Ms. Amy Hadiaris
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

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ENVIRONMENT

Subject:
2019 First Quarter Groundwater Sampling Summary Main Parcel
Ford Twin Cities Assembly Plant, St. Paul, Minnesota

Date:
August 15, 2019

Contact:
Ryan Oesterreich

Phone:
612.373.0225

Email:
Ryan.Oesterreich@arcadis.com

Our ref:
MN000653.0006

Dear Ms. Hadiaris:

Arcadis U.S., Inc. (Arcadis) on behalf of Ford Motor Company is submitting this letter report to summarize the results of the 2019 first quarter groundwater sampling event conducted for the St. Peter Sandstone monitoring wells on the Main Parcel at the Ford Twin Cities Assembly Plant in St. Paul, Minnesota (TCAP, Site); see Figure 1. This sampling event was completed in response to an MPCA request received on February 25th, 2019. All sampling methodologies in this report were in accordance with the *Interim Groundwater Sampling Work Plan* that was submitted on May 4, 2018 and approved by the MPCA on May 7th, 2018. The groundwater sampling event was conducted in order to evaluate groundwater quality in the St. Peter Sandstone on the Main Parcel. The sampling event took place from March 21 through March 28, 2019.

SITE LOCATION

The Site is located at 966 South Mississippi River Boulevard in St. Paul, Ramsey County, Minnesota at the approximate easting coordinate 484562.5 meters (m) and northing coordinate 4973822.5 m. The Site is located in a mixed industrial, commercial, and residential use area along the east side of South Mississippi River Boulevard, south of Ford Parkway, and west of South Cleveland, in St. Paul, Minnesota (Figure 1). The current well network is shown on Figure 2.

GROUNDWATER ELEVATION

Comprehensive manual depth-to-water measurements obtained on March 18th, 2019 are presented in Table 1. Figure 3 shows a potentiometric map of the St. Peter Sandstone monitoring wells on the Main Parcel during the first quarter sampling event. The direction of groundwater flow was from east to the west towards the Mississippi River, during which measured groundwater elevations decreased approximately 15 feet. This groundwater flow direction is consistent with historical observations at the Site.

GROUNDWATER SAMPLING

Methodology

Groundwater sampling at the monitoring wells was conducted using the low-flow sampling method in accordance with the United States Environmental Protection Agency (USEPA) Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (USEPA 1996). Field parameters were collected using a YSI EXO1 multi-parameter probe with a flow-through cell. Groundwater sampling logs are included as Attachment 1.

Groundwater samples were collected from six St. Peter Sandstone monitoring wells on the Main Parcel and one St. Peter Sandstone monitoring wells on the River Parcel. The sampled St. Peter Sandstone monitoring well (AMW-05) on the River Parcel is located north of Area C, the Steam Plant and the Wastewater Treatment Plant and reflects the quality of groundwater migrating from the Main Parcel. Arcadis also submitted four trip blanks during the sampling event.

Groundwater samples were containerized in laboratory supplied sample jars and submitted on ice under chain-of-custody protocols to the TestAmerica Canton, Ohio laboratory on a standard 10-day turnaround time (TAT) for the following analytes:

- Volatile Organic Compounds (VOCs) using USEPA Method 8260,
- Dissolved Target Analyte List (TAL) metals using USEPA Method 6010,
- Thallium using USEPA Method 6020,
- Free cyanide using USEPA Method 9016

Results and Evaluation

Analytical results of groundwater samples in this sampling event are compared to the MPCA Class 2B water quality standards, summarized in Table 2 and depicted on Figure 4. The laboratory analytical report and chain-of-custody documents are included in Attachment 2. Comprehensive analytical results of the St Peter sandstone wells are included in Attachment 3.

A summary of the constituents detected above criteria during the sampling are below:

Well ID	Constituent
AMW-29	Aluminum, Cobalt, Copper, Thallium
AMW-30	Aluminum, Cobalt, Copper, Nickel, Thallium
AMW-31	Silver

Aluminum was compared to a site-specific value of 1,500 ug/L at the request of the MPCA. No additional analytes, other than those reported above, were detected above MPCA Class 2B waters criteria during the sampling event.

Analytical results during the first quarter were comparable to historic results collected at the Site. Additional details include:

- Elevated concentrations of aluminum and chromium were observed at AMW-05 in the 2018 May sampling event. The well was dry during the August and March sampling events and consequently was not sampled.
- Elevated concentrations of cobalt were observed at AMW-05B in the 2018 May and August sampling events were below criteria in the most recent sampling event.
- Analytical results from AMW-29 identified exceedances of four metals: aluminum (27,000 ug/L), cobalt (72 ug/L), copper (78 ug/L) and thallium (1.6 ug/L). These results were generally in line with previous sampling events. Nickel dropped below applicable criteria. Zinc remained below criteria during the past two sampling events.
- Analytical results from AMW-30 identified exceedances of five metals: aluminum (45,000 ug/L), cobalt (49 ug/L), copper (130 ug/L), nickel (130 ug/L) and thallium (7.1 ug/L). These results were generally in line with the previous sampling events.
- An elevated concentration of silver (1.2 J ug/L) was detected in AMW-31.

CONCLUSIONS

I appreciate your assistance with this project. If you have questions or need additional information, please call Ryan Oesterreich of Arcadis at 612.373.0225 at your convenience.

Sincerely,

Arcadis U.S., Inc.

Ryan Oesterreich, PE, PG

Principal Environmental Engineer

Copies:
Shanna Schmitt, MPCA
Chuck Pinter, Ford Motor Company
Kris Hinskey, Arcadis
Jim Ziska, Arcadis

Enclosures:

Tables

1 March 2019 Groundwater Elevations
2 March 2019 Groundwater Analytical Results

Figures

1 Site Location/Property Layout
2 Site Map
3 Potentiometric Surface Map - St. Peter Sandstone March 2019
4 Site Wide Groundwater Exceedances – 2019

Attachments

1 Field Sampling Logs
2 Laboratory Analytical Reports
3 Comprehensive Analytical Results

References

USEPA. 1996. Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. Ground Water Issue, Publication Number EPA/540/S-95/504. April. Available online at:

http://www2.epa.gov/remedytech/low-flow-minimal-drawdown-ground-water-sampling-procedures.

TABLES

Table 1
March 2019 Groundwater Elevations
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID	Top of Casing Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to Water (ft. btoc)	Groundwater Elevation (ft. amsl)
AMW-03B	811.72	141-151	03/18/19	99.67	712.05
AMW-05	725.25	21-31	03/18/19	31.24	694.01
AMW-05B	723.99	43-53	03/18/19	30.58	693.41
AMW-27	810.93	98-108	03/18/19	98.28	712.65
AMW-28	813.75	107-117	03/18/19	102.19	711.56
AMW-29	815.16	114--124	03/18/19	116.32	698.84
AMW-30	814.75	112-122	03/18/19	113.94	700.81
AMW-31	814.52	110-120	03/18/19	105.13	709.39

General Notes:
Water level measurements collected from top of well casing.
Acronyms and Abbreviations:
AMW = Arcadis monitoring well
ft amsl feet above mean sea level
ft bgs = feet below ground surface
ft btoc = feet below top of casing
NA = not applicable
NM = not measured

Table 2
March 2019 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

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Notes and Abbreviations on Page 4.

Location ID Sample ID Sample Date Lab SDG #	Class 2B Waters CS	MS	FAV	Units	AMW-03B AMW-03B (20190328) 3/28/2019 110204-1	AMW-05B AMW-05B(20190321) 3/21/2019 109868-1	AMW-27 AMW-27 (20190325) 3/25/2019 109987-1	AMW-28 AMW-28 (20190327) 3/27/2019 110166-1	AMW-29 AMW-29 (20190328) 3/28/2019 110204-1	AMW-30 AMW-30 (20190328) 3/28/2019 110204-1	AMW-31 AMW-31 (20190328) 3/28/2019 110204-1
Metals, Dissolved											
Aluminum*	1500		3000	µg/L	< 200	< 200	< 200	< 200	***27,000***	***45,000***	< 200
Antimony	31	90	180	µg/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Arsenic	53	360	720	µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Barium				µg/L	**7.4 J**	**65 J**	**71 J**	**44 J**	**18 J**	**10 J**	**120 J**
Beryllium				µg/L	< 5.0	< 5.0	< 5.0	< 5.0	**2.7 J**	**3.6 J**	< 5.0
Boron				µg/L	**41 J**	**59 J**	**66 J**	**78 J**	**180**	**400**	**27 J**
Cadmium	2	65	130	µg/L	< 5.0	**0.25 J**	< 5.0	**0.24 J**	**0.41 J**	**0.34 J**	< 5.0
Calcium				µg/L	**12,000**	**130,000**	**72,000**	**61,000**	**32,000**	**75,000**	**96,000**
Chromium	11	16	32	µg/L	< 10	< 10	**1.1 J**	< 10	**5.4 J**	**11**	**0.71 J**
Cobalt	5	436	872	µg/L	< 10	**3.3 J**	**3.7 J**	< 10	**72**	**49**	**0.95 J**
Copper	14	31	62	µg/L	< 25	< 25	< 25	**8.7 J**	***78***	***130***	< 25
Iron				µg/L	**35 J**	**5,000**	**4,900**	**4,400**	**590**	**430**	**2,200**
Lead	7	173	346	µg/L	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Magnesium				µg/L	**2,300 J**	**40,000**	**29,000**	**22,000**	**26,000**	**36,000**	**27,000**
Manganese				µg/L	**2.1 J**	**210**	**570**	**210**	**400**	**530**	**870**
Mercury	0.0069	2.4	4.9	µg/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	259	2332	4664	µg/L	< 40	**3.0 J**	**38 J**	**3.2 J**	**170**	**310**	< 40
Potassium				µg/L	**5,000**	**3,200 J**	**5,700**	**2,600 J**	**4,400 J**	**15,000**	**3,300 J**
Selenium	5.0	20	40	µg/L	NA	NA	NA	NA	NA	NA	NA
Silver	1	6	11	µg/L	< 10	< 10	**0.62 J**	< 10	< 10	**0.78 J**	**1.2 J**
Sodium				µg/L	**14,000**	**33,000**	**37,000**	**4,300 J**	**28,000**	**15,000**	**240,000**
Thallium	0.56	64	128	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	**1.6**	**7.1**	< 1.0
Vanadium				µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Zinc	174	193	385	µg/L	< 50	< 50	< 50	**31 J**	**140**	**94**	< 50
VOCs											
1,1,1,2-Tetrachloroethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	329	2957	5913	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	13	1127	2253	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene				µg/L	**0.36 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane				µg/L	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0 J	< 2.0 J
1,2-Dibromoethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	190	45050	90100	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 2
March 2019 Groundwater Analytical Results
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Notes and Abbreviations on Page 4.

Location ID Sample ID Sample Date Lab SDG #	Class 2B Waters CS	MS	FAV	Units	AMW-03B AMW-03B (20190328) 3/28/2019 110204-1	AMW-05B AMW-05B(20190321) 3/21/2019 109868-1	AMW-27 AMW-27 (20190325) 3/25/2019 109987-1	AMW-28 AMW-28 (20190327) 3/27/2019 110166-1	AMW-29 AMW-29 (20190328) 3/28/2019 110204-1	AMW-30 AMW-30 (20190328) 3/28/2019 110204-1	AMW-31 AMW-31 (20190328) 3/28/2019 110204-1
1,3-Dichloropropane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)				µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone				µg/L	< 10	< 10	< 5.0	< 10	< 10	< 10	< 10
Acetone				µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Allyl chloride				µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	114	4487	8974	µg/L	**0.36 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	466	2900	5800	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide				µg/L	**0.43 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	5.9	1750	3500	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	20	423	846	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	155	1392	2784	µg/L	**0.44 J**	< 1.0	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0
Chloromethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.24 J**	< 1.0
cis-1,3-Dichloropropene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)				µg/L	**0.13 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	1940	13875	27749	µg/L	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0
Dichloromonofluoromethane				µg/L	< 2.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0
Diethyl ether				µg/L	< 2.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	68	1859	3717	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes				µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate				µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)				µg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
See Notes on Last Page.				µg/L							
Methyl-tert-butylether				µg/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	81	409	818	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene				µg/L	**0.19 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 2
March 2019 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
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ARCADIS Design & Consultancy for natural and built assets

Notes and Abbreviations on Page 4.

Location ID Sample ID Sample Date Lab SDG #	Class 2B Waters CS	MS	FAV	Units	AMW-03B AMW-03B (20190328) 3/28/2019 110204-1	AMW-05B AMW-05B(20190321) 3/21/2019 109868-1	AMW-27 AMW-27 (20190325) 3/25/2019 109987-1	AMW-28 AMW-28 (20190327) 3/27/2019 110166-1	AMW-29 AMW-29 (20190328) 3/28/2019 110204-1	AMW-30 AMW-30 (20190328) 3/28/2019 110204-1	AMW-31 AMW-31 (20190328) 3/28/2019 110204-1
sec-Butylbenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	8.9	428	857	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.57 J**	< 1.0
Tetrahydrofuran				µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	253	1352	2703	µg/L	**11**	**4.5**	**10**	**4.3**	**3.0**	**1.6**	**1.7**
trans-1,2-Dichloroethene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene				µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	120	6988	13976	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	**6.7**	**34**	**1.5**
Vinyl chloride	9.2			µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Other											
Cyanide, Free	5.2	22	45	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Table 2
March 2019 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

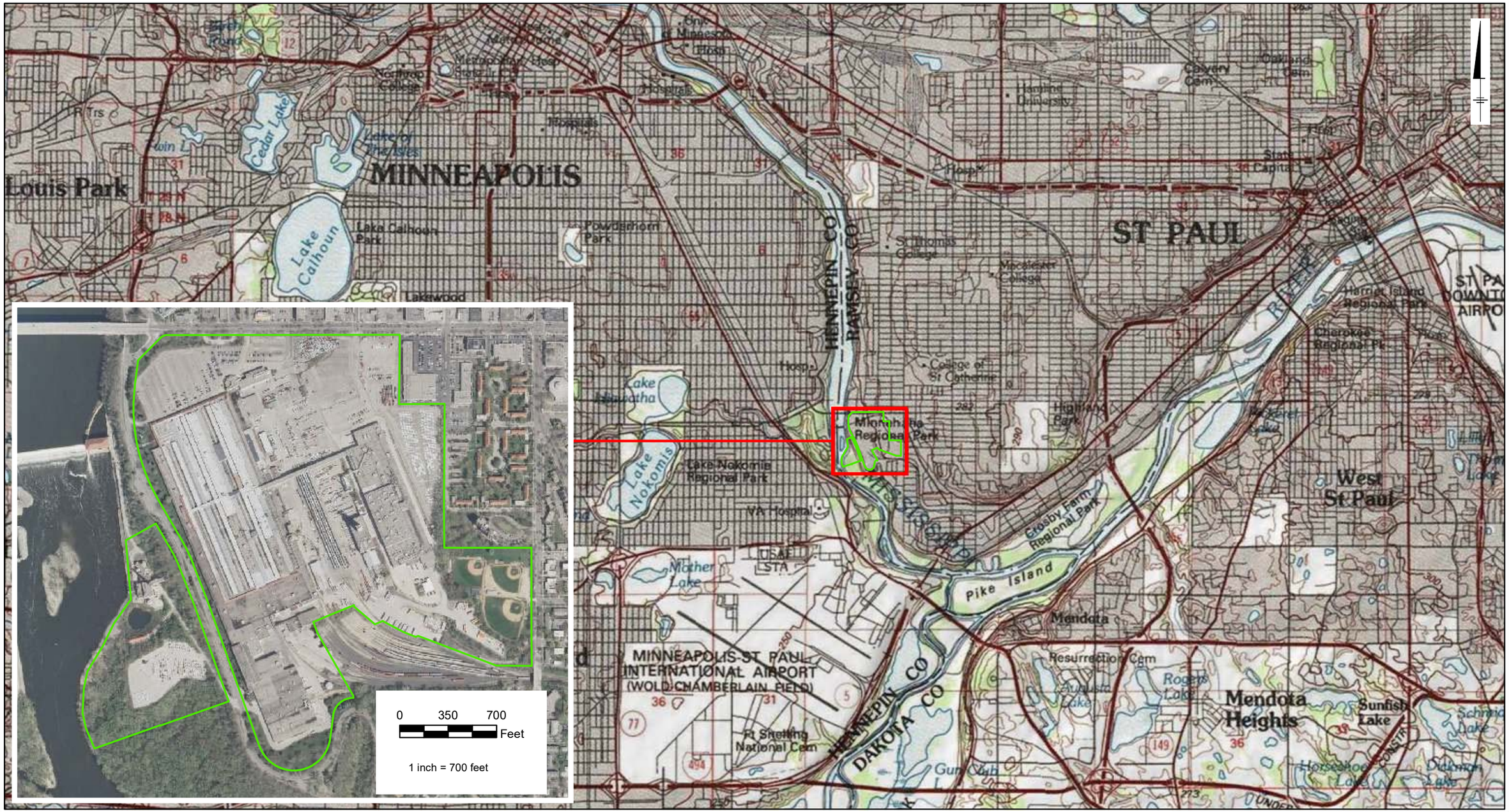
General Notes:

Bolded	= detected concentrations
Yellow Shading	= Above Class 2B Waters CS
Red Shading	= Above Class 2B Waters MS
Italics	= Above Class 2B Waters FAV

Acronyms and Abbreviations:

* = site-specific aluminum value provided by MPCA
< = not detected above reporting detection limit
J = estimated result
NA = not analyzed
ND = not detected
NS = no standard
UB = determined non-detect at the reporting limit by Cadena validation
µg/L = micrograms per liter

FIGURES



LEGEND:

Ford Property Boundary

NOTES:

Imagery Source: MnGeo WMS service, 2010 color 7-county
http://geoint.lmic.state.mn.us/cgi-bin/wms? Accessed 4/26/2016

Topographic Map Source:
© 2007 National Geographic Society

Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Site Location / Property Layout

ARCADIS

FIGURE
1

CITY: Minneapolis, MN DB: MGress PM: BZinda
Project MN000593
Document Path: Z:\GISPROJECTS_ENV\Ford Ranger\ArcMap\2016\2016-04\Fig1_Site_Location_Topo.mxd

LEGEND:

- Platteville Limestone Monitoring Well
- St. Peter Sandstone Monitoring Well
- Former Buildings
- Ford Property Boundary

NOTES:

AMW = Arcadis Monitoring Well

Imagery Source: MnGeo WMS service, 2016 color 7-county
http://geoint.lmic.state.mn.us/cgi-bin/wms?

0 400 800 Feet

1 inch = 400 feet

Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Site Map

ARCADIS

FIGURE
2

CITY: Minneapolis, MN DB: MGress PM: Bryan Zinda
Project MN000593
Path: Z:\GISProjects_ENV\Ford\Ford Ranger\ArcMap\2018\2018-10\Site_Map_20181030.mxd

LEGEND:

Monitoring Wells

Platteville Monitoring Well

St. Peter Monitoring Well

Former Buildings

Ford Property Boundary

700 Groundwater Elevation (Dashed Where Inferred)

Groundwater Elevations (701.04)
(Feet above Mean Sea Level)

NOTES:

Groundwater elevations collected on June 1, 2018

NR = Not Recorded

Only the St. Peter Monitoring wells within the Main parcel were used to create contours.

Imagery Source: MnGeo WMS service, 2016 color 7-county http://geoint.lmic.state.mn.us/cgi-bin/wms?

0 400 800 Feet

1 inch = 400 feet

Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Potentiometric Surface Map - St. Peter Sandstone March 2019

ARCADIS

FIGURE 3

CITY: Minneapolis, MN DB: MGress PM: Bryan Zinda
Project MN000593
Path: Z:\GISProjects_ENV\Ford\Ford Ranger\ArcMap\2019\06-2019\Site_Pot_Map_March2019.mxd

Constituent	Class 2B Waters CS	MS	FAV
Total Metals			
Aluminum	1500		3,000
Chromium	11	16	32
Cobalt	5.0	436	872
Copper	14	31	62
Nickel	259	2332	4664
Silver	1	6	11
Thallium	0.56	64	128
Zinc	174	193	385
Bolding	Surface Water Criteria		

AMW-31

	6/1/2018	8/27/2018	3/28/2019
Metals			
Silver	< 10	< 10	1.2 J

AMW-30

	5/31/2018	8/22/2018	3/28/2019
Metals			
Aluminum	**42000**	**36000**	**45000**
Cobalt	**49**	**42**	**49**
Copper	**120**	**54**	**130**
Nickel	**290**	240	**310**
Thallium	**6.5**	**6.3**	**7.1**

AMW-05

	5/23/2018	8/28/2018	3/21/2019
Metals			
Aluminum	**2300**	NS	NS
Chromium	**13**	NS	NS

AMW-05B

	5/23/2018	8/28/2018	3/21/2019
Metals			
Cobalt	**5.9 J**	**19**	3.3 J

AMW-29

	5/24/2018	8/24/2018	8/24/2018	3/28/2019
Metals				
Aluminum	**42000**	**34,000**	NA	**27000**
Cobalt	**100**	**87**	NA	**72**
Copper	**77**	**72**	NA	**78**
Nickel	**400**	**320**	NA	170
Thallium	**1.9**	NA	**1.9**	**1.6**
Zinc	**190**	160	NA	140

LEGEND:

Monitoring Wells

- Unconsolidated Soils Monitoring Well
- Platteville Monitoring Well
- St. Peter Monitoring Well
- Former Buildings
- Ford Property Boundary

NOTES: Analytical results are compared to Class 2B Surface Water Values for St. Peter monitoring wells and MDH Derived Values for Platteville monitoring wells.

Results reported in micrograms per liter (µg/L)
Results displayed for exceedances only
AMW = Arcadis Monitoring Well
CS = Chronic Standard
FAV = Final Acute Value
J = estimated result
MDH = Minnesota Department of Health
MPCA = Minnesota Pollution Control Agency
MS = Maximum Standard
VOCs = volatile organic compounds
TPH = total petroleum hydrocarbon
NS = not sampled because well was dry

0 400 800 Feet

1 inch = 400 feet

Imagery Source: MnGeo WMS service, 2016 color 7-county http://geoint.lmic.state.mn.us/cgi-bin/wms?

Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Site Wide Groundwater Exceedances - 2019

ARCADIS

FIGURE 4

CITY: Minneapolis, MN DB: MGress PM: Bryan Zinda
Project MN000593
Path: Z:\GISProjects_ENV\Ford\Ford Ranger\ArcMap\2019\06-2019\Site_GW_2019_Exceed.mxd

ATTACHMENT 1

Field Sampling Logs

ARCADIS

Water-Level Measurement Form

Project No: MN000653.0006
Location: St. Paul, MN

Date: 3/18/19
Recorded By: T. Moltor

	Well Number	Time	Static Depth to Water (ft btoc)	Duplicate Reading (ft btoc)	Total Depth (ft btoc)	Comments
	AMW-03B	0850	99.67		151	POP, when opened. frozen ass.
	AMW-05	1047	31.24		31	
	AMW-05B	1045	30.58		55	
Dup	AMW-07	1101	41.19		45	
	AMW-19	1024	17.01		27	
	AMW-20	1021	19.08		26	
	AMW-21	1054	48.73		59	
MS/MSD	AMW-22	1032	16.17		28	
	AMW-22B	1039	16.11		45	
	AMW-23	1012	20.48		29	
	AMW-23B	1016	25.33		49	
	AMW-24	1007	17.89		25	
Dup	AMW-25	1002	15.73		24	
	AMW-26	935	78.94		88	
	AMW-27	859	98.28		108	
~~MS/MSD~~	AMW-28	909	103.19		117	
~~Dup~~	AMW-29	0809	116.32		124	
	AMW 30	818	113.94		122	
	AMW-31	826	105.13		120	
	A					

ft btoc Feet below top of casing.

ARCADIS

Groundwater Sampling Form

Project Number: MN000653.0006
Date: 3/28/19
Sampling Time: 0820
Weather: 40s MOSTLY SUNNY

Task: 00004
Sampled By: KMK THM
Recorded By: KMK THM
Duplicate/QA/QC: —

Well ID: AMW-03B

Instrument Identification

Instrument:	PID	Water Quality Meter(s)
Serial #:		

Purging Information

Casing Material: Steel
Casing Diameter: 2"
Total Depth: 151 ft
Depth to Water: 99.56
Water Column: 51.44
Gallons/Foot: 0.16
Gallons in Well: 8.23 gal

Purge Method:(circle one) Mega-monsoon Submersible Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: 141 To: 151
Pump Intake Setting: 125* *obstruction @ 130'
Volumes to be Purged: NA
Total Volume Purged:
Pump On: 0730 Off: 0825

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	mg/L Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
0735		100		99.56	8.77	0.145	52.45	1.47	8.396	71.6	
0740					9.05	0.145	27.08	1.11	9.672	68.8	
0745					9.23	0.146	21.74	1.00	10.318	64.9	
0750					9.35	0.147	18.33	0.83	11.590	60.3	
0755					9.45	0.150	12.58	0.60	12.019	56.7	
0800					9.49	0.152	12.37	0.50	11.914	54.3	
0805					9.57	0.158	10.90	0.28	11.700	47.7	
0810					9.63	0.162	9.50	0.15	11.630	34.5	
0815				103.93	9.64	0.164	7.69	0.10	11.560	20.7	
0820	SAMPLE										

Observations During Sampling

Well Condition:
Color: GRAY
Odor: —

Purge Water Disposal: ON SITE STORAGE
Turbidity(qualitative): MOSTLY CLEAR
Other (OVA, HNU,etc.): —

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative

ARCADIS

Groundwater Sampling Form

Project Number:	MN000653.0006	Task:		**Well ID:**	AMW- 05B
Date:	3/21/19	Sampled By:	JRA KMK		
Sampling Time:	1135	Recorded By:	KMK		
Weather:	41°F SUNNY	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s)
Serial #:		

Purging Information

Casing Material: metal
Casing Diameter: 2"
Total Depth: 55
Depth to Water: 29.20
Water Column: 25.72
Gallons/Foot: 0.16
Gallons in Well: 4.11 gal

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: 45 To: 55
Pump Intake Setting: 50
Volumes to be Purged: NA
Total Volume Purged:
Pump On: 1035 Off: 1145

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1045	10	100		29.28	6.81	1.052	19.58	1.96	10.107	-40.9	
1050	15	"			6.87	1.056	14.71	1.34	10.402	-49.9	
1055	20	"			6.90	1.059	14.25	1.05	10.373	-54.8	
1100	25	"		29.20	6.91	1.061	16.41	0.76	10.624	-60.2	
1105	30	"			6.92	1.060	19.49	0.69	10.732	-63.5	
1110	35				6.93	1.059	24.65	0.60	10.832	-65.9	
1115	40			29.14	6.94	1.059	29.47	0.48	10.732	-68.8	
1120	45				6.94	1.057	33.70	0.46	10.307	-71.0	
1125	50				6.94	1.057	42.11	.36	10.773	-73.3	
1130	55				6.95	1.057	46.29	0.30	10.961	-74.5	
1135	60				6.95	1.059	55.29	0.22	10.000	-76.9	

Observations During Sampling

Well Condition: GOOD
Color: GRAY
Odor: SLIGHT ODOR

Purge Water Disposal: ONSITE STORAGE
Turbidity(qualitative): SLIGHTLY CLOUDY
Other (OVA, HNU,etc.): —

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
	VOA 40mL	
Metals / Thallium	500mL	
Cyanide	200mL	

ARCADIS

Groundwater Sampling Form

Project Number:	MN000653.0006	Task:		**Well ID:**	AMW- 27
Date:	3/25/19	Sampled By:	KMK JRA THM		
Sampling Time:	~~1005~~ KMK 1000	Recorded By:	KMK JRA THM		
Weather:	25°F PARTLY CLOUDY	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s)
Serial #:		

Purging Information

Casing Material:	METAL	Purge Method:(circle one)	MONSOON Submersible	Centrifugal	Bladder BAILED SAMPLE Bailer Peristaltic
Casing Diameter:	2"	Screen Interval: From:	98	To:	108
Total Depth:	108 ft	Pump Intake Setting:	102		
Depth to Water:	98.24	Volumes to be Purged:	NA		
Water Column:	9.8	Total Volume Purged:	~4 gal		
Gallons/Foot:	0.16	Pump On:	0855	Off:	1015
Gallons in Well:	1.568 gal				

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity mS/cm (µmhos/cm)	Turbidity (NTUs)	Diss. mg/L Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
0905	10	200		99.01	7.17	0.726	—	0.91	8.24	-102.0	
0910	15	"		98.00	7.13	0.721	—	0.81	8.32	-102.7	
0915	20	"			7.13	0.731	118.46	0.81	6.241	-102.0	
0920	25	"			7.13	0.720	106.00	0.79	6.237	-102.6	
0925	30	"		98.65	7.13	0.692	98.42	0.83	8.09	-102.7	
0930	35				7.13	0.672	51.22	0.78	10.683	-103.0	
0935	40			98.72	7.13	0.662	39.30	0.59	11.040	-104.6	
0940	45				7.13	0.646	28.35	0.48	12.360	-106.1	
0945	50				7.13	0.639	22.22	0.44	13.120	-106.0	
0950	55				7.13	0.632	17.12	0.38	13.263	-107.0	
0955	60			99.50	7.14	0.634	25.74	0.36	12.035	-107.2	
1000	SAMPLE										

Observations During Sampling

Well Condition:	OKAY	Purge Water Disposal:	ON SITE STORAGE
Color:	BROWN-ISH	Turbidity(qualitative):	~~SLIGHT ODOR~~ KMK CLOUDY
Odor:	SLIGHT ODOR	Other (OVA, HNU,etc.):	—

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

Project Number: MN000653.0006 Task: Well ID: AMW-28

Date: ~~3/25/19~~ 3/27/19 Sampled By: THM

Sampling Time: 1440 Recorded By: RMK

Weather: ~~45~~ °F ~~MOSTLY SUNNY~~ CLOUDY, WINDY Duplicate/QA/QC: ~~MS/MSD~~

Instrument Identification

Instrument:	PID	Water Quality Meter(s)
Serial #:		

Purging Information

Casing Material: METAL

Casing Diameter: 2"

Total Depth: 117 ft

Depth to Water: 102.72

Water Column: 14.88

Gallons/Foot: 0.16

Gallons in Well: 2.38 gal

Purge Method:(circle one) ~~Peristaltic~~ Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: 107 To: 117

Pump Intake Setting: 112

Volumes to be Purged: NA

Total Volume Purged:

Pump On: 1400 Off:

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	mg/L Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1400	10	300			7.95	0.483	41.10	0.51	12.560	-169.8	
1415	15				7.80	0.492	22.32	0.38	12.530	-157.4	
1420	20			102.62	7.38	0.490	8.11	0.30	13.559	-118.1	
1425	25				7.27	0.491	4.77	0.28	13.680	-110.8	
1430	30				7.18	0.490	3.39	0.26	13.706	-105.5	
1435	35			102.60	7.15	0.490	2.81	0.25	13.721	-103.9	

Observations During Sampling

Well Condition: GOOD

Color: GRAY

Odor: NONE

Purge Water Disposal: ON SITE STORAGE

Turbidity(qualitative): CLEAR

Other (OVA, HNU,etc.): —

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative

ARCADIS

Groundwater Sampling Form

Project Number:	MN000653.0006	Task:		**Well ID:**	AMW-29
Date:	3/28/19	Sampled By:	THM		
Sampling Time:	1005	Recorded By:	KMK		
Weather:	30s SUNNY	Duplicate/QA/QC:	~~DUP~~ KMK		

Instrument Identification

Instrument:	PID	Water Quality Meter(s)
Serial #:		

Purging Information

Casing Material: Metal
Casing Diameter: 2"
Total Depth: 124ft
Depth to Water: 115.58' 115.55' pump IN
Water Column:
Gallons/Foot: 0.16
Gallons in Well:

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: 114 To: 124
Pump Intake Setting: 120.3'
Volumes to be Purged: NA
Total Volume Purged:
Pump On: 0905 Off: 1016

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	mg/l Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
0910	5	125			5.08	0.709	24.86	2.00	10.366	189.70	
0915	10				4.58	0.703	40.25	1.24	9.670	193.20	
0920	15				4.48	0.704	34.30	1.49	9.360	197.90	
0925	20				4.41	0.712	28.40	1.72	9.400	202.10	
0930	25			116.66	4.38	0.717	18.90	1.84	8.660	204.40	
0935	30				4.37	0.711	20.22	2.13	8.351	205.50	
0940	35				4.37	0.710	20.18	2.21	8.250	205.8	
0945	40				4.36	0.708	17.60	2.61	7.820	206.5	
0950	45				4.35	0.707	15.90	2.79	7.700	206.8	
0955	50				4.35	0.705	14.90	2.97	7.810	206.6	
1000	55			115.62	4.34	0.705	12.82	3.17	8.009	206.6	
1005	SAMPLE										

Observations During Sampling

Well Condition: GOOD
Color: CLEAR
Odor: NONE

Purge Water Disposal: ON SITE STORAGE
Turbidity(qualitative): OPAQUE
Other (OVA, HNU,etc.): —

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative

TRANSDUCER: OUT: 0838
IN: 1015

ARCADIS

Groundwater Sampling Form

Project Number:	MN000653.0006	Task:		**Well ID:**	AMW-30
Date:	3/28/19	Sampled By:	THM		
Sampling Time:	1150	Recorded By:	THM		
Weather:	30s OVERCAST	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s)
Serial #:		

Purging Information

Casing Material:	Steel	Purge Method:(circle one)	Submersible	Centrifugal	Bladder Bailer Peristaltic
Casing Diameter:	2"	Screen Interval: From:	112	To:	122
Total Depth:	122.0	Pump Intake Setting:	117.5'		
Depth to Water:	112.92'	Volumes to be Purged:	NA		
Water Column:	9.08	Total Volume Purged:			
Gallons/Foot:	0.16	Pump On:	1050	Off:	1155
Gallons in Well:	1.45 gal				

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1055	5	275		113.60	4.38	0.956	74.21	1.19	12.770	210.3	
1100	10				4.31	0.964	70.00	1.88	13.384	214.8	
1105	15				4.22	0.973	30.48	3.34	14.095	220.6	
1110	20				4.16	0.977	12.71	4.34	14.479	226.4	
1115	25				4.11	0.979	3.12	5.07	14.455	232.6	
1120	~~30~~	—									TUBING DRAINED GRAB RUNNING AGAIN
1125	~~35~~										
1130	40			113.78	4.13	0.974	~~5.81~~	~~6.36~~	~~15.066~~	~~244.8~~	@ 1128
1135	35				4.12	0.969	7.00	6.49	15.113	242.8	
1140	40			113.41	4.13	0.970	8.66	6.43	14.879	245.0	
1145	45			113.57	—						
1150	SAMPLE										

Observations During Sampling

Well Condition:	GOOD	Purge Water Disposal:	ON SITE STORAGE
Color:	WHITE	Turbidity(qualitative):	OPAQUE
Odor:	NONE	Other (OVA, HNU,etc.):	—

Constituents Sampled	Container Description: From Lab	ARCADIS	Preservative

ARCADIS

Groundwater Sampling Form

Project Number:	MN000653.0006	Task:		**Well ID:**	AMW- 31
Date:	3/28/19	Sampled By:	THM		
Sampling Time:	1255	Recorded By:	KMK		
Weather:	38°F SUNNY	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s)
Serial #:		

Purging Information

Casing Material:	Steel	Purge Method:(circle one)	Submersible	Centrifugal	Bladder Bailer Peristaltic
Casing Diameter:	2"	Screen Interval: From:	110	To:	120
Total Depth:	120 ft	Pump Intake Setting:	~~115~~	111'	
Depth to Water:	104.32 ft	Volumes to be Purged:	NA		
Water Column:		Total Volume Purged:			
Gallons/Foot:	0.16	Pump On:	~~905~~ KMK 1220	Off:	~~920~~ KMK 1300
Gallons in Well:					

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1230	10			104.85	7.02	1.715	18.05	0.53	12.554	-106.5	
1235	15				7.13	1.751	7.60	0.47	13.324	-111.4	
1240	20				7.17	1.766	4.19	0.39	13.394	-112.7	
1245	25			105.10	7.20	1.767	6.40	0.16	13.989	-111.8	
1250	30			104.50	7.22	1.768	.57	.04	13.427	-113.0	
1255	SAMPLE										

Observations During Sampling

Well Condition:	GOOD	Purge Water Disposal:	ON SITE STORAGE
Color:	BLACK/GRY	Turbidity(qualitative):	OPAQUE
Odor:	NONE	Other (OVA, HNU,etc.):	—

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ATTACHMENT 2

Laboratory Analytical Reports

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-109868-1
Client Project/Site: Ford TCAP - E200572

For:
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Attn: Kristoffer Hinskey

Authorized for release by:
4/8/2019 3:14:12 PM

Michael DelMonico, Project Manager I
(330)497-9396
michael.delmonico@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-109868-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-109868-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The 9016 Free Cyanide analysis was performed at the Eurofins TestAmerica, Edison laboratory.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 3/23/2019 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.6º C, 0.8º C and 1.2º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3), DUP-02 (240-109868-4) and TRIP BLANK (240-109868-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/03/2019 and 04/04/2019.

cis-1,2-Dichloroethene was detected in method blank MB 240-374533/8 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Trichloroethene was detected in method blank MB 240-374533/8 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

1,2-Dichloroethane-d4 (Surr), 4-Bromofluorobenzene (Surr), Dibromofluoromethane (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3),

Job ID: 240-109868-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

DUP-02 (240-109868-4), and MB 240-374533/8. Refer to the QC report for details.

