



December 15, 2021

Mr. Matt Thompson
Department of Natural Resources
1300 W. Clairemont Avenue
Eau Claire, WI 54701

Re: Status Report – Groundwater Sampling Results
Former Hangers Cleaners, 213 North Central Avenue, Marshfield, WI
BRRTS # 02-72-283048
Former Quick Cleaners, 105 E. Arnold Street, Marshfield, WI
BRRTS # 02-72-548229

Dear Mr. Thompson:

This letter report outlines the results of the continuing investigation of the chlorinated solvent plume associated with the former Hangers Cleaners and the former Quick Cleaners sites, located at 213 North Central Avenue, Marshfield, Wisconsin and 105 East Arnold Street, Marshfield Wisconsin, respectively. This status report utilizes the additional sampling results to expand upon the information provided in the most recent sampling report submitted by MSA to the WDNR on January 9, 2020.

Additional Site Investigation Activities

The original scope of work was outlined on the MSA Professional Services, Inc. (MSA) proposal dated November 17, 2020 and included the advancement of four direct push soil borings, the collection of groundwater samples from temporary wells at each boring location and the submission of a letter report to the Wisconsin Department of Natural Resources (WDNR) discussing the results of the investigation and providing recommendations for future activities.

In March 2020, MSA personnel contacted the City of Marshfield and obtained a right-of-way permit to sample at each of the proposed boring locations. On April 8, 2021, MSA personnel oversaw the advancement of four additional direct push borings by Geiss Soil & Samples, LLC. (Geiss) in an attempt to fully delineate the extent of the existing contamination groundwater plume. Direct push boring TW-8 was advanced on the north side of East Edison Street, halfway between North Maple Avenue and North Cedar Avenue; direct push boring TW-9 was located at the south corner of the intersection of East Edison Street and North Cedar Avenue; direct push boring TW-10 was advanced on the west corner of the intersection of North Central Avenue and East Franklin Street; and direct push boring TW-11 was advanced in the alley between East Edison Street and East Franklin Street east of North Central Avenue. Please note that direct push boring TW-10 was named as TW-6 and direct push boring TW-11 was named as TW-7 in the field notes and the laboratory report but were changed to avoid confusion between the historical and current borings. Each direct push boring was advanced to a maximum of 30 feet below ground surface (bgs) or refusal. Continuous soil samples were also collected at direct push boring TW-10 to confirm the lithology and determine the current water table elevation. Once the maximum

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Status Report, Fmr. Quick Cleaners and Hangers Cleaners sites - Marshfield, WI
December 15, 2021

depth or refusal was encountered, a one-inch temporary well consisting of ten feet of 0.010 slot PVC screen attached to one-inch PVC riser was installed in direct push boring TW-10 and four feet of one-inch 0.010 slot PVC screen attached to one-inch PVC riser was installed in direct push borings TW-8, TW-9 and TW-11. Water was purged from each temporary well using a peristaltic pump and disposable tubing until water was relatively clear and sediment-free. A groundwater sample was then collected from the temporary well in each boring using dedicated containers, packed on ice and submitted under chain-of-custody to CT Laboratories of Baraboo, Wisconsin for analysis of volatile organic compounds (VOCs) by EPA Method 8260B. The site location is shown on **Figure 1** and locations of the direct push borings are shown on **Figure 2** and field notes from the drilling activities are provided in **Appendix A**.

On July 8, 2021, Mr. Tim Cassidy of the City of Marshfield Department of Public Works contacted MSA to inform them that the City of Marshfield would be resurfacing the asphalt pavement in the alley adjacent to the sites, between East Arnold Street and East Blodgett Street. Mr. Cassidy stated that the Quick Cleaners site monitoring wells MW-1 and MW-3 (located in the alley) would need to be adjusted or replaced considering the new asphalt surface would be higher than the existing surface. After receiving permission from the client to adjust the scope of work, on August 6, 2021, MSA personnel oversaw the construction of two new flush-mounted well pads at each monitoring well location according to State of Wisconsin regulations. The wells were examined prior to the construction activities and did not appear to be damaged during the repaving process and are assumed to be in working condition. In order to match the new asphalt elevation in the alley, the current owner of the Former Hanger's Cleaners property also resurfaced the parking lot on the property. MSA personnel were unable to contact the current owner in order to discuss protecting the monitoring wells during repaving activities. As a result, monitoring wells MW-1, MW-1P, MW-2, and MW-3 on the former Hanger's Cleaners property were destroyed and unable to be recovered.

Discussion

The work at these two sites has been conducted concurrently with costs split evenly due to the co-mingled contaminant plume from the two sites. The calculated groundwater flow direction has historically been to the east-northeast. Groundwater was observed at the site at 14 feet below ground surface, which is consistent with historical groundwater depths measured during sampling events. The subsurface geology encountered during direct push soil boring activities consisted of a silty clay unit to approximately eleven feet below ground surface (bgs) underlain by very fine-grained sand. Refusal was encountered in three of the borings between 16 and 20 feet bgs but was not encountered in boring TW-11. It is believed that weathered sandstone bedrock is present beneath the identified surficial geology, but that has not been confirmed during recent historical site investigation activities at these two sites, although it was noted in a site investigation report at a site located to the southeast.

Laboratory analytical results detected VOC concentrations of tetrachloroethene (PCE) above its Wisconsin Department of Natural Resources (WDNR) Enforcement Standard (ES) in groundwater samples collected from direct push borings TW-8, TW-10 and TW-11 at concentrations of 26 µg/L, 120 µg/L and 75 µg/L, respectively. PCE was also detected in the groundwater sample collected from direct push boring TW-9 at a concentration of 4.2 ug/L, which is below the ES of 5 µg/L for PCE, but

Status Report, Fmr. Quick Cleaners and Hangers Cleaners sites - Marshfield, WI
December 15, 2021

exceeds the Preventative Action Limit (PAL) of 0.5 µg/L. Trichloroethylene (TCE) was also detected in groundwater samples collected from direct push borings TW-10 and TW-11 at concentrations of 1.7 µg/L and 0.67 µg/L, respectively which exceeds the PAL for TCE. No other compounds were detected above their respective laboratory reported detection limits. The extent of PCE contamination in groundwater is shown on **Figure 3** and the extent of TCE contamination in groundwater is shown on **Figure 4**. Laboratory analytical results are listed in **Attachment A.1.** and the laboratory analytical report is provided in **Appendix B.**

Conclusions and Recommendations

Based on current and historical site investigation data, it appears that the lateral extent of the PCE plume has been delineated to the east, west and south of the source area(s) but has not been defined to the north based on the WDNR Enforcement Standard (ES). Concentrations of PCE exceeding the WDNR ES were identified in groundwater samples collected from temporary wells TW-8, TW-10 and TW-11 and the plume appears to extend to the north and northeast beyond East Franklin Street in the direction of previously determined groundwater flow. The concentrations appear to be highest in the source area, extending to the north-northwest with decreasing concentrations to the north and north-northeast with distance from the source area. However, the extent of the TCE plume appears to be delineated based on the WDNR Enforcement Standard (ES). The highest concentrations of TCE detected in groundwater samples were located in and around the source area(s) and generally extend to the north between East Doege Street and East Edison Street. Based on refusal encountered in the borings and the apparent shallow depth of bedrock in the area, it also appears that the vertical extent of the plume has been delineated.

Based on the results of this investigation, it appears that the down gradient extent of the PCE plume has not been fully delineated in accordance with WDNR Standards. MSA recommends advancing additional direct push borings to collect groundwater samples to fully delineate the contaminant plume. MSA also recommends the sampling of several of the monitoring wells onsite in order to confirm groundwater flow direction and current contaminant concentrations in and around the source area(s). Please contact Mark Davidson at (218) 499-3184 or mdavidson@msa-ps.com if you have any questions or need additional information regarding this investigation.

Sincerely,

MSA Professional Services, Inc.



Carolyn Fortney
Environmental Scientist



Mark Davidson, P.G.
Senior Project Hydrogeologist

Cc Stephanie Judge, Thomas J. Judge Remediation Trust
 Marsha Judge
 Beth Littleton, St. Vincent de Paul, Marshfield
 Matt Berrier, Associated Sales, 409 North Central Avenue, Marshfield, WI

Status Report, Fmr. Quick Cleaners and Hangers Cleaners sites - Marshfield, WI
December 15, 2021

Figures

- Figure 1 – Site Location
- Figure 2 – Site Layout Map
- Figure 3 – Tetrachloroethene Isoconcentration Contours Map
- Figure 4 – Trichloroethene Isoconcentration Contours Map

