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-21 **Lab ID: 40179454008** Collected: 11/08/18 13:40 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 14:57	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 14:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 14:57	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 14:57	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 14:57	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 14:57	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 14:57	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 14:57	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 14:57	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 14:57	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 14:57	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 14:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 14:57	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 14:57	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 14:57	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 14:57	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 14:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 14:57	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 14:57	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 14:57	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 14:57	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 14:57	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 14:57	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 14:57	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 14:57	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 14:57	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/14/18 14:57	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/14/18 14:57	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 14:57	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 14:57	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 14:57	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 14:57	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 14:57	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 14:57	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 14:57	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 14:57	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 14:57	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 14:57	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 14:57	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 14:57	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 14:57	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 14:57	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 14:57	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 14:57	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-21 **Lab ID: 40179454008** Collected: 11/08/18 13:40 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 14:57	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/14/18 14:57	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 14:57	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 14:57	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 14:57	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 14:57	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 14:57	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/14/18 14:57	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 14:57	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 14:57	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 14:57	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 14:57	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 14:57	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 14:57	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 14:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/14/18 14:57	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/14/18 14:57	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 14:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: PZ-10 **Lab ID: 40179454009** Collected: 11/08/18 14:45 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 16:47	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 16:47	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 16:47	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 16:47	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 16:47	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 16:47	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:47	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 16:47	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 16:47	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 16:47	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:47	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 16:47	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 16:47	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 16:47	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 16:47	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 16:47	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 16:47	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 16:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 16:47	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 16:47	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 16:47	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 16:47	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 16:47	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 16:47	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 16:47	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:47	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 16:47	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/14/18 16:47	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/14/18 16:47	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:47	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 16:47	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 16:47	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 16:47	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 16:47	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 16:47	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 16:47	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 16:47	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 16:47	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 16:47	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 16:47	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 16:47	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 16:47	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 16:47	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 16:47	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 16:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 16:47	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: PZ-10 **Lab ID: 40179454009** Collected: 11/08/18 14:45 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 16:47	79-34-5	
Tetrachloroethene	12.8	ug/L	1.1	0.33	1		11/14/18 16:47	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 16:47	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 16:47	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 16:47	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 16:47	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 16:47	79-00-5	
Trichloroethene	0.43J	ug/L	1.0	0.26	1		11/14/18 16:47	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 16:47	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 16:47	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 16:47	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 16:47	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 16:47	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 16:47	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 16:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/14/18 16:47	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/14/18 16:47	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/14/18 16:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: PZ-20 **Lab ID: 40179454010** Collected: 11/08/18 15:50 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 17:09	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 17:09	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 17:09	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 17:09	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 17:09	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 17:09	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:09	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 17:09	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 17:09	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 17:09	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:09	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 17:09	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 17:09	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 17:09	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 17:09	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 17:09	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 17:09	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 17:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 17:09	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 17:09	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 17:09	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 17:09	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 17:09	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 17:09	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 17:09	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:09	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 17:09	75-35-4	
cis-1,2-Dichloroethene	15.3	ug/L	1.0	0.27	1		11/14/18 17:09	156-59-2	
trans-1,2-Dichloroethene	1.1J	ug/L	3.6	1.1	1		11/14/18 17:09	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:09	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 17:09	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 17:09	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 17:09	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 17:09	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 17:09	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 17:09	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 17:09	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 17:09	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 17:09	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 17:09	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 17:09	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 17:09	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 17:09	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 17:09	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 17:09	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: PZ-20 **Lab ID: 40179454010** Collected: 11/08/18 15:50 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 17:09	79-34-5	
Tetrachloroethene	29.8	ug/L	1.1	0.33	1		11/14/18 17:09	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 17:09	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 17:09	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 17:09	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 17:09	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 17:09	79-00-5	
Trichloroethene	9.2	ug/L	1.0	0.26	1		11/14/18 17:09	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 17:09	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 17:09	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 17:09	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 17:09	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 17:09	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 17:09	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 17:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/14/18 17:09	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/14/18 17:09	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		11/14/18 17:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-140 **Lab ID: 40179454011** Collected: 11/08/18 16:50 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 18:37	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 18:37	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 18:37	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 18:37	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 18:37	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 18:37	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 18:37	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 18:37	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 18:37	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 18:37	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 18:37	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 18:37	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 18:37	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 18:37	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 18:37	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 18:37	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 18:37	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 18:37	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 18:37	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 18:37	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 18:37	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 18:37	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 18:37	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 18:37	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 18:37	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 18:37	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 18:37	75-35-4	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.27	1		11/14/18 18:37	156-59-2	
trans-1,2-Dichloroethene	1.5J	ug/L	3.6	1.1	1		11/14/18 18:37	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 18:37	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 18:37	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 18:37	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 18:37	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 18:37	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 18:37	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 18:37	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 18:37	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 18:37	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 18:37	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 18:37	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 18:37	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 18:37	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 18:37	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 18:37	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 18:37	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 18:37	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: MW-140 **Lab ID: 40179454011** Collected: 11/08/18 16:50 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 18:37	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/14/18 18:37	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 18:37	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 18:37	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 18:37	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 18:37	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 18:37	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/14/18 18:37	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 18:37	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 18:37	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 18:37	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 18:37	108-67-8	
Vinyl chloride	0.36J	ug/L	1.0	0.17	1		11/14/18 18:37	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 18:37	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 18:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/14/18 18:37	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/14/18 18:37	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/14/18 18:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: TRIP BLANK **Lab ID: 40179454012** Collected: 11/08/18 00:00 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 15:41	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 15:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 15:41	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 15:41	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 15:41	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 15:41	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 15:41	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 15:41	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 15:41	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 15:41	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 15:41	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 15:41	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 15:41	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 15:41	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 15:41	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 15:41	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 15:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 15:41	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 15:41	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 15:41	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 15:41	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 15:41	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 15:41	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 15:41	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 15:41	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 15:41	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/14/18 15:41	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/14/18 15:41	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 15:41	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 15:41	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 15:41	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 15:41	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 15:41	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 15:41	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 15:41	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 15:41	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 15:41	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 15:41	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 15:41	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 15:41	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 15:41	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 15:41	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 15:41	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 15:41	630-20-6	