Benzene, Dibromomethane and tert-Butylbenzene failed the recovery criteria high for LCS 240-374533/4. Refer to the QC report for details.

The laboratory control sample (LCS) for analytical batch 240-374533 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4).

The method blank for preparation batch analytical batch 240-374533 contained cis-1,2-Dichloroethene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), DUP-02 (240-109868-4) and (MB 240-374533/8).

The MS/MSD for batch 240-374533 was not analyzed due to an instrument malfunction: AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4).

Surrogate recovery for the following samples were outside the upper control limit: AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3), DUP-02 (240-109868-4) and (MB 240-374533/8). These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No MS/MSD in this batch due to there are only blanks and 10X runs: TRIP BLANK (240-109868-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/25/2019 and analyzed on 03/27/2019.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN DRO

Samples AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 03/27/2019 and analyzed on 03/28/2019.

WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-373576/9-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN GRO

Samples AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 03/27/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 03/26/2019 and analyzed on 03/28/2019.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are

Job ID: 240-109868-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)
Samples AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for dissolved metals (ICP) in accordance with SW846 Method 6010D. The samples were prepared on 03/25/2019 and analyzed on 03/26/2019.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)
Samples AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for dissolved metals (ICPMS) in accordance with SW-846 Method 6020B. The samples were prepared on 03/25/2019 and analyzed on 03/26/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)
Samples AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/02/2019 and analyzed on 04/03/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FREE CYANIDE
Samples AMW-05B(20190321) (240-109868-1), AMW-07(20190321) (240-109868-2), AMW-26(20190321) (240-109868-3) and DUP-02 (240-109868-4) were analyzed for free cyanide in accordance with EPA SW-846 Method 9016. The samples were prepared and analyzed on 04/03/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CAN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN
6010D	Metals (ICP)	SW846	TAL CAN
6020B	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9016	Cyanide, Free	SW846	TAL EDI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CAN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN
7470A	Preparation, Mercury	SW846	TAL CAN
9016	Cyanide, Preparation	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-109868-1	AMW-05B(20190321)	Water	03/21/19 11:35	03/23/19 09:50
240-109868-2	AMW-07(20190321)	Water	03/21/19 09:30	03/23/19 09:50
240-109868-3	AMW-26(20190321)	Water	03/21/19 13:45	03/23/19 09:50
240-109868-4	DUP-02	Water	03/21/19 00:00	03/23/19 09:50
240-109868-5	TRIP BLANK	Water	03/21/19 00:00	03/23/19 09:50

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-05B(20190321) — Lab Sample ID: 240-109868-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.5		1.0	0.14	ug/L	1		8260B	Total/NA
Barium	65	J	200	1.3	ug/L	1		6010D	Dissolved
Cadmium	0.25	J	5.0	0.20	ug/L	1		6010D	Dissolved
Boron	59	J	100	23	ug/L	1		6010D	Dissolved
Calcium	130000		5000	310	ug/L	1		6010D	Dissolved
Cobalt	3.3	J	10	0.75	ug/L	1		6010D	Dissolved
Iron	5000		200	26	ug/L	1		6010D	Dissolved
Magnesium	40000		5000	780	ug/L	1		6010D	Dissolved
Manganese	210		15	2.1	ug/L	1		6010D	Dissolved
Nickel	3.0	J	40	2.2	ug/L	1		6010D	Dissolved
Potassium	3200	J	5000	560	ug/L	1		6010D	Dissolved
Sodium	33000		5000	560	ug/L	1		6010D	Dissolved

Client Sample ID: AMW-07(20190321) — Lab Sample ID: 240-109868-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.29	J	1.0	0.13	ug/L	1		8260B	Total/NA
Toluene	1.8		1.0	0.14	ug/L	1		8260B	Total/NA
Trichloroethene	2.2		1.0	0.10	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.037	J B	0.11	0.021	mg/L	1		WI-DRO	Total/NA
Aluminum	430		200	47	ug/L	1		6010D	Dissolved
Barium	10	J	200	1.3	ug/L	1		6010D	Dissolved
Beryllium	0.65	J	5.0	0.60	ug/L	1		6010D	Dissolved
Cadmium	0.42	J	5.0	0.20	ug/L	1		6010D	Dissolved
Boron	240		100	23	ug/L	1		6010D	Dissolved
Calcium	81000		5000	310	ug/L	1		6010D	Dissolved
Chromium	1.6	J	10	0.63	ug/L	1		6010D	Dissolved
Cobalt	7.8	J	10	0.75	ug/L	1		6010D	Dissolved
Iron	28	J	200	26	ug/L	1		6010D	Dissolved
Magnesium	33000		5000	780	ug/L	1		6010D	Dissolved
Manganese	66		15	2.1	ug/L	1		6010D	Dissolved
Nickel	28	J	40	2.2	ug/L	1		6010D	Dissolved
Potassium	5000		5000	560	ug/L	1		6010D	Dissolved
Sodium	20000		5000	560	ug/L	1		6010D	Dissolved
Zinc	57		50	9.7	ug/L	1		6010D	Dissolved
Thallium	1.8		1.0	0.20	ug/L	1		6020B	Dissolved

Client Sample ID: AMW-26(20190321) — Lab Sample ID: 240-109868-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	3.1		1.0	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.4		1.0	0.16	ug/L	1		8260B	Total/NA
Toluene	0.29	J	1.0	0.14	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.095	J B	0.10	0.020	mg/L	1		WI-DRO	Total/NA
Arsenic	9.3	J	10	4.1	ug/L	1		6010D	Dissolved
Barium	260		200	1.3	ug/L	1		6010D	Dissolved
Cadmium	0.37	J	5.0	0.20	ug/L	1		6010D	Dissolved
Boron	230		100	23	ug/L	1		6010D	Dissolved
Calcium	160000		5000	310	ug/L	1		6010D	Dissolved
Iron	16000		200	26	ug/L	1		6010D	Dissolved
Magnesium	47000		5000	780	ug/L	1		6010D	Dissolved
Manganese	2200		15	2.1	ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-26(20190321) (Continued) — Lab Sample ID: 240-109868-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	5700		5000	560	ug/L	1		6010D	Dissolved
Sodium	63000		5000	560	ug/L	1		6010D	Dissolved

Client Sample ID: DUP-02 — Lab Sample ID: 240-109868-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.30	J	1.0	0.13	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.15	J	1.0	0.15	ug/L	1		8260B	Total/NA
Toluene	1.7		1.0	0.14	ug/L	1		8260B	Total/NA
Trichloroethene	2.2		1.0	0.10	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.041	J B	0.10	0.020	mg/L	1		WI-DRO	Total/NA
Aluminum	450		200	47	ug/L	1		6010D	Dissolved
Barium	11	J	200	1.3	ug/L	1		6010D	Dissolved
Beryllium	0.64	J	5.0	0.60	ug/L	1		6010D	Dissolved
Cadmium	0.42	J	5.0	0.20	ug/L	1		6010D	Dissolved
Boron	240		100	23	ug/L	1		6010D	Dissolved
Calcium	84000		5000	310	ug/L	1		6010D	Dissolved
Chromium	1.6	J	10	0.63	ug/L	1		6010D	Dissolved
Cobalt	8.0	J	10	0.75	ug/L	1		6010D	Dissolved
Magnesium	34000		5000	780	ug/L	1		6010D	Dissolved
Manganese	66		15	2.1	ug/L	1		6010D	Dissolved
Nickel	30	J	40	2.2	ug/L	1		6010D	Dissolved
Potassium	5200		5000	560	ug/L	1		6010D	Dissolved
Sodium	21000		5000	560	ug/L	1		6010D	Dissolved
Zinc	54		50	9.7	ug/L	1		6010D	Dissolved
Thallium	1.8		1.0	0.20	ug/L	1		6020B	Dissolved

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-109868-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-05B(20190321)

Lab Sample ID: 240-109868-1

Date Collected: 03/21/19 11:35
Matrix: Water
Date Received: 03/23/19 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/03/19 17:50	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/03/19 17:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/03/19 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/03/19 17:50	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/03/19 17:50	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/03/19 17:50	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 17:50	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/03/19 17:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/03/19 17:50	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/03/19 17:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/03/19 17:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/03/19 17:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/03/19 17:50	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 17:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/03/19 17:50	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/03/19 17:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/03/19 17:50	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 17:50	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/03/19 17:50	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/03/19 17:50	1
Allyl chloride	ND		2.0	0.61	ug/L			04/03/19 17:50	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/03/19 17:50	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/03/19 17:50	1
2-Hexanone	ND		10	0.54	ug/L			04/03/19 17:50	1
Bromobenzene	ND		1.0	0.12	ug/L			04/03/19 17:50	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/03/19 17:50	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/03/19 17:50	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/03/19 17:50	1
Acetone	ND		10	5.4	ug/L			04/03/19 17:50	1
Benzene	ND	*	1.0	0.13	ug/L			04/03/19 17:50	1
Bromoform	ND		1.0	0.76	ug/L			04/03/19 17:50	1
Bromomethane	ND		1.0	0.42	ug/L			04/03/19 17:50	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/03/19 17:50	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/03/19 17:50	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/03/19 17:50	1
Chloroethane	ND		1.0	0.83	ug/L			04/03/19 17:50	1
Chloroform	ND		1.0	0.13	ug/L			04/03/19 17:50	1
Chloromethane	ND		1.0	0.20	ug/L			04/03/19 17:50	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/03/19 17:50	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/03/19 17:50	1
Cyclohexane	ND		1.0	0.24	ug/L			04/03/19 17:50	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/03/19 17:50	1
Dibromomethane	ND	*	1.0	0.090	ug/L			04/03/19 17:50	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/03/19 17:50	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/03/19 17:50	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/03/19 17:50	1
Ethyl ether	ND		2.0	0.19	ug/L			04/03/19 17:50	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/03/19 17:50	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/03/19 17:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-05B(20190321)

Lab Sample ID: 240-109868-1

Date Collected: 03/21/19 11:35
Date Received: 03/23/19 09:50

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/03/19 17:50	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/03/19 17:50	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/03/19 17:50	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/03/19 17:50	1
Methyl acetate	ND		10	1.7	ug/L			04/03/19 17:50	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/03/19 17:50	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/03/19 17:50	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/03/19 17:50	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/03/19 17:50	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/03/19 17:50	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/03/19 17:50	1
o-Xylene	ND		1.0	0.090	ug/L			04/03/19 17:50	1
Styrene	ND		1.0	0.10	ug/L			04/03/19 17:50	1
tert-Butylbenzene	ND	*	1.0	0.14	ug/L			04/03/19 17:50	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/03/19 17:50	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/03/19 17:50	1
Toluene	**4.5**		1.0	0.14	ug/L			04/04/19 16:30	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 17:50	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/03/19 17:50	1
Trichloroethene	ND		1.0	0.10	ug/L			04/03/19 17:50	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/03/19 17:50	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/03/19 17:50	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/03/19 17:50	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/03/19 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 121*		*04/03/19 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 121*		*04/04/19 16:30*	*1*
4-Bromofluorobenzene (Surr)	*129*	*X*	*59 - 120*		*04/03/19 17:50*	*1*
4-Bromofluorobenzene (Surr)	*79*		*59 - 120*		*04/04/19 16:30*	*1*
Toluene-d8 (Surr)	*125*	*X*	*70 - 123*		*04/03/19 17:50*	*1*
Toluene-d8 (Surr)	*90*		*70 - 123*		*04/04/19 16:30*	*1*
Dibromofluoromethane (Surr)	*132*	*X*	*75 - 128*		*04/03/19 17:50*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 128*		*04/04/19 16:30*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		03/25/19 14:00	03/26/19 12:08	1
Antimony	ND		20	7.5	ug/L		03/25/19 14:00	03/26/19 12:08	1
Arsenic	ND		10	4.1	ug/L		03/25/19 14:00	03/26/19 12:08	1
Barium	**65**	**J**	200	1.3	ug/L		03/25/19 14:00	03/26/19 12:08	1
Beryllium	ND		5.0	0.60	ug/L		03/25/19 14:00	03/26/19 12:08	1
Cadmium	**0.25**	**J**	5.0	0.20	ug/L		03/25/19 14:00	03/26/19 12:08	1
Boron	**59**	**J**	100	23	ug/L		03/25/19 14:00	03/26/19 12:08	1
Calcium	**130000**		5000	310	ug/L		03/25/19 14:00	03/26/19 12:08	1
Chromium	ND		10	0.63	ug/L		03/25/19 14:00	03/26/19 12:08	1
Cobalt	**3.3**	**J**	10	0.75	ug/L		03/25/19 14:00	03/26/19 12:08	1
Copper	ND		25	3.5	ug/L		03/25/19 14:00	03/26/19 12:08	1
Iron	**5000**		200	26	ug/L		03/25/19 14:00	03/26/19 12:08	1
Lead	ND		3.0	2.8	ug/L		03/25/19 14:00	03/26/19 12:08	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-05B(20190321)

Lab Sample ID: 240-109868-1

Date Collected: 03/21/19 11:35
Matrix: Water
Date Received: 03/23/19 09:50

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**40000**		5000	780	ug/L		03/25/19 14:00	03/26/19 12:08	1
Manganese	**210**		15	2.1	ug/L		03/25/19 14:00	03/26/19 12:08	1
Nickel	**3.0**	**J**	40	2.2	ug/L		03/25/19 14:00	03/26/19 12:08	1
Potassium	**3200**	**J**	5000	560	ug/L		03/25/19 14:00	03/26/19 12:08	1
Silver	ND		10	0.62	ug/L		03/25/19 14:00	03/26/19 12:08	1
Sodium	**33000**		5000	560	ug/L		03/25/19 14:00	03/26/19 12:08	1
Vanadium	ND		50	5.6	ug/L		03/25/19 14:00	03/26/19 12:08	1
Zinc	ND		50	9.7	ug/L		03/25/19 14:00	03/26/19 12:08	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		03/25/19 14:00	03/26/19 18:03	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/03/19 13:30	04/03/19 15:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-07(20190321)

Lab Sample ID: 240-109868-2

Date Collected: 03/21/19 09:30
Matrix: Water
Date Received: 03/23/19 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/03/19 18:13	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/03/19 18:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/03/19 18:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/03/19 18:13	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/03/19 18:13	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/03/19 18:13	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 18:13	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/03/19 18:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/03/19 18:13	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/03/19 18:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/03/19 18:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/03/19 18:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/03/19 18:13	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 18:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/03/19 18:13	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/03/19 18:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/03/19 18:13	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 18:13	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/03/19 18:13	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/03/19 18:13	1
Allyl chloride	ND		2.0	0.61	ug/L			04/03/19 18:13	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/03/19 18:13	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/03/19 18:13	1
2-Hexanone	ND		10	0.54	ug/L			04/03/19 18:13	1
Bromobenzene	ND		1.0	0.12	ug/L			04/03/19 18:13	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/03/19 18:13	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/03/19 18:13	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/03/19 18:13	1
Acetone	ND		10	5.4	ug/L			04/03/19 18:13	1
Benzene	ND	*	1.0	0.13	ug/L			04/03/19 18:13	1
Bromoform	ND		1.0	0.76	ug/L			04/03/19 18:13	1
Bromomethane	ND		1.0	0.42	ug/L			04/03/19 18:13	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/03/19 18:13	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/03/19 18:13	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/03/19 18:13	1
Chloroethane	ND		1.0	0.83	ug/L			04/03/19 18:13	1
Chloroform	**0.29**	**J**	1.0	0.13	ug/L			04/03/19 18:13	1
Chloromethane	ND		1.0	0.20	ug/L			04/03/19 18:13	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/03/19 18:13	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/03/19 18:13	1
Cyclohexane	ND		1.0	0.24	ug/L			04/03/19 18:13	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/03/19 18:13	1
Dibromomethane	ND	*	1.0	0.090	ug/L			04/03/19 18:13	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/03/19 18:13	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/03/19 18:13	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/03/19 18:13	1
Ethyl ether	ND		2.0	0.19	ug/L			04/03/19 18:13	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/03/19 18:13	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/03/19 18:13	1

Client Sample ID: AMW-07(20190321)

Lab Sample ID: 240-109868-2

Date Collected: 03/21/19 09:30

Matrix: Water

Date Received: 03/23/19 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/03/19 18:13	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/03/19 18:13	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/03/19 18:13	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/03/19 18:13	1
Methyl acetate	ND		10	1.7	ug/L			04/03/19 18:13	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/03/19 18:13	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/03/19 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/03/19 18:13	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/03/19 18:13	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/03/19 18:13	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/03/19 18:13	1
o-Xylene	ND		1.0	0.090	ug/L			04/03/19 18:13	1
Styrene	ND		1.0	0.10	ug/L			04/03/19 18:13	1
tert-Butylbenzene	ND	*	1.0	0.14	ug/L			04/03/19 18:13	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/03/19 18:13	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/03/19 18:13	1
Toluene	**1.8**		1.0	0.14	ug/L			04/04/19 16:59	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 18:13	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/03/19 18:13	1
Trichloroethene	**2.2**		1.0	0.10	ug/L			04/04/19 16:59	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/03/19 18:13	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/03/19 18:13	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/03/19 18:13	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/03/19 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*135*	*X*	*70 - 121*		*04/03/19 18:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 121*		*04/04/19 16:59*	*1*
4-Bromofluorobenzene (Surr)	*131*	*X*	*59 - 120*		*04/03/19 18:13*	*1*
4-Bromofluorobenzene (Surr)	*78*		*59 - 120*		*04/04/19 16:59*	*1*
Toluene-d8 (Surr)	*126*	*X*	*70 - 123*		*04/03/19 18:13*	*1*
Toluene-d8 (Surr)	*91*		*70 - 123*		*04/04/19 16:59*	*1*
Dibromofluoromethane (Surr)	*133*	*X*	*75 - 128*		*04/03/19 18:13*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 128*		*04/04/19 16:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:19	1
Acenaphthylene	ND		0.20	0.13	ug/L		03/25/19 08:54	03/27/19 13:19	1
Acetophenone	ND		1.0	0.37	ug/L		03/25/19 08:54	03/27/19 13:19	1
Anthracene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 13:19	1
Atrazine	ND		2.0	0.96	ug/L		03/25/19 08:54	03/27/19 13:19	1
Benzaldehyde	ND		2.0	0.77	ug/L		03/25/19 08:54	03/27/19 13:19	1
Benzo[a]anthracene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:19	1
Benzo[a]pyrene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:19	1
Benzo[b]fluoranthene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 13:19	1
Benzo[g,h,i]perylene	ND		0.20	0.18	ug/L		03/25/19 08:54	03/27/19 13:19	1
Benzo[k]fluoranthene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 13:19	1
1,1'-Biphenyl	ND		1.0	0.50	ug/L		03/25/19 08:54	03/27/19 13:19	1
Bis(2-chloroethoxy)methane	ND		1.0	0.46	ug/L		03/25/19 08:54	03/27/19 13:19	1

Client Sample ID: AMW-07(20190321)

Lab Sample ID: 240-109868-2

Date Collected: 03/21/19 09:30

Matrix: Water

Date Received: 03/23/19 09:50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		1.0	0.41	ug/L		03/25/19 08:54	03/27/19 13:19	1
Bis(2-ethylhexyl) phthalate	ND		5.1	2.2	ug/L		03/25/19 08:54	03/27/19 13:19	1
4-Bromophenyl phenyl ether	ND		2.0	0.50	ug/L		03/25/19 08:54	03/27/19 13:19	1
Butyl benzyl phthalate	ND		2.0	0.67	ug/L		03/25/19 08:54	03/27/19 13:19	1
Caprolactam	ND		5.1	0.94	ug/L		03/25/19 08:54	03/27/19 13:19	1
Carbazole	ND		1.0	0.49	ug/L		03/25/19 08:54	03/27/19 13:19	1
4-Chloroaniline	ND		2.0	0.32	ug/L		03/25/19 08:54	03/27/19 13:19	1
4-Chloro-3-methylphenol	ND		2.0	0.30	ug/L		03/25/19 08:54	03/27/19 13:19	1
2-Chloronaphthalene	ND		1.0	0.49	ug/L		03/25/19 08:54	03/27/19 13:19	1
2-Chlorophenol	ND		1.0	0.28	ug/L		03/25/19 08:54	03/27/19 13:19	1
4-Chlorophenyl phenyl ether	ND		2.0	0.56	ug/L		03/25/19 08:54	03/27/19 13:19	1
Chrysene	ND		0.20	0.19	ug/L		03/25/19 08:54	03/27/19 13:19	1
Dibenz(a,h)anthracene	ND		0.20	0.15	ug/L		03/25/19 08:54	03/27/19 13:19	1
Dibenzofuran	ND		1.0	0.57	ug/L		03/25/19 08:54	03/27/19 13:19	1
3,3'-Dichlorobenzidine	ND		5.1	1.2	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,4-Dichlorophenol	ND		2.0	0.26	ug/L		03/25/19 08:54	03/27/19 13:19	1
Diethyl phthalate	ND		5.1	3.9	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,4-Dimethylphenol	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:19	1
Dimethyl phthalate	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:19	1
Di-n-butyl phthalate	ND		5.1	1.8	ug/L		03/25/19 08:54	03/27/19 13:19	1
4,6-Dinitro-2-methylphenol	ND		5.1	2.8	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,4-Dinitrophenol	ND		10	6.3	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,4-Dinitrotoluene	ND		5.1	2.1	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,6-Dinitrotoluene	ND		5.1	2.1	ug/L		03/25/19 08:54	03/27/19 13:19	1
Di-n-octyl phthalate	ND		2.0	0.83	ug/L		03/25/19 08:54	03/27/19 13:19	1
Fluoranthene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 13:19	1
Fluorene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:19	1
Hexachlorobenzene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 13:19	1
Hexachlorobutadiene	ND		1.0	0.55	ug/L		03/25/19 08:54	03/27/19 13:19	1
Hexachlorocyclopentadiene	ND		10	1.8	ug/L		03/25/19 08:54	03/27/19 13:19	1
Hexachloroethane	ND		1.0	0.40	ug/L		03/25/19 08:54	03/27/19 13:19	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 13:19	1
Isophorone	ND		1.0	0.33	ug/L		03/25/19 08:54	03/27/19 13:19	1
2-Methylnaphthalene	ND		0.20	0.11	ug/L		03/25/19 08:54	03/27/19 13:19	1
2-Methylphenol	ND		1.0	0.21	ug/L		03/25/19 08:54	03/27/19 13:19	1
3 & 4 Methylphenol	ND		2.0	0.19	ug/L		03/25/19 08:54	03/27/19 13:19	1
Naphthalene	ND		0.20	0.11	ug/L		03/25/19 08:54	03/27/19 13:19	1
2-Nitroaniline	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:19	1
3-Nitroaniline	ND		2.0	0.57	ug/L		03/25/19 08:54	03/27/19 13:19	1
4-Nitroaniline	ND		2.0	0.93	ug/L		03/25/19 08:54	03/27/19 13:19	1
Nitrobenzene	ND		1.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:19	1
2-Nitrophenol	ND		2.0	0.57	ug/L		03/25/19 08:54	03/27/19 13:19	1
4-Nitrophenol	ND		10	2.2	ug/L		03/25/19 08:54	03/27/19 13:19	1
N-Nitrosodi-n-propylamine	ND		1.0	0.26	ug/L		03/25/19 08:54	03/27/19 13:19	1
N-Nitrosodiphenylamine	ND		1.0	0.44	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.56	ug/L		03/25/19 08:54	03/27/19 13:19	1
Pentachlorophenol	ND		10	3.1	ug/L		03/25/19 08:54	03/27/19 13:19	1
Phenanthrene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:19	1
Phenol	ND		1.0	0.13	ug/L		03/25/19 08:54	03/27/19 13:19	1

Client Sample ID: AMW-07(20190321)

Lab Sample ID: 240-109868-2

Date Collected: 03/21/19 09:30
Date Received: 03/23/19 09:50

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.20	0.18	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,4,5-Trichlorophenol	ND		5.1	2.0	ug/L		03/25/19 08:54	03/27/19 13:19	1
2,4,6-Trichlorophenol	ND		5.1	1.8	ug/L		03/25/19 08:54	03/27/19 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*	*03/25/19 08:54*	*03/27/19 13:19*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*03/25/19 08:54*	*03/27/19 13:19*	*1*
Nitrobenzene-d5 (Surr)	*82*		*32 - 120*	*03/25/19 08:54*	*03/27/19 13:19*	*1*
Phenol-d5 (Surr)	*36*		*10 - 120*	*03/25/19 08:54*	*03/27/19 13:19*	*1*
Terphenyl-d14 (Surr)	*73*		*23 - 127*	*03/25/19 08:54*	*03/27/19 13:19*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*28 - 120*	*03/25/19 08:54*	*03/27/19 13:19*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		5000	2000	ug/L			03/27/19 20:35	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.055	ug/L		03/26/19 09:36	03/28/19 12:32	1
Aroclor-1221	ND		0.20	0.056	ug/L		03/26/19 09:36	03/28/19 12:32	1
Aroclor-1232	ND		0.20	0.073	ug/L		03/26/19 09:36	03/28/19 12:32	1
Aroclor-1242	ND		0.20	0.075	ug/L		03/26/19 09:36	03/28/19 12:32	1
Aroclor-1248	ND		0.20	0.050	ug/L		03/26/19 09:36	03/28/19 12:32	1
Aroclor-1254	ND		0.20	0.040	ug/L		03/26/19 09:36	03/28/19 12:32	1
Aroclor-1260	ND		0.20	0.046	ug/L		03/26/19 09:36	03/28/19 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*22 - 120*	*03/26/19 09:36*	*03/28/19 12:32*	*1*
DCB Decachlorobiphenyl	*54*		*10 - 120*	*03/26/19 09:36*	*03/28/19 12:32*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**0.037**	**J B**	0.11	0.021	mg/L		03/27/19 13:38	03/28/19 21:02	1

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**430**		200	47	ug/L		03/25/19 14:00	03/26/19 12:13	1
Antimony	ND		20	7.5	ug/L		03/25/19 14:00	03/26/19 12:13	1
Arsenic	ND		10	4.1	ug/L		03/25/19 14:00	03/26/19 12:13	1
Barium	**10**	**J**	200	1.3	ug/L		03/25/19 14:00	03/26/19 12:13	1
Beryllium	**0.65**	**J**	5.0	0.60	ug/L		03/25/19 14:00	03/26/19 12:13	1
Cadmium	**0.42**	**J**	5.0	0.20	ug/L		03/25/19 14:00	03/26/19 12:13	1
Boron	**240**		100	23	ug/L		03/25/19 14:00	03/26/19 12:13	1
Calcium	**81000**		5000	310	ug/L		03/25/19 14:00	03/26/19 12:13	1
Chromium	**1.6**	**J**	10	0.63	ug/L		03/25/19 14:00	03/26/19 12:13	1
Cobalt	**7.8**	**J**	10	0.75	ug/L		03/25/19 14:00	03/26/19 12:13	1
Copper	ND		25	3.5	ug/L		03/25/19 14:00	03/26/19 12:13	1
Iron	**28**	**J**	200	26	ug/L		03/25/19 14:00	03/26/19 12:13	1
Lead	ND		3.0	2.8	ug/L		03/25/19 14:00	03/26/19 12:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-07(20190321)

Lab Sample ID: 240-109868-2

Date Collected: 03/21/19 09:30
Matrix: Water
Date Received: 03/23/19 09:50

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**33000**		5000	780	ug/L		03/25/19 14:00	03/26/19 12:13	1
Manganese	**66**		15	2.1	ug/L		03/25/19 14:00	03/26/19 12:13	1
Nickel	**28**	**J**	40	2.2	ug/L		03/25/19 14:00	03/26/19 12:13	1
Potassium	**5000**		5000	560	ug/L		03/25/19 14:00	03/26/19 12:13	1
Silver	ND		10	0.62	ug/L		03/25/19 14:00	03/26/19 12:13	1
Sodium	**20000**		5000	560	ug/L		03/25/19 14:00	03/26/19 12:13	1
Vanadium	ND		50	5.6	ug/L		03/25/19 14:00	03/26/19 12:13	1
Zinc	**57**		50	9.7	ug/L		03/25/19 14:00	03/26/19 12:13	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**1.8**		1.0	0.20	ug/L		03/25/19 14:00	03/26/19 18:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/03/19 13:30	04/03/19 15:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-26(20190321)

Lab Sample ID: 240-109868-3

Date Collected: 03/21/19 13:45
Matrix: Water
Date Received: 03/23/19 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/03/19 18:36	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/03/19 18:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/03/19 18:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/03/19 18:36	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/03/19 18:36	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/03/19 18:36	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 18:36	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/03/19 18:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/03/19 18:36	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/03/19 18:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/03/19 18:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/03/19 18:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/03/19 18:36	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 18:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/03/19 18:36	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/03/19 18:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/03/19 18:36	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 18:36	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/03/19 18:36	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/03/19 18:36	1
Allyl chloride	ND		2.0	0.61	ug/L			04/03/19 18:36	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/03/19 18:36	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/03/19 18:36	1
2-Hexanone	ND		10	0.54	ug/L			04/03/19 18:36	1
Bromobenzene	ND		1.0	0.12	ug/L			04/03/19 18:36	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/03/19 18:36	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/03/19 18:36	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/03/19 18:36	1
Acetone	ND		10	5.4	ug/L			04/03/19 18:36	1
Benzene	ND	*	1.0	0.13	ug/L			04/03/19 18:36	1
Bromoform	ND		1.0	0.76	ug/L			04/03/19 18:36	1
Bromomethane	ND		1.0	0.42	ug/L			04/03/19 18:36	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/03/19 18:36	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/03/19 18:36	1
Chlorobenzene	**3.1**		1.0	0.14	ug/L			04/04/19 17:23	1
Chloroethane	ND		1.0	0.83	ug/L			04/03/19 18:36	1
Chloroform	ND		1.0	0.13	ug/L			04/03/19 18:36	1
Chloromethane	ND		1.0	0.20	ug/L			04/03/19 18:36	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.16	ug/L			04/04/19 17:23	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/03/19 18:36	1
Cyclohexane	ND		1.0	0.24	ug/L			04/03/19 18:36	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/03/19 18:36	1
Dibromomethane	ND	*	1.0	0.090	ug/L			04/03/19 18:36	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/03/19 18:36	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/03/19 18:36	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/03/19 18:36	1
Ethyl ether	ND		2.0	0.19	ug/L			04/03/19 18:36	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/03/19 18:36	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/03/19 18:36	1

Client Sample ID: AMW-26(20190321)

Lab Sample ID: 240-109868-3

Date Collected: 03/21/19 13:45

Matrix: Water

Date Received: 03/23/19 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/03/19 18:36	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/03/19 18:36	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/03/19 18:36	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/03/19 18:36	1
Methyl acetate	ND		10	1.7	ug/L			04/03/19 18:36	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/03/19 18:36	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/03/19 18:36	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/03/19 18:36	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/03/19 18:36	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/03/19 18:36	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/03/19 18:36	1
o-Xylene	ND		1.0	0.090	ug/L			04/03/19 18:36	1
Styrene	ND		1.0	0.10	ug/L			04/03/19 18:36	1
tert-Butylbenzene	ND	*	1.0	0.14	ug/L			04/03/19 18:36	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/03/19 18:36	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/03/19 18:36	1
Toluene	**0.29**	**J**	1.0	0.14	ug/L			04/03/19 18:36	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 18:36	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/03/19 18:36	1
Trichloroethene	ND		1.0	0.10	ug/L			04/03/19 18:36	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/03/19 18:36	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/03/19 18:36	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/03/19 18:36	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/03/19 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 121*		*04/03/19 18:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 121*		*04/04/19 17:23*	*1*
4-Bromofluorobenzene (Surr)	*129*	*X*	*59 - 120*		*04/03/19 18:36*	*1*
4-Bromofluorobenzene (Surr)	*79*		*59 - 120*		*04/04/19 17:23*	*1*
Toluene-d8 (Surr)	*125*	*X*	*70 - 123*		*04/03/19 18:36*	*1*
Toluene-d8 (Surr)	*94*		*70 - 123*		*04/04/19 17:23*	*1*
Dibromofluoromethane (Surr)	*132*	*X*	*75 - 128*		*04/03/19 18:36*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 128*		*04/04/19 17:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:43	1
Acenaphthylene	ND		0.20	0.13	ug/L		03/25/19 08:54	03/27/19 13:43	1
Acetophenone	ND		1.0	0.37	ug/L		03/25/19 08:54	03/27/19 13:43	1
Anthracene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 13:43	1
Atrazine	ND		2.0	0.96	ug/L		03/25/19 08:54	03/27/19 13:43	1
Benzaldehyde	ND		2.0	0.77	ug/L		03/25/19 08:54	03/27/19 13:43	1
Benzo[a]anthracene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:43	1
Benzo[a]pyrene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:43	1
Benzo[b]fluoranthene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 13:43	1
Benzo[g,h,i]perylene	ND		0.20	0.18	ug/L		03/25/19 08:54	03/27/19 13:43	1
Benzo[k]fluoranthene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 13:43	1
1,1'-Biphenyl	ND		1.0	0.50	ug/L		03/25/19 08:54	03/27/19 13:43	1
Bis(2-chloroethoxy)methane	ND		1.0	0.46	ug/L		03/25/19 08:54	03/27/19 13:43	1

Client Sample ID: AMW-26(20190321)