Tables

- Attachment A.1 – Groundwater Analytical Results

Appendices

- Appendix A – Field Notes
- Appendix B – Laboratory Analytical Report

FIGURES

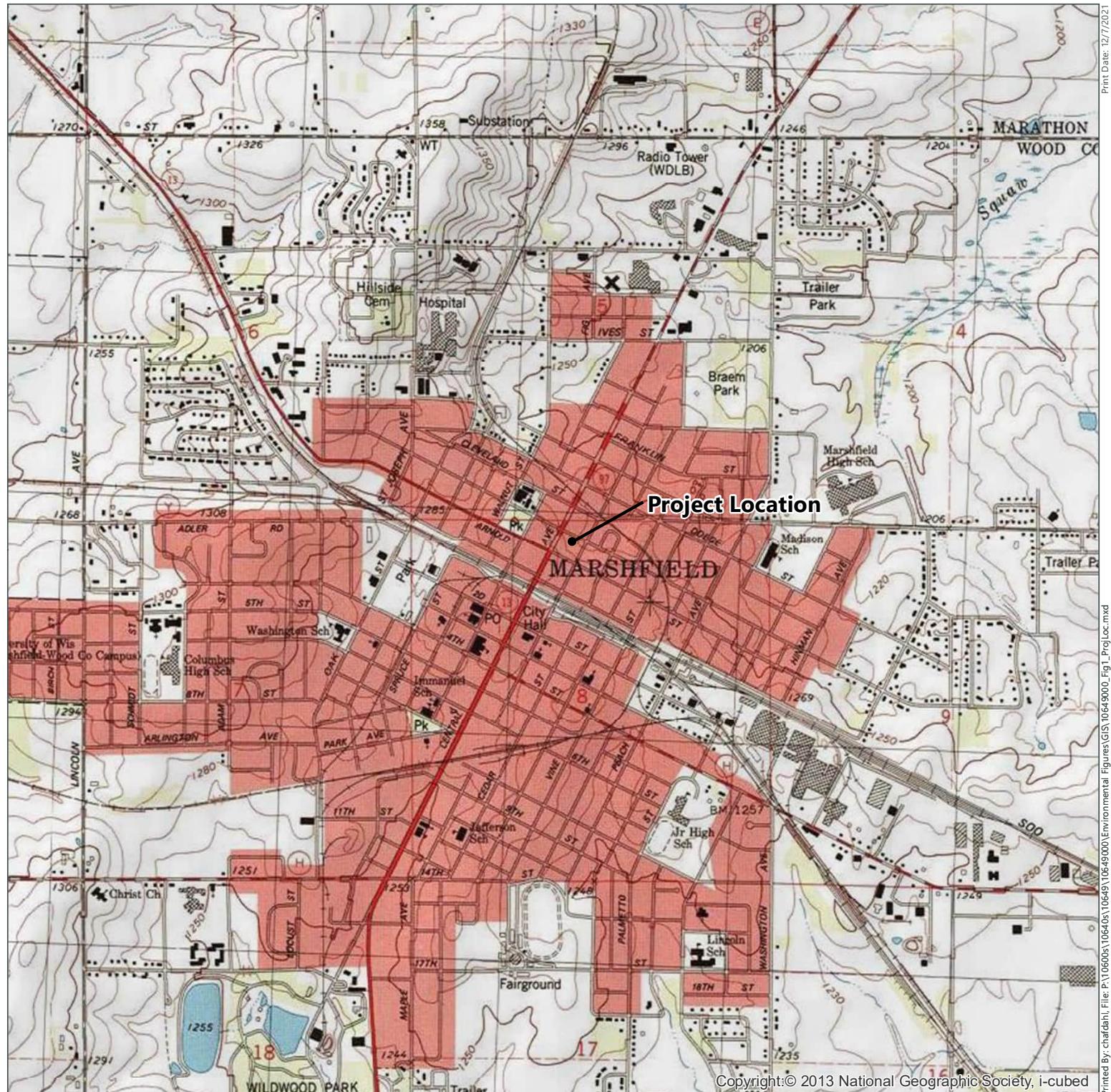


FIGURE 1

PROJECT LOCATION

FORMER QUICK CLEANERS AND
FORMER HANGERS CLEANERS
MARSHFIELD, WOOD COUNTY, WISCONSIN



FIGURE 2

MONITORING WELL AND SOIL BORING LOCATIONS

**Former Quick Cleaners and
Former Hangers Cleaners
Marshfield, Wood County, Wisconsin**

LEGEND

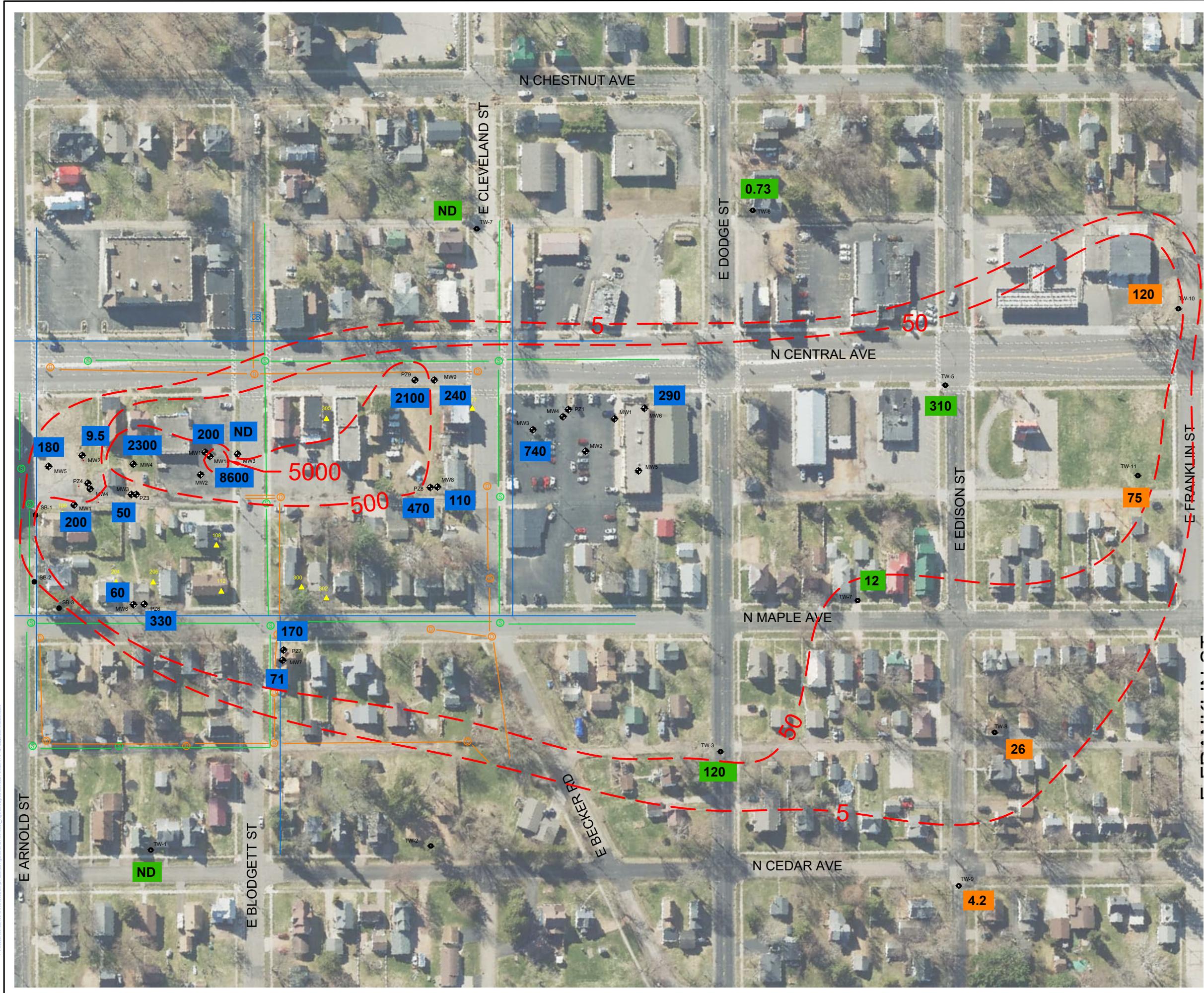
- MW-1  Monitoring Well Location and Number
 - B-1  Soil Boring Location and Number
 - GP-1  Geoprobe Groundwater Sample Location
 - VP-1  Vapor Point
 -  Sanitary Sewer
 -  Storm Sewer
 -  Water Main
 -  Sanitary Manhole
 -  Storm Manhole
 -  Catch Basin



FIGURE 3

TETRACHLOROETHENE ISOCONCENTRATION CONTOURS

**Former Quick Cleaners and
Former Hangers Cleaners
Marshfield, Wood County, Wisconsin**



LEGEND

- MW-1 ● Monitoring Well Location and Number
 - B-1 ● Soil Boring Location and Number
 - GP-1 ● Geoprobe Groundwater Sample Location
 - VP-1 ▲ Vapor Point
 - Sanitary Sewer
 - Storm Sewer
 - Water Main
 - (S) Sanitary Manhole
 - (D) Storm Manhole
 - (CB) Catch Basin
 - 120** PCE Concentrations from 4/8/21 (ug/L)
 - 310** PCE Concentrations from 10/17/16 (ug/L)
 - 290** PCE Concentrations from 11/22/19 (ug/L)
 - ND** Not Detected above Method Detection Limit
 - 5** PCE Isoconcentration Contour (ug/L)

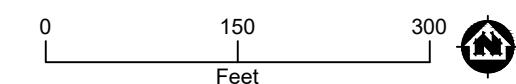
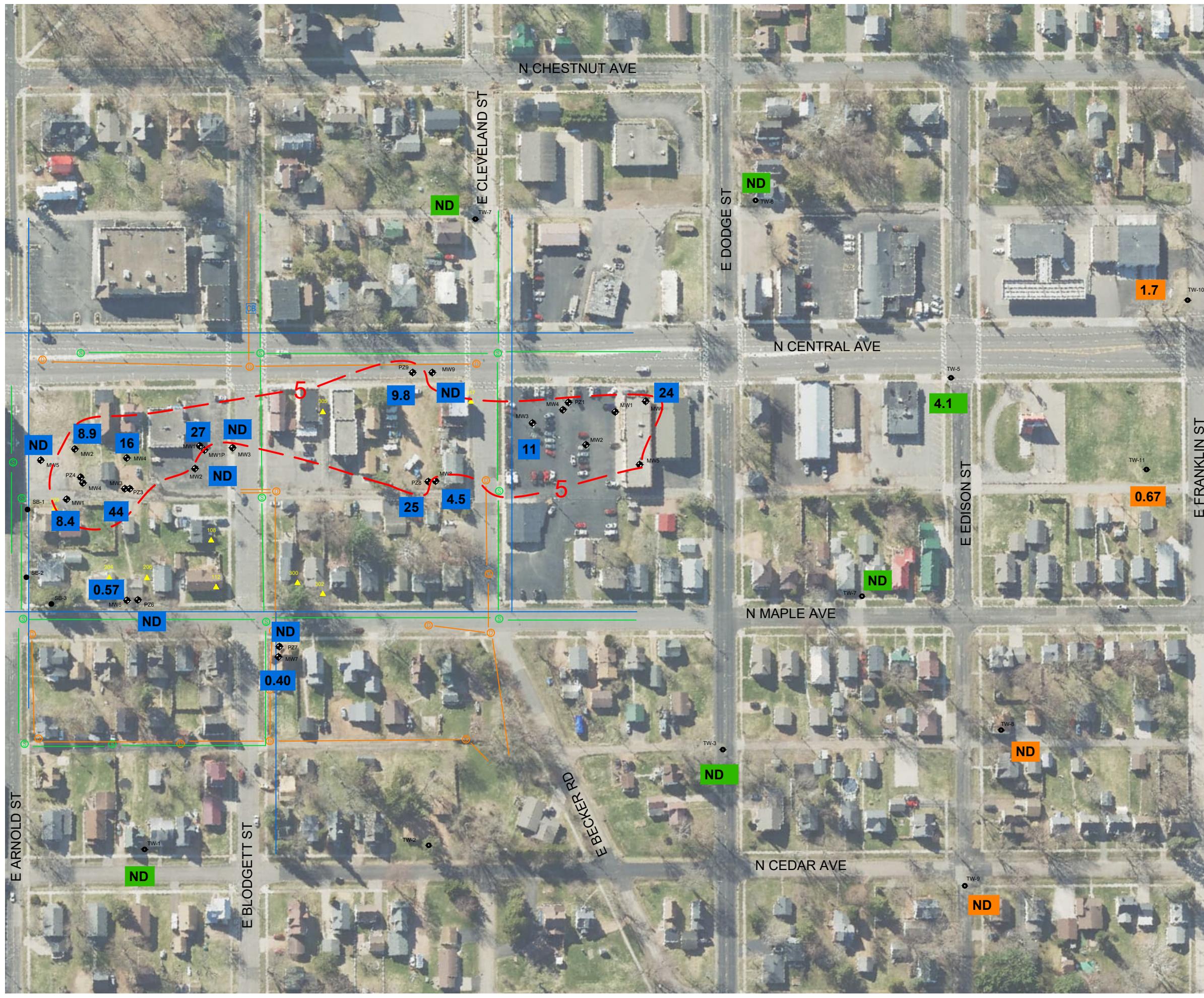