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ANALYTICAL RESULTS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Sample: TRIP BLANK **Lab ID: 40179454012** Collected: 11/08/18 00:00 Received: 11/10/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 15:41	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/14/18 15:41	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 15:41	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 15:41	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 15:41	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 15:41	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 15:41	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/14/18 15:41	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 15:41	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 15:41	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 15:41	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 15:41	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 15:41	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/14/18 15:41	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/14/18 15:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/14/18 15:41	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/14/18 15:41	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 15:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 REDI QUICK
Pace Project No.: 40179454

QC Batch: 306320 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40179454001, 40179454002, 40179454003, 40179454004, 40179454005, 40179454006, 40179454007, 40179454008, 40179454009, 40179454010, 40179454011, 40179454012

METHOD BLANK: 1791531 Matrix: Water
Associated Lab Samples: 40179454001, 40179454002, 40179454003, 40179454004, 40179454005, 40179454006, 40179454007, 40179454008, 40179454009, 40179454010, 40179454011, 40179454012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/14/18 10:33	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/14/18 10:33	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/14/18 10:33	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/14/18 10:33	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/14/18 10:33	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/14/18 10:33	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/14/18 10:33	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/14/18 10:33	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/14/18 10:33	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/14/18 10:33	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/14/18 10:33	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/14/18 10:33	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/14/18 10:33	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/14/18 10:33	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/14/18 10:33	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/14/18 10:33	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/14/18 10:33	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/14/18 10:33	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/14/18 10:33	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/14/18 10:33	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/14/18 10:33	
2-Chlorotoluene	ug/L	<0.93	5.0	11/14/18 10:33	
4-Chlorotoluene	ug/L	<0.76	2.5	11/14/18 10:33	
Benzene	ug/L	<0.25	1.0	11/14/18 10:33	
Bromobenzene	ug/L	<0.24	1.0	11/14/18 10:33	
Bromochloromethane	ug/L	<0.36	5.0	11/14/18 10:33	
Bromodichloromethane	ug/L	<0.36	1.2	11/14/18 10:33	
Bromoform	ug/L	<4.0	13.2	11/14/18 10:33	
Bromomethane	ug/L	<0.97	5.0	11/14/18 10:33	
Carbon tetrachloride	ug/L	<0.17	1.0	11/14/18 10:33	
Chlorobenzene	ug/L	<0.71	2.4	11/14/18 10:33	
Chloroethane	ug/L	<1.3	5.0	11/14/18 10:33	
Chloroform	ug/L	<1.3	5.0	11/14/18 10:33	
Chloromethane	ug/L	<2.2	7.3	11/14/18 10:33	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/14/18 10:33	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/14/18 10:33	
Dibromochloromethane	ug/L	<2.6	8.7	11/14/18 10:33	
Dibromomethane	ug/L	<0.94	3.1	11/14/18 10:33	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/14/18 10:33	
Diisopropyl ether	ug/L	<1.9	6.3	11/14/18 10:33	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