Lab Sample ID: 240-109868-3

Date Collected: 03/21/19 13:45

Matrix: Water

Date Received: 03/23/19 09:50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		1.0	0.41	ug/L		03/25/19 08:54	03/27/19 13:43	1
Bis(2-ethylhexyl) phthalate	ND		5.1	2.2	ug/L		03/25/19 08:54	03/27/19 13:43	1
4-Bromophenyl phenyl ether	ND		2.0	0.50	ug/L		03/25/19 08:54	03/27/19 13:43	1
Butyl benzyl phthalate	ND		2.0	0.67	ug/L		03/25/19 08:54	03/27/19 13:43	1
Caprolactam	ND		5.1	0.94	ug/L		03/25/19 08:54	03/27/19 13:43	1
Carbazole	ND		1.0	0.49	ug/L		03/25/19 08:54	03/27/19 13:43	1
4-Chloroaniline	ND		2.0	0.32	ug/L		03/25/19 08:54	03/27/19 13:43	1
4-Chloro-3-methylphenol	ND		2.0	0.30	ug/L		03/25/19 08:54	03/27/19 13:43	1
2-Chloronaphthalene	ND		1.0	0.49	ug/L		03/25/19 08:54	03/27/19 13:43	1
2-Chlorophenol	ND		1.0	0.28	ug/L		03/25/19 08:54	03/27/19 13:43	1
4-Chlorophenyl phenyl ether	ND		2.0	0.56	ug/L		03/25/19 08:54	03/27/19 13:43	1
Chrysene	ND		0.20	0.19	ug/L		03/25/19 08:54	03/27/19 13:43	1
Dibenz(a,h)anthracene	ND		0.20	0.15	ug/L		03/25/19 08:54	03/27/19 13:43	1
Dibenzofuran	ND		1.0	0.57	ug/L		03/25/19 08:54	03/27/19 13:43	1
3,3'-Dichlorobenzidine	ND		5.1	1.2	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,4-Dichlorophenol	ND		2.0	0.26	ug/L		03/25/19 08:54	03/27/19 13:43	1
Diethyl phthalate	ND		5.1	3.9	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,4-Dimethylphenol	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:43	1
Dimethyl phthalate	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:43	1
Di-n-butyl phthalate	ND		5.1	1.8	ug/L		03/25/19 08:54	03/27/19 13:43	1
4,6-Dinitro-2-methylphenol	ND		5.1	2.8	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,4-Dinitrophenol	ND		10	6.3	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,4-Dinitrotoluene	ND		5.1	2.1	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,6-Dinitrotoluene	ND		5.1	2.1	ug/L		03/25/19 08:54	03/27/19 13:43	1
Di-n-octyl phthalate	ND		2.0	0.83	ug/L		03/25/19 08:54	03/27/19 13:43	1
Fluoranthene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 13:43	1
Fluorene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:43	1
Hexachlorobenzene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 13:43	1
Hexachlorobutadiene	ND		1.0	0.55	ug/L		03/25/19 08:54	03/27/19 13:43	1
Hexachlorocyclopentadiene	ND		10	1.8	ug/L		03/25/19 08:54	03/27/19 13:43	1
Hexachloroethane	ND		1.0	0.40	ug/L		03/25/19 08:54	03/27/19 13:43	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 13:43	1
Isophorone	ND		1.0	0.33	ug/L		03/25/19 08:54	03/27/19 13:43	1
2-Methylnaphthalene	ND		0.20	0.11	ug/L		03/25/19 08:54	03/27/19 13:43	1
2-Methylphenol	ND		1.0	0.21	ug/L		03/25/19 08:54	03/27/19 13:43	1
3 & 4 Methylphenol	ND		2.0	0.19	ug/L		03/25/19 08:54	03/27/19 13:43	1
Naphthalene	ND		0.20	0.11	ug/L		03/25/19 08:54	03/27/19 13:43	1
2-Nitroaniline	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:43	1
3-Nitroaniline	ND		2.0	0.57	ug/L		03/25/19 08:54	03/27/19 13:43	1
4-Nitroaniline	ND		2.0	0.93	ug/L		03/25/19 08:54	03/27/19 13:43	1
Nitrobenzene	ND		1.0	0.52	ug/L		03/25/19 08:54	03/27/19 13:43	1
2-Nitrophenol	ND		2.0	0.57	ug/L		03/25/19 08:54	03/27/19 13:43	1
4-Nitrophenol	ND		10	2.2	ug/L		03/25/19 08:54	03/27/19 13:43	1
N-Nitrosodi-n-propylamine	ND		1.0	0.26	ug/L		03/25/19 08:54	03/27/19 13:43	1
N-Nitrosodiphenylamine	ND		1.0	0.44	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.56	ug/L		03/25/19 08:54	03/27/19 13:43	1
Pentachlorophenol	ND		10	3.1	ug/L		03/25/19 08:54	03/27/19 13:43	1
Phenanthrene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 13:43	1
Phenol	ND		1.0	0.13	ug/L		03/25/19 08:54	03/27/19 13:43	1

Client Sample ID: AMW-26(20190321)

Lab Sample ID: 240-109868-3

Date Collected: 03/21/19 13:45
Date Received: 03/23/19 09:50

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.20	0.18	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,4,5-Trichlorophenol	ND		5.1	2.0	ug/L		03/25/19 08:54	03/27/19 13:43	1
2,4,6-Trichlorophenol	ND		5.1	1.8	ug/L		03/25/19 08:54	03/27/19 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*38 - 120*	*03/25/19 08:54*	*03/27/19 13:43*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/25/19 08:54*	*03/27/19 13:43*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 120*	*03/25/19 08:54*	*03/27/19 13:43*	*1*
Phenol-d5 (Surr)	*34*		*10 - 120*	*03/25/19 08:54*	*03/27/19 13:43*	*1*
Terphenyl-d14 (Surr)	*82*		*23 - 127*	*03/25/19 08:54*	*03/27/19 13:43*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*28 - 120*	*03/25/19 08:54*	*03/27/19 13:43*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		5000	2000	ug/L			03/27/19 21:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.053	ug/L		03/26/19 09:36	03/28/19 12:50	1
Aroclor-1221	ND		0.19	0.054	ug/L		03/26/19 09:36	03/28/19 12:50	1
Aroclor-1232	ND		0.19	0.070	ug/L		03/26/19 09:36	03/28/19 12:50	1
Aroclor-1242	ND		0.19	0.072	ug/L		03/26/19 09:36	03/28/19 12:50	1
Aroclor-1248	ND		0.19	0.048	ug/L		03/26/19 09:36	03/28/19 12:50	1
Aroclor-1254	ND		0.19	0.038	ug/L		03/26/19 09:36	03/28/19 12:50	1
Aroclor-1260	ND		0.19	0.044	ug/L		03/26/19 09:36	03/28/19 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*22 - 120*	*03/26/19 09:36*	*03/28/19 12:50*	*1*
DCB Decachlorobiphenyl	*23*		*10 - 120*	*03/26/19 09:36*	*03/28/19 12:50*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**0.095**	**J B**	0.10	0.020	mg/L		03/27/19 13:38	03/28/19 21:29	1

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		03/25/19 14:00	03/26/19 12:18	1
Antimony	ND		20	7.5	ug/L		03/25/19 14:00	03/26/19 12:18	1
Arsenic	**9.3**	**J**	10	4.1	ug/L		03/25/19 14:00	03/26/19 12:18	1
Barium	**260**		200	1.3	ug/L		03/25/19 14:00	03/26/19 12:18	1
Beryllium	ND		5.0	0.60	ug/L		03/25/19 14:00	03/26/19 12:18	1
Cadmium	**0.37**	**J**	5.0	0.20	ug/L		03/25/19 14:00	03/26/19 12:18	1
Boron	**230**		100	23	ug/L		03/25/19 14:00	03/26/19 12:18	1
Calcium	**160000**		5000	310	ug/L		03/25/19 14:00	03/26/19 12:18	1
Chromium	ND		10	0.63	ug/L		03/25/19 14:00	03/26/19 12:18	1
Cobalt	ND		10	0.75	ug/L		03/25/19 14:00	03/26/19 12:18	1
Copper	ND		25	3.5	ug/L		03/25/19 14:00	03/26/19 12:18	1
Iron	**16000**		200	26	ug/L		03/25/19 14:00	03/26/19 12:18	1
Lead	ND		3.0	2.8	ug/L		03/25/19 14:00	03/26/19 12:18	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-26(20190321)

Lab Sample ID: 240-109868-3

Date Collected: 03/21/19 13:45
Matrix: Water
Date Received: 03/23/19 09:50

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**47000**		5000	780	ug/L		03/25/19 14:00	03/26/19 12:18	1
Manganese	**2200**		15	2.1	ug/L		03/25/19 14:00	03/26/19 12:18	1
Nickel	ND		40	2.2	ug/L		03/25/19 14:00	03/26/19 12:18	1
Potassium	**5700**		5000	560	ug/L		03/25/19 14:00	03/26/19 12:18	1
Silver	ND		10	0.62	ug/L		03/25/19 14:00	03/26/19 12:18	1
Sodium	**63000**		5000	560	ug/L		03/25/19 14:00	03/26/19 12:18	1
Vanadium	ND		50	5.6	ug/L		03/25/19 14:00	03/26/19 12:18	1
Zinc	ND		50	9.7	ug/L		03/25/19 14:00	03/26/19 12:18	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		03/25/19 14:00	03/26/19 18:08	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/03/19 13:30	04/03/19 15:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: DUP-02

Date Collected: 03/21/19 00:00
Date Received: 03/23/19 09:50

Lab Sample ID: 240-109868-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/03/19 18:58	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/03/19 18:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/03/19 18:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/03/19 18:58	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/03/19 18:58	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/03/19 18:58	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 18:58	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/03/19 18:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/03/19 18:58	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/03/19 18:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/03/19 18:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/03/19 18:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/03/19 18:58	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 18:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/03/19 18:58	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/03/19 18:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/03/19 18:58	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 18:58	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/03/19 18:58	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/03/19 18:58	1
Allyl chloride	ND		2.0	0.61	ug/L			04/03/19 18:58	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/03/19 18:58	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/03/19 18:58	1
2-Hexanone	ND		10	0.54	ug/L			04/03/19 18:58	1
Bromobenzene	ND		1.0	0.12	ug/L			04/03/19 18:58	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/03/19 18:58	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/03/19 18:58	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/03/19 18:58	1
Acetone	ND		10	5.4	ug/L			04/03/19 18:58	1
Benzene	ND	*	1.0	0.13	ug/L			04/03/19 18:58	1
Bromoform	ND		1.0	0.76	ug/L			04/03/19 18:58	1
Bromomethane	ND		1.0	0.42	ug/L			04/03/19 18:58	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/03/19 18:58	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/03/19 18:58	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/03/19 18:58	1
Chloroethane	ND		1.0	0.83	ug/L			04/03/19 18:58	1
Chloroform	**0.30**	**J**	1.0	0.13	ug/L			04/03/19 18:58	1
Chloromethane	ND		1.0	0.20	ug/L			04/03/19 18:58	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/03/19 18:58	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/03/19 18:58	1
Cyclohexane	ND		1.0	0.24	ug/L			04/03/19 18:58	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/03/19 18:58	1
Dibromomethane	ND	*	1.0	0.090	ug/L			04/03/19 18:58	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/03/19 18:58	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/03/19 18:58	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/03/19 18:58	1
Ethyl ether	ND		2.0	0.19	ug/L			04/03/19 18:58	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/03/19 18:58	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/03/19 18:58	1

Client Sample ID: DUP-02

Date Collected: 03/21/19 00:00
Date Received: 03/23/19 09:50

Lab Sample ID: 240-109868-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/03/19 18:58	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/03/19 18:58	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/03/19 18:58	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/03/19 18:58	1
Methyl acetate	ND		10	1.7	ug/L			04/03/19 18:58	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/03/19 18:58	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/03/19 18:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/03/19 18:58	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/03/19 18:58	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/03/19 18:58	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/03/19 18:58	1
o-Xylene	ND		1.0	0.090	ug/L			04/03/19 18:58	1
Styrene	ND		1.0	0.10	ug/L			04/03/19 18:58	1
tert-Butylbenzene	ND	*	1.0	0.14	ug/L			04/03/19 18:58	1
Tetrachloroethene	**0.15**	**J**	1.0	0.15	ug/L			04/03/19 18:58	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/03/19 18:58	1
Toluene	**1.7**		1.0	0.14	ug/L			04/04/19 17:46	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 18:58	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/03/19 18:58	1
Trichloroethene	**2.2**		1.0	0.10	ug/L			04/04/19 17:46	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/03/19 18:58	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/03/19 18:58	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/03/19 18:58	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/03/19 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 121*		*04/03/19 18:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 121*		*04/04/19 17:46*	*1*
4-Bromofluorobenzene (Surr)	*132*	*X*	*59 - 120*		*04/03/19 18:58*	*1*
4-Bromofluorobenzene (Surr)	*77*		*59 - 120*		*04/04/19 17:46*	*1*
Toluene-d8 (Surr)	*127*	*X*	*70 - 123*		*04/03/19 18:58*	*1*
Toluene-d8 (Surr)	*92*		*70 - 123*		*04/04/19 17:46*	*1*
Dibromofluoromethane (Surr)	*133*	*X*	*75 - 128*		*04/03/19 18:58*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 128*		*04/04/19 17:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.16	ug/L		03/25/19 08:54	03/27/19 14:07	1
Acenaphthylene	ND		0.19	0.12	ug/L		03/25/19 08:54	03/27/19 14:07	1
Acetophenone	ND		0.95	0.35	ug/L		03/25/19 08:54	03/27/19 14:07	1
Anthracene	ND		0.19	0.13	ug/L		03/25/19 08:54	03/27/19 14:07	1
Atrazine	ND		1.9	0.91	ug/L		03/25/19 08:54	03/27/19 14:07	1
Benzaldehyde	ND		1.9	0.72	ug/L		03/25/19 08:54	03/27/19 14:07	1
Benzo[a]anthracene	ND		0.19	0.16	ug/L		03/25/19 08:54	03/27/19 14:07	1
Benzo[a]pyrene	ND		0.19	0.16	ug/L		03/25/19 08:54	03/27/19 14:07	1
Benzo[b]fluoranthene	ND		0.19	0.15	ug/L		03/25/19 08:54	03/27/19 14:07	1
Benzo[g,h,i]perylene	ND		0.19	0.17	ug/L		03/25/19 08:54	03/27/19 14:07	1
Benzo[k]fluoranthene	ND		0.19	0.13	ug/L		03/25/19 08:54	03/27/19 14:07	1
1,1'-Biphenyl	ND		0.95	0.47	ug/L		03/25/19 08:54	03/27/19 14:07	1
Bis(2-chloroethoxy)methane	ND		0.95	0.43	ug/L		03/25/19 08:54	03/27/19 14:07	1

Client Sample ID: DUP-02

Date Collected: 03/21/19 00:00
Date Received: 03/23/19 09:50

Lab Sample ID: 240-109868-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		0.95	0.38	ug/L		03/25/19 08:54	03/27/19 14:07	1
Bis(2-ethylhexyl) phthalate	ND		4.8	2.1	ug/L		03/25/19 08:54	03/27/19 14:07	1
4-Bromophenyl phenyl ether	ND		1.9	0.48	ug/L		03/25/19 08:54	03/27/19 14:07	1
Butyl benzyl phthalate	ND		1.9	0.63	ug/L		03/25/19 08:54	03/27/19 14:07	1
Caprolactam	ND		4.8	0.89	ug/L		03/25/19 08:54	03/27/19 14:07	1
Carbazole	ND		0.95	0.47	ug/L		03/25/19 08:54	03/27/19 14:07	1
4-Chloroaniline	ND		1.9	0.30	ug/L		03/25/19 08:54	03/27/19 14:07	1
4-Chloro-3-methylphenol	ND		1.9	0.28	ug/L		03/25/19 08:54	03/27/19 14:07	1
2-Chloronaphthalene	ND		0.95	0.46	ug/L		03/25/19 08:54	03/27/19 14:07	1
2-Chlorophenol	ND		0.95	0.26	ug/L		03/25/19 08:54	03/27/19 14:07	1
4-Chlorophenyl phenyl ether	ND		1.9	0.52	ug/L		03/25/19 08:54	03/27/19 14:07	1
Chrysene	ND		0.19	0.18	ug/L		03/25/19 08:54	03/27/19 14:07	1
Dibenz(a,h)anthracene	ND		0.19	0.14	ug/L		03/25/19 08:54	03/27/19 14:07	1
Dibenzofuran	ND		0.95	0.53	ug/L		03/25/19 08:54	03/27/19 14:07	1
3,3'-Dichlorobenzidine	ND		4.8	1.1	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,4-Dichlorophenol	ND		1.9	0.25	ug/L		03/25/19 08:54	03/27/19 14:07	1
Diethyl phthalate	ND		4.8	3.6	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,4-Dimethylphenol	ND		1.9	0.49	ug/L		03/25/19 08:54	03/27/19 14:07	1
Dimethyl phthalate	ND		1.9	0.49	ug/L		03/25/19 08:54	03/27/19 14:07	1
Di-n-butyl phthalate	ND		4.8	1.7	ug/L		03/25/19 08:54	03/27/19 14:07	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.7	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,4-Dinitrophenol	ND		9.5	5.9	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,4-Dinitrotoluene	ND		4.8	2.0	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,6-Dinitrotoluene	ND		4.8	2.0	ug/L		03/25/19 08:54	03/27/19 14:07	1
Di-n-octyl phthalate	ND		1.9	0.78	ug/L		03/25/19 08:54	03/27/19 14:07	1
Fluoranthene	ND		0.19	0.15	ug/L		03/25/19 08:54	03/27/19 14:07	1
Fluorene	ND		0.19	0.16	ug/L		03/25/19 08:54	03/27/19 14:07	1
Hexachlorobenzene	ND		0.19	0.15	ug/L		03/25/19 08:54	03/27/19 14:07	1
Hexachlorobutadiene	ND		0.95	0.52	ug/L		03/25/19 08:54	03/27/19 14:07	1
Hexachlorocyclopentadiene	ND		9.5	1.7	ug/L		03/25/19 08:54	03/27/19 14:07	1
Hexachloroethane	ND		0.95	0.38	ug/L		03/25/19 08:54	03/27/19 14:07	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.13	ug/L		03/25/19 08:54	03/27/19 14:07	1
Isophorone	ND		0.95	0.31	ug/L		03/25/19 08:54	03/27/19 14:07	1
2-Methylnaphthalene	ND		0.19	0.11	ug/L		03/25/19 08:54	03/27/19 14:07	1
2-Methylphenol	ND		0.95	0.20	ug/L		03/25/19 08:54	03/27/19 14:07	1
3 & 4 Methylphenol	ND		1.9	0.18	ug/L		03/25/19 08:54	03/27/19 14:07	1
Naphthalene	ND		0.19	0.10	ug/L		03/25/19 08:54	03/27/19 14:07	1
2-Nitroaniline	ND		1.9	0.49	ug/L		03/25/19 08:54	03/27/19 14:07	1
3-Nitroaniline	ND		1.9	0.54	ug/L		03/25/19 08:54	03/27/19 14:07	1
4-Nitroaniline	ND		1.9	0.87	ug/L		03/25/19 08:54	03/27/19 14:07	1
Nitrobenzene	ND		0.95	0.49	ug/L		03/25/19 08:54	03/27/19 14:07	1
2-Nitrophenol	ND		1.9	0.54	ug/L		03/25/19 08:54	03/27/19 14:07	1
4-Nitrophenol	ND		9.5	2.1	ug/L		03/25/19 08:54	03/27/19 14:07	1
N-Nitrosodi-n-propylamine	ND		0.95	0.24	ug/L		03/25/19 08:54	03/27/19 14:07	1
N-Nitrosodiphenylamine	ND		0.95	0.42	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.52	ug/L		03/25/19 08:54	03/27/19 14:07	1
Pentachlorophenol	ND		9.5	3.0	ug/L		03/25/19 08:54	03/27/19 14:07	1
Phenanthrene	ND		0.19	0.16	ug/L		03/25/19 08:54	03/27/19 14:07	1
Phenol	ND		0.95	0.12	ug/L		03/25/19 08:54	03/27/19 14:07	1

Client Sample ID: DUP-02

Date Collected: 03/21/19 00:00
Date Received: 03/23/19 09:50

Lab Sample ID: 240-109868-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.19	0.17	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,4,5-Trichlorophenol	ND		4.8	1.9	ug/L		03/25/19 08:54	03/27/19 14:07	1
2,4,6-Trichlorophenol	ND		4.8	1.7	ug/L		03/25/19 08:54	03/27/19 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*38 - 120*	*03/25/19 08:54*	*03/27/19 14:07*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*03/25/19 08:54*	*03/27/19 14:07*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 120*	*03/25/19 08:54*	*03/27/19 14:07*	*1*
Phenol-d5 (Surr)	*27*		*10 - 120*	*03/25/19 08:54*	*03/27/19 14:07*	*1*
Terphenyl-d14 (Surr)	*66*		*23 - 127*	*03/25/19 08:54*	*03/27/19 14:07*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*28 - 120*	*03/25/19 08:54*	*03/27/19 14:07*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		5000	2000	ug/L			03/27/19 21:51	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.056	ug/L		03/26/19 09:36	03/28/19 13:08	1
Aroclor-1221	ND		0.20	0.057	ug/L		03/26/19 09:36	03/28/19 13:08	1
Aroclor-1232	ND		0.20	0.074	ug/L		03/26/19 09:36	03/28/19 13:08	1
Aroclor-1242	ND		0.20	0.076	ug/L		03/26/19 09:36	03/28/19 13:08	1
Aroclor-1248	ND		0.20	0.050	ug/L		03/26/19 09:36	03/28/19 13:08	1
Aroclor-1254	ND		0.20	0.040	ug/L		03/26/19 09:36	03/28/19 13:08	1
Aroclor-1260	ND		0.20	0.046	ug/L		03/26/19 09:36	03/28/19 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*22 - 120*	*03/26/19 09:36*	*03/28/19 13:08*	*1*
DCB Decachlorobiphenyl	*62*		*10 - 120*	*03/26/19 09:36*	*03/28/19 13:08*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**0.041**	**J B**	0.10	0.020	mg/L		03/27/19 13:38	03/28/19 21:56	1

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**450**		200	47	ug/L		03/25/19 14:00	03/26/19 12:22	1
Antimony	ND		20	7.5	ug/L		03/25/19 14:00	03/26/19 12:22	1
Arsenic	ND		10	4.1	ug/L		03/25/19 14:00	03/26/19 12:22	1
Barium	**11**	**J**	200	1.3	ug/L		03/25/19 14:00	03/26/19 12:22	1
Beryllium	**0.64**	**J**	5.0	0.60	ug/L		03/25/19 14:00	03/26/19 12:22	1
Cadmium	**0.42**	**J**	5.0	0.20	ug/L		03/25/19 14:00	03/26/19 12:22	1
Boron	**240**		100	23	ug/L		03/25/19 14:00	03/26/19 12:22	1
Calcium	**84000**		5000	310	ug/L		03/25/19 14:00	03/26/19 12:22	1
Chromium	**1.6**	**J**	10	0.63	ug/L		03/25/19 14:00	03/26/19 12:22	1
Cobalt	**8.0**	**J**	10	0.75	ug/L		03/25/19 14:00	03/26/19 12:22	1
Copper	ND		25	3.5	ug/L		03/25/19 14:00	03/26/19 12:22	1
Iron	ND		200	26	ug/L		03/25/19 14:00	03/26/19 12:22	1
Lead	ND		3.0	2.8	ug/L		03/25/19 14:00	03/26/19 12:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: DUP-02

Date Collected: 03/21/19 00:00
Date Received: 03/23/19 09:50

Lab Sample ID: 240-109868-4

Matrix: Water

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**34000**		5000	780	ug/L		03/25/19 14:00	03/26/19 12:22	1
Manganese	**66**		15	2.1	ug/L		03/25/19 14:00	03/26/19 12:22	1
Nickel	**30**	**J**	40	2.2	ug/L		03/25/19 14:00	03/26/19 12:22	1
Potassium	**5200**		5000	560	ug/L		03/25/19 14:00	03/26/19 12:22	1
Silver	ND		10	0.62	ug/L		03/25/19 14:00	03/26/19 12:22	1
Sodium	**21000**		5000	560	ug/L		03/25/19 14:00	03/26/19 12:22	1
Vanadium	ND		50	5.6	ug/L		03/25/19 14:00	03/26/19 12:22	1
Zinc	**54**		50	9.7	ug/L		03/25/19 14:00	03/26/19 12:22	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**1.8**		1.0	0.20	ug/L		03/25/19 14:00	03/26/19 18:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/03/19 13:30	04/03/19 15:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-109868-5

Date Collected: 03/21/19 00:00
Matrix: Water
Date Received: 03/23/19 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/04/19 12:10	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/04/19 12:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/04/19 12:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/04/19 12:10	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/04/19 12:10	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/04/19 12:10	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/04/19 12:10	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/04/19 12:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/04/19 12:10	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/04/19 12:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/04/19 12:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/04/19 12:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/04/19 12:10	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/04/19 12:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/04/19 12:10	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/04/19 12:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/04/19 12:10	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/04/19 12:10	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/04/19 12:10	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/04/19 12:10	1
Allyl chloride	ND		2.0	0.61	ug/L			04/04/19 12:10	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/04/19 12:10	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/04/19 12:10	1
2-Hexanone	ND		10	0.54	ug/L			04/04/19 12:10	1
Bromobenzene	ND		1.0	0.12	ug/L			04/04/19 12:10	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/04/19 12:10	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/04/19 12:10	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/04/19 12:10	1
Acetone	ND		10	5.4	ug/L			04/04/19 12:10	1
Benzene	ND		1.0	0.13	ug/L			04/04/19 12:10	1
Bromoform	ND		1.0	0.76	ug/L			04/04/19 12:10	1
Bromomethane	ND		1.0	0.42	ug/L			04/04/19 12:10	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/04/19 12:10	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/04/19 12:10	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/04/19 12:10	1
Chloroethane	ND		1.0	0.83	ug/L			04/04/19 12:10	1
Chloroform	ND		1.0	0.13	ug/L			04/04/19 12:10	1
Chloromethane	ND		1.0	0.20	ug/L			04/04/19 12:10	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/04/19 12:10	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/04/19 12:10	1
Cyclohexane	ND		1.0	0.24	ug/L			04/04/19 12:10	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/04/19 12:10	1
Dibromomethane	ND		1.0	0.090	ug/L			04/04/19 12:10	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/04/19 12:10	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/04/19 12:10	1
Dichlorofluoromethane	ND		1.0	0.28	ug/L			04/04/19 12:10	1
Ethyl ether	ND		1.0	0.19	ug/L			04/04/19 12:10	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/04/19 12:10	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/04/19 12:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-109868-5

Date Collected: 03/21/19 00:00
Date Received: 03/23/19 09:50

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/04/19 12:10	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/04/19 12:10	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/04/19 12:10	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/04/19 12:10	1
Methyl acetate	ND		10	1.7	ug/L			04/04/19 12:10	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/04/19 12:10	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/04/19 12:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			04/04/19 12:10	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/04/19 12:10	1
Methyl tert butyl ether	ND		2.0	0.070	ug/L			04/04/19 12:10	1
Methylene Chloride	ND		1.0	2.6	ug/L			04/04/19 12:10	1
o-Xylene	ND		1.0	0.090	ug/L			04/04/19 12:10	1
Styrene	ND		1.0	0.10	ug/L			04/04/19 12:10	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/04/19 12:10	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/04/19 12:10	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/04/19 12:10	1
Toluene	ND		1.0	0.14	ug/L			04/04/19 12:10	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/04/19 12:10	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/04/19 12:10	1
Trichloroethene	ND		1.0	0.10	ug/L			04/04/19 12:10	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/04/19 12:10	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/04/19 12:10	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/04/19 12:10	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/04/19 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 121*		*04/04/19 12:10*	*1*
4-Bromofluorobenzene (Surr)	*79*		*59 - 120*		*04/04/19 12:10*	*1*
Toluene-d8 (Surr)	*89*		*70 - 123*		*04/04/19 12:10*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 128*		*04/04/19 12:10*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(70-121)	(59-120)	(70-123)	(75-128)
240-109800-B-20 MS	Matrix Spike	91	105	105	96
240-109800-B-20 MSD	Matrix Spike Duplicate	93	104	103	96
240-109868-1	AMW-05B(20190321)	133 X	129 X	125 X	132 X
240-109868-1	AMW-05B(20190321)	110	79	90	109
240-109868-2	AMW-07(20190321)	135 X	131 X	126 X	133 X
240-109868-2	AMW-07(20190321)	108	78	91	112
240-109868-3	AMW-26(20190321)	131 X	129 X	125 X	132 X
240-109868-3	AMW-26(20190321)	113	79	94	112
240-109868-4	DUP-02	133 X	132 X	127 X	133 X
240-109868-4	DUP-02	114	77	92	112
240-109868-5	TRIP BLANK	106	79	89	105
LCS 240-374533/4	Lab Control Sample	117	104	103	117
LCS 240-374680/4	Lab Control Sample	109	91	99	104
LCS 240-374729/4	Lab Control Sample	90	104	103	95
MB 240-374533/8	Method Blank	134 X	131 X	126 X	135 X
MB 240-374680/6	Method Blank	118	86	98	111
MB 240-374729/6	Method Blank	102	80	94	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(32-120)	(10-120)	(23-127)	(28-120)
240-109791-AA-2-A MS	Matrix Spike	83	48	81	30	73	92
240-109791-AB-2-A MSD	Matrix Spike Duplicate	88	55	89	34	74	94
240-109868-2	AMW-07(20190321)	91	57	82	36	73	85
240-109868-3	AMW-26(20190321)	80	50	75	34	82	86
240-109868-4	DUP-02	79	43	70	27	66	76
LCS 240-373069/15-A	Lab Control Sample	91	74	96	51	102	101
LCSD 240-373069/16-A	Lab Control Sample Dup	92	68	93	46	102	97
MB 240-373069/14-A	Method Blank	82	66	77	52	94	80

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	**Client Sample ID**	**TCX2 (22-120)**	**DCBP2 (10-120)**
240-109791-AD-2-A MS	Matrix Spike	61	63
240-109791-Z-2-A MSD	Matrix Spike Duplicate	63	63
240-109868-2	AMW-07(20190321)	69	54
240-109868-3	AMW-26(20190321)	75	23
240-109868-4	DUP-02	72	62
LCS 240-373294/21-A	Lab Control Sample	71	63
MB 240-373294/20-A	Method Blank	71	72

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-374533/8
Matrix: Water
Analysis Batch: 374533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/03/19 15:12	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/03/19 15:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/03/19 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/03/19 15:12	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/03/19 15:12	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/03/19 15:12	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 15:12	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/03/19 15:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/03/19 15:12	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/03/19 15:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/03/19 15:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/03/19 15:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/03/19 15:12	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 15:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/03/19 15:12	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/03/19 15:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/03/19 15:12	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/03/19 15:12	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/03/19 15:12	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/03/19 15:12	1
Allyl chloride	ND		2.0	0.61	ug/L			04/03/19 15:12	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/03/19 15:12	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/03/19 15:12	1
2-Hexanone	ND		10	0.54	ug/L			04/03/19 15:12	1
Bromobenzene	ND		1.0	0.12	ug/L			04/03/19 15:12	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/03/19 15:12	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/03/19 15:12	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/03/19 15:12	1
Acetone	ND		10	5.4	ug/L			04/03/19 15:12	1
Benzene	ND		1.0	0.13	ug/L			04/03/19 15:12	1
Bromoform	ND		1.0	0.76	ug/L			04/03/19 15:12	1
Bromomethane	ND		1.0	0.42	ug/L			04/03/19 15:12	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/03/19 15:12	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/03/19 15:12	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/03/19 15:12	1
Chloroethane	ND		1.0	0.83	ug/L			04/03/19 15:12	1
Chloroform	ND		1.0	0.13	ug/L			04/03/19 15:12	1
Chloromethane	ND		1.0	0.20	ug/L			04/03/19 15:12	1
cis-1,2-Dichloroethene	1.16		1.0	0.16	ug/L			04/03/19 15:12	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/03/19 15:12	1
Cyclohexane	ND		1.0	0.24	ug/L			04/03/19 15:12	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/03/19 15:12	1
Dibromomethane	ND		1.0	0.090	ug/L			04/03/19 15:12	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/03/19 15:12	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/03/19 15:12	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/03/19 15:12	1
Ethyl ether	ND		2.0	0.19	ug/L			04/03/19 15:12	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/03/19 15:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-374533/8
Matrix: Water
Analysis Batch: 374533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/03/19 15:12	1
Naphthalene	ND		1.0	0.32	ug/L			04/03/19 15:12	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/03/19 15:12	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/03/19 15:12	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/03/19 15:12	1
Methyl acetate	ND		10	1.7	ug/L			04/03/19 15:12	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/03/19 15:12	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/03/19 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/03/19 15:12	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/03/19 15:12	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/03/19 15:12	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/03/19 15:12	1
o-Xylene	ND		1.0	0.090	ug/L			04/03/19 15:12	1
Styrene	ND		1.0	0.10	ug/L			04/03/19 15:12	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/03/19 15:12	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/03/19 15:12	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/03/19 15:12	1
Toluene	ND		1.0	0.14	ug/L			04/03/19 15:12	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/03/19 15:12	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/03/19 15:12	1
Trichloroethene	0.687	J	1.0	0.10	ug/L			04/03/19 15:12	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/03/19 15:12	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/03/19 15:12	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/03/19 15:12	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/03/19 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*134*	*X*	*70 - 121*		*04/03/19 15:12*	*1*
4-Bromofluorobenzene (Surr)	*131*	*X*	*59 - 120*		*04/03/19 15:12*	*1*
Toluene-d8 (Surr)	*126*	*X*	*70 - 123*		*04/03/19 15:12*	*1*
Dibromofluoromethane (Surr)	*135*	*X*	*75 - 128*		*04/03/19 15:12*	*1*

Lab Sample ID: LCS 240-374533/4
Matrix: Water
Analysis Batch: 374533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	23.0		ug/L		115	80 - 124
1,1,1-Trichloroethane	20.0	26.1		ug/L		131	69 - 134
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/L		109	65 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	25.6		ug/L		128	50 - 156
1,1,2-Trichloroethane	20.0	22.2		ug/L		111	78 - 133
1,1-Dichloroethane	20.0	25.0		ug/L		125	75 - 133
1,1-Dichloroethene	20.0	23.6		ug/L		118	65 - 139
1,1-Dichloropropene	20.0	24.3		ug/L		122	78 - 126
1,2,3-Trichlorobenzene	20.0	25.1		ug/L		126	39 - 138
1,2,3-Trichloropropane	20.0	22.8		ug/L		114	66 - 139
1,2,4-Trichlorobenzene	20.0	23.6		ug/L		118	42 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-374533/4
Matrix: Water
Analysis Batch: 374533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	22.4		ug/L		112	74 - 120
1,2-Dibromo-3-Chloropropane	20.0	23.5		ug/L		117	46 - 132
1,2-Dichlorobenzene	20.0	22.7		ug/L		113	78 - 120
1,2-Dichloroethane	20.0	25.2		ug/L		126	71 - 135
1,2-Dichloropropane	20.0	26.1		ug/L		131	78 - 133
1,3,5-Trimethylbenzene	20.0	22.1		ug/L		111	75 - 121
1,3-Dichlorobenzene	20.0	21.7		ug/L		108	78 - 120
1,3-Dichloropropane	20.0	22.0		ug/L		110	72 - 134
1,4-Dichlorobenzene	20.0	21.6		ug/L		108	78 - 120
Allyl chloride	20.0	22.7		ug/L		113	66 - 138
2,2-Dichloropropane	20.0	26.2		ug/L		131	42 - 150
2-Chlorotoluene	20.0	22.1		ug/L		110	78 - 123
2-Hexanone	40.0	40.7		ug/L		102	43 - 148
Bromobenzene	20.0	21.7		ug/L		109	74 - 129
Bromochloromethane	20.0	23.3		ug/L		116	74 - 130
4-Chlorotoluene	20.0	21.5		ug/L		107	77 - 125
p-Isopropyltoluene	20.0	22.9		ug/L		114	69 - 122
Acetone	40.0	50.5		ug/L		126	21 - 162
Benzene	20.0	25.0	*	ug/L		125	80 - 123
Bromoform	20.0	22.7		ug/L		113	49 - 141
Bromomethane	20.0	21.8		ug/L		109	41 - 175
Carbon disulfide	20.0	24.8		ug/L		124	60 - 138
Carbon tetrachloride	20.0	26.4		ug/L		132	63 - 140
Chlorobenzene	20.0	22.2		ug/L		111	80 - 121
Chloroethane	20.0	22.8		ug/L		114	33 - 173
Chloroform	20.0	24.8		ug/L		124	79 - 127
Chloromethane	20.0	20.8		ug/L		104	54 - 143
cis-1,2-Dichloroethene	20.0	25.2		ug/L		126	76 - 128
cis-1,3-Dichloropropene	20.0	26.3		ug/L		131	64 - 132
Cyclohexane	20.0	25.1		ug/L		126	58 - 145
Hexachlorobutadiene	20.0	21.3		ug/L		106	38 - 136
Dibromomethane	20.0	25.4	*	ug/L		127	74 - 124
Bromodichloromethane	20.0	24.8		ug/L		124	77 - 125
Dichlorodifluoromethane	20.0	20.4		ug/L		102	29 - 148
Dichlorofluoromethane	20.0	23.6		ug/L		118	48 - 168
Ethyl ether	20.0	24.8		ug/L		124	70 - 146
Ethylbenzene	20.0	22.8		ug/L		114	80 - 120
1,2-Dibromoethane	20.0	22.1		ug/L		111	77 - 123
Naphthalene	20.0	24.7		ug/L		124	28 - 141
m-Xylene & p-Xylene	20.0	22.8		ug/L		114	80 - 120
n-Butylbenzene	20.0	21.7		ug/L		108	57 - 126
Isopropylbenzene	20.0	23.2		ug/L		116	74 - 120
Methyl acetate	40.0	47.8		ug/L		120	52 - 145
N-Propylbenzene	20.0	22.0		ug/L		110	77 - 123
2-Butanone (MEK)	40.0	52.9		ug/L		132	39 - 163
4-Methyl-2-pentanone (MIBK)	40.0	46.3		ug/L		116	49 - 143
sec-Butylbenzene	20.0	22.3		ug/L		112	68 - 123
Methyl tert butyl ether	20.0	24.6		ug/L		123	51 - 133
Methylene Chloride	20.0	23.8		ug/L		119	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-374533/4
Matrix: Water
Analysis Batch: 374533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	20.0	23.1		ug/L		115	80 - 120
Styrene	20.0	21.5		ug/L		107	79 - 120
tert-Butylbenzene	20.0	24.3	*	ug/L		122	70 - 121
Tetrachloroethene	20.0	21.7		ug/L		109	74 - 130
Tetrahydrofuran	40.0	44.4		ug/L		111	44 - 145
Toluene	20.0	21.9		ug/L		110	78 - 129
trans-1,2-Dichloroethene	20.0	24.3		ug/L		122	78 - 133
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	55 - 128
Trichloroethene	20.0	24.4		ug/L		122	76 - 125
Trichlorofluoromethane	20.0	24.1		ug/L		120	51 - 164
Vinyl chloride	20.0	22.4		ug/L		112	58 - 143
Methylcyclohexane	20.0	23.7		ug/L		119	60 - 125
Chlorodibromomethane	20.0	22.2		ug/L		111	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 121*
4-Bromofluorobenzene (Surr)	*104*		*59 - 120*
Toluene-d8 (Surr)	*103*		*70 - 123*
Dibromofluoromethane (Surr)	*117*		*75 - 128*