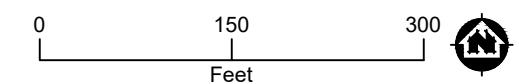
FIGURE 4

TRICHLOROETHENE ISOCONCENTRATION CONTOURS

Former Quick Cleaners and
Former Hangers Cleaners
Marshfield, Wood County, Wisconsin



- LEGEND**
- MW-1 ● Monitoring Well Location and Number
 - B-1 ● Soil Boring Location and Number
 - GP-1 ● Geoprobe Groundwater Sample Location
 - VP-1 ▲ Vapor Point
 - Sanitary Sewer
 - Storm Sewer
 - Water Main
 - Sanitary Manhole
 - Storm Manhole
 - Catch Basin
 - 120 TCE Concentrations from 4/8/21 (ug/L)
 - 310 TCE Concentrations from 10/17/16 (ug/L)
 - 290 TCE Concentrations from 11/22/19 (ug/L)
 - ND Not Detected above Method Detection Limit
 - 5 TCE Isoconcentration Contour (ug/L)



TABLES

Laboratory Results - Groundwater

Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Ethylbenzene	Isopropylbenzene	p-Isopropyl-toluene	Naphthalene	n-Propylbenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloro-ethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloro-ethene	1,2,4-Trimethylbenzene	1,3,5-Tri-methyl-benzene	m&p Xylene	o-Xylene	Vinyl Chloride	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5	6	3	5	7	70	100	700			100	10	70	0.2	5	1000	200	200	5	480	480	10000	10000	0.2		
NR 140 PAL	200	0.5			200	0.5	0.6	0.3	0.5	0.7	7	20	140					7	0.02	0.5	200	40	0.5	0.5	96	96	1000	1000	0.02		
Former Quick Cleaners, 105 E. Arnold Street, Marshfield, Wisconsin																															
MW-1	Screened from 1255-1270																												TOC=1284.63		
25-Mar-08	<7.0	1.3	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	0.66	190	3.7	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	3500	0.41	<0.60	<0.50	140	<0.24	0.84	<0.50	<0.50	12	1264.46
19-Aug-08	<700	<16	<24	<29	<50	<40	<30	<22	<30	<30	<40	920	<50	<28	<20	<17	<60	<20	<60	<14	9300	<20	<60	96	500	<24	<19	<50	<50	<15	1266.63
11-May-10	<16	<16	<20		<64	<16	<16	<24	<40	<40	<40	1000	54	<40	<16	<16	<20	<40	<20	<16	<16	6400	<40	<40	<20	430	<16	<16	<40*	41	1265.49
1-Sep-10	Not sampled, groundwater level only																												1269.96		
5-Dec-13	<2.9	10	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	3.1	1500	65	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	6800	0.32	<0.29	<0.40	480	<0.40	<0.40	<0.60	<0.30	15	1268.87
18-Jul-16		13	<3.9	<4.0		<3.8	<3.9	<3.7	<3.2	<3.9	<3.9	1400	56	<1.8	<3.9	<3.6	7.5	<4.1	<4.6	<4.0	10000	<1.5	<3.8	<3.5	520	<3.6	<2.5	<2.2	18	1268.87	
22-Nov-19	<40	<4.0	<2.9	<4.0	<6.0	<3.0	<3.0	<3.0	<6.0	<2.4	<4.0	6.9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	200	<2.1	<2.9	<3.0	8.4	<2.9	<2.7	<7.0	<2.6	<1.4	1270.35'
MW-2	Screened from 1257-1272																												TOC=1286.95		
25-Mar-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	15	0.71	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	7.2	<0.20	<0.60	<0.50	2.0	<0.24	<0.19	<0.50	<0.50	1.2	1264.33
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.36	<0.30	<0.40	40	1.9	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	7.4	<0.20	<0.60	<0.50	4.9	<0.24	<0.19	<0.50	<0.50	<0.15	1262.78
10-May-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	53	1.5	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	5.8	<0.50	<0.50	<0.25	4.0	<0.20	<0.20	<0.50*	1.4	1265.30	
1-Sep-10	Not sampled, groundwater level only																												1269.88		
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	50	0.84	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	7.0	<0.30	<0.29	<0.40	4.9	<0.40	<0.40	<0.60	<0.30	<0.18	1266.64
18-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	71	2.4	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	6.7	<0.15	<0.38	<0.35	6.3	<0.34	<0.25	<0.22	<0.20	1268.19	
22-Nov-19	<4.0	<4.0	<2.9	<4.0	<6.0	<3.0	<3.0	<3.0	<6.0	<2.4	<4.0	230	7.6	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	50	<2.1	<2.9	<3.0	44	<2.9	<2.7	<7.0	<2.6	<1.4	1268.05
MW-3	Screened from 1250-1265																												TOC=1280.32		
25-Mar-08	<7.0	1.1	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	1.3	1500	27	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	2300	<0.20	<0.60	<0.50	180	<0.24	<0.19	<0.50	<0.50	78	1262.61
19-Aug-08	<180	<4.0	<6.0	<7.3	<13	<10	<7.5	<5.5	<7.5	<7.5	<10	820	<13	<7.0	<5.0	<4.3	<15	<5.0	<15	<3.5	420	<5.0	<15	<13	110	<6.0	<4.8	<13	<13	16	1261.68
11-May-10		<8.0	<8.0	<10		<32	<8.0	<8.0	<12</td																						

Laboratory Results - Groundwater

Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Ethylbenzene	Isopropylbenzene	p-Isopropyl-toluene	Naphthalene	n-Propylbenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloro-ethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloro-ethene	1,2,4-Trimethylbenzene	1,3,5-Tri-methyl-benzene	m&p Xylene	o-Xylene	Vinyl Chloride	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5	6	3	5	7	70	100	700			100		70	0.2	5	1000	200	200	5	5	480	480	10000	10000	0.2	
NR 140 PAL	200	0.5			200	0.5	0.6	0.3	0.5	0.7	7	20	140			10		7	0.02	0.5	200	40	0.5	0.5	96	96	1000	1000	0.02		
PZ-4	Screened from 1230-1235																												TOC=1285.43		
25-Mar-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	4.4	0.61	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	180	<0.20	<0.60	<0.50	1.2	<0.24	<0.19	<0.50	<0.50	0.87	1263.91
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	1.3	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	33	<0.20	<0.60	<0.50	1.0	<0.24	<0.19	<0.50	<0.50	0.20	1265.54
10-May-10	<0.40	<0.40	<0.50		<1.6	<0.40	<0.40	<0.60	<1.0	<1.0	2.5	<1.0	<1.0	<0.40	<0.40	<0.50	<1.0	<0.50	<0.40	<0.40	150	<1.0	<1.0	<0.50	1.2	<0.40	<0.40	<1.0	<0.40		TOC=1285.36
1-Sep-10	Not sampled, groundwater level only																												1264.62		
20-May-13	abandoned due to soil treatment																												1268.43		
MW-5	Screened from 1258-1273																												TOC=1287.54		
25-Mar-08	<7.0	<0.16	<0.24	<0.29	2.1	<0.40	<0.30	<0.22	<0.30	<0.40	<0.40	<0.40	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	20	<0.20	<0.60	<0.50	0.15	<0.24	<0.19	<0.50	<0.50	<0.15	1265.15
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.40	<0.40	<0.40	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	83	<0.20	<0.60	<0.50	0.25	<0.24	<0.19	<0.50	<0.50	<0.15	1265.89
10-May-10	<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	<0.20	<0.20	30	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*	<0.20	1266.76	
1-Sep-10	Not sampled, groundwater level only																												1271.62		
14-Dec-11	Not sampled, groundwater level only																												1267.42		
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.30	63	<0.30	<0.29	<0.40	0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1266.68	
18-Jul-16	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	260	<0.15	<0.38	<0.35	0.16	<0.36	<0.25	<0.22	<0.20	1269.79		
22-Nov-19	<40	<4.0	<2.9	<4.0	<6.0	<3.0	<3.0	<3.0	<6.0	<2.4	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0	180	<2.1	<2.9	<3.0	<3.0	<2.9	<2.7	<7.0	<2.6	<1.4	1269.48	
MW-6	Screened from 1245-1260																												TOC=1277.03		
10-May-10	<0.40	<0.40	<0.50		<1.6	<0.40	<0.40	<0.60	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<0.50	<1.0	<0.50	<0.40	<0.40	150	<1.0	<1.0	<0.50	1.1	<0.40	<0.40	<1.0*	<0.40	1262.31		
1-Sep-10	<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	<0.20	130	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*	<0.20	1265.53		
13-Dec-11	<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	<0.20	150	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*	<0.20	1262.95		
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.30	36	<0.30	<0.29	<0.40	0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1263		