METHOD BLANK: 1791531

Matrix: Water

Associated Lab Samples: 40179454001, 40179454002, 40179454003, 40179454004, 40179454005, 40179454006, 40179454007, 40179454008, 40179454009, 40179454010, 40179454011, 40179454012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	11/14/18 10:33	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/14/18 10:33	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/14/18 10:33	
m&p-Xylene	ug/L	<0.47	2.0	11/14/18 10:33	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/14/18 10:33	
Methylene Chloride	ug/L	<0.58	5.0	11/14/18 10:33	
n-Butylbenzene	ug/L	<0.71	2.4	11/14/18 10:33	
n-Propylbenzene	ug/L	<0.81	5.0	11/14/18 10:33	
Naphthalene	ug/L	<1.2	5.0	11/14/18 10:33	
o-Xylene	ug/L	<0.26	1.0	11/14/18 10:33	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/14/18 10:33	
sec-Butylbenzene	ug/L	<0.85	5.0	11/14/18 10:33	
Styrene	ug/L	<0.47	1.6	11/14/18 10:33	
tert-Butylbenzene	ug/L	<0.30	1.0	11/14/18 10:33	
Tetrachloroethene	ug/L	<0.33	1.1	11/14/18 10:33	
Toluene	ug/L	<0.17	5.0	11/14/18 10:33	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/14/18 10:33	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/14/18 10:33	
Trichloroethene	ug/L	<0.26	1.0	11/14/18 10:33	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/14/18 10:33	
Vinyl chloride	ug/L	<0.17	1.0	11/14/18 10:33	
4-Bromofluorobenzene (S)	%	91	70-130	11/14/18 10:33	
Dibromofluoromethane (S)	%	98	70-130	11/14/18 10:33	
Toluene-d8 (S)	%	97	70-130	11/14/18 10:33	

LABORATORY CONTROL SAMPLE: 1791532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.7	101	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	49.7	99	67-130	
1,1,2-Trichloroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethane	ug/L	50	49.0	98	70-134	
1,1-Dichloroethene	ug/L	50	48.4	97	75-132	
1,2,4-Trichlorobenzene	ug/L	50	41.5	83	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	70-130	
1,2-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,2-Dichloroethane	ug/L	50	47.8	96	73-134	
1,2-Dichloropropane	ug/L	50	48.5	97	79-128	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
Benzene	ug/L	50	49.6	99	69-137	
Bromodichloromethane	ug/L	50	50.9	102	70-130	