Lab Sample ID: MB 240-374680/6
Matrix: Water
Analysis Batch: 374680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/04/19 10:55	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/04/19 10:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/04/19 10:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/04/19 10:55	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/04/19 10:55	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/04/19 10:55	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/04/19 10:55	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/04/19 10:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/04/19 10:55	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/04/19 10:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/04/19 10:55	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/04/19 10:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/04/19 10:55	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/04/19 10:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/04/19 10:55	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/04/19 10:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/04/19 10:55	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/04/19 10:55	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/04/19 10:55	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/04/19 10:55	1
Allyl chloride	ND		2.0	0.61	ug/L			04/04/19 10:55	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/04/19 10:55	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/04/19 10:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-374680/6
Matrix: Water
Analysis Batch: 374680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	0.54	ug/L			04/04/19 10:55	1
Bromobenzene	ND		1.0	0.12	ug/L			04/04/19 10:55	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/04/19 10:55	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/04/19 10:55	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/04/19 10:55	1
Acetone	ND		10	5.4	ug/L			04/04/19 10:55	1
Benzene	ND		1.0	0.13	ug/L			04/04/19 10:55	1
Bromoform	ND		1.0	0.76	ug/L			04/04/19 10:55	1
Bromomethane	ND		1.0	0.42	ug/L			04/04/19 10:55	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/04/19 10:55	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/04/19 10:55	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/04/19 10:55	1
Chloroethane	ND		1.0	0.83	ug/L			04/04/19 10:55	1
Chloroform	ND		1.0	0.13	ug/L			04/04/19 10:55	1
Chloromethane	ND		1.0	0.20	ug/L			04/04/19 10:55	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/04/19 10:55	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/04/19 10:55	1
Cyclohexane	ND		1.0	0.24	ug/L			04/04/19 10:55	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/04/19 10:55	1
Dibromomethane	ND		1.0	0.090	ug/L			04/04/19 10:55	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/04/19 10:55	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/04/19 10:55	1
Dichlorofluoromethane	ND		1.0	0.28	ug/L			04/04/19 10:55	1
Ethyl ether	ND		1.0	0.19	ug/L			04/04/19 10:55	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/04/19 10:55	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/04/19 10:55	1
Naphthalene	ND		1.0	0.32	ug/L			04/04/19 10:55	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/04/19 10:55	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/04/19 10:55	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/04/19 10:55	1
Methyl acetate	ND		10	1.7	ug/L			04/04/19 10:55	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/04/19 10:55	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/04/19 10:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			04/04/19 10:55	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/04/19 10:55	1
Methyl tert butyl ether	ND		2.0	0.070	ug/L			04/04/19 10:55	1
Methylene Chloride	ND		1.0	2.6	ug/L			04/04/19 10:55	1
o-Xylene	ND		1.0	0.090	ug/L			04/04/19 10:55	1
Styrene	ND		1.0	0.10	ug/L			04/04/19 10:55	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/04/19 10:55	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/04/19 10:55	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/04/19 10:55	1
Toluene	ND		1.0	0.14	ug/L			04/04/19 10:55	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/04/19 10:55	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/04/19 10:55	1
Trichloroethene	ND		1.0	0.10	ug/L			04/04/19 10:55	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/04/19 10:55	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/04/19 10:55	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/04/19 10:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-374680/6
Matrix: Water
Analysis Batch: 374680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/04/19 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 121*		*04/04/19 10:55*	*1*
4-Bromofluorobenzene (Surr)	*86*		*59 - 120*		*04/04/19 10:55*	*1*
Toluene-d8 (Surr)	*98*		*70 - 123*		*04/04/19 10:55*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 128*		*04/04/19 10:55*	*1*

Lab Sample ID: LCS 240-374680/4
Matrix: Water
Analysis Batch: 374680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	8.84		ug/L		88	80 - 124
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.87		ug/L		99	65 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.7		ug/L		107	50 - 156
1,1,2-Trichloroethane	10.0	8.79		ug/L		88	78 - 133
1,1-Dichloroethane	10.0	10.0		ug/L		100	75 - 133
1,1-Dichloroethene	10.0	10.6		ug/L		106	65 - 139
1,1-Dichloropropene	10.0	10.6		ug/L		106	78 - 126
1,2,3-Trichlorobenzene	10.0	8.74		ug/L		87	39 - 138
1,2,3-Trichloropropane	10.0	11.9		ug/L		119	66 - 139
1,2,4-Trichlorobenzene	10.0	8.38		ug/L		84	42 - 133
1,2,4-Trimethylbenzene	10.0	10.8		ug/L		108	74 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.4		ug/L		104	46 - 132
1,2-Dichlorobenzene	10.0	10.7		ug/L		107	78 - 120
1,2-Dichloroethane	10.0	11.2		ug/L		112	71 - 135
1,2-Dichloropropane	10.0	9.51		ug/L		95	78 - 133
1,3,5-Trimethylbenzene	10.0	11.0		ug/L		110	75 - 121
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	78 - 120
1,3-Dichloropropane	10.0	9.28		ug/L		93	72 - 134
1,4-Dichlorobenzene	10.0	9.89		ug/L		99	78 - 120
Allyl chloride	10.0	9.66		ug/L		97	66 - 138
2,2-Dichloropropane	10.0	10.9		ug/L		109	42 - 150
2-Chlorotoluene	10.0	11.7		ug/L		117	78 - 123
2-Hexanone	20.0	18.7		ug/L		93	43 - 148
Bromobenzene	10.0	10.3		ug/L		103	74 - 129
Bromochloromethane	10.0	10.3		ug/L		103	74 - 130
4-Chlorotoluene	10.0	11.6		ug/L		116	77 - 125
p-Isopropyltoluene	10.0	10.3		ug/L		103	69 - 122
Acetone	20.0	20.4		ug/L		102	21 - 162
Benzene	10.0	9.72		ug/L		97	80 - 123
Bromoform	10.0	9.24		ug/L		92	49 - 141
Bromomethane	10.0	7.94		ug/L		79	41 - 175
Carbon disulfide	10.0	9.81		ug/L		98	60 - 138
Carbon tetrachloride	10.0	11.3		ug/L		113	63 - 140
Chlorobenzene	10.0	9.26		ug/L		93	80 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-374680/4
Matrix: Water
Analysis Batch: 374680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	10.0	9.00		ug/L		90	33 - 173
Chloroform	10.0	10.5		ug/L		105	79 - 127
Chloromethane	10.0	7.54		ug/L		75	54 - 143
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	76 - 128
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	64 - 132
Cyclohexane	10.0	9.52		ug/L		95	58 - 145
Hexachlorobutadiene	10.0	8.24		ug/L		82	38 - 136
Dibromomethane	10.0	9.34		ug/L		93	74 - 124
Bromodichloromethane	10.0	10.1		ug/L		101	77 - 125
Dichlorodifluoromethane	10.0	7.66		ug/L		77	29 - 148
Dichlorofluoromethane	10.0	9.05		ug/L		91	48 - 168
Ethyl ether	10.0	9.29		ug/L		93	70 - 146
Ethylbenzene	10.0	9.14		ug/L		91	80 - 120
1,2-Dibromoethane	10.0	9.20		ug/L		92	77 - 123
Naphthalene	10.0	7.77		ug/L		78	28 - 141
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
n-Butylbenzene	10.0	9.40		ug/L		94	57 - 126
Isopropylbenzene	10.0	9.30		ug/L		93	74 - 120
Methyl acetate	20.0	18.7		ug/L		93	52 - 145
N-Propylbenzene	10.0	11.8		ug/L		118	77 - 123
2-Butanone (MEK)	20.0	22.6		ug/L		113	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	19.7		ug/L		98	49 - 143
sec-Butylbenzene	10.0	9.91		ug/L		99	68 - 123
Methyl tert butyl ether	10.0	7.93		ug/L		79	51 - 133
Methylene Chloride	10.0	9.75		ug/L		97	70 - 134
o-Xylene	10.0	9.65		ug/L		97	80 - 120
Styrene	10.0	9.33		ug/L		93	79 - 120
tert-Butylbenzene	10.0	10.7		ug/L		107	70 - 121
Tetrachloroethene	10.0	9.19		ug/L		92	74 - 130
Tetrahydrofuran	20.0	18.4		ug/L		92	44 - 145
Toluene	10.0	9.60		ug/L		96	78 - 129
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	78 - 133
trans-1,3-Dichloropropene	10.0	9.70		ug/L		97	55 - 128
Trichloroethene	10.0	10.7		ug/L		107	76 - 125
Trichlorofluoromethane	10.0	9.72		ug/L		97	51 - 164
Vinyl chloride	10.0	7.78		ug/L		78	58 - 143
Methylcyclohexane	10.0	9.82		ug/L		98	60 - 125
Chlorodibromomethane	10.0	10.0		ug/L		100	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 121*
4-Bromofluorobenzene (Surr)	*91*		*59 - 120*
Toluene-d8 (Surr)	*99*		*70 - 123*
Dibromofluoromethane (Surr)	*104*		*75 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-374729/6
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/04/19 14:55	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/04/19 14:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/04/19 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/04/19 14:55	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/04/19 14:55	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/04/19 14:55	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/04/19 14:55	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/04/19 14:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/04/19 14:55	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/04/19 14:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/04/19 14:55	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/04/19 14:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/04/19 14:55	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/04/19 14:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/04/19 14:55	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/04/19 14:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/04/19 14:55	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/04/19 14:55	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/04/19 14:55	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/04/19 14:55	1
Allyl chloride	ND		2.0	0.61	ug/L			04/04/19 14:55	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/04/19 14:55	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/04/19 14:55	1
2-Hexanone	ND		10	0.54	ug/L			04/04/19 14:55	1
Bromobenzene	ND		1.0	0.12	ug/L			04/04/19 14:55	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/04/19 14:55	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/04/19 14:55	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/04/19 14:55	1
Acetone	ND		10	5.4	ug/L			04/04/19 14:55	1
Benzene	ND		1.0	0.13	ug/L			04/04/19 14:55	1
Bromoform	ND		1.0	0.76	ug/L			04/04/19 14:55	1
Bromomethane	ND		1.0	0.42	ug/L			04/04/19 14:55	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/04/19 14:55	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/04/19 14:55	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/04/19 14:55	1
Chloroethane	ND		1.0	0.83	ug/L			04/04/19 14:55	1
Chloroform	ND		1.0	0.13	ug/L			04/04/19 14:55	1
Chloromethane	ND		1.0	0.20	ug/L			04/04/19 14:55	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/04/19 14:55	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/04/19 14:55	1
Cyclohexane	ND		1.0	0.24	ug/L			04/04/19 14:55	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/04/19 14:55	1
Dibromomethane	ND		1.0	0.090	ug/L			04/04/19 14:55	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/04/19 14:55	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/04/19 14:55	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/04/19 14:55	1
Ethyl ether	ND		2.0	0.19	ug/L			04/04/19 14:55	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/04/19 14:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-374729/6
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/04/19 14:55	1
Naphthalene	ND		1.0	0.32	ug/L			04/04/19 14:55	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/04/19 14:55	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/04/19 14:55	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/04/19 14:55	1
Methyl acetate	ND		10	1.7	ug/L			04/04/19 14:55	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/04/19 14:55	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/04/19 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/04/19 14:55	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/04/19 14:55	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/04/19 14:55	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/04/19 14:55	1
o-Xylene	ND		1.0	0.090	ug/L			04/04/19 14:55	1
Styrene	ND		1.0	0.10	ug/L			04/04/19 14:55	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/04/19 14:55	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/04/19 14:55	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/04/19 14:55	1
Toluene	ND		1.0	0.14	ug/L			04/04/19 14:55	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/04/19 14:55	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/04/19 14:55	1
Trichloroethene	ND		1.0	0.10	ug/L			04/04/19 14:55	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/04/19 14:55	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/04/19 14:55	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/04/19 14:55	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/04/19 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 121*		*04/04/19 14:55*	*1*
4-Bromofluorobenzene (Surr)	*80*		*59 - 120*		*04/04/19 14:55*	*1*
Toluene-d8 (Surr)	*94*		*70 - 123*		*04/04/19 14:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 128*		*04/04/19 14:55*	*1*

Lab Sample ID: LCS 240-374729/4
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	80 - 124
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.70		ug/L		97	65 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.0		ug/L		100	50 - 156
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	78 - 133
1,1-Dichloroethane	10.0	9.84		ug/L		98	75 - 133
1,1-Dichloroethene	10.0	10.1		ug/L		101	65 - 139
1,1-Dichloropropene	10.0	9.66		ug/L		97	78 - 126
1,2,3-Trichlorobenzene	10.0	9.01		ug/L		90	39 - 138
1,2,3-Trichloropropane	10.0	9.17		ug/L		92	66 - 139
1,2,4-Trichlorobenzene	10.0	7.76		ug/L		78	42 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-374729/4
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	10.0	9.63		ug/L		96	74 - 120
1,2-Dibromo-3-Chloropropane	10.0	7.78		ug/L		78	46 - 132
1,2-Dichlorobenzene	10.0	9.87		ug/L		99	78 - 120
1,2-Dichloroethane	10.0	9.11		ug/L		91	71 - 135
1,2-Dichloropropane	10.0	10.1		ug/L		101	78 - 133
1,3,5-Trimethylbenzene	10.0	9.58		ug/L		96	75 - 121
1,3-Dichlorobenzene	10.0	9.60		ug/L		96	78 - 120
1,3-Dichloropropane	10.0	10.3		ug/L		103	72 - 134
1,4-Dichlorobenzene	10.0	9.46		ug/L		95	78 - 120
Allyl chloride	10.0	9.81		ug/L		98	66 - 138
2,2-Dichloropropane	10.0	9.89		ug/L		99	42 - 150
2-Chlorotoluene	10.0	9.46		ug/L		95	78 - 123
2-Hexanone	20.0	16.2		ug/L		81	43 - 148
Bromobenzene	10.0	9.50		ug/L		95	74 - 129
Bromochloromethane	10.0	9.68		ug/L		97	74 - 130
4-Chlorotoluene	10.0	9.33		ug/L		93	77 - 125
p-Isopropyltoluene	10.0	9.33		ug/L		93	69 - 122
Acetone	20.0	13.2		ug/L		66	21 - 162
Benzene	10.0	9.94		ug/L		99	80 - 123
Bromoform	10.0	9.14		ug/L		91	49 - 141
Bromomethane	10.0	7.80		ug/L		78	41 - 175
Carbon disulfide	10.0	10.0		ug/L		100	60 - 138
Carbon tetrachloride	10.0	9.86		ug/L		99	63 - 140
Chlorobenzene	10.0	10.2		ug/L		102	80 - 121
Chloroethane	10.0	7.03		ug/L		70	33 - 173
Chloroform	10.0	9.60		ug/L		96	79 - 127
Chloromethane	10.0	10.1		ug/L		101	54 - 143
cis-1,2-Dichloroethene	10.0	9.74		ug/L		97	76 - 128
cis-1,3-Dichloropropene	10.0	9.07		ug/L		91	64 - 132
Cyclohexane	10.0	10.0		ug/L		100	58 - 145
Hexachlorobutadiene	10.0	9.11		ug/L		91	38 - 136
Dibromomethane	10.0	8.96		ug/L		90	74 - 124
Bromodichloromethane	10.0	8.88		ug/L		89	77 - 125
Dichlorodifluoromethane	10.0	9.10		ug/L		91	29 - 148
Dichlorofluoromethane	10.0	8.94		ug/L		89	48 - 168
Ethyl ether	10.0	10.4		ug/L		104	70 - 146
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
1,2-Dibromoethane	10.0	10.1		ug/L		101	77 - 123
Naphthalene	10.0	7.07		ug/L		71	28 - 141
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	80 - 120
n-Butylbenzene	10.0	8.61		ug/L		86	57 - 126
Isopropylbenzene	10.0	9.93		ug/L		99	74 - 120
Methyl acetate	20.0	18.4		ug/L		92	52 - 145
N-Propylbenzene	10.0	9.26		ug/L		93	77 - 123
2-Butanone (MEK)	20.0	16.8		ug/L		84	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	16.0		ug/L		80	49 - 143
sec-Butylbenzene	10.0	9.05		ug/L		90	68 - 123
Methyl tert butyl ether	10.0	6.46		ug/L		65	51 - 133
Methylene Chloride	10.0	11.0		ug/L		110	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-374729/4
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	10.0	10.1		ug/L		101	80 - 120
Styrene	10.0	9.99		ug/L		100	79 - 120
tert-Butylbenzene	10.0	9.09		ug/L		91	70 - 121
Tetrachloroethene	10.0	10.4		ug/L		104	74 - 130
Tetrahydrofuran	20.0	16.3		ug/L		81	44 - 145
Toluene	10.0	10.6		ug/L		106	78 - 129
trans-1,2-Dichloroethene	10.0	9.98		ug/L		100	78 - 133
trans-1,3-Dichloropropene	10.0	9.05		ug/L		90	55 - 128
Trichloroethene	10.0	9.17		ug/L		92	76 - 125
Trichlorofluoromethane	10.0	10.0		ug/L		100	51 - 164
Vinyl chloride	10.0	9.25		ug/L		92	58 - 143
Methylcyclohexane	10.0	9.14		ug/L		91	60 - 125
Chlorodibromomethane	10.0	9.47		ug/L		95	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 121*
4-Bromofluorobenzene (Surr)	*104*		*59 - 120*
Toluene-d8 (Surr)	*103*		*70 - 123*
Dibromofluoromethane (Surr)	*95*		*75 - 128*

Lab Sample ID: 240-109800-B-20 MS
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		12500	12900		ug/L		103	51 - 138
1,1,2,2-Tetrachloroethane	ND		12500	12300		ug/L		98	60 - 137
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		12500	11600		ug/L		93	31 - 156
1,1,2-Trichloroethane	ND		12500	14200		ug/L		113	76 - 132
1,1-Dichloroethane	390	J	12500	12700		ug/L		98	63 - 136
1,1-Dichloroethene	ND		12500	12600		ug/L		101	53 - 140
1,2,4-Trichlorobenzene	ND		12500	9160		ug/L		73	30 - 126
1,2-Dibromo-3-Chloropropane	ND		12500	9510		ug/L		76	38 - 124
1,2-Dichlorobenzene	ND		12500	12100		ug/L		97	64 - 120
1,2-Dichloroethane	ND		12500	11600		ug/L		92	65 - 135
1,2-Dichloropropane	ND		12500	12600		ug/L		101	70 - 132
1,3-Dichlorobenzene	ND		12500	11900		ug/L		95	62 - 120
1,4-Dichlorobenzene	ND		12500	11700		ug/L		93	63 - 120
2-Hexanone	ND		25000	21500		ug/L		86	42 - 150
Acetone	ND		25000	19100		ug/L		76	10 - 168
Benzene	ND		12500	12400		ug/L		99	71 - 122
Bromoform	ND		12500	11400		ug/L		91	44 - 129
Bromomethane	ND		12500	9070		ug/L		73	19 - 187
Carbon disulfide	ND		12500	12200		ug/L		98	43 - 144
Carbon tetrachloride	ND		12500	12600		ug/L		101	41 - 143
Chlorobenzene	ND		12500	13000		ug/L		104	70 - 123
Chloroethane	ND		12500	7910		ug/L		63	11 - 189
Chloroform	ND		12500	12300		ug/L		99	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-109800-B-20 MS
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		12500	11800		ug/L		95	31 - 154
cis-1,2-Dichloroethene	22000	F1	12500	29900	F1	ug/L		61	64 - 130
cis-1,3-Dichloropropene	ND		12500	10500		ug/L		84	48 - 127
Cyclohexane	ND		12500	11500		ug/L		92	42 - 135
Bromodichloromethane	ND		12500	11500		ug/L		92	64 - 125
Dichlorodifluoromethane	ND		12500	10300		ug/L		83	28 - 136
Ethylbenzene	ND		12500	12600		ug/L		101	66 - 120
1,2-Dibromoethane	ND		12500	12700		ug/L		102	71 - 123
m-Xylene & p-Xylene	ND		12500	13100		ug/L		104	63 - 121
Isopropylbenzene	ND		12500	12200		ug/L		98	59 - 120
Methyl acetate	ND		25000	22700		ug/L		91	41 - 142
2-Butanone (MEK)	ND		25000	19300		ug/L		77	37 - 156
4-Methyl-2-pentanone (MIBK)	ND		25000	19700		ug/L		79	44 - 143
Methyl tert butyl ether	ND		12500	7870		ug/L		63	41 - 136
Methylene Chloride	ND		12500	15500		ug/L		124	61 - 130
o-Xylene	ND		12500	12600		ug/L		101	69 - 120
Styrene	ND		12500	12600		ug/L		101	68 - 120
Tetrachloroethene	ND		12500	12700		ug/L		102	51 - 136
Toluene	ND		12500	13400		ug/L		107	62 - 132
trans-1,2-Dichloroethene	700	J	12500	13500		ug/L		103	68 - 133
trans-1,3-Dichloropropene	ND		12500	11100		ug/L		89	40 - 125
Trichloroethene	11000		12500	20300		ug/L		73	55 - 131
Trichlorofluoromethane	ND		12500	11900		ug/L		95	37 - 174
Vinyl chloride	ND		12500	11100		ug/L		89	43 - 154
Methylcyclohexane	ND		12500	10300		ug/L		82	37 - 123
Chlorodibromomethane	ND		12500	12100		ug/L		97	60 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 121*
4-Bromofluorobenzene (Surr)	*105*		*59 - 120*
Toluene-d8 (Surr)	*105*		*70 - 123*
Dibromofluoromethane (Surr)	*96*		*75 - 128*

Lab Sample ID: 240-109800-B-20 MSD
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		12500	12300		ug/L		98	51 - 138	5	27
1,1,2,2-Tetrachloroethane	ND		12500	12100		ug/L		97	60 - 137	1	31
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12500	10900		ug/L		87	31 - 156	7	35
1,1,2-Trichloroethane	ND		12500	13300		ug/L		107	76 - 132	6	25
1,1-Dichloroethane	390	J	12500	12300		ug/L		95	63 - 136	3	23
1,1-Dichloroethene	ND		12500	12200		ug/L		97	53 - 140	3	35
1,2,4-Trichlorobenzene	ND		12500	9270		ug/L		74	30 - 126	1	35
1,2-Dibromo-3-Chloropropane	ND		12500	9770		ug/L		78	38 - 124	3	35
1,2-Dichlorobenzene	ND		12500	11900		ug/L		95	64 - 120	2	30
1,2-Dichloroethane	ND		12500	11600		ug/L		93	65 - 135	0	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-109800-B-20 MSD
Matrix: Water
Analysis Batch: 374729

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		12500	12500		ug/L		100	70 - 132	1	26
1,3-Dichlorobenzene	ND		12500	11600		ug/L		93	62 - 120	2	31
1,4-Dichlorobenzene	ND		12500	11500		ug/L		92	63 - 120	1	28
2-Hexanone	ND		25000	21000		ug/L		84	42 - 150	2	35
Acetone	ND		25000	19000		ug/L		76	10 - 168	0	35
Benzene	ND		12500	12200		ug/L		98	71 - 122	1	22
Bromoform	ND		12500	10800		ug/L		87	44 - 129	5	28
Bromomethane	ND		12500	8800		ug/L		70	19 - 187	3	35
Carbon disulfide	ND		12500	11900		ug/L		95	43 - 144	3	33
Carbon tetrachloride	ND		12500	12200		ug/L		98	41 - 143	3	30
Chlorobenzene	ND		12500	12300		ug/L		99	70 - 123	5	23
Chloroethane	ND		12500	7840		ug/L		63	11 - 189	1	35
Chloroform	ND		12500	12100		ug/L		97	68 - 130	2	23
Chloromethane	ND		12500	12200		ug/L		98	31 - 154	3	35
cis-1,2-Dichloroethene	22000	F1	12500	32600		ug/L		83	64 - 130	9	21
cis-1,3-Dichloropropene	ND		12500	10400		ug/L		83	48 - 127	1	30
Cyclohexane	ND		12500	11200		ug/L		90	42 - 135	3	35
Bromodichloromethane	ND		12500	11100		ug/L		89	64 - 125	4	27
Dichlorodifluoromethane	ND		12500	10300		ug/L		82	28 - 136	0	35
Ethylbenzene	ND		12500	12000		ug/L		96	66 - 120	5	24
1,2-Dibromoethane	ND		12500	12300		ug/L		98	71 - 123	3	27
m-Xylene & p-Xylene	ND		12500	12400		ug/L		99	63 - 121	5	25
Isopropylbenzene	ND		12500	11600		ug/L		93	59 - 120	5	31
Methyl acetate	ND		25000	23800		ug/L		95	41 - 142	5	35
2-Butanone (MEK)	ND		25000	18900		ug/L		75	37 - 156	2	35
4-Methyl-2-pentanone (MIBK)	ND		25000	20600		ug/L		82	44 - 143	5	35
Methyl tert butyl ether	ND		12500	8000		ug/L		64	41 - 136	2	29
Methylene Chloride	ND		12500	15600		ug/L		125	61 - 130	1	29
o-Xylene	ND		12500	12300		ug/L		98	69 - 120	3	25
Styrene	ND		12500	11800		ug/L		95	68 - 120	6	26
Tetrachloroethene	ND		12500	12400		ug/L		99	51 - 136	3	23
Toluene	ND		12500	13000		ug/L		104	62 - 132	3	23
trans-1,2-Dichloroethene	700	J	12500	13000		ug/L		98	68 - 133	4	24
trans-1,3-Dichloropropene	ND		12500	10700		ug/L		86	40 - 125	4	27
Trichloroethene	11000		12500	21500		ug/L		83	55 - 131	6	23
Trichlorofluoromethane	ND		12500	11700		ug/L		94	37 - 174	2	35
Vinyl chloride	ND		12500	10800		ug/L		87	43 - 154	3	29
Methylcyclohexane	ND		12500	10100		ug/L		81	37 - 123	2	35
Chlorodibromomethane	ND		12500	11500		ug/L		92	60 - 129	5	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 121*
4-Bromofluorobenzene (Surr)	*104*		*59 - 120*
Toluene-d8 (Surr)	*103*		*70 - 123*
Dibromofluoromethane (Surr)	*96*		*75 - 128*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-373069/14-A
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 09:42	1
Acenaphthylene	ND		0.20	0.13	ug/L		03/25/19 08:54	03/27/19 09:42	1
Acetophenone	ND		1.0	0.37	ug/L		03/25/19 08:54	03/27/19 09:42	1
Anthracene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 09:42	1
Atrazine	ND		2.0	0.95	ug/L		03/25/19 08:54	03/27/19 09:42	1
Benzaldehyde	ND		2.0	0.76	ug/L		03/25/19 08:54	03/27/19 09:42	1
Benzo[a]anthracene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 09:42	1
Benzo[a]pyrene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 09:42	1
Benzo[b]fluoranthene	ND		0.20	0.15	ug/L		03/25/19 08:54	03/27/19 09:42	1
Benzo[g,h,i]perylene	ND		0.20	0.18	ug/L		03/25/19 08:54	03/27/19 09:42	1
Benzo[k]fluoranthene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 09:42	1
1,1'-Biphenyl	ND		1.0	0.49	ug/L		03/25/19 08:54	03/27/19 09:42	1
Bis(2-chloroethoxy)methane	ND		1.0	0.46	ug/L		03/25/19 08:54	03/27/19 09:42	1
Bis(2-chloroethyl)ether	ND		1.0	0.40	ug/L		03/25/19 08:54	03/27/19 09:42	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/25/19 08:54	03/27/19 09:42	1
4-Bromophenyl phenyl ether	ND		2.0	0.50	ug/L		03/25/19 08:54	03/27/19 09:42	1
Butyl benzyl phthalate	ND		2.0	0.67	ug/L		03/25/19 08:54	03/27/19 09:42	1
Caprolactam	ND		5.0	0.93	ug/L		03/25/19 08:54	03/27/19 09:42	1
Carbazole	ND		1.0	0.49	ug/L		03/25/19 08:54	03/27/19 09:42	1
4-Chloroaniline	ND		2.0	0.32	ug/L		03/25/19 08:54	03/27/19 09:42	1
4-Chloro-3-methylphenol	ND		2.0	0.30	ug/L		03/25/19 08:54	03/27/19 09:42	1
2-Chloronaphthalene	ND		1.0	0.48	ug/L		03/25/19 08:54	03/27/19 09:42	1
2-Chlorophenol	ND		1.0	0.27	ug/L		03/25/19 08:54	03/27/19 09:42	1
4-Chlorophenyl phenyl ether	ND		2.0	0.55	ug/L		03/25/19 08:54	03/27/19 09:42	1
Chrysene	ND		0.20	0.19	ug/L		03/25/19 08:54	03/27/19 09:42	1
Dibenz(a,h)anthracene	ND		0.20	0.15	ug/L		03/25/19 08:54	03/27/19 09:42	1
Dibenzofuran	ND		1.0	0.56	ug/L		03/25/19 08:54	03/27/19 09:42	1
3,3'-Dichlorobenzidine	ND		5.0	1.2	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,4-Dichlorophenol	ND		2.0	0.26	ug/L		03/25/19 08:54	03/27/19 09:42	1
Diethyl phthalate	ND		5.0	3.8	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,4-Dimethylphenol	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 09:42	1
Dimethyl phthalate	ND		2.0	0.52	ug/L		03/25/19 08:54	03/27/19 09:42	1
Di-n-butyl phthalate	ND		5.0	1.8	ug/L		03/25/19 08:54	03/27/19 09:42	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.8	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,4-Dinitrophenol	ND		10	6.2	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,4-Dinitrotoluene	ND		5.0	2.1	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,6-Dinitrotoluene	ND		5.0	2.1	ug/L		03/25/19 08:54	03/27/19 09:42	1
Di-n-octyl phthalate	ND		2.0	0.82	ug/L		03/25/19 08:54	03/27/19 09:42	1
Fluoranthene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 09:42	1
Fluorene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 09:42	1
Hexachlorobenzene	ND		0.20	0.16	ug/L		03/25/19 08:54	03/27/19 09:42	1
Hexachlorobutadiene	ND		1.0	0.54	ug/L		03/25/19 08:54	03/27/19 09:42	1
Hexachlorocyclopentadiene	ND		10	1.8	ug/L		03/25/19 08:54	03/27/19 09:42	1
Hexachloroethane	ND		1.0	0.40	ug/L		03/25/19 08:54	03/27/19 09:42	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.14	ug/L		03/25/19 08:54	03/27/19 09:42	1
Isophorone	ND		1.0	0.32	ug/L		03/25/19 08:54	03/27/19 09:42	1
2-Methylnaphthalene	ND		0.20	0.11	ug/L		03/25/19 08:54	03/27/19 09:42	1
2-Methylphenol	ND		1.0	0.21	ug/L		03/25/19 08:54	03/27/19 09:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-373069/14-A
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	ND		2.0	0.19	ug/L		03/25/19 08:54	03/27/19 09:42	1
Naphthalene	ND		0.20	0.11	ug/L		03/25/19 08:54	03/27/19 09:42	1
2-Nitroaniline	ND		2.0	0.51	ug/L		03/25/19 08:54	03/27/19 09:42	1
3-Nitroaniline	ND		2.0	0.57	ug/L		03/25/19 08:54	03/27/19 09:42	1
4-Nitroaniline	ND		2.0	0.92	ug/L		03/25/19 08:54	03/27/19 09:42	1
Nitrobenzene	ND		1.0	0.51	ug/L		03/25/19 08:54	03/27/19 09:42	1
2-Nitrophenol	ND		2.0	0.56	ug/L		03/25/19 08:54	03/27/19 09:42	1
4-Nitrophenol	ND		10	2.2	ug/L		03/25/19 08:54	03/27/19 09:42	1
N-Nitrosodi-n-propylamine	ND		1.0	0.25	ug/L		03/25/19 08:54	03/27/19 09:42	1
N-Nitrosodiphenylamine	ND		1.0	0.44	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.55	ug/L		03/25/19 08:54	03/27/19 09:42	1
Pentachlorophenol	ND		10	3.1	ug/L		03/25/19 08:54	03/27/19 09:42	1
Phenanthrene	ND		0.20	0.17	ug/L		03/25/19 08:54	03/27/19 09:42	1
Phenol	ND		1.0	0.13	ug/L		03/25/19 08:54	03/27/19 09:42	1
Pyrene	ND		0.20	0.18	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,4,5-Trichlorophenol	ND		5.0	2.0	ug/L		03/25/19 08:54	03/27/19 09:42	1
2,4,6-Trichlorophenol	ND		5.0	1.8	ug/L		03/25/19 08:54	03/27/19 09:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*38 - 120*	*03/25/19 08:54*	*03/27/19 09:42*	*1*
2-Fluorophenol (Surr)	*66*		*10 - 120*	*03/25/19 08:54*	*03/27/19 09:42*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 120*	*03/25/19 08:54*	*03/27/19 09:42*	*1*
Phenol-d5 (Surr)	*52*		*10 - 120*	*03/25/19 08:54*	*03/27/19 09:42*	*1*
Terphenyl-d14 (Surr)	*94*		*23 - 127*	*03/25/19 08:54*	*03/27/19 09:42*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*28 - 120*	*03/25/19 08:54*	*03/27/19 09:42*	*1*