Laboratory Results - Groundwater

Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Ethylbenzene	Isopropylbenzene	p-Isopropyl-toluene	Naphthalene	n-Propylbenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloro-ethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloro-ethene	1,2,4-Trimethylbenzene	1,3,5-Tri-methyl-benzene	m&p Xylene	o-Xylene	Vinyl Chloride	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5	6	3	5	7	70	100	700			100	10	70	0.2	5	1000	200	200	5	5	480	480	10000	10000	0.2	
NR 140 PAL	200	0.5			200	0.5	0.6	0.3	0.5	0.7	7	20	140			10		7	0.02	0.5	200	40	0.5	0.5	0.5	96	96	1000	1000	0.02	
MW-8	Screened from 1247-1262																												TOC=1271.24		
12-May-10	57	<3.2	<4.0			<13	<3.2	<3.2	<4.8	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<4.0	<8.0	910	<8.0	<8.0	<4.0	26	<3.2	<3.2	<8.0*	<3.2	1256.44		
1-Sep-10	<2.0	<2.0	<2.5			<8.0	<2.0	<2.0	<3.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.5	<2.0	440	<5.0	<5.0	<2.5	6.8	<2.0	<2.0	<5.0*	<2.0	1258.02		
14-Dec-11	19	<0.20	<0.25			<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	3.8	1.2	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	590	<0.50	<0.50	<0.25	16	<0.20	<0.20	<0.50*	<0.20	1256.57		
4-Dec-13	<2.9	3.5	<0.40	0.32	<0.50	<0.27	<0.28	<0.23	<0.27	0.69	<0.24	3.8	3.1	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	440	<0.30	<0.29	<0.40	17	<0.40	<0.40	<0.60	<0.30	<0.18		
19-Jul-16	4.9	<0.78	<0.80			<0.77	<0.77	<0.74	<0.64	<0.78	<0.78	6.7	<0.70	<0.37	<0.77	<0.72	<0.67	<0.83	<0.92	670	<0.30	<0.76	<0.70	14	<0.72	<0.51	<0.44	<0.41	1257.31		
22-Nov-19	<40	<4.0	<2.9	<4.0	<6.0	<3.0	<3.0	<3.0	<6.0	<2.4	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	110	<2.1	<2.9	<3.0	4.5	<2.9	<2.7	<7.0	<2.6	<1.4		
PZ-8	Screened from 1230-1235																												TOC=1271.55		
12-May-10	<8.0	<8.0	<10			<32	<8.0	<8.0	<12	<20	<20	<20	<20	<20	<8.0	<10	<20	<10	<8.0	3300	<20	<20	<10	12	<8.0	<8.0	<20*	<8.0	1256.60		
1-Sep-10	<8.0	<8.0	<10			<32	<8.0	<8.0	<12	<20	<20	<20	<20	<20	<8.0	<10	<20	<10	<8.0	3900	<20	<20	<10	<8.0	<8.0	<8.0	<20*	<8.0	1258.13		
14-Dec-11	<0.20	<0.20	<0.25			<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	14	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	3300	<0.50	<0.50	<0.25	8.8	<0.20	<0.20	<0.50*	<0.20	1256.91		
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	21	0.45	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	4600	<0.30	<0.29	<0.40	11	<0.40	<0.40	<0.60	<0.30	<0.18		
19-Jul-16	<0.73	<1.9	<2.0			<1.9	<1.9	<1.9	<1.6	<2.0	<2.0	19	<1.7	<0.92	<1.9	<1.8	<1.7	<2.1	<2.3	2700	<0.76	<1.9	<1.8	7.2	<1.8	<1.8	<1.3	<1.1	<1.0		
22-Nov-19	<40	<4.0	<2.9	<4.0	<6.0	<3.0	<3.0	<3.0	<6.0	<2.4	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	470	<2.1	<2.9	<3.0	25	<2.9	<2.7	<7.0	<2.6	<1.4		
MW-9																													TOC=1272.31		
13-Dec-11	<0.20	<0.20	<0.25			<0.80	<0.20	0.69	<0.30	<0.50	<0.50	1.6	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	380	<0.50	<0.50	<0.25	0.97	<0.20	<0.20	<0.50*	<0.20	1257.47		
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	0.33	<0.27	<0.30	<0.24	0.69	<0.30	<0.30	<0.40	<0.30	<0.40	<0.30	230	<0.30	<0.29	<0.40	0.55	<0.40	<0.40	<0.60	<0.30	<0.18			
19-Jul-16	<0.15	<0.39	<0.40			<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	1.6	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	230	<0.15	<0.38	<0.35	0.80	<0.36	<0.25	<0.22	<0.20	1258.87		
22-Nov-19	<40	<4.0	<2.9	<4.0	<6.0	<3.0	<3.0	<3.0	<6.0	<2.4	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	240	<2.1	<2.9	<3.0	2.7	<2.9	<2.7	<7.0	<2.6	<1.4		
PZ-9																													TOC=1272.44		
13-Dec-11	<0.20	<0.20	<0.25			<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	4.7	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	2100	<0.50	<0.50	<0.25	3.1	<0.20	<0.20	<0.50*	<0.20	1		

Laboratory Results - Groundwater

Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Ethylbenzene	Isopropyl-benzene	p-Isopropyl-toluene	Naphthalene	n-Propyl-benzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloro-ethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloro-ethene	1,2,4-Trimethylbenzene	1,3,5-Tri-methylbenzene	m&p Xylene	σ -Xylene	Vinyl Chloride	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5		6	3	5	7	70	100	700			100		70	0.2	5	1000	200	5	480	480	10000	10000	0.2		
NR 140 PAL	200	0.5			200	0.5		0.6	0.3	0.5	0.7	7	20	140			10		7	0.02	0.5	200	40	0.5	96	96	1000	1000	0.02		
MW-2	Screened from 1249-1264																											TOC=1279.02			
1-Feb-05																															
12-Jan-06	<40	<48	<44		<35	<45	<46	<40	<33	<41	80	<35	<35	<37	<46	<73	<44	<42	<39	1500	<41	<42	<39	<37	<46	<43	<73	<45	<39		
19-Aug-08	<350	<8.0	<12	<15	<25	<20	<15	<11	<15	<20	110	<25	<14	<10	<8.5	<30	<10	<30	<7.0	1100	<10	<30	<25	18	<12	<9.5	<25	<25	<7.5		
11-May-10	<0.80	<0.80	<1.0		<3.2	<0.80	<0.80	<1.2	<2.0	<2.0	29	<2.0	<2.0	<0.80	<0.80	<1.0	<2.0	<1.0	<0.80	240	<2.0	<2.0	<1.0	5.1	<0.80	<0.80	<2.0*	<0.80	1261.91		
1-Sep-10	Not sampled, groundwater level only																											1265.56			
14-Dec-11	Not sampled, groundwater level only																											1262.11			
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	62	0.97	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	92	<0.30	<0.29	<0.40	9.6	<0.40	<0.40	<0.60	<0.30	<0.18	1263.28
23-Jul-14	<7.0	<0.25	<0.40	<0.50	<0.40	<0.40	<0.50	<0.27	<0.60	<0.20	<0.23	60	1.0	<0.50	<0.40	<0.50	<0.40	<0.60	<0.50	73	<0.50	<0.25	<0.21	10	<0.60	<0.50	<1.0	<0.50	<0.18	1263.78	
18-Jul-16	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	88	2.5	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	68	<0.15	<0.38	<0.35	12	<0.36	<0.25	<0.22	<0.20	1264.75		
22-Nov-19	Not sampled																														
MW-3	Screened from 1253-1268																											TOC=1277.32			
1-Feb-05																															
12-Jan-06	<0.20	<0.24	<0.22		<0.18	<0.23	<0.23	<0.20	<0.16	<0.17	<0.18	<0.18	<0.18	<0.19	<0.23	<0.37	<0.22	<0.21	<0.19	<0.16	0.33	<0.21	<0.20	<0.19	<0.23	<0.21	<0.37	<0.23	<0.20	1259.63	
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	<0.40	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	<0.40	<0.20	<0.60	<0.50	<0.15	<0.19	<0.24	<0.19	<0.50	<0.50	1260.52
11-May-10	<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	<0.50	<0.50	<0.25	<0.20	<0.20	<0.50*	<0.20	<0.20	<0.50*	<0.20	1261.47	
1-Sep-10	Not sampled, groundwater level only																											1265.35			
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	310	<0.30	<0.29	<0.40	2.3	<0.40	<0.40	<0.60	<0.30	<0.18	1262.38	
23-Jul-14	<7.0	<0.25	<0.40	<0.50	<0.40	<0.40	<0.50	<0.27	<0.60	<0.30	<0.23	0.58	<0.20	<0.50	<0.40	<0.50	<0.40	<0.60	<0.50	44	<0.50	<0.25	<0.21	0.34	<0.60	<0.50	<1.0	<0.50	<0.18	1264.06	
18-Jul-16	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	1200	<0.30	<0.76	<0.70	8.0	<0.72	<0.51	<0.44	<0.41	<0.41	1267.18	
22-Nov-19	<4.0	<0.40	<0.29	<0.40	<0.60	<0.30	<0.30	<0.30	<0.60	<0.24	<0.40	39	1.6	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	2300	<0.21	<0.29	<0.30	16	<0.29	<0.27	<0.70	<0.26	0.15	1266.71	
Associated Sales Wells																															
MW-3	Screened from 1241-1251																											TOC=1270.57			
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	9.7	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	1300	<0.20	<0.60	<0.50	5.0	<0.24	<0.19	<0.50	<0.50	<0.15	1256.10
11-May-10	<4.0	<4.0	<5.0		<16	<4.0	<4.0	<6.0	<10	<10	<10	<4.0	<4.0	<4.0	<5.0	<4.0	<10	<5.0	<4.0	1200	<10	<10	<5.0	7.0	<4.0	<4.0	<10*	<4.0	<4.0	1256.45	
1-Sep-10	<0.40	<0.40	<0.50		<1.6	<0.40	<0.40	<0.60	<1.0	<1.0	11	<1.0	<1.0	<0.40	<0.40	<0.50	<1.0	<0.50	<0.40	1200	<1.0	<1.0	<0.50	4.9	<0.40	<0.40					