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QUALITY CONTROL DATA

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

LABORATORY CONTROL SAMPLE: 1791532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	47.6	95	64-133	
Bromomethane	ug/L	50	33.0	66	29-123	
Carbon tetrachloride	ug/L	50	49.8	100	73-142	
Chlorobenzene	ug/L	50	51.1	102	70-130	
Chloroethane	ug/L	50	45.0	90	59-133	
Chloroform	ug/L	50	50.0	100	80-129	
Chloromethane	ug/L	50	31.4	63	27-125	
cis-1,2-Dichloroethene	ug/L	50	46.0	92	70-134	
cis-1,3-Dichloropropene	ug/L	50	51.9	104	70-130	
Dibromochloromethane	ug/L	50	52.8	106	70-130	
Dichlorodifluoromethane	ug/L	50	33.5	67	12-127	
Ethylbenzene	ug/L	50	53.4	107	86-127	
Isopropylbenzene (Cumene)	ug/L	50	52.9	106	70-130	
m&p-Xylene	ug/L	100	112	112	70-131	
Methyl-tert-butyl ether	ug/L	50	48.1	96	65-136	
Methylene Chloride	ug/L	50	46.7	93	72-133	
o-Xylene	ug/L	50	54.4	109	70-130	
Styrene	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	51.5	103	70-130	
Toluene	ug/L	50	51.5	103	84-124	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	70-133	
trans-1,3-Dichloropropene	ug/L	50	49.7	99	67-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
Trichlorofluoromethane	ug/L	50	48.9	98	69-147	
Vinyl chloride	ug/L	50	40.8	82	48-134	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1792964 1792965

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40179454008 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.4	50.4	103	101	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	51.4	50.2	103	100	67-133	2	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.7	50.1	103	100	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	50.2	49.9	100	100	70-139	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	49.5	48.2	99	96	72-137	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.1	45.1	96	90	68-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	53.5	49.8	107	100	60-130	7	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	55.2	52.7	110	105	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.8	50.1	102	100	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	49.1	48.2	98	96	71-137	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	49.0	48.5	98	97	78-130	1	20	

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QUALITY CONTROL DATA

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Parameter	Units	40179454008		1792964		1792965		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
1,3-Dichlorobenzene	ug/L	<0.63	50	50	53.9	50.8	108	102	70-130	6	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.4	50.5	107	101	70-130	6	20		
Benzene	ug/L	<0.25	50	50	50.7	50.1	101	100	66-143	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	53.1	51.1	106	102	70-130	4	20		
Bromoform	ug/L	<4.0	50	50	48.2	48.4	96	97	64-134	0	20		
Bromomethane	ug/L	<0.97	50	50	34.3	34.0	69	68	29-136	1	25		
Carbon tetrachloride	ug/L	<0.17	50	50	50.8	50.2	102	100	73-142	1	20		
Chlorobenzene	ug/L	<0.71	50	50	54.0	51.3	108	103	70-130	5	20		
Chloroethane	ug/L	<1.3	50	50	45.0	43.9	90	88	58-138	2	20		
Chloroform	ug/L	<1.3	50	50	50.7	49.9	101	100	80-131	1	20		
Chloromethane	ug/L	<2.2	50	50	32.3	30.9	65	62	24-125	5	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	50.5	51.7	101	103	68-137	2	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	53.5	52.4	107	105	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	54.7	53.3	109	107	70-131	3	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	33.0	32.2	66	64	10-127	2	20		
Ethylbenzene	ug/L	<0.22	50	50	54.4	53.0	109	106	81-136	3	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	53.9	52.6	108	105	70-132	2	20		
m&p-Xylene	ug/L	<0.47	100	100	110	108	110	108	70-135	2	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	49.0	48.4	98	97	58-142	1	23		
Methylene Chloride	ug/L	<0.58	50	50	47.5	47.5	95	95	69-137	0	20		
o-Xylene	ug/L	<0.26	50	50	55.9	53.0	112	106	70-132	5	20		
Styrene	ug/L	<0.47	50	50	55.5	53.8	111	108	70-130	3	20		
Tetrachloroethene	ug/L	<0.33	50	50	53.1	50.9	106	102	70-132	4	20		
Toluene	ug/L	<0.17	50	50	53.7	51.9	107	104	81-130	3	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	51.2	50.7	102	101	70-136	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	49.6	50.4	99	101	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	53.1	50.3	106	101	70-131	5	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	49.7	48.4	99	97	66-150	2	20		
Vinyl chloride	ug/L	<0.17	50	50	41.9	41.2	84	82	46-134	2	20		
4-Bromofluorobenzene (S)	%						99	102	70-130				
Dibromofluoromethane (S)	%						97	100	70-130				
Toluene-d8 (S)	%						100	101	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 631224187 REDI QUICK