Lab Sample ID: LCS 240-373069/15-A
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	18.2		ug/L		91	54 - 120
Acenaphthylene	20.0	18.3		ug/L		91	53 - 120
Acetophenone	20.0	20.1		ug/L		100	56 - 120
Anthracene	20.0	19.3		ug/L		97	56 - 120
Atrazine	40.0	40.6		ug/L		101	61 - 127
Benzaldehyde	40.0	38.1		ug/L		95	47 - 134
Benzo[a]anthracene	20.0	18.6		ug/L		93	54 - 120
Benzo[a]pyrene	20.0	20.5		ug/L		103	54 - 120
Benzo[b]fluoranthene	20.0	20.0		ug/L		100	53 - 120
Benzo[g,h,i]perylene	20.0	18.7		ug/L		93	55 - 120
Benzo[k]fluoranthene	20.0	19.6		ug/L		98	55 - 120
1,1'-Biphenyl	20.0	18.0		ug/L		90	53 - 120
Bis(2-chloroethoxy)methane	20.0	19.3		ug/L		96	56 - 120
Bis(2-chloroethyl)ether	20.0	18.7		ug/L		93	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	20.9		ug/L		104	50 - 120
4-Bromophenyl phenyl ether	20.0	19.3		ug/L		96	54 - 120
Butyl benzyl phthalate	20.0	20.0		ug/L		100	51 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-373069/15-A
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	40.0	7.46		ug/L		19	10 - 120
Carbazole	20.0	19.1		ug/L		96	62 - 120
4-Chloroaniline	20.0	9.12		ug/L		46	10 - 120
4-Chloro-3-methylphenol	20.0	19.5		ug/L		97	54 - 120
2-Chloronaphthalene	20.0	17.5		ug/L		87	53 - 120
2-Chlorophenol	20.0	18.3		ug/L		92	53 - 120
4-Chlorophenyl phenyl ether	20.0	17.0		ug/L		85	56 - 120
Chrysene	20.0	19.0		ug/L		95	56 - 120
Dibenz(a,h)anthracene	20.0	19.6		ug/L		98	52 - 120
Dibenzofuran	20.0	18.1		ug/L		91	55 - 120
3,3'-Dichlorobenzidine	40.0	39.4		ug/L		99	57 - 120
2,4-Dichlorophenol	20.0	19.8		ug/L		99	55 - 120
Diethyl phthalate	20.0	19.0		ug/L		95	42 - 132
2,4-Dimethylphenol	20.0	19.5		ug/L		98	52 - 120
Dimethyl phthalate	20.0	17.9		ug/L		90	56 - 120
Di-n-butyl phthalate	20.0	20.2		ug/L		101	61 - 120
4,6-Dinitro-2-methylphenol	40.0	40.8		ug/L		102	36 - 120
2,4-Dinitrophenol	40.0	34.2		ug/L		86	12 - 120
2,4-Dinitrotoluene	20.0	19.8		ug/L		99	60 - 120
2,6-Dinitrotoluene	20.0	19.2		ug/L		96	60 - 120
Di-n-octyl phthalate	20.0	20.1		ug/L		100	58 - 120
Fluoranthene	20.0	19.5		ug/L		97	58 - 120
Fluorene	20.0	17.2		ug/L		86	56 - 120
Hexachlorobenzene	20.0	17.3		ug/L		87	51 - 120
Hexachlorobutadiene	20.0	19.0		ug/L		95	44 - 120
Hexachlorocyclopentadiene	20.0	17.4		ug/L		87	19 - 120
Hexachloroethane	20.0	18.0		ug/L		90	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.8		ug/L		94	54 - 120
Isophorone	20.0	19.0		ug/L		95	55 - 120
2-Methylnaphthalene	20.0	18.4		ug/L		92	54 - 120
2-Methylphenol	20.0	17.6		ug/L		88	46 - 120
3 & 4 Methylphenol	20.0	16.7		ug/L		83	40 - 120
Naphthalene	20.0	17.9		ug/L		90	53 - 120
2-Nitroaniline	20.0	18.2		ug/L		91	51 - 120
3-Nitroaniline	20.0	17.5		ug/L		87	53 - 120
4-Nitroaniline	20.0	16.4		ug/L		82	55 - 120
Nitrobenzene	20.0	18.9		ug/L		95	55 - 120
2-Nitrophenol	20.0	20.1		ug/L		100	54 - 120
4-Nitrophenol	40.0	24.2		ug/L		60	10 - 120
N-Nitrosodi-n-propylamine	20.0	20.0		ug/L		100	53 - 120
N-Nitrosodiphenylamine	20.0	19.3		ug/L		96	55 - 120
2,2'-oxybis[1-chloropropane]	20.0	21.6		ug/L		108	45 - 120
Pentachlorophenol	40.0	35.7		ug/L		89	30 - 120
Phenanthrene	20.0	18.4		ug/L		92	55 - 120
Phenol	20.0	10.2		ug/L		51	10 - 120
Pyrene	20.0	19.0		ug/L		95	57 - 120
2,4,5-Trichlorophenol	20.0	18.9		ug/L		95	54 - 120
2,4,6-Trichlorophenol	20.0	19.2		ug/L		96	54 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-373069/15-A
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373069

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*
2-Fluorophenol (Surr)	*74*		*10 - 120*
Nitrobenzene-d5 (Surr)	*96*		*32 - 120*
Phenol-d5 (Surr)	*51*		*10 - 120*
Terphenyl-d14 (Surr)	*102*		*23 - 127*
2,4,6-Tribromophenol (Surr)	*101*		*28 - 120*

Lab Sample ID: LCSD 240-373069/16-A
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373069

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	20.0	17.7		ug/L		88	54 - 120	3	35
Acenaphthylene	20.0	17.8		ug/L		89	53 - 120	2	35
Acetophenone	20.0	19.7		ug/L		99	56 - 120	2	35
Anthracene	20.0	19.6		ug/L		98	56 - 120	1	35
Atrazine	40.0	41.1		ug/L		103	61 - 127	1	35
Benzaldehyde	40.0	37.7		ug/L		94	47 - 134	1	35
Benzo[a]anthracene	20.0	18.2		ug/L		91	54 - 120	2	35
Benzo[a]pyrene	20.0	20.4		ug/L		102	54 - 120	1	35
Benzo[b]fluoranthene	20.0	19.2		ug/L		96	53 - 120	4	35
Benzo[g,h,i]perylene	20.0	18.1		ug/L		90	55 - 120	3	35
Benzo[k]fluoranthene	20.0	20.6		ug/L		103	55 - 120	5	35
1,1'-Biphenyl	20.0	17.7		ug/L		88	53 - 120	2	35
Bis(2-chloroethoxy)methane	20.0	18.8		ug/L		94	56 - 120	2	35
Bis(2-chloroethyl)ether	20.0	18.4		ug/L		92	51 - 120	1	35
Bis(2-ethylhexyl) phthalate	20.0	20.7		ug/L		103	50 - 120	1	35
4-Bromophenyl phenyl ether	20.0	19.5		ug/L		98	54 - 120	1	35
Butyl benzyl phthalate	20.0	19.6		ug/L		98	51 - 120	2	35
Caprolactam	40.0	6.78		ug/L		17	10 - 120	10	35
Carbazole	20.0	19.8		ug/L		99	62 - 120	3	35
4-Chloroaniline	20.0	9.77		ug/L		49	10 - 120	7	35
4-Chloro-3-methylphenol	20.0	19.0		ug/L		95	54 - 120	2	35
2-Chloronaphthalene	20.0	17.4		ug/L		87	53 - 120	0	35
2-Chlorophenol	20.0	18.3		ug/L		92	53 - 120	0	35
4-Chlorophenyl phenyl ether	20.0	16.5		ug/L		82	56 - 120	3	35
Chrysene	20.0	18.5		ug/L		92	56 - 120	3	35
Dibenz(a,h)anthracene	20.0	19.4		ug/L		97	52 - 120	1	35
Dibenzofuran	20.0	17.7		ug/L		89	55 - 120	2	35
3,3'-Dichlorobenzidine	40.0	38.5		ug/L		96	57 - 120	2	35
2,4-Dichlorophenol	20.0	19.5		ug/L		97	55 - 120	1	35
Diethyl phthalate	20.0	18.8		ug/L		94	42 - 132	1	35
2,4-Dimethylphenol	20.0	19.1		ug/L		96	52 - 120	2	35
Dimethyl phthalate	20.0	18.0		ug/L		90	56 - 120	1	35
Di-n-butyl phthalate	20.0	20.4		ug/L		102	61 - 120	1	35
4,6-Dinitro-2-methylphenol	40.0	40.4		ug/L		101	36 - 120	1	35
2,4-Dinitrophenol	40.0	35.7		ug/L		89	12 - 120	4	35
2,4-Dinitrotoluene	20.0	19.0		ug/L		95	60 - 120	4	35

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-373069/16-A
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373069

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene	20.0	18.6		ug/L		93	60 - 120	3	35
Di-n-octyl phthalate	20.0	19.9		ug/L		99	58 - 120	1	35
Fluoranthene	20.0	19.6		ug/L		98	58 - 120	1	35
Fluorene	20.0	17.2		ug/L		86	56 - 120	0	35
Hexachlorobenzene	20.0	17.7		ug/L		88	51 - 120	2	35
Hexachlorobutadiene	20.0	17.3		ug/L		87	44 - 120	9	35
Hexachlorocyclopentadiene	20.0	16.6		ug/L		83	19 - 120	5	35
Hexachloroethane	20.0	17.1		ug/L		86	44 - 120	5	35
Indeno[1,2,3-cd]pyrene	20.0	19.1		ug/L		95	54 - 120	1	35
Isophorone	20.0	18.7		ug/L		94	55 - 120	1	35
2-Methylnaphthalene	20.0	18.0		ug/L		90	54 - 120	3	35
2-Methylphenol	20.0	16.9		ug/L		85	46 - 120	4	35
3 & 4 Methylphenol	20.0	15.7		ug/L		79	40 - 120	6	35
Naphthalene	20.0	17.7		ug/L		88	53 - 120	2	35
2-Nitroaniline	20.0	17.8		ug/L		89	51 - 120	3	35
3-Nitroaniline	20.0	17.1		ug/L		86	53 - 120	2	35
4-Nitroaniline	20.0	15.7		ug/L		78	55 - 120	5	35
Nitrobenzene	20.0	18.8		ug/L		94	55 - 120	1	35
2-Nitrophenol	20.0	19.6		ug/L		98	54 - 120	2	35
4-Nitrophenol	40.0	22.5		ug/L		56	10 - 120	7	35
N-Nitrosodi-n-propylamine	20.0	19.1		ug/L		96	53 - 120	4	35
N-Nitrosodiphenylamine	20.0	19.4		ug/L		97	55 - 120	0	35
2,2'-oxybis[1-chloropropane]	20.0	20.8		ug/L		104	45 - 120	4	35
Pentachlorophenol	40.0	36.4		ug/L		91	30 - 120	2	35
Phenanthrene	20.0	18.8		ug/L		94	55 - 120	2	35
Phenol	20.0	9.22		ug/L		46	10 - 120	10	35
Pyrene	20.0	18.9		ug/L		94	57 - 120	1	35
2,4,5-Trichlorophenol	20.0	19.0		ug/L		95	54 - 120	0	35
2,4,6-Trichlorophenol	20.0	19.2		ug/L		96	54 - 120	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*
2-Fluorophenol (Surr)	*68*		*10 - 120*
Nitrobenzene-d5 (Surr)	*93*		*32 - 120*
Phenol-d5 (Surr)	*46*		*10 - 120*
Terphenyl-d14 (Surr)	*102*		*23 - 127*
2,4,6-Tribromophenol (Surr)	*97*		*28 - 120*

Lab Sample ID: 240-109791-AA-2-A MS
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 373069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		19.8	16.0		ug/L		81	35 - 120
Acenaphthylene	ND		19.8	16.0		ug/L		81	36 - 120
Acetophenone	ND		19.8	16.0		ug/L		81	42 - 120
Anthracene	ND		19.8	17.1		ug/L		86	35 - 120
Atrazine	ND		39.6	36.3		ug/L		92	47 - 121

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-109791-AA-2-A MS
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 373069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	ND		39.6	31.1		ug/L		79	46 - 120
Benzo[a]anthracene	ND		19.8	16.3		ug/L		82	16 - 120
Benzo[a]pyrene	ND		19.8	18.1		ug/L		91	10 - 120
Benzo[b]fluoranthene	ND		19.8	17.5		ug/L		88	10 - 120
Benzo[g,h,i]perylene	ND		19.8	15.8		ug/L		80	10 - 120
Benzo[k]fluoranthene	ND		19.8	17.5		ug/L		88	10 - 120
1,1'-Biphenyl	ND		19.8	16.4		ug/L		83	45 - 120
Bis(2-chloroethoxy)methane	ND		19.8	16.5		ug/L		83	44 - 120
Bis(2-chloroethyl)ether	ND		19.8	15.3		ug/L		77	42 - 120
Bis(2-ethylhexyl) phthalate	ND		19.8	18.5		ug/L		93	15 - 120
4-Bromophenyl phenyl ether	ND		19.8	17.0		ug/L		86	41 - 120
Butyl benzyl phthalate	ND		19.8	17.6		ug/L		89	39 - 120
Caprolactam	ND	F1	39.6	3.43	J F1	ug/L		9	10 - 120
Carbazole	ND		19.8	16.9		ug/L		85	55 - 120
4-Chloroaniline	ND		19.8	3.62		ug/L		18	10 - 120
4-Chloro-3-methylphenol	ND		19.8	16.8		ug/L		85	32 - 120
2-Chloronaphthalene	ND		19.8	15.3		ug/L		77	42 - 120
2-Chlorophenol	ND		19.8	14.7		ug/L		74	29 - 120
4-Chlorophenyl phenyl ether	ND		19.8	15.3		ug/L		77	43 - 120
Chrysene	ND		19.8	16.2		ug/L		82	14 - 120
Dibenz(a,h)anthracene	ND		19.8	16.9		ug/L		85	10 - 120
Dibenzofuran	ND		19.8	16.0		ug/L		81	46 - 120
3,3'-Dichlorobenzidine	ND		39.6	32.7		ug/L		83	10 - 120
2,4-Dichlorophenol	ND		19.8	16.6		ug/L		84	19 - 121
Diethyl phthalate	ND		19.8	17.6		ug/L		89	49 - 120
2,4-Dimethylphenol	ND		19.8	16.6		ug/L		84	16 - 120
Dimethyl phthalate	ND		19.8	16.3		ug/L		82	47 - 120
Di-n-butyl phthalate	ND		19.8	18.3		ug/L		92	42 - 120
4,6-Dinitro-2-methylphenol	ND		39.6	35.8		ug/L		90	10 - 120
2,4-Dinitrophenol	ND		39.6	28.3		ug/L		72	10 - 120
2,4-Dinitrotoluene	ND		19.8	17.9		ug/L		90	49 - 120
2,6-Dinitrotoluene	ND		19.8	16.6		ug/L		84	48 - 120
Di-n-octyl phthalate	ND		19.8	17.4		ug/L		88	13 - 120
Fluoranthene	ND		19.8	17.6		ug/L		89	28 - 120
Fluorene	ND		19.8	15.5		ug/L		78	36 - 120
Hexachlorobenzene	ND		19.8	15.5		ug/L		78	31 - 120
Hexachlorobutadiene	ND		19.8	13.8		ug/L		70	30 - 120
Hexachlorocyclopentadiene	ND		19.8	13.8		ug/L		70	10 - 120
Hexachloroethane	ND		19.8	12.0		ug/L		61	12 - 120
Indeno[1,2,3-cd]pyrene	ND		19.8	16.2		ug/L		82	10 - 120
Isophorone	ND		19.8	16.2		ug/L		82	45 - 120
2-Methylnaphthalene	ND		19.8	15.4		ug/L		78	43 - 120
2-Methylphenol	ND		19.8	13.3		ug/L		67	18 - 120
3 & 4 Methylphenol	ND		19.8	12.1		ug/L		61	15 - 120
Naphthalene	ND		19.8	14.8		ug/L		75	32 - 120
2-Nitroaniline	ND		19.8	16.4		ug/L		83	35 - 120
3-Nitroaniline	ND		19.8	14.5		ug/L		73	10 - 120
4-Nitroaniline	ND		19.8	14.2		ug/L		72	10 - 120
Nitrobenzene	ND		19.8	16.3		ug/L		82	48 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-109791-AA-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373510 — **Prep Batch: 373069**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	ND		19.8	17.1		ug/L		87	43 - 120
4-Nitrophenol	ND		39.6	15.9		ug/L		40	10 - 120
N-Nitrosodi-n-propylamine	ND		19.8	17.1		ug/L		86	45 - 120
N-Nitrosodiphenylamine	ND		19.8	16.9		ug/L		85	39 - 120
2,2'-oxybis[1-chloropropane]	ND		19.8	17.8		ug/L		90	44 - 120
Pentachlorophenol	ND		39.6	31.1		ug/L		79	20 - 120
Phenanthrene	ND		19.8	16.5		ug/L		83	36 - 120
Phenol	ND		19.8	6.25		ug/L		32	10 - 120
Pyrene	ND		19.8	17.0		ug/L		86	28 - 120
2,4,5-Trichlorophenol	ND		19.8	17.5		ug/L		88	20 - 120
2,4,6-Trichlorophenol	ND		19.8	17.4		ug/L		88	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*38 - 120*
2-Fluorophenol (Surr)	*48*		*10 - 120*
Nitrobenzene-d5 (Surr)	*81*		*32 - 120*
Phenol-d5 (Surr)	*30*		*10 - 120*
Terphenyl-d14 (Surr)	*73*		*23 - 127*
2,4,6-Tribromophenol (Surr)	*92*		*28 - 120*

Lab Sample ID: 240-109791-AB-2-A MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373510 — **Prep Batch: 373069**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		20.0	16.8		ug/L		84	35 - 120	5	35
Acenaphthylene	ND		20.0	17.1		ug/L		85	36 - 120	7	35
Acetophenone	ND		20.0	18.2		ug/L		91	42 - 120	13	31
Anthracene	ND		20.0	18.5		ug/L		93	35 - 120	8	35
Atrazine	ND		40.0	39.0		ug/L		98	47 - 121	7	25
Benzaldehyde	ND		40.0	34.6		ug/L		86	46 - 120	11	35
Benzo[a]anthracene	ND		20.0	17.6		ug/L		88	16 - 120	7	35
Benzo[a]pyrene	ND		20.0	19.6		ug/L		98	10 - 120	8	35
Benzo[b]fluoranthene	ND		20.0	19.2		ug/L		96	10 - 120	10	35
Benzo[g,h,i]perylene	ND		20.0	17.1		ug/L		85	10 - 120	8	35
Benzo[k]fluoranthene	ND		20.0	19.2		ug/L		96	10 - 120	9	35
1,1'-Biphenyl	ND		20.0	16.7		ug/L		84	45 - 120	2	26
Bis(2-chloroethoxy)methane	ND		20.0	18.3		ug/L		91	44 - 120	10	32
Bis(2-chloroethyl)ether	ND		20.0	17.3		ug/L		86	42 - 120	12	35
Bis(2-ethylhexyl) phthalate	ND		20.0	20.0		ug/L		100	15 - 120	8	35
4-Bromophenyl phenyl ether	ND		20.0	18.2		ug/L		91	41 - 120	7	27
Butyl benzyl phthalate	ND		20.0	19.4		ug/L		97	39 - 120	9	30
Caprolactam	ND	F1	40.0	4.46	J	ug/L		11	10 - 120	26	33
Carbazole	ND		20.0	18.5		ug/L		93	55 - 120	10	24
4-Chloroaniline	ND		20.0	4.57		ug/L		23	10 - 120	23	35
4-Chloro-3-methylphenol	ND		20.0	18.0		ug/L		90	32 - 120	7	32
2-Chloronaphthalene	ND		20.0	16.6		ug/L		83	42 - 120	8	28
2-Chlorophenol	ND		20.0	16.1		ug/L		81	29 - 120	9	35

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-109791-AB-2-A MSD
Matrix: Water
Analysis Batch: 373510

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 373069

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	ND		20.0	16.3		ug/L		82	43 - 120	7	27
Chrysene	ND		20.0	17.9		ug/L		89	14 - 120	10	35
Dibenz(a,h)anthracene	ND		20.0	18.2		ug/L		91	10 - 120	7	35
Dibenzofuran	ND		20.0	16.9		ug/L		85	46 - 120	6	25
3,3'-Dichlorobenzidine	ND		40.0	36.3		ug/L		91	10 - 120	11	35
2,4-Dichlorophenol	ND		20.0	18.5		ug/L		92	19 - 121	11	34
Diethyl phthalate	ND		20.0	17.9		ug/L		90	49 - 120	2	24
2,4-Dimethylphenol	ND		20.0	17.6		ug/L		88	16 - 120	5	35
Dimethyl phthalate	ND		20.0	17.1		ug/L		85	47 - 120	5	24
Di-n-butyl phthalate	ND		20.0	20.0		ug/L		100	42 - 120	9	27
4,6-Dinitro-2-methylphenol	ND		40.0	37.6		ug/L		94	10 - 120	5	35
2,4-Dinitrophenol	ND		40.0	30.6		ug/L		77	10 - 120	8	35
2,4-Dinitrotoluene	ND		20.0	18.8		ug/L		94	49 - 120	5	26
2,6-Dinitrotoluene	ND		20.0	18.1		ug/L		90	48 - 120	9	25
Di-n-octyl phthalate	ND		20.0	18.9		ug/L		94	13 - 120	8	35
Fluoranthene	ND		20.0	19.0		ug/L		95	28 - 120	8	35
Fluorene	ND		20.0	16.4		ug/L		82	36 - 120	6	35
Hexachlorobenzene	ND		20.0	16.5		ug/L		83	31 - 120	6	26
Hexachlorobutadiene	ND		20.0	16.5		ug/L		82	30 - 120	18	35
Hexachlorocyclopentadiene	ND		20.0	15.1		ug/L		76	10 - 120	9	35
Hexachloroethane	ND		20.0	15.2		ug/L		76	12 - 120	23	35
Indeno[1,2,3-cd]pyrene	ND		20.0	17.4		ug/L		87	10 - 120	8	35
Isophorone	ND		20.0	18.0		ug/L		90	45 - 120	11	33
2-Methylnaphthalene	ND		20.0	17.3		ug/L		87	43 - 120	11	30
2-Methylphenol	ND		20.0	14.9		ug/L		74	18 - 120	11	35
3 & 4 Methylphenol	ND		20.0	13.2		ug/L		66	15 - 120	9	35
Naphthalene	ND		20.0	16.6		ug/L		83	32 - 120	12	35
2-Nitroaniline	ND		20.0	16.7		ug/L		84	35 - 120	2	28
3-Nitroaniline	ND		20.0	15.2		ug/L		76	10 - 120	4	35
4-Nitroaniline	ND		20.0	15.2		ug/L		76	10 - 120	7	35
Nitrobenzene	ND		20.0	17.8		ug/L		89	48 - 120	9	35
2-Nitrophenol	ND		20.0	18.9		ug/L		95	43 - 120	10	35
4-Nitrophenol	ND		40.0	16.6		ug/L		41	10 - 120	4	35
N-Nitrosodi-n-propylamine	ND		20.0	18.3		ug/L		91	45 - 120	7	33
N-Nitrosodiphenylamine	ND		20.0	18.5		ug/L		92	39 - 120	9	35
2,2'-oxybis[1-chloropropane]	ND		20.0	19.5		ug/L		97	44 - 120	9	34
Pentachlorophenol	ND		40.0	34.3		ug/L		86	20 - 120	10	24
Phenanthrene	ND		20.0	17.7		ug/L		89	36 - 120	7	35
Phenol	ND		20.0	6.96		ug/L		35	10 - 120	11	35
Pyrene	ND		20.0	18.7		ug/L		93	28 - 120	9	35
2,4,5-Trichlorophenol	ND		20.0	17.8		ug/L		89	20 - 120	2	33
2,4,6-Trichlorophenol	ND		20.0	18.2		ug/L		91	40 - 120	5	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*38 - 120*
2-Fluorophenol (Surr)	*55*		*10 - 120*
Nitrobenzene-d5 (Surr)	*89*		*32 - 120*
Phenol-d5 (Surr)	*34*		*10 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-109791-AB-2-A MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373510 — **Prep Batch: 373069**

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*74*		*23 - 127*
2,4,6-Tribromophenol (Surr)	*94*		*28 - 120*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 240-373174/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		5000	2000	ug/L			03/27/19 10:54	1

Lab Sample ID: LCS 240-373174/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373174

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Gasoline Range Organics (C6-C10)			40000	41700		ug/L		104	80 - 120		

Lab Sample ID: LCSD 240-373174/22 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373174

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)			40000	39200		ug/L		98	80 - 120	6	20

Lab Sample ID: 240-109791-M-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Gasoline Range Organics (C6-C10)	ND		40000	41300		ug/L		103	80 - 120		

Lab Sample ID: 240-109791-M-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	ND		40000	41200		ug/L		103	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-373294/20-A
Matrix: Water
Analysis Batch: 373631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.056	ug/L		03/26/19 09:36	03/28/19 10:24	1
Aroclor-1221	ND		0.20	0.057	ug/L		03/26/19 09:36	03/28/19 10:24	1
Aroclor-1232	ND		0.20	0.074	ug/L		03/26/19 09:36	03/28/19 10:24	1
Aroclor-1242	ND		0.20	0.076	ug/L		03/26/19 09:36	03/28/19 10:24	1
Aroclor-1248	ND		0.20	0.050	ug/L		03/26/19 09:36	03/28/19 10:24	1
Aroclor-1254	ND		0.20	0.040	ug/L		03/26/19 09:36	03/28/19 10:24	1
Aroclor-1260	ND		0.20	0.046	ug/L		03/26/19 09:36	03/28/19 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*22 - 120*	*03/26/19 09:36*	*03/28/19 10:24*	*1*
DCB Decachlorobiphenyl	*72*		*10 - 120*	*03/26/19 09:36*	*03/28/19 10:24*	*1*

Lab Sample ID: LCS 240-373294/21-A
Matrix: Water
Analysis Batch: 373631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.00	1.53		ug/L		76	28 - 120
Aroclor-1260	2.00	1.76		ug/L		88	30 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*22 - 120*
DCB Decachlorobiphenyl	*63*		*10 - 120*

Lab Sample ID: 240-109791-AD-2-A MS
Matrix: Water
Analysis Batch: 373631

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 373294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	ND		1.98	1.31		ug/L		66	14 - 120
Aroclor-1260	ND		1.98	1.61		ug/L		81	10 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*61*		*22 - 120*
DCB Decachlorobiphenyl	*63*		*10 - 120*

Lab Sample ID: 240-109791-Z-2-A MSD
Matrix: Water
Analysis Batch: 373631

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 373294

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	ND		2.00	1.36		ug/L		68	14 - 120	3	30
Aroclor-1260	ND		2.00	1.58		ug/L		79	10 - 120	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*22 - 120*
DCB Decachlorobiphenyl	*63*		*10 - 120*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-373576/9-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373766 — **Prep Batch: 373576**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0377	J	0.10	0.020	mg/L		03/27/19 13:38	03/28/19 17:52	1

Lab Sample ID: LCS 240-373576/10-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373766 — **Prep Batch: 373576**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.535		mg/L		107	75 - 115

Lab Sample ID: LCSD 240-373576/11-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373766 — **Prep Batch: 373576**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.500		mg/L		100	75 - 115	7	20

Lab Sample ID: 240-109791-AO-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373766 — **Prep Batch: 373576**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.048	J B	0.538	0.426		mg/L		70	60 - 130

Lab Sample ID: 240-109791-AP-2-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 373766 — **Prep Batch: 373576**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.048	J B	0.543	0.405		mg/L		66	60 - 130	5	25

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-373095/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 373481 — **Prep Batch: 373095**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		03/25/19 14:00	03/26/19 11:14	1
Antimony	ND		20	7.5	ug/L		03/25/19 14:00	03/26/19 11:14	1
Arsenic	ND		10	4.1	ug/L		03/25/19 14:00	03/26/19 11:14	1
Barium	ND		200	1.3	ug/L		03/25/19 14:00	03/26/19 11:14	1
Beryllium	ND		5.0	0.60	ug/L		03/25/19 14:00	03/26/19 11:14	1
Cadmium	ND		5.0	0.20	ug/L		03/25/19 14:00	03/26/19 11:14	1
Boron	ND		100	23	ug/L		03/25/19 14:00	03/26/19 11:14	1
Calcium	ND		5000	310	ug/L		03/25/19 14:00	03/26/19 11:14	1
Chromium	ND		10	0.63	ug/L		03/25/19 14:00	03/26/19 11:14	1
Cobalt	ND		10	0.75	ug/L		03/25/19 14:00	03/26/19 11:14	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 240-373095/1-A
Matrix: Water
Analysis Batch: 373481

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 373095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		25	3.5	ug/L		03/25/19 14:00	03/26/19 11:14	1
Iron	ND		200	26	ug/L		03/25/19 14:00	03/26/19 11:14	1
Lead	ND		3.0	2.8	ug/L		03/25/19 14:00	03/26/19 11:14	1
Magnesium	ND		5000	780	ug/L		03/25/19 14:00	03/26/19 11:14	1
Manganese	ND		15	2.1	ug/L		03/25/19 14:00	03/26/19 11:14	1
Nickel	ND		40	2.2	ug/L		03/25/19 14:00	03/26/19 11:14	1
Potassium	ND		5000	560	ug/L		03/25/19 14:00	03/26/19 11:14	1
Silver	ND		10	0.62	ug/L		03/25/19 14:00	03/26/19 11:14	1
Sodium	ND		5000	560	ug/L		03/25/19 14:00	03/26/19 11:14	1
Vanadium	ND		50	5.6	ug/L		03/25/19 14:00	03/26/19 11:14	1
Zinc	ND		50	9.7	ug/L		03/25/19 14:00	03/26/19 11:14	1

Lab Sample ID: LCS 240-373095/2-A
Matrix: Water
Analysis Batch: 373481

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 373095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1990		ug/L		99	80 - 120
Antimony	500	500		ug/L		100	80 - 120
Arsenic	2000	2020		ug/L		101	80 - 120
Barium	2000	1960		ug/L		98	80 - 120
Beryllium	50.0	48.3		ug/L		97	80 - 120
Cadmium	50.0	52.0		ug/L		104	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Calcium	50000	49700		ug/L		99	80 - 120
Chromium	200	203		ug/L		101	80 - 120
Cobalt	500	491		ug/L		98	80 - 120
Copper	250	256		ug/L		102	80 - 120
Iron	1000	1030		ug/L		103	80 - 120
Lead	500	485		ug/L		97	80 - 120
Magnesium	50000	50400		ug/L		101	80 - 120
Manganese	500	504		ug/L		101	80 - 120
Nickel	500	498		ug/L		100	80 - 120
Potassium	50000	50600		ug/L		101	80 - 120
Silver	50.0	52.9		ug/L		106	80 - 120
Sodium	50000	49700		ug/L		99	80 - 120
Vanadium	500	490		ug/L		98	80 - 120
Zinc	500	508		ug/L		102	80 - 120

Lab Sample ID: 240-109791-V-2-B MS
Matrix: Water
Analysis Batch: 373481

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 373095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		2000	2040		ug/L		102	75 - 125
Antimony	ND		500	511		ug/L		102	75 - 125
Arsenic	4.5	J	2000	2080		ug/L		104	75 - 125
Barium	190	J	2000	2190		ug/L		100	75 - 125
Beryllium	ND		50.0	49.6		ug/L		99	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 240-109791-V-2-B MS
Matrix: Water
Analysis Batch: 373481

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 373095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.31	J	50.0	52.9		ug/L		105	75 - 125
Boron	45	J	1000	1120		ug/L		108	75 - 125
Calcium	80000		50000	128000		ug/L		98	75 - 125
Chromium	ND		200	203		ug/L		102	75 - 125
Cobalt	ND		500	501		ug/L		100	75 - 125
Copper	ND		250	261		ug/L		104	75 - 125
Iron	3000		1000	3950		ug/L		94	75 - 125
Lead	ND		500	486		ug/L		97	75 - 125
Magnesium	28000		50000	78400		ug/L		101	75 - 125
Manganese	170		500	681		ug/L		101	75 - 125
Nickel	ND		500	506		ug/L		101	75 - 125
Potassium	2100	J	50000	53800		ug/L		103	75 - 125
Silver	ND		50.0	53.2		ug/L		106	75 - 125
Sodium	5800		50000	56800		ug/L		102	75 - 125
Vanadium	ND		500	498		ug/L		100	75 - 125
Zinc	ND		500	517		ug/L		103	75 - 125

Lab Sample ID: 240-109791-V-2-C MSD
Matrix: Water
Analysis Batch: 373481

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 373095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		2000	2080		ug/L		104	75 - 125	2	20
Antimony	ND		500	524		ug/L		105	75 - 125	3	20
Arsenic	4.5	J	2000	2110		ug/L		105	75 - 125	2	20
Barium	190	J	2000	2230		ug/L		102	75 - 125	2	20
Beryllium	ND		50.0	50.4		ug/L		101	75 - 125	2	20
Cadmium	0.31	J	50.0	53.8		ug/L		107	75 - 125	2	20
Boron	45	J	1000	1130		ug/L		109	75 - 125	1	20
Calcium	80000		50000	130000		ug/L		102	75 - 125	1	20
Chromium	ND		200	207		ug/L		103	75 - 125	2	20
Cobalt	ND		500	510		ug/L		102	75 - 125	2	20
Copper	ND		250	264		ug/L		106	75 - 125	1	20
Iron	3000		1000	4050		ug/L		104	75 - 125	2	20
Lead	ND		500	494		ug/L		99	75 - 125	1	20
Magnesium	28000		50000	79500		ug/L		103	75 - 125	1	20
Manganese	170		500	692		ug/L		103	75 - 125	2	20
Nickel	ND		500	516		ug/L		103	75 - 125	2	20
Potassium	2100	J	50000	54400		ug/L		105	75 - 125	1	20
Silver	ND		50.0	53.4		ug/L		107	75 - 125	0	20
Sodium	5800		50000	57600		ug/L		103	75 - 125	1	20
Vanadium	ND		500	510		ug/L		102	75 - 125	2	20
Zinc	ND		500	520		ug/L		104	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-373095/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 373492 — **Prep Batch: 373095**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		03/25/19 14:00	03/26/19 17:38	1

Lab Sample ID: LCS 240-373095/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 373492 — **Prep Batch: 373095**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	250	251		ug/L		101	80 - 120

Lab Sample ID: 240-109791-V-2-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 373492 — **Prep Batch: 373095**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		250	253		ug/L		101	80 - 120

Lab Sample ID: 240-109791-V-2-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 373492 — **Prep Batch: 373095**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		250	254		ug/L		102	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-374304/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 07:54	1

Lab Sample ID: LCS 240-374304/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.73		ug/L		95	80 - 120

Lab Sample ID: 240-109791-X-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	0.986		ug/L		99	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-109791-X-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.943		ug/L		94	80 - 120	5	20

Method: 9016 - Cyanide, Free

Lab Sample ID: MB 460-599997/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 600127 — **Prep Batch: 599997**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/03/19 13:30	04/03/19 15:53	1

Lab Sample ID: LCS 460-599997/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 600127 — **Prep Batch: 599997**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free			50.0	44.4		ug/L		89	78 - 110		

Lab Sample ID: 240-109791-A-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 600127 — **Prep Batch: 599997**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free	ND	F1	50.0	39.8		ug/L		80	78 - 110		

Lab Sample ID: 240-109791-A-2-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 600127 — **Prep Batch: 599997**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Free	ND	F1	50.0	38.5	F1	ug/L		77	78 - 110	3	20

Lab Sample ID: DLCK 460-600127/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 600127

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free			2.00	2.13	J	ug/L		106	50 - 150		