Laboratory Results - Groundwater

Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Ethylbenzene	Isopropylbenzene	p-Isopropyl-toluene	Naphthalene	n-Propylbenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloro-ethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloro-ethene	1,2,4-Trimethylbenzene	1,3,5-Tri-methyl-benzene	m&p Xylene	o-Xylene	Vinyl Chloride	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5	6	3	5	7	70	100	700			100	10	70	0.2	5	1000	200	200	5	480	480	10000	10000	0.2		
NR 140 PAL	200	0.5			200	0.5	0.6	0.3	0.5	0.7	7	20	140			10	7	0.02	0.5	0.5	200	40	0.5	0.5	96	96	1000	1000	0.02		
Grab Geoprobe Groundwater Samples, October 17, 2016																															
TW-1	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	<0.37	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22	<0.20			
TW-3	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	1.1	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	120	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22	<0.20			
TW-4	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	1.1	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	12	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22	<0.20			
TW-5	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	2.6	1.4	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	310	<0.15	<0.38	<0.35	4.1	<0.36	<0.25	<0.22	<0.20			
TW-6	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	0.99	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	0.73	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22	<0.20			
TW-7	<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	1.1	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	11	<0.41	<0.46	<0.40	<0.37	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22	<0.20			
Grab Geoprobe Groundwater Sample, April 8, 2021																															
TW-8	<4.0	<0.40	<0.29	<0.40	<0.60	<0.30	<0.30	<0.60	<0.24	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	26	<0.21	<0.29	<0.30	<0.30	<0.29	<0.27	<0.70	<0.26	<0.14		
TW-9	<4.0	<0.40	<0.29	<0.40	<0.60	<0.30	<0.30	0.48	<0.60	<0.24	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	4.2	0.27	<0.29	<0.30	<0.30	<0.29	<0.27	<0.70	<0.26	<0.14		
TW-10	<4.0	<0.4	<0.29	<0.4	<0.6	<0.3	<0.3	<0.6	<0.24	<0.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.4	<0.3	120	0.26	<0.29	<0.30	1.7	<0.29	<0.27	<0.7	<0.26	<0.14		
TW-11	<4.0	<0.40	<0.29	<0.40	<0.60	<0.30	<0.30	<0.30	<0.60	<0.24	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	75	<0.21	<0.29	<0.30	0.67	<0.29	<0.27	<0.70	<0.26	<0.14		

Values in BOLD exceed the NR 140 enforcement standard.

* = value is for total xylenes

TOC = top of casing elevation in feet mean sea level.

1270.86' = top of casing elevation may be affected by damage to top of well casing, needs to be re-surveyed.

APPENDIX A

FIELD NOTES

- 830 Arrive at Weilers Gas Station
in Marshfield (near TW-6)
Griss drillers already onsite
Weather: 55°F, overcast, rain
- 845 Discussed scope of work
with Drillers (Travis + Keith)
- 850 Drillers setting up at TW-6
location at corner of Franklin
and N. Central
- 900 Begin drilling at TW-6
- 0-4 no recovery, hit a large rock
- 4-7 Silty clay, light brown
plastic, med. stiff, little
sand, trace gravel, moist
- 7-11 Silty clay, light brown,
less clay, slightly plastic,
soft, trace sand and gravel,
moist
- 11-20 light brown sand, some
silt and clay, trace gravel,
poorly consolidated, very
fine grained, poorly graded,
wet at 14'
Refusal at 20'
GW at 14'
- 925 Setting up pump for well
- 930 Sampled TW-6
- 935 Abandoning TW-6

- 950 Setting up at location of TW-7 in ROW in a bay between N. Central and N. Maple
1010 Begin pumping water from TW-7
1015 Collect TW-7 sample at 30'
1025 Abandoning TW-7
1035 Setting up at location of TW-8 in ROW in front of house at 207 E. Edison St.
1050 Begin pumping water at TW-8
Reusal at 19'
1055 Collect TW-8 sample
1100 Abandoning TW-8
Duplicate (Dup) collected at TW-8
1110 Setting up at location of TW-9 in ROW in front of house at 513 N. Cedar Ave.
1120 Begin pumping water at TW-9
Reusal at 16'
1125 Collect TW-9 sample
1130 Abandoning TW-9
1135 Drillers packing up equipment and drill
10' screen on TW-6 and 4' screen TW-7, TW-8 and TW-9
1140 Drillers (Keith + Travis) offsite

Former Hangers/Quick Cleaners

9:55 arrive onsite at alley between N. Central Ave. and N. Maple Ave (north of E. Arnold St.)

Greiss onsite at arrival (Keith and Travis)

Goal is to replace concrete pads for MW1 and MW3
- it appears that the monitoring wells have been filled in with asphalt due to resurfacing in the alley

10:05 Greiss working to dig out MW1 from asphalt with shovels and saw

10:30 MW1 recovered,
appears to be in OK condition
metal well box replaced

Marshfield 8/6/2021

MW1 needs a new well cap, but otherwise well appears intact and usable

10:35 Greiss mixing concrete for well pad

10:55 MW1 well pad complete
11:00 Greiss removing asphalt from on top of MW3

11:30 MW3 uncovered, appears to be in working condition still
metal well box replaced, well cap still in good condition

11:55 Greiss mixing concrete
12:05 MW3 well pad complete
12:10 Greiss offsite

Took photos of resurfaced Former Hangers Cleaners site
12:30 C. Fortney offsite

Rite in the Rain

APPENDIX B
LABORATORY ANALYTICAL REPORT

**REVISED
ANALYTICAL REPORT**

MSA PROFESSIONAL SERVICES

MARK DAVIDSON

1230 SOUTH BLVD

Project Name: QUICK CLEANERS

Page 1 of 20

Project Phase:

Arrival Temperature: See COC

Contract #: 1269

Report Date: 4/27/2021

Project #: 213391

Date Received: 4/8/2021

Folder #: 160965

Reprint Date: 4/30/2021

Purchase Order #:

Revision Date 04/30/2021

CT LAB Sample#: 550733

Sample Description: TW-10

Sampled: 4/8/2021 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Organic Results

Qualifiers applying to all Analytes of Method EPA 8260C: T

1,1,1,2-Tetrachloroethane	<0.4	ug/L	0.4	1.4	1		4/14/2021	21:37	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.29	ug/L	0.29	0.98	1		4/14/2021	21:37	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	0.99	1		4/14/2021	21:37	RLD	EPA 8260C
1,1-Dichloroethane	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
1,1-Dichloroethene	<0.4	ug/L	0.4	1.2	1		4/14/2021	21:37	RLD	EPA 8260C
1,1-Dichloropropene	<0.3	ug/L	0.3	1.0	1		4/14/2021	21:37	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.23	ug/L	0.23	0.77	1		4/14/2021	21:37	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.28	ug/L	0.28	0.93	1		4/14/2021	21:37	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.29	ug/L	0.29	0.96	1		4/14/2021	21:37	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.25	ug/L	0.25	0.82	1	Z	4/14/2021	21:37	RLD	EPA 8260C
1,2-Dibromoethane	<0.3	ug/L	0.3	1.0	1		4/14/2021	21:37	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 2 of 20

CT LAB Sample#: 550733 Sample Description: TW-10 Sampled: 4/8/2021 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,2-Dichlorobenzene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
1,2-Dichloroethane	<0.24	ug/L	0.24	0.81	1		4/14/2021	21:37	RLD	EPA 8260C
1,2-Dichloropropane	<0.18	ug/L	0.18	0.61	1		4/14/2021	21:37	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.27	ug/L	0.27	0.89	1		4/14/2021	21:37	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1		4/14/2021	21:37	RLD	EPA 8260C
1,3-Dichloropropane	<0.17	ug/L	0.17	0.57	1		4/14/2021	21:37	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
2,2-Dichloropropane	<0.30	ug/L	0.30	0.99	1		4/14/2021	21:37	RLD	EPA 8260C
2-Butanone	<2.6	ug/L	2.6	8.8	1	Z,Y	4/14/2021	21:37	RLD	EPA 8260C
2-Chlorotoluene	<0.25	ug/L	0.25	0.84	1		4/14/2021	21:37	RLD	EPA 8260C
2-Hexanone	<3.0	ug/L	3.0	10	1	Z,Y	4/14/2021	21:37	RLD	EPA 8260C
4-Chlorotoluene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.2	ug/L	2.2	7.4	1	Z,Y	4/14/2021	21:37	RLD	EPA 8260C
Acetone	<4.0	ug/L	4.0	12	1	Z,Y	4/14/2021	21:37	RLD	EPA 8260C
Benzene	<0.4	ug/L	0.4	1.4	1		4/14/2021	21:37	RLD	EPA 8260C
Bromobenzene	<0.4	ug/L	0.4	1.3	1		4/14/2021	21:37	RLD	EPA 8260C
Bromoform	<0.30	ug/L	0.30	1.0	1		4/14/2021	21:37	RLD	EPA 8260C
Bromochloromethane	<0.29	ug/L	0.29	0.95	1		4/14/2021	21:37	RLD	EPA 8260C
Bromodichloromethane	<0.29	ug/L	0.29	1.3	1		4/14/2021	21:37	RLD	EPA 8260C
Bromoform	<0.4	ug/L	0.4	1.3	1		4/14/2021	21:37	RLD	EPA 8260C
Bromomethane	<0.9	ug/L	0.9	3.1	1		4/14/2021	21:37	RLD	EPA 8260C
Carbon disulfide	<0.6	ug/L	0.6	1.9	1		4/14/2021	21:37	RLD	EPA 8260C
Carbon tetrachloride	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
Chlorobenzene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 3 of 20

CT LAB Sample#: 550733 Sample Description: TW-10 Sampled: 4/8/2021 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Chloroethane	<0.5	ug/L	0.5	1.6	1		4/14/2021	21:37	RLD	EPA 8260C
Chloroform	<0.3	ug/L	0.3	1.2	1		4/14/2021	21:37	RLD	EPA 8260C
Chloromethane	<0.6	ug/L	0.6	2.1	1		4/14/2021	21:37	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.16	ug/L	0.16	0.54	1		4/14/2021	21:37	RLD	EPA 8260C
Dibromochloromethane	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
Dibromomethane	<0.22	ug/L	0.22	0.73	1		4/14/2021	21:37	RLD	EPA 8260C
Dichlorodifluoromethane	<0.4	ug/L	0.4	1.3	1		4/14/2021	21:37	RLD	EPA 8260C
Diisopropyl ether	<0.4	ug/L	0.4	1.3	1		4/14/2021	21:37	RLD	EPA 8260C
Ethylbenzene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
Hexachlorobutadiene	<0.4	ug/L	0.4	1.2	1		4/14/2021	21:37	RLD	EPA 8260C
Isopropylbenzene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
m & p-Xylene	<0.7	ug/L	0.7	2.4	1		4/14/2021	21:37	RLD	EPA 8260C
Methyl tert-butyl ether	0.33	ug/L	0.3 *	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
Methylene chloride	<0.4	ug/L	0.4	1.5	1		4/14/2021	21:37	RLD	EPA 8260C
n-Butylbenzene	<0.29	ug/L	0.29	0.98	1		4/14/2021	21:37	RLD	EPA 8260C
n-Propylbenzene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
Naphthalene	<0.30	ug/L	0.30	1.0	1		4/14/2021	21:37	RLD	EPA 8260C
o-Xylene	<0.26	ug/L	0.26	0.88	1		4/14/2021	21:37	RLD	EPA 8260C
p-Isopropyltoluene	<0.3	ug/L	0.3	1.1	1		4/14/2021	21:37	RLD	EPA 8260C
sec-Butylbenzene	<0.4	ug/L	0.4	1.2	1		4/14/2021	21:37	RLD	EPA 8260C
Styrene	<0.29	ug/L	0.29	0.95	1		4/14/2021	21:37	RLD	EPA 8260C
tert-Butylbenzene	<0.4	ug/L	0.4	1.2	1		4/14/2021	21:37	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
 Project Name: QUICK CLEANERS
 Project #: 213391
 Project Phase:

Contract #: 1269
 Folder #: 160965
 Page 4 of 20

CT LAB Sample#: 550733	Sample Description: TW-10	Sampled: 4/8/2021 0930
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Tetrachloroethene	120	ug/L	1.4	4.5	5			4/15/2021 10:57	DGS	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	Z,Y		4/14/2021 21:37	RLD	EPA 8260C
Toluene	0.26	ug/L	0.21 *	0.69	1			4/14/2021 21:37	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.3	ug/L	0.3	1.2	1			4/14/2021 21:37	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.23	ug/L	0.23	0.77	1			4/14/2021 21:37	RLD	EPA 8260C
Trichloroethene	1.7	ug/L	0.3	1.1	1			4/14/2021 21:37	RLD	EPA 8260C
Trichlorofluoromethane	<0.4	ug/L	0.4	1.4	1			4/14/2021 21:37	RLD	EPA 8260C
Vinyl acetate	<5.0	ug/L	5.0	17	1	Y		4/14/2021 21:37	RLD	EPA 8260C
Vinyl chloride	<0.14	ug/L	0.14	0.46	1			4/14/2021 21:37	RLD	EPA 8260C

CT LAB Sample#: 550734	Sample Description: TW-11	Sampled: 4/8/2021 1015
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Organic Results

Qualifiers applying to all Analytes of Method EPA 8260C: T

1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			4/14/2021 22:08	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.29	ug/L	0.29	0.98	1			4/14/2021 22:08	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:08	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	0.99	1			4/14/2021 22:08	RLD	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:08	RLD	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.2	1			4/14/2021 22:08	RLD	EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	1.0	1			4/14/2021 22:08	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.23	ug/L	0.23	0.77	1			4/14/2021 22:08	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:08	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 5 of 20

CT LAB Sample#: 550734 Sample Description: TW-11 Sampled: 4/8/2021 1015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,2,4-Trichlorobenzene	<0.28	ug/L	0.28	0.93	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.29	ug/L	0.29	0.96	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.25	ug/L	0.25	0.82	1	Z	4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,2-Dibromoethane	<0.30	ug/L	0.30	1.0	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,2-Dichloroethane	<0.24	ug/L	0.24	0.81	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,2-Dichloropropane	<0.18	ug/L	0.18	0.61	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.27	ug/L	0.27	0.89	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,3-Dichloropropane	<0.17	ug/L	0.17	0.57	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
2,2-Dichloropropane	<0.30	ug/L	0.30	0.99	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
2-Butanone	<2.6	ug/L	2.6	8.8	1	Z,Y	4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
2-Chlorotoluene	<0.25	ug/L	0.25	0.84	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
2-Hexanone	<3.0	ug/L	3.0	10	1	Z,Y	4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
4-Chlorotoluene	<0.30	ug/L	0.30	1.1	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.2	ug/L	2.2	7.4	1	Z,Y	4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
Acetone	<4.0	ug/L	4.0	12	1	Z,Y	4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
Benzene	<0.40	ug/L	0.40	1.4	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.3	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
Bromoform	<0.30	ug/L	0.30	1.0	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
Bromochloromethane	<0.29	ug/L	0.29	0.95	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C
Bromodichloromethane	<0.29	ug/L	0.40	1.3	1		4/14/2021 22:08	4/14/2021 22:08	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 6 of 20

CT LAB Sample#: 550734 Sample Description: TW-11 Sampled: 4/8/2021 1015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Bromomethane	<0.90	ug/L	0.90	3.1	1		4/14/2021	22:08	RLD	EPA 8260C
Carbon disulfide	<0.60	ug/L	0.60	1.9	1		4/14/2021	22:08	RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
Chlorobenzene	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1		4/14/2021	22:08	RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.2	1		4/14/2021	22:08	RLD	EPA 8260C
Chloromethane	<0.60	ug/L	0.60	2.1	1		4/14/2021	22:08	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.16	ug/L	0.16	0.54	1		4/14/2021	22:08	RLD	EPA 8260C
Dibromochloromethane	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
Dibromomethane	<0.22	ug/L	0.22	0.73	1		4/14/2021	22:08	RLD	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.3	1		4/14/2021	22:08	RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.3	1		4/14/2021	22:08	RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.2	1		4/14/2021	22:08	RLD	EPA 8260C
Isopropylbenzene	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.4	1		4/14/2021	22:08	RLD	EPA 8260C
Methyl tert-butyl ether	0.34	ug/L	0.30 *	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
Methylene chloride	<0.40	ug/L	0.40	1.5	1		4/14/2021	22:08	RLD	EPA 8260C
n-Butylbenzene	<0.29	ug/L	0.29	0.98	1		4/14/2021	22:08	RLD	EPA 8260C
n-Propylbenzene	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
Naphthalene	<0.30	ug/L	0.30	1.0	1		4/14/2021	22:08	RLD	EPA 8260C
o-Xylene	<0.26	ug/L	0.26	0.88	1		4/14/2021	22:08	RLD	EPA 8260C

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MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 7 of 20

CT LAB Sample#: 550734 Sample Description: TW-11 Sampled: 4/8/2021 1015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
p-Isopropyltoluene	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1		4/14/2021	22:08	RLD	EPA 8260C
Styrene	<0.29	ug/L	0.29	0.95	1		4/14/2021	22:08	RLD	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.2	1		4/14/2021	22:08	RLD	EPA 8260C
Tetrachloroethene	75	ug/L	1.4	4.5	5		4/15/2021	11:27	DGS	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	Z,Y	4/14/2021	22:08	RLD	EPA 8260C
Toluene	<0.21	ug/L	0.21	0.69	1		4/14/2021	22:08	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.2	1		4/14/2021	22:08	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.23	ug/L	0.23	0.77	1		4/14/2021	22:08	RLD	EPA 8260C
Trichloroethene	0.67	ug/L	0.30 *	1.1	1		4/14/2021	22:08	RLD	EPA 8260C
Trichlorofluoromethane	<0.40	ug/L	0.40	1.4	1		4/14/2021	22:08	RLD	EPA 8260C
Vinyl acetate	<5.0	ug/L	5.0	17	1	Y	4/14/2021	22:08	RLD	EPA 8260C
Vinyl chloride	<0.14	ug/L	0.14	0.46	1		4/14/2021	22:08	RLD	EPA 8260C

CT LAB Sample#: 550735 Sample Description: TW-8 Sampled: 4/8/2021 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1		4/14/2021	22:38	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.29	ug/L	0.29	0.98	1		4/14/2021	22:38	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:38	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	0.99	1		4/14/2021	22:38	RLD	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1		4/14/2021	22:38	RLD	EPA 8260C

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MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 8 of 20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethene	<0.40	ug/L	0.40	1.2	1			4/14/2021 22:38	RLD	EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	1.0	1			4/14/2021 22:38	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.23	ug/L	0.23	0.77	1			4/14/2021 22:38	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.28	ug/L	0.28	0.93	1			4/14/2021 22:38	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.29	ug/L	0.29	0.96	1			4/14/2021 22:38	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.25	ug/L	0.25	0.82	1	Z		4/14/2021 22:38	RLD	EPA 8260C
1,2-Dibromoethane	<0.30	ug/L	0.30	1.0	1			4/14/2021 22:38	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
1,2-Dichloroethane	<0.24	ug/L	0.24	0.81	1			4/14/2021 22:38	RLD	EPA 8260C
1,2-Dichloropropane	<0.18	ug/L	0.18	0.61	1			4/14/2021 22:38	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.27	ug/L	0.27	0.89	1			4/14/2021 22:38	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1			4/14/2021 22:38	RLD	EPA 8260C
1,3-Dichloropropane	<0.17	ug/L	0.17	0.57	1			4/14/2021 22:38	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
2,2-Dichloropropane	<0.30	ug/L	0.30	0.99	1			4/14/2021 22:38	RLD	EPA 8260C
2-Butanone	<2.6	ug/L	2.6	8.8	1	Z,Y		4/14/2021 22:38	RLD	EPA 8260C
2-Chlorotoluene	<0.25	ug/L	0.25	0.84	1			4/14/2021 22:38	RLD	EPA 8260C
2-Hexanone	<3.0	ug/L	3.0	10	1	Z,Y		4/14/2021 22:38	RLD	EPA 8260C
4-Chlorotoluene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.2	ug/L	2.2	7.4	1	Z,Y		4/14/2021 22:38	RLD	EPA 8260C
Acetone	<4.0	ug/L	4.0	12	1	Z,Y		4/14/2021 22:38	RLD	EPA 8260C
Benzene	<0.40	ug/L	0.40	1.4	1			4/14/2021 22:38	RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.3	1			4/14/2021 22:38	RLD	EPA 8260C
Bromoform	<0.30	ug/L	0.30	1.0	1			4/14/2021 22:38	RLD	EPA 8260C