Pace Project No.: 40179454

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40179454001	MW-2	EPA 8260	306320		
40179454002	MW-4	EPA 8260	306320		
40179454003	MW-10	EPA 8260	306320		
40179454004	MW-11	EPA 8260	306320		
40179454005	MW-12	EPA 8260	306320		
40179454006	MW-13	EPA 8260	306320		
40179454007	MW-14	EPA 8260	306320		
40179454008	MW-21	EPA 8260	306320		
40179454009	PZ-10	EPA 8260	306320		
40179454010	PZ-20	EPA 8260	306320		
40179454011	MW-140	EPA 8260	306320		
40179454012	TRIP BLANK	EPA 8260	306320		

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UPPER MIDWEST REGION

Page 1 of

Page 36 of 38



MN: 612-607-1700 WI: 920-469-2436

40179454

Company Name: **APTIM**
 Branch/Location: **WI**
 Project Contact: **Mark Finney**
 Phone: **913-317-3591**
 Project Number: **631224187**
 Project Name: **Redi Quick**
 Project State: **WI**
 Sampled By (Print): **Jared Schmidt**
 Sampled By (Sign): *[Signature]*
 PO #:

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

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

Y/N	Pick Letter	Analyses Requested
N	B	C VOC

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

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		MATRIX
		DATE	TIME	
001	MW-2	11/8/18	1205	GW
002	MW-4	11/8/18	1110	GW
003	MW-10	11/8/18	1510	GW
004	MW-11	11/8/18	1310	GW
005	MW-12	11/8/18	1710	GW
006	MW-13	11/8/18	1410	GW
007	MW-14	11/8/18	1630	GW
008	MW-21	11/8/18	1340	GW
009	PZ-10	11/8/18	1445	GW
010	PZ-20	11/8/18	1550	GW
011	MW-140	11/8/18	1650	GW
012	Trip Blank	11/8/18		W

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: *[Signature]* Relinquished By: *[Signature]* Date/Time: 11/10/18 0905
 Received By: *[Signature]* Date/Time: 11/10/18 0905

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

Receipt Temp = **RO** °C
 Sample Receipt **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact **Intact / Not Intact**

Sample Preservation Receipt Form

Client Name: APTIM

Project # 40179454

Page 3 of 3

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

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

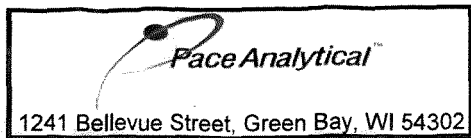
Initial when completed:

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	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN	
001																	W																	2.5 / 5 / 10
002																	W																	2.5 / 5 / 10
003																	W																	2.5 / 5 / 10
004																	W																	2.5 / 5 / 10
005																	W																	2.5 / 5 / 10
006																	W																	2.5 / 5 / 10
007																	W																	2.5 / 5 / 10
008																	W																	2.5 / 5 / 10
009																	W																	2.5 / 5 / 10
010																	W																	2.5 / 5 / 10
011																	W																	2.5 / 5 / 10
012																	W																	2.5 / 5 / 10
013																	W																	2.5 / 5 / 10
014																	W																	2.5 / 5 / 10
015																	W																	2.5 / 5 / 10
016																	W																	2.5 / 5 / 10
017																	W																	2.5 / 5 / 10
018																	W																	2.5 / 5 / 10
019																	W																	2.5 / 5 / 10
020																	W																	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:	



Document Name: Sample Condition Upon Receipt (SCUR)
Document No.: F-GB-C-031-Rev.07

Document Revised: 25Apr2018
Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # _____

Client Name: ADTIM

WO#: **40179454**

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



Tracking #: _____

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 - ~~NH~~ Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 15.7 ICorr: _____

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: 11/10/18
Initials: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg #, mults, music</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>410</u>		

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

Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: QA

Date: 11/12/18