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

GC/MS VOA

Analysis Batch: 374533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Total/NA	Water	8260B	
240-109868-2	AMW-07(20190321)	Total/NA	Water	8260B	
240-109868-3	AMW-26(20190321)	Total/NA	Water	8260B	
240-109868-4	DUP-02	Total/NA	Water	8260B	
MB 240-374533/8	Method Blank	Total/NA	Water	8260B	
LCS 240-374533/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 374680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-5	TRIP BLANK	Total/NA	Water	8260B	
MB 240-374680/6	Method Blank	Total/NA	Water	8260B	
LCS 240-374680/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 374729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Total/NA	Water	8260B	
240-109868-2	AMW-07(20190321)	Total/NA	Water	8260B	
240-109868-3	AMW-26(20190321)	Total/NA	Water	8260B	
240-109868-4	DUP-02	Total/NA	Water	8260B	
MB 240-374729/6	Method Blank	Total/NA	Water	8260B	
LCS 240-374729/4	Lab Control Sample	Total/NA	Water	8260B	
240-109800-B-20 MS	Matrix Spike	Total/NA	Water	8260B	
240-109800-B-20 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 373069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-2	AMW-07(20190321)	Total/NA	Water	3510C	
240-109868-3	AMW-26(20190321)	Total/NA	Water	3510C	
240-109868-4	DUP-02	Total/NA	Water	3510C	
MB 240-373069/14-A	Method Blank	Total/NA	Water	3510C	
LCS 240-373069/15-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-373069/16-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-109791-AA-2-A MS	Matrix Spike	Total/NA	Water	3510C	
240-109791-AB-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 373510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-2	AMW-07(20190321)	Total/NA	Water	8270D	373069
240-109868-3	AMW-26(20190321)	Total/NA	Water	8270D	373069
240-109868-4	DUP-02	Total/NA	Water	8270D	373069
MB 240-373069/14-A	Method Blank	Total/NA	Water	8270D	373069
LCS 240-373069/15-A	Lab Control Sample	Total/NA	Water	8270D	373069
LCSD 240-373069/16-A	Lab Control Sample Dup	Total/NA	Water	8270D	373069
240-109791-AA-2-A MS	Matrix Spike	Total/NA	Water	8270D	373069
240-109791-AB-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	373069

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

GC VOA

Analysis Batch: 373174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-2	AMW-07(20190321)	Total/NA	Water	WI-GRO	
240-109868-3	AMW-26(20190321)	Total/NA	Water	WI-GRO	
240-109868-4	DUP-02	Total/NA	Water	WI-GRO	
MB 240-373174/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-373174/5	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 240-373174/22	Lab Control Sample Dup	Total/NA	Water	WI-GRO	
240-109791-M-2 MS	Matrix Spike	Total/NA	Water	WI-GRO	
240-109791-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	WI-GRO	

GC Semi VOA

Prep Batch: 373294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-2	AMW-07(20190321)	Total/NA	Water	3520C	
240-109868-3	AMW-26(20190321)	Total/NA	Water	3520C	
240-109868-4	DUP-02	Total/NA	Water	3520C	
MB 240-373294/20-A	Method Blank	Total/NA	Water	3520C	
LCS 240-373294/21-A	Lab Control Sample	Total/NA	Water	3520C	
240-109791-AD-2-A MS	Matrix Spike	Total/NA	Water	3520C	
240-109791-Z-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Prep Batch: 373576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-2	AMW-07(20190321)	Total/NA	Water	3510C	
240-109868-3	AMW-26(20190321)	Total/NA	Water	3510C	
240-109868-4	DUP-02	Total/NA	Water	3510C	
MB 240-373576/9-A	Method Blank	Total/NA	Water	3510C	
LCS 240-373576/10-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-373576/11-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-109791-AO-2-B MS	Matrix Spike	Total/NA	Water	3510C	
240-109791-AP-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 373631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-2	AMW-07(20190321)	Total/NA	Water	8082A	373294
240-109868-3	AMW-26(20190321)	Total/NA	Water	8082A	373294
240-109868-4	DUP-02	Total/NA	Water	8082A	373294
MB 240-373294/20-A	Method Blank	Total/NA	Water	8082A	373294
LCS 240-373294/21-A	Lab Control Sample	Total/NA	Water	8082A	373294
240-109791-AD-2-A MS	Matrix Spike	Total/NA	Water	8082A	373294
240-109791-Z-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	8082A	373294

Analysis Batch: 373766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-2	AMW-07(20190321)	Total/NA	Water	WI-DRO	373576
240-109868-3	AMW-26(20190321)	Total/NA	Water	WI-DRO	373576
240-109868-4	DUP-02	Total/NA	Water	WI-DRO	373576
MB 240-373576/9-A	Method Blank	Total/NA	Water	WI-DRO	373576
LCS 240-373576/10-A	Lab Control Sample	Total/NA	Water	WI-DRO	373576
LCSD 240-373576/11-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	373576
240-109791-AO-2-B MS	Matrix Spike	Total/NA	Water	WI-DRO	373576

GC Semi VOA (Continued)

Analysis Batch: 373766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109791-AP-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	WI-DRO	373576

Metals

Prep Batch: 373095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Dissolved	Water	3005A	
240-109868-2	AMW-07(20190321)	Dissolved	Water	3005A	
240-109868-3	AMW-26(20190321)	Dissolved	Water	3005A	
240-109868-4	DUP-02	Dissolved	Water	3005A	
MB 240-373095/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-373095/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-373095/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-109791-V-2-B MS	Matrix Spike	Dissolved	Water	3005A	
240-109791-V-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
240-109791-V-2-D MS	Matrix Spike	Dissolved	Water	3005A	
240-109791-V-2-E MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 373481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Dissolved	Water	6010D	373095
240-109868-2	AMW-07(20190321)	Dissolved	Water	6010D	373095
240-109868-3	AMW-26(20190321)	Dissolved	Water	6010D	373095
240-109868-4	DUP-02	Dissolved	Water	6010D	373095
MB 240-373095/1-A	Method Blank	Total Recoverable	Water	6010D	373095
LCS 240-373095/2-A	Lab Control Sample	Total Recoverable	Water	6010D	373095
240-109791-V-2-B MS	Matrix Spike	Dissolved	Water	6010D	373095
240-109791-V-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	373095

Analysis Batch: 373492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Dissolved	Water	6020B	373095
240-109868-2	AMW-07(20190321)	Dissolved	Water	6020B	373095
240-109868-3	AMW-26(20190321)	Dissolved	Water	6020B	373095
240-109868-4	DUP-02	Dissolved	Water	6020B	373095
MB 240-373095/1-A	Method Blank	Total Recoverable	Water	6020B	373095
LCS 240-373095/3-A	Lab Control Sample	Total Recoverable	Water	6020B	373095
240-109791-V-2-D MS	Matrix Spike	Dissolved	Water	6020B	373095
240-109791-V-2-E MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	373095

Prep Batch: 374304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Dissolved	Water	7470A	
240-109868-2	AMW-07(20190321)	Dissolved	Water	7470A	
240-109868-3	AMW-26(20190321)	Dissolved	Water	7470A	
240-109868-4	DUP-02	Dissolved	Water	7470A	
MB 240-374304/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-374304/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-109791-X-2-B MS	Matrix Spike	Dissolved	Water	7470A	
240-109791-X-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Metals

Analysis Batch: 374451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Dissolved	Water	7470A	374304
240-109868-2	AMW-07(20190321)	Dissolved	Water	7470A	374304
240-109868-3	AMW-26(20190321)	Dissolved	Water	7470A	374304
240-109868-4	DUP-02	Dissolved	Water	7470A	374304
MB 240-374304/1-A	Method Blank	Total/NA	Water	7470A	374304
LCS 240-374304/2-A	Lab Control Sample	Total/NA	Water	7470A	374304
240-109791-X-2-B MS	Matrix Spike	Dissolved	Water	7470A	374304
240-109791-X-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	374304

General Chemistry

Prep Batch: 599997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Total/NA	Water	9016	
240-109868-2	AMW-07(20190321)	Total/NA	Water	9016	
240-109868-3	AMW-26(20190321)	Total/NA	Water	9016	
240-109868-4	DUP-02	Total/NA	Water	9016	
MB 460-599997/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-599997/2-A	Lab Control Sample	Total/NA	Water	9016	
240-109791-A-2-A MS	Matrix Spike	Total/NA	Water	9016	
240-109791-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	9016	

Analysis Batch: 600127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109868-1	AMW-05B(20190321)	Total/NA	Water	9016	599997
240-109868-2	AMW-07(20190321)	Total/NA	Water	9016	599997
240-109868-3	AMW-26(20190321)	Total/NA	Water	9016	599997
240-109868-4	DUP-02	Total/NA	Water	9016	599997
MB 460-599997/1-A	Method Blank	Total/NA	Water	9016	599997
DLCK 460-600127/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-599997/2-A	Lab Control Sample	Total/NA	Water	9016	599997
240-109791-A-2-A MS	Matrix Spike	Total/NA	Water	9016	599997
240-109791-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	9016	599997

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-05B(20190321)

Lab Sample ID: 240-109868-1
Date Collected: 03/21/19 11:35
Matrix: Water
Date Received: 03/23/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374729	04/04/19 16:30	LRW	TAL CAN
Total/NA	Analysis	8260B		1	374533	04/03/19 17:50	LRW	TAL CAN
Dissolved	Prep	3005A			373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	373481	03/26/19 12:08	RKT	TAL CAN
Dissolved	Prep	3005A			373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6020B		1	373492	03/26/19 18:03	DSH	TAL CAN
Dissolved	Prep	7470A			374304	04/02/19 12:00	MBB	TAL CAN
Dissolved	Analysis	7470A		1	374451	04/03/19 09:53	AJC	TAL CAN
Total/NA	Prep	9016			599997	04/03/19 13:30	KYN	TAL EDI
Total/NA	Analysis	9016		1	600127	04/03/19 15:53	EMS	TAL EDI

Client Sample ID: AMW-07(20190321)

Lab Sample ID: 240-109868-2
Date Collected: 03/21/19 09:30
Matrix: Water
Date Received: 03/23/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374729	04/04/19 16:59	LRW	TAL CAN
Total/NA	Analysis	8260B		1	374533	04/03/19 18:13	LRW	TAL CAN
Total/NA	Prep	3510C			373069	03/25/19 08:54	EMB	TAL CAN
Total/NA	Analysis	8270D		1	373510	03/27/19 13:19	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	373174	03/27/19 20:35	LKG	TAL CAN
Total/NA	Prep	3520C			373294	03/26/19 09:36	BMB	TAL CAN
Total/NA	Analysis	8082A		1	373631	03/28/19 12:32	CSC	TAL CAN
Total/NA	Prep	3510C			373576	03/27/19 13:38	ACS	TAL CAN
Total/NA	Analysis	WI-DRO		1	373766	03/28/19 21:02	DEB	TAL CAN
Dissolved	Prep	3005A			373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	373481	03/26/19 12:13	RKT	TAL CAN
Dissolved	Prep	3005A			373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6020B		1	373492	03/26/19 18:06	DSH	TAL CAN
Dissolved	Prep	7470A			374304	04/02/19 12:00	MBB	TAL CAN
Dissolved	Analysis	7470A		1	374451	04/03/19 09:55	AJC	TAL CAN
Total/NA	Prep	9016			599997	04/03/19 13:30	KYN	TAL EDI
Total/NA	Analysis	9016		1	600127	04/03/19 15:53	EMS	TAL EDI

Client Sample ID: AMW-26(20190321)

Lab Sample ID: 240-109868-3
Date Collected: 03/21/19 13:45
Matrix: Water
Date Received: 03/23/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374729	04/04/19 17:23	LRW	TAL CAN
Total/NA	Analysis	8260B		1	374533	04/03/19 18:36	LRW	TAL CAN
Total/NA	Prep	3510C			373069	03/25/19 08:54	EMB	TAL CAN
Total/NA	Analysis	8270D		1	373510	03/27/19 13:43	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	373174	03/27/19 21:13	LKG	TAL CAN

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Client Sample ID: AMW-26(20190321)

Lab Sample ID: 240-109868-3
Date Collected: 03/21/19 13:45
Matrix: Water
Date Received: 03/23/19 09:50

Total/NA	Analysis	8082A	1	373631	03/28/19 12:50	CSC	TAL CAN
Total/NA	Prep	3510C		373576	03/27/19 13:38	ACS	TAL CAN
Total/NA	Analysis	WI-DRO	1	373766	03/28/19 21:29	DEB	TAL CAN
Dissolved	Prep	3005A		373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D	1	373481	03/26/19 12:18	RKT	TAL CAN
Dissolved	Prep	3005A		373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6020B	1	373492	03/26/19 18:08	DSH	TAL CAN
Dissolved	Prep	7470A		374304	04/02/19 12:00	MBB	TAL CAN
Dissolved	Analysis	7470A	1	374451	04/03/19 09:57	AJC	TAL CAN
Total/NA	Prep	9016		599997	04/03/19 13:30	KYN	TAL EDI
Total/NA	Analysis	9016	1	600127	04/03/19 15:53	EMS	TAL EDI

Client Sample ID: DUP-02

Lab Sample ID: 240-109868-4
Date Collected: 03/21/19 00:00
Matrix: Water
Date Received: 03/23/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374729	04/04/19 17:46	LRW	TAL CAN
Total/NA	Analysis	8260B		1	374533	04/03/19 18:58	LRW	TAL CAN
Total/NA	Prep	3510C			373069	03/25/19 08:54	EMB	TAL CAN
Total/NA	Analysis	8270D		1	373510	03/27/19 14:07	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	373174	03/27/19 21:51	LKG	TAL CAN
Total/NA	Prep	3520C			373294	03/26/19 09:36	BMB	TAL CAN
Total/NA	Analysis	8082A		1	373631	03/28/19 13:08	CSC	TAL CAN
Total/NA	Prep	3510C			373576	03/27/19 13:38	ACS	TAL CAN
Total/NA	Analysis	WI-DRO		1	373766	03/28/19 21:56	DEB	TAL CAN
Dissolved	Prep	3005A			373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	373481	03/26/19 12:22	RKT	TAL CAN
Dissolved	Prep	3005A			373095	03/25/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6020B		1	373492	03/26/19 18:10	DSH	TAL CAN
Dissolved	Prep	7470A			374304	04/02/19 12:00	MBB	TAL CAN
Dissolved	Analysis	7470A		1	374451	04/03/19 09:59	AJC	TAL CAN
Total/NA	Prep	9016			599997	04/03/19 13:30	KYN	TAL EDI
Total/NA	Analysis	9016		1	600127	04/03/19 15:53	EMS	TAL EDI

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-109868-5
Date Collected: 03/21/19 00:00
Matrix: Water
Date Received: 03/23/19 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	374680	04/04/19 12:10	LEE	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109868-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	04-30-19 *
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

0.8 | <0.6
1.4 | <1.2
1.0 | <0.8

Chain of Custody Record

estAmerica Minneapolis SC
213

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jackie Anderson	Lab PM: DelMonico, Michael	Carrier Tracking No(s):	COC No: 240-58719-25094.4
Client Contact: Jim Ziska	Phone: 612-339-9434	E-Mail: michael.delmonico@testamericainc.com		Page: ~~Page 4 of 5~~ 1 of 1
Company: ARCADIS U.S., Inc.				Job #:
Address: 430 First Avenue, North Suite 720	Due Date Requested:			
City: Minneapolis	TAT Requested (days): STD			
State, Zip: MN, 55304				
Phone:	PO #: MN000653.0007.00002			
Email: James.Ziska@arcadis.com	WO #: Enovis/Cadena #: E200572			
Project Name: Ford TCAP - E200572	Project #: 24006638			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260B, 465 VOCs	6010D - TAL Metals List - FF	6020B - Thallium - FF	9016 - Free Cyanide	8082A, 8270D	WI_DRO - WI DRO	WI_GRO - WI GRO	8260B - TB - 8260B, 465 VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	D	B	N	A	A	A		
AMW-05B (20190321)	3/21/19	1135	G	Water	Y	N	X	X	X	X						
AMW-07 (20190321)	↓	930	G	Water	Y	N	X	X	X	X	X	X	X			
AMW-26 (20190321)	↓	1345	G	Water	Y	N	X	X	X	X	X	X	X			
DUP-02		0000		Water	Y	N	X	X	X	X	X	X	X			
Trip Blank	—			Water			X						X			
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

240-109868 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, (IV), Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jackelyn Anderson	3/21/19 1522	Arcadis	[illegible]	3-22-19 1200	TA
[illegible]	3-22-19 1700	TA	[illegible]	3/23/19 950	TA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 109868

Client Arcadis Site Name _____

Cooler Received on 03/23/19 Opened on 03/23/19

Cooler unpacked by: DSD

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form
   IR GUN# IR-8 (CF **-0.2** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN #36 (CF **+0.7**°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 each Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC861525**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 383701VB Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login # : 1098868

TestAmerica Canton Sample Receipt Multiple Cooler Form				
Cooler Description	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
TA	8	0.8	0.6	ICE
		1.4	1.2	
		1.0	0.8	

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
AMW-05B(20190321)	240-109868-D-1	Plastic 250ml - with Sodium Hydro	>12	_____	_____
AMW-05B(20190321)	240-109868-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-07(20190321)	240-109868-G-2	Plastic 250ml - with Sodium Hydro	>12	_____	_____
AMW-07(20190321)	240-109868-H-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-26(20190321)	240-109868-G-3	Plastic 250ml - with Sodium Hydro	>12	_____	_____
AMW-26(20190321)	240-109868-H-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
DUP-02	240-109868-G-4	Plastic 250ml - with Sodium Hydro	>12	_____	_____
DUP-02	240-109868-H-4	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: DelMonico, Michael	Carrier Tracking No(s):	COC No: 240-101195.1
Client Contact: *Shipping/Receiving*	Phone:	E-Mail: michael.delmonico@testamericainc.com	State of Origin: Minnesota	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 240-109868-1
Address: 777 New Durham Road, ,	Due Date Requested: 4/4/2019			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Ford TCAP - E200572	Project #: 24006638			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9016/9016_Prep (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AMW-05B(20190321) (240-109868-1)	3/21/19	11:35 Central		Water			X	1	
AMW-07(20190321) (240-109868-2)	3/21/19	09:30 Central		Water			X	1	
AMW-26(20190321) (240-109868-3)	3/21/19	13:45 Central		Water			X	1	
DUP-02 (240-109868-4)	3/21/19	Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/25 1500	Company	Received by: Angela Pinilla via FEDEX	Date/Time: 03/26/19 09:10	Company TA Edison
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: NO CS		Cooler Temperature(s) °C and Other Remarks: 1.2 °C IR#9		

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-109868-1

Login Number: 109868
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 03/26/19 11:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-109987-1
Client Project/Site: Ford TCAP - E200572

For:
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Attn: Kristoffer Hinskey

Authorized for release by:
4/10/2019 11:42:03 AM

Michael DelMonico, Project Manager I
(330)497-9396
michael.delmonico@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-109987-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-109987-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The 9016 Free Cyanide analysis was performed at the Eurofins TestAmerica, Edison laboratory.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT
The samples were received on 3/27/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)
Samples AMW-27 (20190325) (240-109987-1) and TRIP BLANK (240-109987-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/07/2019.

No MS/MSD in batch 85893 due to an instrument fault: AMW-27 (20190325) (240-109987-1) and TRIP BLANK (240-109987-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)
Sample AMW-27 (20190325) (240-109987-1) was analyzed for dissolved metals (ICP) in accordance with SW846 Method 6010D. The sample was prepared on 03/28/2019 and analyzed on 03/29/2019.

Iron failed the recovery criteria low for the MS/MSD of sample AMW-27 (20190325)MS/MSD (240-109987-1) in batch 240-373933. Refer to the QC report for details.

Job ID: 240-109987-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-27 (20190325) (240-109987-1). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)
Sample AMW-27 (20190325) (240-109987-1) was analyzed for dissolved metals (ICPMS) in accordance with SW-846 Method 6020B. The sample was prepared on 03/28/2019 and analyzed on 03/29/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)
Sample AMW-27 (20190325) (240-109987-1) was analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The sample was prepared on 04/02/2019 and analyzed on 04/03/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FREE CYANIDE
Sample AMW-27 (20190325) (240-109987-1) was analyzed for free cyanide in accordance with EPA SW-846 Method 9016. The sample was prepared and analyzed on 04/03/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010D	Metals (ICP)	SW846	TAL CAN
6020B	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9016	Cyanide, Free	SW846	TAL EDI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN
7470A	Preparation, Mercury	SW846	TAL CAN
9016	Cyanide, Preparation	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-109987-1	AMW-27 (20190325)	Water	03/25/19 10:00	03/27/19 09:30
240-109987-2	TRIP BLANK	Water	03/25/19 00:00	03/27/19 09:30

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Client Sample ID: AMW-27 (20190325) — Lab Sample ID: 240-109987-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	10		1.0	0.14	ug/L	1		8260B	Total/NA
Barium	71	J	200	1.3	ug/L	1		6010D	Dissolved
Boron	66	J	100	23	ug/L	1		6010D	Dissolved
Calcium	72000		5000	310	ug/L	1		6010D	Dissolved
Chromium	1.1	J	10	0.63	ug/L	1		6010D	Dissolved
Cobalt	3.7	J	10	0.75	ug/L	1		6010D	Dissolved
Iron	4900		200	26	ug/L	1		6010D	Dissolved
Magnesium	29000		5000	780	ug/L	1		6010D	Dissolved
Manganese	570		15	2.1	ug/L	1		6010D	Dissolved
Nickel	38	J	40	2.2	ug/L	1		6010D	Dissolved
Potassium	5700		5000	560	ug/L	1		6010D	Dissolved
Silver	0.62	J	10	0.62	ug/L	1		6010D	Dissolved
Sodium	37000		5000	560	ug/L	1		6010D	Dissolved

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-109987-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Client Sample ID: AMW-27 (20190325)

Lab Sample ID: 240-109987-1

Date Collected: 03/25/19 10:00
Matrix: Water
Date Received: 03/27/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/07/19 15:12	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/07/19 15:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/07/19 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/07/19 15:12	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/07/19 15:12	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/07/19 15:12	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/07/19 15:12	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/07/19 15:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/07/19 15:12	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/07/19 15:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/07/19 15:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/07/19 15:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/07/19 15:12	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/07/19 15:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/19 15:12	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/07/19 15:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/07/19 15:12	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/07/19 15:12	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/07/19 15:12	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/07/19 15:12	1
Allyl chloride	ND		2.0	0.61	ug/L			04/07/19 15:12	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/07/19 15:12	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/07/19 15:12	1
2-Hexanone	ND		10	0.54	ug/L			04/07/19 15:12	1
Bromobenzene	ND		1.0	0.12	ug/L			04/07/19 15:12	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/07/19 15:12	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/07/19 15:12	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/07/19 15:12	1
Acetone	ND		10	5.4	ug/L			04/07/19 15:12	1
Benzene	ND		1.0	0.13	ug/L			04/07/19 15:12	1
Bromoform	ND		1.0	0.76	ug/L			04/07/19 15:12	1
Bromomethane	ND		1.0	0.42	ug/L			04/07/19 15:12	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/07/19 15:12	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/07/19 15:12	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/07/19 15:12	1
Chloroethane	ND		1.0	0.83	ug/L			04/07/19 15:12	1
Chloroform	ND		1.0	0.13	ug/L			04/07/19 15:12	1
Chloromethane	ND		1.0	0.20	ug/L			04/07/19 15:12	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/07/19 15:12	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/07/19 15:12	1
Cyclohexane	ND		1.0	0.24	ug/L			04/07/19 15:12	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/07/19 15:12	1
Dibromomethane	ND		1.0	0.090	ug/L			04/07/19 15:12	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/07/19 15:12	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/07/19 15:12	1
Dichlorofluoromethane	ND		1.0	0.28	ug/L			04/07/19 15:12	1
Ethyl ether	ND		1.0	0.19	ug/L			04/07/19 15:12	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/07/19 15:12	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/07/19 15:12	1

Client Sample ID: AMW-27 (20190325)

Lab Sample ID: 240-109987-1

Date Collected: 03/25/19 10:00

Matrix: Water

Date Received: 03/27/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/07/19 15:12	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/07/19 15:12	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/07/19 15:12	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/07/19 15:12	1
Methyl acetate	ND		10	1.7	ug/L			04/07/19 15:12	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/07/19 15:12	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/07/19 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			04/07/19 15:12	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/07/19 15:12	1
Methyl tert butyl ether	ND		2.0	0.070	ug/L			04/07/19 15:12	1
Methylene Chloride	ND		1.0	2.6	ug/L			04/07/19 15:12	1
o-Xylene	ND		1.0	0.090	ug/L			04/07/19 15:12	1
Styrene	ND		1.0	0.10	ug/L			04/07/19 15:12	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/07/19 15:12	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/07/19 15:12	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/07/19 15:12	1
Toluene	**10**		1.0	0.14	ug/L			04/07/19 15:12	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/07/19 15:12	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/07/19 15:12	1
Trichloroethene	ND		1.0	0.10	ug/L			04/07/19 15:12	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/07/19 15:12	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/07/19 15:12	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/07/19 15:12	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/07/19 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 121*		*04/07/19 15:12*	*1*
4-Bromofluorobenzene (Surr)	*84*		*59 - 120*		*04/07/19 15:12*	*1*
Toluene-d8 (Surr)	*95*		*70 - 123*		*04/07/19 15:12*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 128*		*04/07/19 15:12*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		03/28/19 14:00	03/29/19 14:31	1
Antimony	ND		20	7.5	ug/L		03/28/19 14:00	03/29/19 14:31	1
Arsenic	ND		10	4.1	ug/L		03/28/19 14:00	03/29/19 14:31	1
Barium	**71**	**J**	200	1.3	ug/L		03/28/19 14:00	03/29/19 14:31	1
Beryllium	ND		5.0	0.60	ug/L		03/28/19 14:00	03/29/19 14:31	1
Cadmium	ND		5.0	0.20	ug/L		03/28/19 14:00	03/29/19 14:31	1
Boron	**66**	**J**	100	23	ug/L		03/28/19 14:00	03/29/19 14:31	1
Calcium	**72000**		5000	310	ug/L		03/28/19 14:00	03/29/19 14:31	1
Chromium	**1.1**	**J**	10	0.63	ug/L		03/28/19 14:00	03/29/19 14:31	1
Cobalt	**3.7**	**J**	10	0.75	ug/L		03/28/19 14:00	03/29/19 14:31	1
Copper	ND		25	3.5	ug/L		03/28/19 14:00	03/29/19 14:31	1
Iron	**4900**		200	26	ug/L		03/28/19 14:00	03/29/19 14:31	1
Lead	ND		3.0	2.8	ug/L		03/28/19 14:00	03/29/19 14:31	1
Magnesium	**29000**		5000	780	ug/L		03/28/19 14:00	03/29/19 14:31	1
Manganese	**570**		15	2.1	ug/L		03/28/19 14:00	03/29/19 14:31	1
Nickel	**38**	**J**	40	2.2	ug/L		03/28/19 14:00	03/29/19 14:31	1
Potassium	**5700**		5000	560	ug/L		03/28/19 14:00	03/29/19 14:31	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Client Sample ID: AMW-27 (20190325)

Lab Sample ID: 240-109987-1

Date Collected: 03/25/19 10:00
Matrix: Water
Date Received: 03/27/19 09:30

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.62**	**J**	10	0.62	ug/L		03/28/19 14:00	03/29/19 14:31	1
Sodium	**37000**		5000	560	ug/L		03/28/19 14:00	03/29/19 14:31	1
Vanadium	ND		50	5.6	ug/L		03/28/19 14:00	03/29/19 14:31	1
Zinc	ND		50	9.7	ug/L		03/28/19 14:00	03/29/19 14:31	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		03/28/19 14:00	03/29/19 15:37	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/03/19 13:30	04/03/19 15:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-109987-2

Date Collected: 03/25/19 00:00
Matrix: Water
Date Received: 03/27/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/07/19 15:34	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/07/19 15:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/07/19 15:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/07/19 15:34	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/07/19 15:34	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/07/19 15:34	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/07/19 15:34	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/07/19 15:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/07/19 15:34	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/07/19 15:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/07/19 15:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/07/19 15:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/07/19 15:34	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/07/19 15:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/19 15:34	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/07/19 15:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/07/19 15:34	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/07/19 15:34	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/07/19 15:34	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/07/19 15:34	1
Allyl chloride	ND		2.0	0.61	ug/L			04/07/19 15:34	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/07/19 15:34	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/07/19 15:34	1
2-Hexanone	ND		10	0.54	ug/L			04/07/19 15:34	1
Bromobenzene	ND		1.0	0.12	ug/L			04/07/19 15:34	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/07/19 15:34	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/07/19 15:34	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/07/19 15:34	1
Acetone	ND		10	5.4	ug/L			04/07/19 15:34	1
Benzene	ND		1.0	0.13	ug/L			04/07/19 15:34	1
Bromoform	ND		1.0	0.76	ug/L			04/07/19 15:34	1
Bromomethane	ND		1.0	0.42	ug/L			04/07/19 15:34	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/07/19 15:34	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/07/19 15:34	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/07/19 15:34	1
Chloroethane	ND		1.0	0.83	ug/L			04/07/19 15:34	1
Chloroform	ND		1.0	0.13	ug/L			04/07/19 15:34	1
Chloromethane	ND		1.0	0.20	ug/L			04/07/19 15:34	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/07/19 15:34	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/07/19 15:34	1
Cyclohexane	ND		1.0	0.24	ug/L			04/07/19 15:34	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/07/19 15:34	1
Dibromomethane	ND		1.0	0.090	ug/L			04/07/19 15:34	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/07/19 15:34	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/07/19 15:34	1
Dichlorofluoromethane	ND		1.0	0.28	ug/L			04/07/19 15:34	1
Ethyl ether	ND		1.0	0.19	ug/L			04/07/19 15:34	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/07/19 15:34	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/07/19 15:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-109987-2

Date Collected: 03/25/19 00:00
Date Received: 03/27/19 09:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/07/19 15:34	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/07/19 15:34	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/07/19 15:34	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/07/19 15:34	1
Methyl acetate	ND		10	1.7	ug/L			04/07/19 15:34	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/07/19 15:34	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/07/19 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			04/07/19 15:34	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/07/19 15:34	1
Methyl tert butyl ether	ND		2.0	0.070	ug/L			04/07/19 15:34	1
Methylene Chloride	ND		1.0	2.6	ug/L			04/07/19 15:34	1
o-Xylene	ND		1.0	0.090	ug/L			04/07/19 15:34	1
Styrene	ND		1.0	0.10	ug/L			04/07/19 15:34	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/07/19 15:34	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/07/19 15:34	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/07/19 15:34	1
Toluene	ND		1.0	0.14	ug/L			04/07/19 15:34	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/07/19 15:34	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/07/19 15:34	1
Trichloroethene	ND		1.0	0.10	ug/L			04/07/19 15:34	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/07/19 15:34	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/07/19 15:34	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/07/19 15:34	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/07/19 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 121*		*04/07/19 15:34*	*1*
4-Bromofluorobenzene (Surr)	*82*		*59 - 120*		*04/07/19 15:34*	*1*
Toluene-d8 (Surr)	*95*		*70 - 123*		*04/07/19 15:34*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 128*		*04/07/19 15:34*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	**Client Sample ID**	**(70-121)**	**(59-120)**	**(70-123)**	**(75-128)**
240-109987-1	AMW-27 (20190325)	109	84	95	107
240-109987-2	TRIP BLANK	105	82	95	104
LCS 240-375158/4	Lab Control Sample	108	91	98	102
MB 240-375158/6	Method Blank	106	81	93	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-375158/6
Matrix: Water
Analysis Batch: 375158

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/07/19 12:37	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/07/19 12:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/07/19 12:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/07/19 12:37	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/07/19 12:37	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/07/19 12:37	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/07/19 12:37	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/07/19 12:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/07/19 12:37	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/07/19 12:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/07/19 12:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/07/19 12:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/07/19 12:37	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/07/19 12:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/19 12:37	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/07/19 12:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/07/19 12:37	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/07/19 12:37	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/07/19 12:37	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/07/19 12:37	1
Allyl chloride	ND		2.0	0.61	ug/L			04/07/19 12:37	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/07/19 12:37	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/07/19 12:37	1
2-Hexanone	ND		10	0.54	ug/L			04/07/19 12:37	1
Bromobenzene	ND		1.0	0.12	ug/L			04/07/19 12:37	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/07/19 12:37	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/07/19 12:37	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/07/19 12:37	1
Acetone	ND		10	5.4	ug/L			04/07/19 12:37	1
Benzene	ND		1.0	0.13	ug/L			04/07/19 12:37	1
Bromoform	ND		1.0	0.76	ug/L			04/07/19 12:37	1
Bromomethane	ND		1.0	0.42	ug/L			04/07/19 12:37	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/07/19 12:37	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/07/19 12:37	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/07/19 12:37	1
Chloroethane	ND		1.0	0.83	ug/L			04/07/19 12:37	1
Chloroform	ND		1.0	0.13	ug/L			04/07/19 12:37	1
Chloromethane	ND		1.0	0.20	ug/L			04/07/19 12:37	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/07/19 12:37	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/07/19 12:37	1
Cyclohexane	ND		1.0	0.24	ug/L			04/07/19 12:37	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/07/19 12:37	1
Dibromomethane	ND		1.0	0.090	ug/L			04/07/19 12:37	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/07/19 12:37	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/07/19 12:37	1
Dichlorofluoromethane	ND		1.0	0.28	ug/L			04/07/19 12:37	1
Ethyl ether	ND		1.0	0.19	ug/L			04/07/19 12:37	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/07/19 12:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-375158/6
Matrix: Water
Analysis Batch: 375158

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/07/19 12:37	1
Naphthalene	ND		1.0	0.32	ug/L			04/07/19 12:37	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/07/19 12:37	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/07/19 12:37	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/07/19 12:37	1
Methyl acetate	ND		10	1.7	ug/L			04/07/19 12:37	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/07/19 12:37	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/07/19 12:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			04/07/19 12:37	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/07/19 12:37	1
Methyl tert butyl ether	ND		2.0	0.070	ug/L			04/07/19 12:37	1
Methylene Chloride	ND		1.0	2.6	ug/L			04/07/19 12:37	1
o-Xylene	ND		1.0	0.090	ug/L			04/07/19 12:37	1
Styrene	ND		1.0	0.10	ug/L			04/07/19 12:37	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/07/19 12:37	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/07/19 12:37	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/07/19 12:37	1
Toluene	ND		1.0	0.14	ug/L			04/07/19 12:37	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/07/19 12:37	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/07/19 12:37	1
Trichloroethene	ND		1.0	0.10	ug/L			04/07/19 12:37	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/07/19 12:37	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/07/19 12:37	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/07/19 12:37	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/07/19 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 121*		*04/07/19 12:37*	*1*
4-Bromofluorobenzene (Surr)	*81*		*59 - 120*		*04/07/19 12:37*	*1*
Toluene-d8 (Surr)	*93*		*70 - 123*		*04/07/19 12:37*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 128*		*04/07/19 12:37*	*1*