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MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 9 of 20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromodichloromethane	<0.29	ug/L	0.29	0.95	1			4/14/2021 22:38	RLD	EPA 8260C
Bromoform	<0.40	ug/L	0.40	1.3	1			4/14/2021 22:38	RLD	EPA 8260C
Bromomethane	<0.90	ug/L	0.90	3.1	1			4/14/2021 22:38	RLD	EPA 8260C
Carbon disulfide	<0.60	ug/L	0.60	1.9	1			4/14/2021 22:38	RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
Chlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			4/14/2021 22:38	RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.2	1			4/14/2021 22:38	RLD	EPA 8260C
Chloromethane	<0.60	ug/L	0.60	2.1	1			4/14/2021 22:38	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.16	ug/L	0.16	0.54	1			4/14/2021 22:38	RLD	EPA 8260C
Dibromochloromethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
Dibromomethane	<0.22	ug/L	0.22	0.73	1			4/14/2021 22:38	RLD	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.3	1			4/14/2021 22:38	RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.3	1			4/14/2021 22:38	RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.2	1			4/14/2021 22:38	RLD	EPA 8260C
Isopropylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.4	1			4/14/2021 22:38	RLD	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
Methylene chloride	<0.40	ug/L	0.40	1.5	1			4/14/2021 22:38	RLD	EPA 8260C
n-Butylbenzene	<0.29	ug/L	0.29	0.98	1			4/14/2021 22:38	RLD	EPA 8260C
n-Propylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
Naphthalene	<0.30	ug/L	0.30	1.0	1			4/14/2021 22:38	RLD	EPA 8260C
o-Xylene	<0.26	ug/L	0.26	0.88	1			4/14/2021 22:38	RLD	EPA 8260C

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MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 10 of 20

CT LAB Sample#: 550735 Sample Description: TW-8 Sampled: 4/8/2021 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
p-Isopropyltoluene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/14/2021 22:38	RLD	EPA 8260C
Styrene	<0.29	ug/L	0.29	0.95	1			4/14/2021 22:38	RLD	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/14/2021 22:38	RLD	EPA 8260C
Tetrachloroethene	26	ug/L	0.27	0.89	1			4/14/2021 22:38	RLD	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	Z,Y		4/14/2021 22:38	RLD	EPA 8260C
Toluene	<0.21	ug/L	0.21	0.69	1			4/14/2021 22:38	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.2	1			4/14/2021 22:38	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.23	ug/L	0.23	0.77	1			4/14/2021 22:38	RLD	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.1	1			4/14/2021 22:38	RLD	EPA 8260C
Trichlorofluoromethane	<0.40	ug/L	0.40	1.4	1			4/14/2021 22:38	RLD	EPA 8260C
Vinyl acetate	<5.0	ug/L	5.0	17	1	Y		4/14/2021 22:38	RLD	EPA 8260C
Vinyl chloride	<0.14	ug/L	0.14	0.46	1			4/14/2021 22:38	RLD	EPA 8260C

CT LAB Sample#: 550736 Sample Description: TW-9 Sampled: 4/8/2021 1125

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			4/15/2021 10:27	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.29	ug/L	0.29	0.98	1			4/15/2021 10:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	0.99	1			4/15/2021 10:27	RLD	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.2	1			4/15/2021 10:27	RLD	EPA 8260C

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MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 11 of 20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloropropene	<0.30	ug/L	0.30	1.0	1			4/15/2021 10:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.23	ug/L	0.23	0.77	1			4/15/2021 10:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.28	ug/L	0.28	0.93	1			4/15/2021 10:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.29	ug/L	0.29	0.96	1			4/15/2021 10:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.25	ug/L	0.25	0.82	1	Z		4/15/2021 10:27	RLD	EPA 8260C
1,2-Dibromoethane	<0.30	ug/L	0.30	1.0	1			4/15/2021 10:27	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
1,2-Dichloroethane	<0.24	ug/L	0.24	0.81	1			4/15/2021 10:27	RLD	EPA 8260C
1,2-Dichloropropane	<0.18	ug/L	0.18	0.61	1			4/15/2021 10:27	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.27	ug/L	0.27	0.89	1			4/15/2021 10:27	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1			4/15/2021 10:27	RLD	EPA 8260C
1,3-Dichloropropane	<0.17	ug/L	0.17	0.57	1			4/15/2021 10:27	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
2,2-Dichloropropane	<0.30	ug/L	0.30	0.99	1			4/15/2021 10:27	RLD	EPA 8260C
2-Butanone	3.2	ug/L	2.6 *	8.8	1	Z,Y		4/15/2021 10:27	RLD	EPA 8260C
2-Chlorotoluene	<0.25	ug/L	0.25	0.84	1			4/15/2021 10:27	RLD	EPA 8260C
2-Hexanone	<3.0	ug/L	3.0	10	1	Z,Y		4/15/2021 10:27	RLD	EPA 8260C
4-Chlorotoluene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.2	ug/L	2.2	7.4	1	Z,Y		4/15/2021 10:27	RLD	EPA 8260C
Acetone	<4.0	ug/L	4.0	12	1	Z,Y		4/15/2021 10:27	RLD	EPA 8260C
Benzene	<0.40	ug/L	0.40	1.4	1			4/15/2021 10:27	RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.3	1			4/15/2021 10:27	RLD	EPA 8260C
Bromochloromethane	<0.30	ug/L	0.30	1.0	1			4/15/2021 10:27	RLD	EPA 8260C
Bromodichloromethane	<0.29	ug/L	0.29	0.95	1			4/15/2021 10:27	RLD	EPA 8260C

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MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 12 of 20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<0.40	ug/L	0.40	1.3	1			4/15/2021 10:27	RLD	EPA 8260C
Bromomethane	<0.90	ug/L	0.90	3.1	1			4/15/2021 10:27	RLD	EPA 8260C
Carbon disulfide	<0.60	ug/L	0.60	1.9	1			4/15/2021 10:27	RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
Chlorobenzene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			4/15/2021 10:27	RLD	EPA 8260C
Chloroform	0.48	ug/L	0.30 *	1.2	1			4/15/2021 10:27	RLD	EPA 8260C
Chloromethane	<0.60	ug/L	0.60	2.1	1			4/15/2021 10:27	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.16	ug/L	0.16	0.54	1			4/15/2021 10:27	RLD	EPA 8260C
Dibromochloromethane	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
Dibromomethane	<0.22	ug/L	0.22	0.73	1			4/15/2021 10:27	RLD	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.3	1			4/15/2021 10:27	RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.3	1			4/15/2021 10:27	RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.2	1			4/15/2021 10:27	RLD	EPA 8260C
Isopropylbenzene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.4	1			4/15/2021 10:27	RLD	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
Methylene chloride	<0.40	ug/L	0.40	1.5	1			4/15/2021 10:27	RLD	EPA 8260C
n-Butylbenzene	<0.29	ug/L	0.29	0.98	1			4/15/2021 10:27	RLD	EPA 8260C
n-Propylbenzene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
Naphthalene	<0.30	ug/L	0.30	1.0	1			4/15/2021 10:27	RLD	EPA 8260C
o-Xylene	<0.26	ug/L	0.26	0.88	1			4/15/2021 10:27	RLD	EPA 8260C
p-Isopropyltoluene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 13 of 20

CT LAB Sample#: 550736	Sample Description: TW-9	Sampled: 4/8/2021 1125
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/15/2021 10:27	RLD	EPA 8260C
Styrene	<0.29	ug/L	0.29	0.95	1			4/15/2021 10:27	RLD	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/15/2021 10:27	RLD	EPA 8260C
Tetrachloroethene	4.2	ug/L	0.27	0.89	1			4/15/2021 10:27	RLD	EPA 8260C
Tetrahydrofuran	3.4	ug/L	3.0 *	10	1	Z,Y		4/15/2021 10:27	RLD	EPA 8260C
Toluene	0.27	ug/L	0.21 *	0.69	1			4/15/2021 10:27	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.2	1			4/15/2021 10:27	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.23	ug/L	0.23	0.77	1			4/15/2021 10:27	RLD	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.1	1			4/15/2021 10:27	RLD	EPA 8260C
Trichlorofluoromethane	<0.40	ug/L	0.40	1.4	1			4/15/2021 10:27	RLD	EPA 8260C
Vinyl acetate	<5.0	ug/L	5.0	17	1	Y		4/15/2021 10:27	RLD	EPA 8260C
Vinyl chloride	<0.14	ug/L	0.14	0.46	1			4/15/2021 10:27	RLD	EPA 8260C

CT LAB Sample#: 550737	Sample Description: DUP	Sampled: 4/8/2021
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			4/14/2021 23:37	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.29	ug/L	0.29	0.98	1			4/14/2021 23:37	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	0.99	1			4/14/2021 23:37	RLD	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.2	1			4/14/2021 23:37	RLD	EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	1.0	1			4/14/2021 23:37	RLD	EPA 8260C

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

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichlorobenzene	<0.23	ug/L	0.23	0.77	1			4/14/2021 23:37	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.28	ug/L	0.28	0.93	1			4/14/2021 23:37	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.29	ug/L	0.29	0.96	1			4/14/2021 23:37	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.25	ug/L	0.25	0.82	1	Z		4/14/2021 23:37	RLD	EPA 8260C
1,2-Dibromoethane	<0.30	ug/L	0.30	1.0	1			4/14/2021 23:37	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
1,2-Dichloroethane	<0.24	ug/L	0.24	0.81	1			4/14/2021 23:37	RLD	EPA 8260C
1,2-Dichloropropane	<0.18	ug/L	0.18	0.61	1			4/14/2021 23:37	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.27	ug/L	0.27	0.89	1			4/14/2021 23:37	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1			4/14/2021 23:37	RLD	EPA 8260C
1,3-Dichloropropane	<0.17	ug/L	0.17	0.57	1			4/14/2021 23:37	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
2,2-Dichloropropane	<0.30	ug/L	0.30	0.99	1			4/14/2021 23:37	RLD	EPA 8260C
2-Butanone	<2.6	ug/L	2.6	8.8	1	Y,Z		4/14/2021 23:37	RLD	EPA 8260C
2-Chlorotoluene	<0.25	ug/L	0.25	0.84	1			4/14/2021 23:37	RLD	EPA 8260C
2-Hexanone	<3.0	ug/L	3.0	10	1	Y,Z		4/14/2021 23:37	RLD	EPA 8260C
4-Chlorotoluene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.2	ug/L	2.2	7.4	1	Y,Z		4/14/2021 23:37	RLD	EPA 8260C
Acetone	<4.0	ug/L	4.0	12	1	Y,Z		4/14/2021 23:37	RLD	EPA 8260C
Benzene	<0.40	ug/L	0.40	1.4	1			4/14/2021 23:37	RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.3	1			4/14/2021 23:37	RLD	EPA 8260C
Bromochloromethane	<0.30	ug/L	0.30	1.0	1			4/14/2021 23:37	RLD	EPA 8260C
Bromodichloromethane	<0.29	ug/L	0.29	0.95	1			4/14/2021 23:37	RLD	EPA 8260C
Bromoform	<0.40	ug/L	0.40	1.3	1			4/14/2021 23:37	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 15 of 20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromomethane	<0.90	ug/L	0.90	3.1	1			4/14/2021 23:37	RLD	EPA 8260C
Carbon disulfide	<0.60	ug/L	0.60	1.9	1			4/14/2021 23:37	RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
Chlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			4/14/2021 23:37	RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.2	1			4/14/2021 23:37	RLD	EPA 8260C
Chloromethane	<0.60	ug/L	0.60	2.1	1			4/14/2021 23:37	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.16	ug/L	0.16	0.54	1			4/14/2021 23:37	RLD	EPA 8260C
Dibromochloromethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
Dibromomethane	<0.22	ug/L	0.22	0.73	1			4/14/2021 23:37	RLD	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.3	1			4/14/2021 23:37	RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.3	1			4/14/2021 23:37	RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.2	1			4/14/2021 23:37	RLD	EPA 8260C
Isopropylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.4	1			4/14/2021 23:37	RLD	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
Methylene chloride	<0.40	ug/L	0.40	1.5	1			4/14/2021 23:37	RLD	EPA 8260C
n-Butylbenzene	<0.29	ug/L	0.29	0.98	1			4/14/2021 23:37	RLD	EPA 8260C
n-Propylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
Naphthalene	<0.30	ug/L	0.30	1.0	1			4/14/2021 23:37	RLD	EPA 8260C
o-Xylene	<0.26	ug/L	0.26	0.88	1			4/14/2021 23:37	RLD	EPA 8260C
p-Isopropyltoluene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/14/2021 23:37	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
 Project Name: QUICK CLEANERS
 Project #: 213391
 Project Phase:

Contract #: 1269
 Folder #: 160965
 Page 16 of 20

CT LAB Sample#: 550737	Sample Description: DUP	Sampled: 4/8/2021
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<0.29	ug/L	0.29	0.95	1			4/14/2021 23:37	RLD	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/14/2021 23:37	RLD	EPA 8260C
Tetrachloroethene	27	ug/L	0.27	0.89	1			4/14/2021 23:37	RLD	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	Y,Z		4/14/2021 23:37	RLD	EPA 8260C
Toluene	<0.21	ug/L	0.21	0.69	1			4/14/2021 23:37	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.2	1			4/14/2021 23:37	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.23	ug/L	0.23	0.77	1			4/14/2021 23:37	RLD	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.1	1			4/14/2021 23:37	RLD	EPA 8260C
Trichlorofluoromethane	<0.40	ug/L	0.40	1.4	1			4/14/2021 23:37	RLD	EPA 8260C
Vinyl acetate	<5.0	ug/L	5.0	17	1	Y		4/14/2021 23:37	RLD	EPA 8260C
Vinyl chloride	<0.14	ug/L	0.14	0.46	1			4/14/2021 23:37	RLD	EPA 8260C

CT LAB Sample#: 550738	Sample Description: TRIP BLANK	Sampled: 4/8/2021
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.4	1			4/14/2021 16:08	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.29	ug/L	0.29	0.98	1			4/14/2021 16:08	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.30	ug/L	0.30	0.99	1			4/14/2021 16:08	RLD	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.2	1			4/14/2021 16:08	RLD	EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	1.0	1			4/14/2021 16:08	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.23	ug/L	0.23	0.77	1			4/14/2021 16:08	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 17 of 20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.28	ug/L	0.28	0.93	1			4/14/2021 16:08	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.29	ug/L	0.29	0.96	1			4/14/2021 16:08	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.25	ug/L	0.25	0.82	1	Z		4/14/2021 16:08	RLD	EPA 8260C
1,2-Dibromoethane	<0.30	ug/L	0.30	1.0	1			4/14/2021 16:08	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
1,2-Dichloroethane	<0.24	ug/L	0.24	0.81	1			4/14/2021 16:08	RLD	EPA 8260C
1,2-Dichloropropane	<0.18	ug/L	0.18	0.61	1			4/14/2021 16:08	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.27	ug/L	0.27	0.89	1			4/14/2021 16:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1			4/14/2021 16:08	RLD	EPA 8260C
1,3-Dichloropropane	<0.17	ug/L	0.17	0.57	1			4/14/2021 16:08	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
2,2-Dichloropropane	<0.30	ug/L	0.30	0.99	1			4/14/2021 16:08	RLD	EPA 8260C
2-Butanone	<2.6	ug/L	2.6	8.8	1	Y,Z		4/14/2021 16:08	RLD	EPA 8260C
2-Chlorotoluene	<0.25	ug/L	0.25	0.84	1			4/14/2021 16:08	RLD	EPA 8260C
2-Hexanone	<3.0	ug/L	3.0	10	1	Y,Z		4/14/2021 16:08	RLD	EPA 8260C
4-Chlorotoluene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.2	ug/L	2.2	7.4	1	Y,Z		4/14/2021 16:08	RLD	EPA 8260C
Acetone	<4.0	ug/L	4.0	12	1	Y,Z		4/14/2021 16:08	RLD	EPA 8260C
Benzene	<0.40	ug/L	0.40	1.4	1			4/14/2021 16:08	RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.3	1			4/14/2021 16:08	RLD	EPA 8260C
Bromochloromethane	<0.30	ug/L	0.30	1.0	1			4/14/2021 16:08	RLD	EPA 8260C
Bromodichloromethane	<0.29	ug/L	0.29	0.95	1			4/14/2021 16:08	RLD	EPA 8260C
Bromoform	<0.40	ug/L	0.40	1.3	1			4/14/2021 16:08	RLD	EPA 8260C
Bromomethane	<0.90	ug/L	0.90	3.1	1			4/14/2021 16:08	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 18 of 20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Carbon disulfide	<0.60	ug/L	0.60	1.9	1			4/14/2021 16:08	RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
Chlorobenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			4/14/2021 16:08	RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.2	1			4/14/2021 16:08	RLD	EPA 8260C
Chloromethane	<0.60	ug/L	0.60	2.1	1			4/14/2021 16:08	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.16	ug/L	0.16	0.54	1			4/14/2021 16:08	RLD	EPA 8260C
Dibromochloromethane	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
Dibromomethane	<0.22	ug/L	0.22	0.73	1			4/14/2021 16:08	RLD	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.3	1			4/14/2021 16:08	RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.3	1			4/14/2021 16:08	RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
Hexachlorobutadiene	<0.40	ug/L	0.40	1.2	1			4/14/2021 16:08	RLD	EPA 8260C
Isopropylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
m & p-Xylene	<0.70	ug/L	0.70	2.4	1			4/14/2021 16:08	RLD	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
Methylene chloride	<0.40	ug/L	0.40	1.5	1			4/14/2021 16:08	RLD	EPA 8260C
n-Butylbenzene	<0.29	ug/L	0.29	0.98	1			4/14/2021 16:08	RLD	EPA 8260C
n-Propylbenzene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
Naphthalene	<0.30	ug/L	0.30	1.0	1			4/14/2021 16:08	RLD	EPA 8260C
o-Xylene	<0.26	ug/L	0.26	0.88	1			4/14/2021 16:08	RLD	EPA 8260C
p-Isopropyltoluene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/14/2021 16:08	RLD	EPA 8260C
Styrene	<0.29	ug/L	0.29	0.95	1			4/14/2021 16:08	RLD	EPA 8260C

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



MSA PROFESSIONAL SERVICES
Project Name: QUICK CLEANERS
Project #: 213391
Project Phase:

Contract #: 1269
Folder #: 160965
Page 19 of 20

CT LAB Sample#: 550738 Sample Description: TRIP BLANK								Sampled: 4/8/2021		
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
tert-Butylbenzene	<0.40	ug/L	0.40	1.2	1			4/14/2021 16:08	RLD	EPA 8260C
Tetrachloroethene	<0.27	ug/L	0.27	0.89	1			4/14/2021 16:08	RLD	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	Y,Z		4/14/2021 16:08	RLD	EPA 8260C
Toluene	<0.21	ug/L	0.21	0.69	1			4/14/2021 16:08	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.30	ug/L	0.30	1.2	1			4/14/2021 16:08	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.23	ug/L	0.23	0.77	1			4/14/2021 16:08	RLD	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.1	1			4/14/2021 16:08	RLD	EPA 8260C
Trichlorofluoromethane	<0.40	ug/L	0.40	1.4	1			4/14/2021 16:08	RLD	EPA 8260C
Vinyl acetate	<5.0	ug/L	5.0	17	1	Y		4/14/2021 16:08	RLD	EPA 8260C
Vinyl chloride	<0.14	ug/L	0.14	0.46	1			4/14/2021 16:08	RLD	EPA 8260C

Notes regarding entire Chain of Custody:

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

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

Reason for Revision Client requested change in sample descriptions for TW-6 and TW-7

Submitted by: Eric T. Korthals
 Project Manager
 608-356-2760

QC Qualifiers

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

Current CT Laboratories Certifications

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

GROUNDWATER CHAIN OF CUSTODY

Company: MSA Prof. Services
Project Contact: Mark Davidson
Telephone: (218) 499-3184
Project Name: Quick Cleaners
Project #: 213391
Location: Marshfield, WI
Sampled By: Carolyn Fortney

CT LABORATORIES
Folder #: 160965
Company: MSA PROFESSIONALS
Project: QUICK CLEANERS
Logged By: EKB PM ET

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

Report To:
EMAIL: mdavidson@msa-ps.com
Company: MSA Prof. Services
Address: 1030 South Blvd.
Baraboo, WI 53913
Invoice To: *
EMAIL: Same
Company:
Address:

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

Client Special Instructions

* added trip blank per
Samples

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

Turnaround Time
Normal RUSH*
Date Needed:

Rush analysis requires prior
CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

CT Lab ID #
Lab use only
550733
550734
550735
550736
550737
550738

Sample ID Description

Fill in Spaces with Bottles per Test

CT Lab ID #
Lab use only

Relinquished By:

enriched by:
Carolyn Fortney Cottrell

Date/Time
4/8/2021 1510

Received By:

elbs
elb

Date/Time 15.15
4.8.2021

Lab Use Only
ate Present Yes No
os. Temp 88 IR Gun 88
ct. Temp 650^o Cooler 650^o
1.7 em 4-8-102