Lab Sample ID: LCS 240-375158/4
Matrix: Water
Analysis Batch: 375158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.44		ug/L		94	80 - 124
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	69 - 134
1,1,2,2-Tetrachloroethane	10.0	9.91		ug/L		99	65 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.44		ug/L		94	50 - 156
1,1,2-Trichloroethane	10.0	9.14		ug/L		91	78 - 133
1,1-Dichloroethane	10.0	9.33		ug/L		93	75 - 133
1,1-Dichloroethene	10.0	11.4		ug/L		114	65 - 139
1,1-Dichloropropene	10.0	10.6		ug/L		106	78 - 126
1,2,3-Trichlorobenzene	10.0	7.74		ug/L		77	39 - 138
1,2,3-Trichloropropane	10.0	9.84		ug/L		98	66 - 139
1,2,4-Trichlorobenzene	10.0	7.55		ug/L		75	42 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-375158/4
Matrix: Water
Analysis Batch: 375158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	10.0	10.2		ug/L		102	74 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.03		ug/L		90	46 - 132
1,2-Dichlorobenzene	10.0	9.87		ug/L		99	78 - 120
1,2-Dichloroethane	10.0	10.4		ug/L		104	71 - 135
1,2-Dichloropropane	10.0	9.12		ug/L		91	78 - 133
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	75 - 121
1,3-Dichlorobenzene	10.0	9.39		ug/L		94	78 - 120
1,3-Dichloropropane	10.0	9.71		ug/L		97	72 - 134
1,4-Dichlorobenzene	10.0	9.13		ug/L		91	78 - 120
Allyl chloride	10.0	8.90		ug/L		89	66 - 138
2,2-Dichloropropane	10.0	10.1		ug/L		101	42 - 150
2-Chlorotoluene	10.0	10.8		ug/L		108	78 - 123
2-Hexanone	20.0	18.8		ug/L		94	43 - 148
Bromobenzene	10.0	9.95		ug/L		99	74 - 129
Bromochloromethane	10.0	9.43		ug/L		94	74 - 130
4-Chlorotoluene	10.0	11.3		ug/L		113	77 - 125
p-Isopropyltoluene	10.0	9.37		ug/L		94	69 - 122
Acetone	20.0	19.1		ug/L		96	21 - 162
Benzene	10.0	9.28		ug/L		93	80 - 123
Bromoform	10.0	9.40		ug/L		94	49 - 141
Bromomethane	10.0	9.71		ug/L		97	41 - 175
Carbon disulfide	10.0	9.25		ug/L		92	60 - 138
Carbon tetrachloride	10.0	10.7		ug/L		107	63 - 140
Chlorobenzene	10.0	9.29		ug/L		93	80 - 121
Chloroethane	10.0	9.99		ug/L		100	33 - 173
Chloroform	10.0	10.5		ug/L		105	79 - 127
Chloromethane	10.0	8.98		ug/L		90	54 - 143
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	76 - 128
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	64 - 132
Cyclohexane	10.0	9.57		ug/L		96	58 - 145
Hexachlorobutadiene	10.0	7.78		ug/L		78	38 - 136
Dibromomethane	10.0	9.68		ug/L		97	74 - 124
Bromodichloromethane	10.0	10.1		ug/L		101	77 - 125
Dichlorodifluoromethane	10.0	8.47		ug/L		85	29 - 148
Dichlorofluoromethane	10.0	10.2		ug/L		102	48 - 168
Ethyl ether	10.0	10.2		ug/L		102	70 - 146
Ethylbenzene	10.0	8.97		ug/L		90	80 - 120
1,2-Dibromoethane	10.0	9.28		ug/L		93	77 - 123
Naphthalene	10.0	7.39		ug/L		74	28 - 141
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120
n-Butylbenzene	10.0	8.76		ug/L		88	57 - 126
Isopropylbenzene	10.0	9.27		ug/L		93	74 - 120
Methyl acetate	20.0	17.1		ug/L		85	52 - 145
N-Propylbenzene	10.0	10.9		ug/L		109	77 - 123
2-Butanone (MEK)	20.0	20.1		ug/L		100	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	20.1		ug/L		100	49 - 143
sec-Butylbenzene	10.0	9.98		ug/L		100	68 - 123
Methyl tert butyl ether	10.0	8.06		ug/L		81	51 - 133
Methylene Chloride	10.0	8.99		ug/L		90	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-375158/4
Matrix: Water
Analysis Batch: 375158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	10.0	9.14		ug/L		91	80 - 120
Styrene	10.0	8.98		ug/L		90	79 - 120
tert-Butylbenzene	10.0	10.3		ug/L		103	70 - 121
Tetrachloroethene	10.0	9.35		ug/L		94	74 - 130
Tetrahydrofuran	20.0	18.5		ug/L		93	44 - 145
Toluene	10.0	9.53		ug/L		95	78 - 129
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	78 - 133
trans-1,3-Dichloropropene	10.0	9.60		ug/L		96	55 - 128
Trichloroethene	10.0	10.2		ug/L		102	76 - 125
Trichlorofluoromethane	10.0	10.5		ug/L		105	51 - 164
Vinyl chloride	10.0	8.94		ug/L		89	58 - 143
Methylcyclohexane	10.0	9.16		ug/L		92	60 - 125
Chlorodibromomethane	10.0	9.90		ug/L		99	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 121*
4-Bromofluorobenzene (Surr)	*91*		*59 - 120*
Toluene-d8 (Surr)	*98*		*70 - 123*
Dibromofluoromethane (Surr)	*102*		*75 - 128*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-373682/1-A
Matrix: Water
Analysis Batch: 373933

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 373682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		03/28/19 14:00	03/29/19 14:23	1
Antimony	ND		20	7.5	ug/L		03/28/19 14:00	03/29/19 14:23	1
Arsenic	ND		10	4.1	ug/L		03/28/19 14:00	03/29/19 14:23	1
Barium	ND		200	1.3	ug/L		03/28/19 14:00	03/29/19 14:23	1
Beryllium	ND		5.0	0.60	ug/L		03/28/19 14:00	03/29/19 14:23	1
Cadmium	ND		5.0	0.20	ug/L		03/28/19 14:00	03/29/19 14:23	1
Boron	ND		100	23	ug/L		03/28/19 14:00	03/29/19 14:23	1
Calcium	ND		5000	310	ug/L		03/28/19 14:00	03/29/19 14:23	1
Chromium	ND		10	0.63	ug/L		03/28/19 14:00	03/29/19 14:23	1
Cobalt	ND		10	0.75	ug/L		03/28/19 14:00	03/29/19 14:23	1
Copper	ND		25	3.5	ug/L		03/28/19 14:00	03/29/19 14:23	1
Iron	ND		200	26	ug/L		03/28/19 14:00	03/29/19 14:23	1
Lead	ND		3.0	2.8	ug/L		03/28/19 14:00	03/29/19 14:23	1
Magnesium	ND		5000	780	ug/L		03/28/19 14:00	03/29/19 14:23	1
Manganese	ND		15	2.1	ug/L		03/28/19 14:00	03/29/19 14:23	1
Nickel	ND		40	2.2	ug/L		03/28/19 14:00	03/29/19 14:23	1
Potassium	ND		5000	560	ug/L		03/28/19 14:00	03/29/19 14:23	1
Silver	ND		10	0.62	ug/L		03/28/19 14:00	03/29/19 14:23	1
Sodium	ND		5000	560	ug/L		03/28/19 14:00	03/29/19 14:23	1
Vanadium	ND		50	5.6	ug/L		03/28/19 14:00	03/29/19 14:23	1
Zinc	ND		50	9.7	ug/L		03/28/19 14:00	03/29/19 14:23	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-373682/2-A
Matrix: Water
Analysis Batch: 373933

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 373682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	2020		ug/L		101	80 - 120
Antimony	500	508		ug/L		102	80 - 120
Arsenic	2000	2060		ug/L		103	80 - 120
Barium	2000	1900		ug/L		95	80 - 120
Beryllium	50.0	48.0		ug/L		96	80 - 120
Cadmium	50.0	51.1		ug/L		102	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Calcium	50000	48000		ug/L		96	80 - 120
Chromium	200	185		ug/L		93	80 - 120
Cobalt	500	497		ug/L		99	80 - 120
Copper	250	227		ug/L		91	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	500	488		ug/L		98	80 - 120
Magnesium	50000	51000		ug/L		102	80 - 120
Manganese	500	464		ug/L		93	80 - 120
Nickel	500	508		ug/L		102	80 - 120
Potassium	50000	50000		ug/L		100	80 - 120
Silver	50.0	45.7		ug/L		91	80 - 120
Sodium	50000	49700		ug/L		99	80 - 120
Vanadium	500	477		ug/L		95	80 - 120
Zinc	500	512		ug/L		102	80 - 120

Lab Sample ID: 240-109987-1 MS
Matrix: Water
Analysis Batch: 373933

Client Sample ID: AMW-27 (20190325)
Prep Type: Dissolved
Prep Batch: 373682

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		2000	2000		ug/L		100	75 - 125
Antimony	ND		500	514		ug/L		103	75 - 125
Arsenic	ND		2000	2080		ug/L		104	75 - 125
Barium	71	J	2000	1970		ug/L		95	75 - 125
Beryllium	ND		50.0	48.6		ug/L		97	75 - 125
Cadmium	ND		50.0	51.1		ug/L		102	75 - 125
Boron	66	J	1000	1090		ug/L		103	75 - 125
Calcium	72000		50000	113000		ug/L		84	75 - 125
Chromium	1.1	J	200	185		ug/L		92	75 - 125
Cobalt	3.7	J	500	504		ug/L		100	75 - 125
Copper	ND		250	228		ug/L		91	75 - 125
Iron	4900		1000	5470	4	ug/L		58	75 - 125
Lead	ND		500	478		ug/L		96	75 - 125
Magnesium	29000		50000	76500		ug/L		95	75 - 125
Manganese	570		500	994		ug/L		85	75 - 125
Nickel	38	J	500	546		ug/L		102	75 - 125
Potassium	5700		50000	55700		ug/L		100	75 - 125
Silver	0.62	J	50.0	46.1		ug/L		91	75 - 125
Sodium	37000		50000	84300		ug/L		94	75 - 125
Vanadium	ND		500	474		ug/L		95	75 - 125
Zinc	ND		500	520		ug/L		104	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 240-109987-1 MSD — **Client Sample ID: AMW-27 (20190325)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 373933 — **Prep Batch: 373682**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		2000	2010		ug/L		100	75 - 125	1	20
Antimony	ND		500	501		ug/L		100	75 - 125	3	20
Arsenic	ND		2000	2030		ug/L		102	75 - 125	2	20
Barium	71	J	2000	1930		ug/L		93	75 - 125	2	20
Beryllium	ND		50.0	48.0		ug/L		96	75 - 125	1	20
Cadmium	ND		50.0	49.6		ug/L		99	75 - 125	3	20
Boron	66	J	1000	1060		ug/L		100	75 - 125	3	20
Calcium	72000		50000	112000		ug/L		81	75 - 125	1	20
Chromium	1.1	J	200	180		ug/L		90	75 - 125	2	20
Cobalt	3.7	J	500	491		ug/L		97	75 - 125	3	20
Copper	ND		250	222		ug/L		89	75 - 125	3	20
Iron	4900		1000	5420	4	ug/L		54	75 - 125	1	20
Lead	ND		500	465		ug/L		93	75 - 125	3	20
Magnesium	29000		50000	75500		ug/L		93	75 - 125	1	20
Manganese	570		500	980		ug/L		82	75 - 125	1	20
Nickel	38	J	500	532		ug/L		99	75 - 125	3	20
Potassium	5700		50000	54800		ug/L		98	75 - 125	2	20
Silver	0.62	J	50.0	45.1		ug/L		89	75 - 125	2	20
Sodium	37000		50000	83200		ug/L		92	75 - 125	1	20
Vanadium	ND		500	461		ug/L		92	75 - 125	3	20
Zinc	ND		500	507		ug/L		101	75 - 125	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-373682/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 374036 — **Prep Batch: 373682**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		03/28/19 14:00	03/29/19 15:32	1

Lab Sample ID: LCS 240-373682/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 374036 — **Prep Batch: 373682**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	250	246		ug/L		98	80 - 120

Lab Sample ID: 240-109987-1 MS — **Client Sample ID: AMW-27 (20190325)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374036 — **Prep Batch: 373682**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		250	246		ug/L		99	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-109987-1 MSD — **Client Sample ID: AMW-27 (20190325)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374036 — **Prep Batch: 373682**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		250	246		ug/L		98	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-374304/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 07:54	1

Lab Sample ID: LCS 240-374304/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.73		ug/L		95	80 - 120

Lab Sample ID: 240-109791-X-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	0.986		ug/L		99	80 - 120

Lab Sample ID: 240-109791-X-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.943		ug/L		94	80 - 120	5	20

Method: 9016 - Cyanide, Free

Lab Sample ID: MB 460-599997/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 600127 — **Prep Batch: 599997**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/03/19 13:30	04/03/19 15:53	1

Lab Sample ID: LCS 460-599997/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 600127 — **Prep Batch: 599997**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Free	50.0	44.4		ug/L		89	78 - 110

Method: 9016 - Cyanide, Free (Continued)

Lab Sample ID: 240-109791-A-2-A MS
Matrix: Water
Analysis Batch: 600127

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 599997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free	ND	F1	50.0	39.8		ug/L		80	78 - 110		

Lab Sample ID: 240-109791-A-2-B MSD
Matrix: Water
Analysis Batch: 600127

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 599997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Free	ND	F1	50.0	38.5	F1	ug/L		77	78 - 110	3	20

Lab Sample ID: DLCK 460-600127/10
Matrix: Water
Analysis Batch: 600127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free			2.00	2.13	J	ug/L		106	50 - 150		

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

GC/MS VOA

Analysis Batch: 375158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Total/NA	Water	8260B	
240-109987-2	TRIP BLANK	Total/NA	Water	8260B	
MB 240-375158/6	Method Blank	Total/NA	Water	8260B	
LCS 240-375158/4	Lab Control Sample	Total/NA	Water	8260B	

Metals

Prep Batch: 373682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Dissolved	Water	3005A	
MB 240-373682/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-373682/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-373682/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-109987-1 MS	AMW-27 (20190325)	Dissolved	Water	3005A	
240-109987-1 MS	AMW-27 (20190325)	Dissolved	Water	3005A	
240-109987-1 MSD	AMW-27 (20190325)	Dissolved	Water	3005A	
240-109987-1 MSD	AMW-27 (20190325)	Dissolved	Water	3005A	

Analysis Batch: 373933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Dissolved	Water	6010D	373682
MB 240-373682/1-A	Method Blank	Total Recoverable	Water	6010D	373682
LCS 240-373682/2-A	Lab Control Sample	Total Recoverable	Water	6010D	373682
240-109987-1 MS	AMW-27 (20190325)	Dissolved	Water	6010D	373682
240-109987-1 MSD	AMW-27 (20190325)	Dissolved	Water	6010D	373682

Analysis Batch: 374036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Dissolved	Water	6020B	373682
MB 240-373682/1-A	Method Blank	Total Recoverable	Water	6020B	373682
LCS 240-373682/3-A	Lab Control Sample	Total Recoverable	Water	6020B	373682
240-109987-1 MS	AMW-27 (20190325)	Dissolved	Water	6020B	373682
240-109987-1 MSD	AMW-27 (20190325)	Dissolved	Water	6020B	373682

Prep Batch: 374304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Dissolved	Water	7470A	
MB 240-374304/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-374304/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-109791-X-2-B MS	Matrix Spike	Dissolved	Water	7470A	
240-109791-X-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 374451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Dissolved	Water	7470A	374304
MB 240-374304/1-A	Method Blank	Total/NA	Water	7470A	374304
LCS 240-374304/2-A	Lab Control Sample	Total/NA	Water	7470A	374304
240-109791-X-2-B MS	Matrix Spike	Dissolved	Water	7470A	374304
240-109791-X-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	374304

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

General Chemistry

Prep Batch: 599997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Total/NA	Water	9016	
MB 460-599997/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-599997/2-A	Lab Control Sample	Total/NA	Water	9016	
240-109791-A-2-A MS	Matrix Spike	Total/NA	Water	9016	
240-109791-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	9016	

Analysis Batch: 600127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-109987-1	AMW-27 (20190325)	Total/NA	Water	9016	599997
MB 460-599997/1-A	Method Blank	Total/NA	Water	9016	599997
DLCK 460-600127/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-599997/2-A	Lab Control Sample	Total/NA	Water	9016	599997
240-109791-A-2-A MS	Matrix Spike	Total/NA	Water	9016	599997
240-109791-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	9016	599997

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Client Sample ID: AMW-27 (20190325)

Lab Sample ID: 240-109987-1
Date Collected: 03/25/19 10:00
Matrix: Water
Date Received: 03/27/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375158	04/07/19 15:12	LEE	TAL CAN
Dissolved	Prep	3005A			373682	03/28/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	373933	03/29/19 14:31	WKD	TAL CAN
Dissolved	Prep	3005A			373682	03/28/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6020B		1	374036	03/29/19 15:37	DSH	TAL CAN
Dissolved	Prep	7470A			374304	04/02/19 12:00	MBB	TAL CAN
Dissolved	Analysis	7470A		1	374451	04/03/19 09:46	AJC	TAL CAN
Total/NA	Prep	9016			599997	04/03/19 13:30	KYN	TAL EDI
Total/NA	Analysis	9016		1	600127	04/03/19 15:53	EMS	TAL EDI

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-109987-2
Date Collected: 03/25/19 00:00
Matrix: Water
Date Received: 03/27/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375158	04/07/19 15:34	LEE	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-109987-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	04-30-19 *
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19 *
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW

2.6 | 2.4

North Canton, OH 44720-6900
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jim Ziska	Site Contact:	Date: 3/25/2019	COC No:
Arcadis U.S., Inc	Tel/Fax:	Lab Contact: DelMonico, Michael	Carrier:	___1___ of 1 COCs
123 N 3rd Street, Ste. 705	Analysis Turnaround Time			Sampler:
Minneapolis, MN 55401	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
612-339-9434	TAT if different from Below _____			Walk-in Client:
(xxx) xxx-xxxx FAX	☐ 2 weeks			Lab Sampling:
Project Name: Ford TCAP -E200572	☐ 1 week			
Site: Ford St. Paul	☐ 2 days			Job / SDG No.:
P O # MN000653.0007.00002	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs - 8260B	TAL metals - 6010B	Thallium - 6020B	Free Cyanide - 9016	8082A - 8270D	DRO	GRO	Sample Specific Notes:
AMW-27 (20190325)	3/25/19	1000	G	W	5	Y	N	X	X	X	X	X	X	X	
Trip Blank	—					—		X						X	

240-109987 Chain of Custody

TestAmerica Minneapolis SC
273

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammabl ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature] Arcadis (TAT Mgr)	Arcadis	3/25/19 1430	[signature]	TA	3-25-19 1215
[signature]	TA	3-26-19 170	[signature]	TA	3/27/19 930
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 109987
Canton Facility

Client Accidis Site Name _____ Cooler unpacked by: [illegible]
Cooler Received on 3/27/19 Opened on 3/27/19
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # NA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **-0.2** °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 2.4 °C
   IR GUN #36 (CF **+0.7**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC861525**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 831701 Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: [illegible]

Only Received 3 40mL HCL Voa vials, free cyanide bottle, and 500mL HNO3 Metals bottle, will log for what was received as per PM.

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
AMW-27 (20190325)	240-109987-D-1	Amber Plastic 250mL - NaOH	____	_____	_____
AMW-27 (20190325)	240-109987-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: DelMonico, Michael	Carrier Tracking No(s):	COC No: 240-101376.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: michael.delmonico@testamericainc.com	State of Origin: Minnesota	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 240-109987-1
Address: 777 New Durham Road, ,	Due Date Requested: 4/8/2019			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Ford TCAP - E200572	Project #: 24006638			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9016/9016_Prep (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AMW-27 (20190325) (240-109987-1)	3/25/19	10:00 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Charlie B	3-27-19 16:29	240	Received by: via Fedex	3/28/19 1000	TAEL
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 10 CS	Cooler Temperature(s) °C and Other Remarks: 2.2°C IR9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-109987-1

Login Number: 109987
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 03/28/19 11:39 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-110166-1
Client Project/Site: Ford TCAP - E200572

For:
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Attn: Kristoffer Hinskey

Authorized for release by:
4/12/2019 9:51:04 AM

Michael DelMonico, Project Manager I
(330)497-9396
michael.delmonico@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-110166-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-110166-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 9016 Free Cyanide analysis was performed at the Eurofins Testamerica, Edison Laboratory.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT
The samples were received on 3/29/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)
Samples AMW-28 (20190327) (240-110166-1) and TRIP BLANK (240-110166-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/10/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)
Sample AMW-28 (20190327) (240-110166-1) was analyzed for dissolved metals (ICP) in accordance with SW846 Method 6010D. The sample was prepared on 04/01/2019 and analyzed on 04/02/2019.

Iron, Manganese and Silver were detected in method blank MB 240-374070/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Job ID: 240-110166-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-28 (20190327) (240-110166-1). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)
Sample AMW-28 (20190327) (240-110166-1) was analyzed for dissolved metals (ICPMS) in accordance with SW-846 Method 6020B. The sample was prepared on 04/01/2019 and analyzed on 04/02/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)
Sample AMW-28 (20190327) (240-110166-1) was analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The sample was prepared on 04/02/2019 and analyzed on 04/03/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FREE CYANIDE
Sample AMW-28 (20190327) (240-110166-1) was analyzed for free cyanide in accordance with EPA SW-846 Method 9016. The sample was prepared and analyzed on 04/10/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010D	Metals (ICP)	SW846	TAL CAN
6020B	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9016	Cyanide, Free	SW846	TAL EDI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN
7470A	Preparation, Mercury	SW846	TAL CAN
9016	Cyanide, Preparation	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-110166-1	AMW-28 (20190327)	Water	03/27/19 14:40	03/29/19 09:30
240-110166-2	TRIP BLANK	Water	03/27/19 00:00	03/29/19 09:30

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Client Sample ID: AMW-28 (20190327) — Lab Sample ID: 240-110166-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.3		1.0	0.14	ug/L	1		8260B	Total/NA
Barium	44	J	200	1.3	ug/L	1		6010D	Dissolved
Cadmium	0.24	J	5.0	0.20	ug/L	1		6010D	Dissolved
Boron	78	J	100	23	ug/L	1		6010D	Dissolved
Calcium	61000		5000	310	ug/L	1		6010D	Dissolved
Copper	8.7	J	25	3.5	ug/L	1		6010D	Dissolved
Iron	4400	B	200	26	ug/L	1		6010D	Dissolved
Magnesium	22000		5000	780	ug/L	1		6010D	Dissolved
Manganese	210	B	15	2.1	ug/L	1		6010D	Dissolved
Nickel	3.2	J	40	2.2	ug/L	1		6010D	Dissolved
Potassium	2600	J	5000	560	ug/L	1		6010D	Dissolved
Sodium	4300	J	5000	560	ug/L	1		6010D	Dissolved
Zinc	31	J	50	9.7	ug/L	1		6010D	Dissolved

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-110166-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Client Sample ID: AMW-28 (20190327)

Lab Sample ID: 240-110166-1

Date Collected: 03/27/19 14:40
Matrix: Water
Date Received: 03/29/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 01:22	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 01:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 01:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 01:22	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 01:22	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 01:22	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 01:22	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 01:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 01:22	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 01:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/10/19 01:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 01:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/10/19 01:22	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 01:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 01:22	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 01:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 01:22	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 01:22	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 01:22	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 01:22	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 01:22	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 01:22	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 01:22	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 01:22	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 01:22	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 01:22	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 01:22	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/10/19 01:22	1
Acetone	ND		10	5.4	ug/L			04/10/19 01:22	1
Benzene	ND		1.0	0.13	ug/L			04/10/19 01:22	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 01:22	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 01:22	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/10/19 01:22	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 01:22	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 01:22	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 01:22	1
Chloroform	ND		1.0	0.13	ug/L			04/10/19 01:22	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 01:22	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/10/19 01:22	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 01:22	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 01:22	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 01:22	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 01:22	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 01:22	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 01:22	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/10/19 01:22	1
Ethyl ether	ND		2.0	0.19	ug/L			04/10/19 01:22	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 01:22	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 01:22	1

Client Sample ID: AMW-28 (20190327)

Lab Sample ID: 240-110166-1

Date Collected: 03/27/19 14:40

Matrix: Water

Date Received: 03/29/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 01:22	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 01:22	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 01:22	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 01:22	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 01:22	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 01:22	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 01:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/10/19 01:22	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 01:22	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/10/19 01:22	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/10/19 01:22	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 01:22	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 01:22	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 01:22	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/10/19 01:22	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 01:22	1
Toluene	**4.3**		1.0	0.14	ug/L			04/10/19 01:22	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 01:22	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 01:22	1
Trichloroethene	ND		1.0	0.10	ug/L			04/10/19 01:22	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 01:22	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 01:22	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 01:22	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 121*		*04/10/19 01:22*	*1*
4-Bromofluorobenzene (Surr)	*81*		*59 - 120*		*04/10/19 01:22*	*1*
Toluene-d8 (Surr)	*100*		*70 - 123*		*04/10/19 01:22*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 128*		*04/10/19 01:22*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		04/01/19 03:00	04/02/19 17:20	1
Antimony	ND		20	7.5	ug/L		04/01/19 03:00	04/02/19 17:20	1
Arsenic	ND		10	4.1	ug/L		04/01/19 03:00	04/02/19 17:20	1
Barium	**44**	**J**	200	1.3	ug/L		04/01/19 03:00	04/02/19 17:20	1
Beryllium	ND		5.0	0.60	ug/L		04/01/19 03:00	04/02/19 17:20	1
Cadmium	**0.24**	**J**	5.0	0.20	ug/L		04/01/19 03:00	04/02/19 17:20	1
Boron	**78**	**J**	100	23	ug/L		04/01/19 03:00	04/02/19 17:20	1
Calcium	**61000**		5000	310	ug/L		04/01/19 03:00	04/02/19 17:20	1
Chromium	ND		10	0.63	ug/L		04/01/19 03:00	04/02/19 17:20	1
Cobalt	ND		10	0.75	ug/L		04/01/19 03:00	04/02/19 17:20	1
Copper	**8.7**	**J**	25	3.5	ug/L		04/01/19 03:00	04/02/19 17:20	1
Iron	**4400**	**B**	200	26	ug/L		04/01/19 03:00	04/02/19 17:20	1
Lead	ND		3.0	2.8	ug/L		04/01/19 03:00	04/02/19 17:20	1
Magnesium	**22000**		5000	780	ug/L		04/01/19 03:00	04/02/19 17:20	1
Manganese	**210**	**B**	15	2.1	ug/L		04/01/19 03:00	04/02/19 17:20	1
Nickel	**3.2**	**J**	40	2.2	ug/L		04/01/19 03:00	04/02/19 17:20	1
Potassium	**2600**	**J**	5000	560	ug/L		04/01/19 03:00	04/02/19 17:20	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Client Sample ID: AMW-28 (20190327)

Lab Sample ID: 240-110166-1

Date Collected: 03/27/19 14:40
Matrix: Water
Date Received: 03/29/19 09:30

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		10	0.62	ug/L		04/01/19 03:00	04/02/19 17:20	1
Sodium	**4300**	**J**	5000	560	ug/L		04/01/19 03:00	04/02/19 17:20	1
Vanadium	ND		50	5.6	ug/L		04/01/19 03:00	04/02/19 17:20	1
Zinc	**31**	**J**	50	9.7	ug/L		04/01/19 03:00	04/02/19 17:20	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		04/01/19 03:00	04/02/19 23:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/10/19 15:29	04/10/19 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110166-2

Date Collected: 03/27/19 00:00
Matrix: Water
Date Received: 03/29/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 01:44	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 01:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 01:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 01:44	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 01:44	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 01:44	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 01:44	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 01:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 01:44	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 01:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/10/19 01:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 01:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/10/19 01:44	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 01:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 01:44	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 01:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 01:44	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 01:44	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 01:44	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 01:44	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 01:44	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 01:44	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 01:44	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 01:44	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 01:44	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 01:44	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 01:44	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/10/19 01:44	1
Acetone	ND		10	5.4	ug/L			04/10/19 01:44	1
Benzene	ND		1.0	0.13	ug/L			04/10/19 01:44	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 01:44	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 01:44	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/10/19 01:44	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 01:44	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 01:44	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 01:44	1
Chloroform	ND		1.0	0.13	ug/L			04/10/19 01:44	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 01:44	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/10/19 01:44	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 01:44	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 01:44	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 01:44	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 01:44	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 01:44	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 01:44	1
Dichlorofluoromethane	ND		1.0	0.28	ug/L			04/10/19 01:44	1
Ethyl ether	ND		1.0	0.19	ug/L			04/10/19 01:44	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 01:44	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 01:44	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110166-2

Date Collected: 03/27/19 00:00
Date Received: 03/29/19 09:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 01:44	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 01:44	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 01:44	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 01:44	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 01:44	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 01:44	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 01:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			04/10/19 01:44	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 01:44	1
Methyl tert butyl ether	ND		2.0	0.070	ug/L			04/10/19 01:44	1
Methylene Chloride	ND		1.0	2.6	ug/L			04/10/19 01:44	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 01:44	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 01:44	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 01:44	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/10/19 01:44	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 01:44	1
Toluene	ND		1.0	0.14	ug/L			04/10/19 01:44	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 01:44	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 01:44	1
Trichloroethene	ND		1.0	0.10	ug/L			04/10/19 01:44	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 01:44	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 01:44	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 01:44	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 121*		*04/10/19 01:44*	*1*
4-Bromofluorobenzene (Surr)	*77*		*59 - 120*		*04/10/19 01:44*	*1*
Toluene-d8 (Surr)	*92*		*70 - 123*		*04/10/19 01:44*	*1*
Dibromofluoromethane (Surr)	*87*		*75 - 128*		*04/10/19 01:44*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	**Client Sample ID**	**(70-121)**	**(59-120)**	**(70-123)**	**(75-128)**
240-110166-1	AMW-28 (20190327)	84	81	100	98
240-110166-2	TRIP BLANK	80	77	92	87
240-110175-B-2 MS	Matrix Spike	82	91	101	93
240-110175-B-2 MSD	Matrix Spike Duplicate	77	80	86	85
LCS 240-375581/4	Lab Control Sample	80	86	98	89
MB 240-375581/6	Method Blank	87	80	93	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-375581/6
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/09/19 21:19	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/09/19 21:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/09/19 21:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/09/19 21:19	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/09/19 21:19	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/09/19 21:19	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/09/19 21:19	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/09/19 21:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/09/19 21:19	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/09/19 21:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/09/19 21:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/09/19 21:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/09/19 21:19	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/09/19 21:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/09/19 21:19	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/09/19 21:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/09/19 21:19	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/09/19 21:19	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/09/19 21:19	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/09/19 21:19	1
Allyl chloride	ND		2.0	0.61	ug/L			04/09/19 21:19	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/09/19 21:19	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/09/19 21:19	1
2-Hexanone	ND		10	0.54	ug/L			04/09/19 21:19	1
Bromobenzene	ND		1.0	0.12	ug/L			04/09/19 21:19	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/09/19 21:19	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/09/19 21:19	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/09/19 21:19	1
Acetone	ND		10	5.4	ug/L			04/09/19 21:19	1
Benzene	ND		1.0	0.13	ug/L			04/09/19 21:19	1
Bromoform	ND		1.0	0.76	ug/L			04/09/19 21:19	1
Bromomethane	ND		1.0	0.42	ug/L			04/09/19 21:19	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/09/19 21:19	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/09/19 21:19	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/09/19 21:19	1
Chloroethane	ND		1.0	0.83	ug/L			04/09/19 21:19	1
Chloroform	ND		1.0	0.13	ug/L			04/09/19 21:19	1
Chloromethane	ND		1.0	0.20	ug/L			04/09/19 21:19	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/09/19 21:19	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/09/19 21:19	1
Cyclohexane	ND		1.0	0.24	ug/L			04/09/19 21:19	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/09/19 21:19	1
Dibromomethane	ND		1.0	0.090	ug/L			04/09/19 21:19	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/09/19 21:19	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/09/19 21:19	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/09/19 21:19	1
Ethyl ether	ND		2.0	0.19	ug/L			04/09/19 21:19	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/09/19 21:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-375581/6
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/09/19 21:19	1
Naphthalene	ND		1.0	0.32	ug/L			04/09/19 21:19	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/09/19 21:19	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/09/19 21:19	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/09/19 21:19	1
Methyl acetate	ND		10	1.7	ug/L			04/09/19 21:19	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/09/19 21:19	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/09/19 21:19	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/09/19 21:19	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/09/19 21:19	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/09/19 21:19	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/09/19 21:19	1
o-Xylene	ND		1.0	0.090	ug/L			04/09/19 21:19	1
Styrene	ND		1.0	0.10	ug/L			04/09/19 21:19	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/09/19 21:19	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/09/19 21:19	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/09/19 21:19	1
Toluene	ND		1.0	0.14	ug/L			04/09/19 21:19	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/09/19 21:19	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/09/19 21:19	1
Trichloroethene	ND		1.0	0.10	ug/L			04/09/19 21:19	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/09/19 21:19	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/09/19 21:19	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/09/19 21:19	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/09/19 21:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 121*		*04/09/19 21:19*	*1*
4-Bromofluorobenzene (Surr)	*80*		*59 - 120*		*04/09/19 21:19*	*1*
Toluene-d8 (Surr)	*93*		*70 - 123*		*04/09/19 21:19*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 128*		*04/09/19 21:19*	*1*

Lab Sample ID: LCS 240-375581/4
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	8.52		ug/L		85	80 - 124
1,1,1-Trichloroethane	10.0	8.10		ug/L		81	69 - 134
1,1,2,2-Tetrachloroethane	10.0	11.5		ug/L		115	65 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.15		ug/L		82	50 - 156
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	78 - 133
1,1-Dichloroethane	10.0	9.13		ug/L		91	75 - 133
1,1-Dichloroethene	10.0	9.34		ug/L		93	65 - 139
1,1-Dichloropropene	10.0	9.52		ug/L		95	78 - 126
1,2,3-Trichlorobenzene	10.0	6.70		ug/L		67	39 - 138
1,2,3-Trichloropropane	10.0	10.2		ug/L		102	66 - 139
1,2,4-Trichlorobenzene	10.0	6.03		ug/L		60	42 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-375581/4
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	10.0	9.25		ug/L		92	74 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.81		ug/L		88	46 - 132
1,2-Dichlorobenzene	10.0	9.00		ug/L		90	78 - 120
1,2-Dichloroethane	10.0	8.12		ug/L		81	71 - 135
1,2-Dichloropropane	10.0	11.3		ug/L		113	78 - 133
1,3,5-Trimethylbenzene	10.0	9.72		ug/L		97	75 - 121
1,3-Dichlorobenzene	10.0	9.08		ug/L		91	78 - 120
1,3-Dichloropropane	10.0	10.9		ug/L		109	72 - 134
1,4-Dichlorobenzene	10.0	8.91		ug/L		89	78 - 120
Allyl chloride	10.0	10.0		ug/L		100	66 - 138
2,2-Dichloropropane	10.0	7.91		ug/L		79	42 - 150
2-Chlorotoluene	10.0	10.3		ug/L		103	78 - 123
2-Hexanone	20.0	20.9		ug/L		104	43 - 148
Bromobenzene	10.0	9.68		ug/L		97	74 - 129
Bromochloromethane	10.0	8.73		ug/L		87	74 - 130
4-Chlorotoluene	10.0	10.6		ug/L		106	77 - 125
p-Isopropyltoluene	10.0	9.20		ug/L		92	69 - 122
Acetone	20.0	17.3		ug/L		87	21 - 162
Benzene	10.0	10.0		ug/L		100	80 - 123
Bromoform	10.0	8.55		ug/L		86	49 - 141
Bromomethane	10.0	8.93		ug/L		89	41 - 175
Carbon disulfide	10.0	9.28		ug/L		93	60 - 138
Carbon tetrachloride	10.0	8.26		ug/L		83	63 - 140
Chlorobenzene	10.0	9.59		ug/L		96	80 - 121
Chloroethane	10.0	10.1		ug/L		101	33 - 173
Chloroform	10.0	8.85		ug/L		88	79 - 127
Chloromethane	10.0	8.80		ug/L		88	54 - 143
cis-1,2-Dichloroethene	10.0	9.68		ug/L		97	76 - 128
cis-1,3-Dichloropropene	10.0	11.2		ug/L		112	64 - 132
Cyclohexane	10.0	9.48		ug/L		95	58 - 145
Hexachlorobutadiene	10.0	6.03		ug/L		60	38 - 136
Dibromomethane	10.0	9.56		ug/L		96	74 - 124
Bromodichloromethane	10.0	9.32		ug/L		93	77 - 125
Dichlorodifluoromethane	10.0	7.58		ug/L		76	29 - 148
Dichlorofluoromethane	10.0	9.15		ug/L		92	48 - 168
Ethyl ether	10.0	9.53		ug/L		95	70 - 146
Ethylbenzene	10.0	9.20		ug/L		92	80 - 120
1,2-Dibromoethane	10.0	9.71		ug/L		97	77 - 123
Naphthalene	10.0	6.19		ug/L		62	28 - 141
m-Xylene & p-Xylene	10.0	9.41		ug/L		94	80 - 120
n-Butylbenzene	10.0	7.85		ug/L		78	57 - 126
Isopropylbenzene	10.0	8.71		ug/L		87	74 - 120
Methyl acetate	20.0	18.7		ug/L		93	52 - 145
N-Propylbenzene	10.0	10.5		ug/L		105	77 - 123
2-Butanone (MEK)	20.0	23.8		ug/L		119	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	20.6		ug/L		103	49 - 143
sec-Butylbenzene	10.0	9.42		ug/L		94	68 - 123
Methyl tert butyl ether	10.0	7.64		ug/L		76	51 - 133
Methylene Chloride	10.0	9.31		ug/L		93	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-375581/4
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	10.0	8.92		ug/L		89	80 - 120
Styrene	10.0	8.96		ug/L		90	79 - 120
tert-Butylbenzene	10.0	9.63		ug/L		96	70 - 121
Tetrachloroethene	10.0	8.67		ug/L		87	74 - 130
Tetrahydrofuran	20.0	20.7		ug/L		104	44 - 145
Toluene	10.0	9.93		ug/L		99	78 - 129
trans-1,2-Dichloroethene	10.0	9.36		ug/L		94	78 - 133
trans-1,3-Dichloropropene	10.0	9.25		ug/L		92	55 - 128
Trichloroethene	10.0	8.94		ug/L		89	76 - 125
Trichlorofluoromethane	10.0	7.91		ug/L		79	51 - 164
Vinyl chloride	10.0	9.59		ug/L		96	58 - 143
Methylcyclohexane	10.0	8.88		ug/L		89	60 - 125
Chlorodibromomethane	10.0	9.45		ug/L		94	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 121*
4-Bromofluorobenzene (Surr)	*86*		*59 - 120*
Toluene-d8 (Surr)	*98*		*70 - 123*
Dibromofluoromethane (Surr)	*89*		*75 - 128*

Lab Sample ID: 240-110175-B-2 MS
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		100	75.1		ug/L		75	53 - 140
cis-1,2-Dichloroethene	320	F1	100	389		ug/L		70	64 - 130
Tetrachloroethene	ND		100	68.8		ug/L		69	51 - 136
trans-1,2-Dichloroethene	3.8	J	100	80.6		ug/L		77	68 - 133
Trichloroethene	ND		100	69.6		ug/L		70	55 - 131
Vinyl chloride	290		100	369		ug/L		80	43 - 154

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 121*
4-Bromofluorobenzene (Surr)	*91*		*59 - 120*
Toluene-d8 (Surr)	*101*		*70 - 123*
Dibromofluoromethane (Surr)	*93*		*75 - 128*

Lab Sample ID: 240-110175-B-2 MSD
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		100	84.0		ug/L		84	53 - 140	11	35
cis-1,2-Dichloroethene	320	F1	100	354	F1	ug/L		35	64 - 130	9	21
Tetrachloroethene	ND		100	77.7		ug/L		78	51 - 136	12	23
trans-1,2-Dichloroethene	3.8	J	100	83.8		ug/L		80	68 - 133	4	24
Trichloroethene	ND		100	78.9		ug/L		79	55 - 131	13	23

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-110175-B-2 MSD
Matrix: Water
Analysis Batch: 375581

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	290		100	340		ug/L		52	43 - 154	8	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 121*
4-Bromofluorobenzene (Surr)	*80*		*59 - 120*
Toluene-d8 (Surr)	*86*		*70 - 123*
Dibromofluoromethane (Surr)	*85*		*75 - 128*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-374070/1-A
Matrix: Water
Analysis Batch: 374290

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 374070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		04/01/19 03:00	04/02/19 16:26	1
Antimony	ND		20	7.5	ug/L		04/01/19 03:00	04/02/19 16:26	1
Arsenic	ND		10	4.1	ug/L		04/01/19 03:00	04/02/19 16:26	1
Barium	ND		200	1.3	ug/L		04/01/19 03:00	04/02/19 16:26	1
Beryllium	ND		5.0	0.60	ug/L		04/01/19 03:00	04/02/19 16:26	1
Cadmium	ND		5.0	0.20	ug/L		04/01/19 03:00	04/02/19 16:26	1
Boron	ND		100	23	ug/L		04/01/19 03:00	04/02/19 16:26	1
Calcium	ND		5000	310	ug/L		04/01/19 03:00	04/02/19 16:26	1
Chromium	ND		10	0.63	ug/L		04/01/19 03:00	04/02/19 16:26	1
Cobalt	ND		10	0.75	ug/L		04/01/19 03:00	04/02/19 16:26	1
Copper	ND		25	3.5	ug/L		04/01/19 03:00	04/02/19 16:26	1
Iron	114	J	200	26	ug/L		04/01/19 03:00	04/02/19 16:26	1
Lead	ND		3.0	2.8	ug/L		04/01/19 03:00	04/02/19 16:26	1
Magnesium	ND		5000	780	ug/L		04/01/19 03:00	04/02/19 16:26	1
Manganese	3.84	J	15	2.1	ug/L		04/01/19 03:00	04/02/19 16:26	1
Nickel	ND		40	2.2	ug/L		04/01/19 03:00	04/02/19 16:26	1
Potassium	ND		5000	560	ug/L		04/01/19 03:00	04/02/19 16:26	1
Silver	0.793	J	10	0.62	ug/L		04/01/19 03:00	04/02/19 16:26	1
Sodium	ND		5000	560	ug/L		04/01/19 03:00	04/02/19 16:26	1
Vanadium	ND		50	5.6	ug/L		04/01/19 03:00	04/02/19 16:26	1
Zinc	ND		50	9.7	ug/L		04/01/19 03:00	04/02/19 16:26	1

Lab Sample ID: LCS 240-374070/2-A
Matrix: Water
Analysis Batch: 374290

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 374070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1760		ug/L		88	80 - 120
Antimony	500	466		ug/L		93	80 - 120
Arsenic	2000	1860		ug/L		93	80 - 120
Barium	2000	1760		ug/L		88	80 - 120
Beryllium	50.0	43.5		ug/L		87	80 - 120
Cadmium	50.0	46.3		ug/L		93	80 - 120
Boron	1000	987		ug/L		99	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-374070/2-A
Matrix: Water
Analysis Batch: 374290

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 374070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	50000	44500		ug/L		89	80 - 120
Chromium	200	175		ug/L		88	80 - 120
Cobalt	500	451		ug/L		90	80 - 120
Copper	250	228		ug/L		91	80 - 120
Iron	1000	1030		ug/L		103	80 - 120
Lead	500	446		ug/L		89	80 - 120
Magnesium	50000	44900		ug/L		90	80 - 120
Manganese	500	447		ug/L		89	80 - 120
Nickel	500	456		ug/L		91	80 - 120
Potassium	50000	46000		ug/L		92	80 - 120
Silver	50.0	47.8		ug/L		96	80 - 120
Sodium	50000	45000		ug/L		90	80 - 120
Vanadium	500	441		ug/L		88	80 - 120
Zinc	500	465		ug/L		93	80 - 120

Lab Sample ID: 240-110155-H-1-B MS
Matrix: Water
Analysis Batch: 374290

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 374070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	240		2000	2170		ug/L		96	75 - 125
Antimony	ND		500	519		ug/L		104	75 - 125
Arsenic	ND		2000	2060		ug/L		103	75 - 125
Barium	30	J	2000	1960		ug/L		96	75 - 125
Beryllium	ND		50.0	48.3		ug/L		97	75 - 125
Cadmium	0.47	J	50.0	50.6		ug/L		100	75 - 125
Boron	250		1000	1340		ug/L		110	75 - 125
Calcium	130000		50000	173000		ug/L		86	75 - 125
Chromium	0.69	J	200	188		ug/L		94	75 - 125
Cobalt	5.5	J	500	500		ug/L		99	75 - 125
Copper	ND		250	253		ug/L		101	75 - 125
Iron	430	B	1000	1380		ug/L		95	75 - 125
Lead	ND		500	469		ug/L		94	75 - 125
Magnesium	41000		50000	88300		ug/L		95	75 - 125
Manganese	61	B	500	537		ug/L		95	75 - 125
Nickel	30	J	500	526		ug/L		99	75 - 125
Potassium	8100		50000	58600		ug/L		101	75 - 125
Silver	ND		50.0	52.0		ug/L		104	75 - 125
Sodium	110000		50000	159000		ug/L		93	75 - 125
Vanadium	ND		500	476		ug/L		95	75 - 125
Zinc	41	J	500	548		ug/L		101	75 - 125

Lab Sample ID: 240-110155-H-1-C MSD
Matrix: Water
Analysis Batch: 374290

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 374070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	240		2000	2150		ug/L		95	75 - 125	1	20
Antimony	ND		500	515		ug/L		103	75 - 125	1	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 240-110155-H-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374290 — **Prep Batch: 374070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		2000	2050		ug/L		103	75 - 125	0	20
Barium	30	J	2000	1930		ug/L		95	75 - 125	1	20
Beryllium	ND		50.0	47.8		ug/L		96	75 - 125	1	20
Cadmium	0.47	J	50.0	50.4		ug/L		100	75 - 125	0	20
Boron	250		1000	1320		ug/L		108	75 - 125	1	20
Calcium	130000		50000	171000		ug/L		81	75 - 125	1	20
Chromium	0.69	J	200	190		ug/L		95	75 - 125	1	20
Cobalt	5.5	J	500	498		ug/L		98	75 - 125	1	20
Copper	ND		250	252		ug/L		101	75 - 125	0	20
Iron	430	B	1000	1380		ug/L		95	75 - 125	0	20
Lead	ND		500	467		ug/L		93	75 - 125	0	20
Magnesium	41000		50000	87400		ug/L		93	75 - 125	1	20
Manganese	61	B	500	539		ug/L		96	75 - 125	0	20
Nickel	30	J	500	523		ug/L		99	75 - 125	1	20
Potassium	8100		50000	57900		ug/L		100	75 - 125	1	20
Silver	ND		50.0	52.1		ug/L		104	75 - 125	0	20
Sodium	110000		50000	157000		ug/L		89	75 - 125	1	20
Vanadium	ND		500	469		ug/L		94	75 - 125	1	20
Zinc	41	J	500	544		ug/L		101	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-374070/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 374452 — **Prep Batch: 374070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		04/01/19 03:00	04/02/19 23:27	1

Lab Sample ID: LCS 240-374070/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 374452 — **Prep Batch: 374070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	250	244		ug/L		98	80 - 120

Lab Sample ID: 240-110155-H-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374452 — **Prep Batch: 374070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1.7		250	262		ug/L		104	80 - 120

Lab Sample ID: 240-110155-H-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374452 — **Prep Batch: 374070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	1.7		250	258		ug/L		103	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-374304/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/02/19 12:00	04/03/19 07:54	1

Lab Sample ID: LCS 240-374304/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.73		ug/L		95	80 - 120

Lab Sample ID: 240-109791-X-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	0.986		ug/L		99	80 - 120

Lab Sample ID: 240-109791-X-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374451 — **Prep Batch: 374304**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.943		ug/L		94	80 - 120	5	20

Method: 9016 - Cyanide, Free

Lab Sample ID: MB 460-601555/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 601683 — **Prep Batch: 601555**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/10/19 15:29	04/10/19 16:30	1

Lab Sample ID: LCS 460-601555/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 601683 — **Prep Batch: 601555**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Free	50.0	43.9		ug/L		88	78 - 110

Lab Sample ID: 240-110155-G-4-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 601683 — **Prep Batch: 601555**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Free	ND		50.0	41.9		ug/L		84	78 - 110

Method: 9016 - Cyanide, Free (Continued)

Lab Sample ID: 240-110155-G-4-F MSD
Matrix: Water
Analysis Batch: 601683

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 601555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Free	ND		50.0	43.1		ug/L		86	78 - 110	3	20

Lab Sample ID: DLCK 460-601683/10
Matrix: Water
Analysis Batch: 601683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free			2.00	2.51	J	ug/L		126	50 - 150		

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

GC/MS VOA

Analysis Batch: 375581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Total/NA	Water	8260B	
240-110166-2	TRIP BLANK	Total/NA	Water	8260B	
MB 240-375581/6	Method Blank	Total/NA	Water	8260B	
LCS 240-375581/4	Lab Control Sample	Total/NA	Water	8260B	
240-110175-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-110175-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Metals

Prep Batch: 374070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Dissolved	Water	3005A	
MB 240-374070/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-374070/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-374070/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-110155-H-1-B MS	Matrix Spike	Dissolved	Water	3005A	
240-110155-H-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
240-110155-H-1-D MS	Matrix Spike	Dissolved	Water	3005A	
240-110155-H-1-E MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 374290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Dissolved	Water	6010D	374070
MB 240-374070/1-A	Method Blank	Total Recoverable	Water	6010D	374070
LCS 240-374070/2-A	Lab Control Sample	Total Recoverable	Water	6010D	374070
240-110155-H-1-B MS	Matrix Spike	Dissolved	Water	6010D	374070
240-110155-H-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010D	374070

Prep Batch: 374304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Dissolved	Water	7470A	
MB 240-374304/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-374304/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-109791-X-2-B MS	Matrix Spike	Dissolved	Water	7470A	
240-109791-X-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 374451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Dissolved	Water	7470A	374304
MB 240-374304/1-A	Method Blank	Total/NA	Water	7470A	374304
LCS 240-374304/2-A	Lab Control Sample	Total/NA	Water	7470A	374304
240-109791-X-2-B MS	Matrix Spike	Dissolved	Water	7470A	374304
240-109791-X-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	374304

Analysis Batch: 374452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Dissolved	Water	6020B	374070
MB 240-374070/1-A	Method Blank	Total Recoverable	Water	6020B	374070
LCS 240-374070/3-A	Lab Control Sample	Total Recoverable	Water	6020B	374070
240-110155-H-1-D MS	Matrix Spike	Dissolved	Water	6020B	374070
240-110155-H-1-E MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	374070

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

General Chemistry

Prep Batch: 601555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Total/NA	Water	9016	
MB 460-601555/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-601555/2-A	Lab Control Sample	Total/NA	Water	9016	
240-110155-G-4-E MS	Matrix Spike	Total/NA	Water	9016	
240-110155-G-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	9016	

Analysis Batch: 601683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110166-1	AMW-28 (20190327)	Total/NA	Water	9016	601555
MB 460-601555/1-A	Method Blank	Total/NA	Water	9016	601555
DLCK 460-601683/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-601555/2-A	Lab Control Sample	Total/NA	Water	9016	601555
240-110155-G-4-E MS	Matrix Spike	Total/NA	Water	9016	601555
240-110155-G-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	9016	601555

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Client Sample ID: AMW-28 (20190327)

Lab Sample ID: 240-110166-1
Date Collected: 03/27/19 14:40
Matrix: Water
Date Received: 03/29/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375581	04/10/19 01:22	LEE	TAL CAN

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			374070	04/01/19 03:00	SLD	TAL CAN
Dissolved	Prep	3005A			374070	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6010D		1	374290	04/02/19 17:20	WKD	TAL CAN
Dissolved	Prep	3005A			374070	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6020B		1	374452	04/02/19 23:54	DSH	TAL CAN
Dissolved	Prep	7470A			374304	04/02/19 12:00	MBB	TAL CAN
Dissolved	Analysis	7470A		1	374451	04/03/19 09:36	AJC	TAL CAN
Total/NA	Prep	9016			601555	04/10/19 15:29	KYN	TAL EDI
Total/NA	Analysis	9016		1	601683	04/10/19 16:30	EMS	TAL EDI

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110166-2
Date Collected: 03/27/19 00:00
Matrix: Water
Date Received: 03/29/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375581	04/10/19 01:44	LEE	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110166-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	04-30-19 *
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-20
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

2.4/2.2

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tim H. Mellor	Lab PM: DelMonico, Michael	Carrier Tracking No(s):	COC No: 240-58719-25094.1
Client Contact: Jim Ziska	Phone: 612-339-9434	E-Mail: michael.delmonico@testamericainc.com		Page: ~~Page 1 of 5~~ 1 of 1
Company: ARCADIS U.S., Inc.				Job #:
Address: 430 First Avenue, North Suite 720	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, M - Hexane, N - None, O - AsNaO2
City: Minneapolis	TAT Requested (days): STD			
State, Zip: MN, 55304				
Phone:	PO #: MN000653.0007.00002			
Email: James.Ziska@arcadis.com	WO #: Enovis/Cadena #: E200572			
Project Name: Ford TCAP - E200572	Project #: 24006638			
Site: Ford - TCAP	SSOW#:			Other:

240-110166 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260B, 465 VOCs	6010D - TAL Metals List - FF	6020B - Thallium - FF	9016 - Free Cyanide	8082A, 8270D	WI_DRO - WI DRO	WI_GRO - WI GRO	8260B - TB - 8260B, 465 VOCs	Total Number of C	Special Instructions/Note:
				Preservation Code:			A	D	D	B	N	A	A	A		
AMW-28 (20190327)	3/27/19	1440	G	Water	Y	N	X	X	X	X						
Trip Blank				Water	X	X	X						X			
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

TestAmerica Minneapolis SC
213

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, (IV), Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
(Tim Mellor)	3/27/19 @ 1600	Arcadis		3/28/19 10:55	TA
	3/28/19 1700			3-29-19 930	TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 110166
Canton Facility

Client Arcadis Site Name _____ Cooler unpacked by: Ryan Critchley

Cooler Received on 3-29-19 Opened on 3-29-19 930

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **-0.2** °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.2 °C
   IR GUN #36 (CF **+0.7**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC861525**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # B831701VB Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: JR

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: DelMonico, Michael	Carrier Tracking No(s):	COC No: 240-101503.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: michael.delmonico@testamericainc.com	State of Origin: Minnesota	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 240-110166-1
Address: 777 New Durham Road,	Due Date Requested: 4/10/2019			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Ford TCAP - E200572	Project #: 24006638			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9016/9016_Prep (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
AMW-28 (20190327) (240-110166-1)	3/27/19	14:40 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time:	Company	Received by: via FedEx	Date/Time: 3/30/19 1215	Company TAEI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: NO CS		Cooler Temperature(s) °C and Other Remarks: 5.1°C IR9		

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-110166-1

Login Number: 110166
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 04/02/19 02:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-110204-1
Client Project/Site: Ford TCAP - E200572

For:
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Attn: Kristoffer Hinskey

Authorized for release by:
4/12/2019 11:06:53 AM

Michael DelMonico, Project Manager I
(330)497-9396
michael.delmonico@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-110204-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-110204-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The 9016 Free Cyanide analysis was performed at the Eurofins TestAmerica, Edison laboratory.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 3/30/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-03B (240-110204-1), AMW-29 (240-110204-2), AMW-30 (240-110204-3), AMW-31 (240-110204-4) and TRIP BLANK (240-110204-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/10/2019.

1,2-Dibromo-3-Chloropropane failed the recovery criteria low for LCS 240-375747/4. Refer to the QC report for details.

Method(s) 8260B: The laboratory control sample and/or the laboratory control sample duplicate (LCS) for 375747 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. AMW-03B (240-110204-1), AMW-29 (240-110204-2), AMW-30 (240-110204-3), AMW-31 (240-110204-4), TRIP BLANK (240-110204-5) and (LCS 240-375747/4)

Job ID: 240-110204-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)
Samples AMW-03B (240-110204-1), AMW-29 (240-110204-2), AMW-30 (240-110204-3) and AMW-31 (240-110204-4) were analyzed for dissolved metals (ICP) in accordance with SW846 Method 6010D. The samples were prepared on 04/01/2019 and 04/03/2019 and analyzed on 04/02/2019 and 04/04/2019.

Aluminum failed the recovery criteria low for the MS and MSD of sample AMW-29 (240-110204-2) in batch 240-374434.

Refer to the QC report for details.

Manganese and Sodium were detected in method blank MB 240-374050/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Method(s) 200.7 Rev 4.4, 6010B, 6010D: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-03B (240-110204-1), AMW-29 (240-110204-2), AMW-30 (240-110204-3) and AMW-31 (240-110204-4)The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)
Samples AMW-03B (240-110204-1), AMW-29 (240-110204-2), AMW-30 (240-110204-3) and AMW-31 (240-110204-4) were analyzed for dissolved metals (ICPMS) in accordance with SW-846 Method 6020B. The samples were prepared on 04/01/2019 and analyzed on 04/02/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)
Samples AMW-03B (240-110204-1), AMW-29 (240-110204-2), AMW-30 (240-110204-3) and AMW-31 (240-110204-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 04/01/2019 and analyzed on 04/02/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FREE CYANIDE
Samples AMW-03B (240-110204-1), AMW-29 (240-110204-2), AMW-30 (240-110204-3) and AMW-31 (240-110204-4) were analyzed for free cyanide in accordance with EPA SW-846 Method 9016. The samples were prepared and analyzed on 04/10/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010D	Metals (ICP)	SW846	TAL CAN
6020B	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9016	Cyanide, Free	SW846	TAL EDI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN
7470A	Preparation, Mercury	SW846	TAL CAN
9016	Cyanide, Preparation	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-110204-1	AMW-03B (20190328)	Water	03/28/19 08:20	03/30/19 10:30
240-110204-2	AMW-29 (20190328)	Water	03/28/19 10:05	03/30/19 10:30
240-110204-3	AMW-30 (20190328)	Water	03/28/19 11:50	03/30/19 10:30
240-110204-4	AMW-31 (20190328)	Water	03/28/19 12:55	03/30/19 10:30
240-110204-5	TRIP BLANK	Water	03/28/19 00:00	03/30/19 10:30

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-03B (20190328) — Lab Sample ID: 240-110204-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	0.36	J	1.0	0.26	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.13	J	1.0	0.13	ug/L	1		8260B	Total/NA
Benzene	0.36	J	1.0	0.13	ug/L	1		8260B	Total/NA
Carbon disulfide	0.43	J	1.0	0.28	ug/L	1		8260B	Total/NA
Chloroform	0.44	J	1.0	0.13	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.19	J	1.0	0.14	ug/L	1		8260B	Total/NA
Toluene	11		1.0	0.14	ug/L	1		8260B	Total/NA
Barium	7.4	J	200	1.3	ug/L	1		6010D	Dissolved
Boron	41	J	100	23	ug/L	1		6010D	Dissolved
Calcium	12000		5000	310	ug/L	1		6010D	Dissolved
Iron	35	J	200	26	ug/L	1		6010D	Dissolved
Magnesium	2300	J	5000	780	ug/L	1		6010D	Dissolved
Manganese	2.1	J B	15	2.1	ug/L	1		6010D	Dissolved
Potassium	5000		5000	560	ug/L	1		6010D	Dissolved
Sodium	14000	B	5000	560	ug/L	1		6010D	Dissolved

Client Sample ID: AMW-29 (20190328) — Lab Sample ID: 240-110204-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	3.0		1.0	0.14	ug/L	1		8260B	Total/NA
Trichloroethene	6.7		1.0	0.10	ug/L	1		8260B	Total/NA
Aluminum	27000		200	47	ug/L	1		6010D	Dissolved
Barium	18	J	200	1.3	ug/L	1		6010D	Dissolved
Beryllium	2.7	J	5.0	0.60	ug/L	1		6010D	Dissolved
Cadmium	0.41	J	5.0	0.20	ug/L	1		6010D	Dissolved
Boron	180		100	23	ug/L	1		6010D	Dissolved
Calcium	32000		5000	310	ug/L	1		6010D	Dissolved
Chromium	5.4	J	10	0.63	ug/L	1		6010D	Dissolved
Cobalt	72		10	0.75	ug/L	1		6010D	Dissolved
Copper	78		25	3.5	ug/L	1		6010D	Dissolved
Iron	590		200	26	ug/L	1		6010D	Dissolved
Magnesium	26000		5000	780	ug/L	1		6010D	Dissolved
Manganese	400	B	15	2.1	ug/L	1		6010D	Dissolved
Nickel	170		40	2.2	ug/L	1		6010D	Dissolved
Potassium	4400	J	5000	560	ug/L	1		6010D	Dissolved
Sodium	28000	B	5000	560	ug/L	1		6010D	Dissolved
Zinc	140		50	9.7	ug/L	1		6010D	Dissolved
Thallium	1.6		1.0	0.20	ug/L	1		6020B	Dissolved

Client Sample ID: AMW-30 (20190328) — Lab Sample ID: 240-110204-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.23	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.24	J	1.0	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.57	J	1.0	0.15	ug/L	1		8260B	Total/NA
Toluene	1.6		1.0	0.14	ug/L	1		8260B	Total/NA
Trichloroethene	34		1.0	0.10	ug/L	1		8260B	Total/NA
Aluminum	45000		200	47	ug/L	1		6010D	Dissolved
Barium	10	J	200	1.3	ug/L	1		6010D	Dissolved
Beryllium	3.6	J	5.0	0.60	ug/L	1		6010D	Dissolved
Cadmium	0.34	J	5.0	0.20	ug/L	1		6010D	Dissolved
Boron	400		100	23	ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-30 (20190328) (Continued) — Lab Sample ID: 240-110204-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	75000		5000	310	ug/L	1		6010D	Dissolved
Chromium	11		10	0.63	ug/L	1		6010D	Dissolved
Cobalt	49		10	0.75	ug/L	1		6010D	Dissolved
Copper	130		25	3.5	ug/L	1		6010D	Dissolved
Iron	430		200	26	ug/L	1		6010D	Dissolved
Magnesium	36000		5000	780	ug/L	1		6010D	Dissolved
Manganese	530	B	15	2.1	ug/L	1		6010D	Dissolved
Nickel	310		40	2.2	ug/L	1		6010D	Dissolved
Potassium	15000		5000	560	ug/L	1		6010D	Dissolved
Silver	0.78	J	10	0.62	ug/L	1		6010D	Dissolved
Sodium	15000	B	5000	560	ug/L	1		6010D	Dissolved
Zinc	94		50	9.7	ug/L	1		6010D	Dissolved
Thallium	7.1		1.0	0.20	ug/L	1		6020B	Dissolved

Client Sample ID: AMW-31 (20190328) — Lab Sample ID: 240-110204-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.7		1.0	0.14	ug/L	1		8260B	Total/NA
Trichloroethene	1.5		1.0	0.10	ug/L	1		8260B	Total/NA
Barium	120	J	200	1.3	ug/L	1		6010D	Dissolved
Boron	27	J	100	23	ug/L	1		6010D	Dissolved
Calcium	96000		5000	310	ug/L	1		6010D	Dissolved
Chromium	0.71	J	10	0.63	ug/L	1		6010D	Dissolved
Cobalt	0.95	J	10	0.75	ug/L	1		6010D	Dissolved
Iron	2200		200	26	ug/L	1		6010D	Dissolved
Magnesium	27000		5000	780	ug/L	1		6010D	Dissolved
Manganese	870	B	15	2.1	ug/L	1		6010D	Dissolved
Potassium	3300	J	5000	560	ug/L	1		6010D	Dissolved
Silver	1.2	J	10	0.62	ug/L	1		6010D	Dissolved
Sodium	240000	B	5000	560	ug/L	1		6010D	Dissolved

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-110204-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-03B (20190328)

Date Collected: 03/28/19 08:20
Date Received: 03/30/19 10:30

Lab Sample ID: 240-110204-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 15:26	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 15:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 15:26	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 15:26	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 15:26	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 15:26	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 15:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 15:26	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 15:26	1
1,2,4-Trichlorobenzene	**0.36**	**J**	1.0	0.26	ug/L			04/10/19 15:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 15:26	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0	0.91	ug/L			04/10/19 15:26	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 15:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 15:26	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 15:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 15:26	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 15:26	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 15:26	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 15:26	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 15:26	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 15:26	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 15:26	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 15:26	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 15:26	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 15:26	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 15:26	1
p-Isopropyltoluene	**0.13**	**J**	1.0	0.13	ug/L			04/10/19 15:26	1
Acetone	ND		10	5.4	ug/L			04/10/19 15:26	1
Benzene	**0.36**	**J**	1.0	0.13	ug/L			04/10/19 15:26	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 15:26	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 15:26	1
Carbon disulfide	**0.43**	**J**	1.0	0.28	ug/L			04/10/19 15:26	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 15:26	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 15:26	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 15:26	1
Chloroform	**0.44**	**J**	1.0	0.13	ug/L			04/10/19 15:26	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 15:26	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/10/19 15:26	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 15:26	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 15:26	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 15:26	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 15:26	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 15:26	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 15:26	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/10/19 15:26	1
Ethyl ether	ND		2.0	0.19	ug/L			04/10/19 15:26	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 15:26	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 15:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-03B (20190328)

Date Collected: 03/28/19 08:20
Date Received: 03/30/19 10:30

Lab Sample ID: 240-110204-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 15:26	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 15:26	1
n-Butylbenzene	**0.19**	**J**	1.0	0.14	ug/L			04/10/19 15:26	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 15:26	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 15:26	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 15:26	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/10/19 15:26	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 15:26	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/10/19 15:26	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/10/19 15:26	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 15:26	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 15:26	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 15:26	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/10/19 15:26	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 15:26	1
Toluene	**11**		1.0	0.14	ug/L			04/10/19 15:26	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 15:26	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 15:26	1
Trichloroethene	ND		1.0	0.10	ug/L			04/10/19 15:26	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 15:26	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 15:26	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 15:26	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 121*		*04/10/19 15:26*	*1*
4-Bromofluorobenzene (Surr)	*73*		*59 - 120*		*04/10/19 15:26*	*1*
Toluene-d8 (Surr)	*86*		*70 - 123*		*04/10/19 15:26*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 128*		*04/10/19 15:26*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		04/01/19 03:00	04/02/19 15:26	1
Antimony	ND		20	7.5	ug/L		04/01/19 03:00	04/02/19 15:26	1
Arsenic	ND		10	4.1	ug/L		04/01/19 03:00	04/02/19 15:26	1
Barium	**7.4**	**J**	200	1.3	ug/L		04/01/19 03:00	04/02/19 15:26	1
Beryllium	ND		5.0	0.60	ug/L		04/01/19 03:00	04/02/19 15:26	1
Cadmium	ND		5.0	0.20	ug/L		04/01/19 03:00	04/02/19 15:26	1
Boron	**41**	**J**	100	23	ug/L		04/01/19 03:00	04/02/19 15:26	1
Calcium	**12000**		5000	310	ug/L		04/01/19 03:00	04/02/19 15:26	1
Chromium	ND		10	0.63	ug/L		04/01/19 03:00	04/02/19 15:26	1
Cobalt	ND		10	0.75	ug/L		04/01/19 03:00	04/02/19 15:26	1
Copper	ND		25	3.5	ug/L		04/01/19 03:00	04/02/19 15:26	1
Iron	**35**	**J**	200	26	ug/L		04/03/19 14:00	04/04/19 15:17	1
Lead	ND		3.0	2.8	ug/L		04/01/19 03:00	04/02/19 15:26	1
Magnesium	**2300**	**J**	5000	780	ug/L		04/01/19 03:00	04/02/19 15:26	1
Manganese	**2.1**	**J B**	15	2.1	ug/L		04/01/19 03:00	04/02/19 15:26	1
Nickel	ND		40	2.2	ug/L		04/01/19 03:00	04/02/19 15:26	1
Potassium	**5000**		5000	560	ug/L		04/01/19 03:00	04/02/19 15:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-03B (20190328)

Lab Sample ID: 240-110204-1

Date Collected: 03/28/19 08:20
Matrix: Water
Date Received: 03/30/19 10:30

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		10	0.62	ug/L		04/01/19 03:00	04/02/19 15:26	1
Sodium	**14000**	**B**	5000	560	ug/L		04/01/19 03:00	04/02/19 15:26	1
Vanadium	ND		50	5.6	ug/L		04/01/19 03:00	04/02/19 15:26	1
Zinc	ND		50	9.7	ug/L		04/01/19 03:00	04/02/19 15:26	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		04/01/19 03:00	04/02/19 11:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/01/19 03:00	04/02/19 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/10/19 15:29	04/10/19 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-29 (20190328)

Date Collected: 03/28/19 10:05
Date Received: 03/30/19 10:30

Lab Sample ID: 240-110204-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 15:48	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 15:48	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 15:48	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 15:48	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 15:48	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 15:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 15:48	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 15:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/10/19 15:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 15:48	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0	0.91	ug/L			04/10/19 15:48	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 15:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 15:48	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 15:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 15:48	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 15:48	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 15:48	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 15:48	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 15:48	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 15:48	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 15:48	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 15:48	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 15:48	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 15:48	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 15:48	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/10/19 15:48	1
Acetone	ND		10	5.4	ug/L			04/10/19 15:48	1
Benzene	ND		1.0	0.13	ug/L			04/10/19 15:48	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 15:48	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 15:48	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/10/19 15:48	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 15:48	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 15:48	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 15:48	1
Chloroform	ND		1.0	0.13	ug/L			04/10/19 15:48	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 15:48	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/10/19 15:48	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 15:48	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 15:48	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 15:48	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 15:48	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 15:48	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 15:48	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/10/19 15:48	1
Ethyl ether	ND		2.0	0.19	ug/L			04/10/19 15:48	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 15:48	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 15:48	1

Client Sample ID: AMW-29 (20190328)

Lab Sample ID: 240-110204-2

Date Collected: 03/28/19 10:05

Matrix: Water

Date Received: 03/30/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 15:48	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 15:48	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 15:48	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 15:48	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 15:48	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 15:48	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/10/19 15:48	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 15:48	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/10/19 15:48	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/10/19 15:48	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 15:48	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 15:48	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 15:48	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/10/19 15:48	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 15:48	1
Toluene	**3.0**		1.0	0.14	ug/L			04/10/19 15:48	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 15:48	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 15:48	1
Trichloroethene	**6.7**		1.0	0.10	ug/L			04/10/19 15:48	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 15:48	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 15:48	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 15:48	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 121*		*04/10/19 15:48*	*1*
4-Bromofluorobenzene (Surr)	*70*		*59 - 120*		*04/10/19 15:48*	*1*
Toluene-d8 (Surr)	*82*		*70 - 123*		*04/10/19 15:48*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 128*		*04/10/19 15:48*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**27000**		200	47	ug/L		04/01/19 03:00	04/02/19 15:05	1
Antimony	ND		20	7.5	ug/L		04/01/19 03:00	04/02/19 15:05	1
Arsenic	ND		10	4.1	ug/L		04/01/19 03:00	04/02/19 15:05	1
Barium	**18**	**J**	200	1.3	ug/L		04/01/19 03:00	04/02/19 15:05	1
Beryllium	**2.7**	**J**	5.0	0.60	ug/L		04/01/19 03:00	04/02/19 15:05	1
Cadmium	**0.41**	**J**	5.0	0.20	ug/L		04/01/19 03:00	04/02/19 15:05	1
Boron	**180**		100	23	ug/L		04/01/19 03:00	04/02/19 15:05	1
Calcium	**32000**		5000	310	ug/L		04/01/19 03:00	04/02/19 15:05	1
Chromium	**5.4**	**J**	10	0.63	ug/L		04/01/19 03:00	04/02/19 15:05	1
Cobalt	**72**		10	0.75	ug/L		04/01/19 03:00	04/02/19 15:05	1
Copper	**78**		25	3.5	ug/L		04/01/19 03:00	04/02/19 15:05	1
Iron	**590**		200	26	ug/L		04/03/19 14:00	04/04/19 15:21	1
Lead	ND		3.0	2.8	ug/L		04/01/19 03:00	04/02/19 15:05	1
Magnesium	**26000**		5000	780	ug/L		04/01/19 03:00	04/02/19 15:05	1
Manganese	**400**	**B**	15	2.1	ug/L		04/01/19 03:00	04/02/19 15:05	1
Nickel	**170**		40	2.2	ug/L		04/01/19 03:00	04/02/19 15:05	1
Potassium	**4400**	**J**	5000	560	ug/L		04/01/19 03:00	04/02/19 15:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-29 (20190328)

Lab Sample ID: 240-110204-2

Date Collected: 03/28/19 10:05
Matrix: Water
Date Received: 03/30/19 10:30

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		10	0.62	ug/L		04/01/19 03:00	04/02/19 15:05	1
Sodium	**28000**	**B**	5000	560	ug/L		04/01/19 03:00	04/02/19 15:05	1
Vanadium	ND		50	5.6	ug/L		04/01/19 03:00	04/02/19 15:05	1
Zinc	**140**		50	9.7	ug/L		04/01/19 03:00	04/02/19 15:05	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**1.6**		1.0	0.20	ug/L		04/01/19 03:00	04/02/19 11:08	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/01/19 03:00	04/02/19 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/10/19 15:29	04/10/19 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-30 (20190328)

Lab Sample ID: 240-110204-3

Date Collected: 03/28/19 11:50
Date Received: 03/30/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 16:09	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 16:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 16:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 16:09	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 16:09	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 16:09	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 16:09	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 16:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 16:09	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 16:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/10/19 16:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 16:09	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0	0.91	ug/L			04/10/19 16:09	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 16:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 16:09	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 16:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 16:09	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 16:09	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 16:09	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 16:09	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 16:09	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 16:09	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 16:09	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 16:09	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 16:09	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 16:09	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 16:09	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/10/19 16:09	1
Acetone	ND		10	5.4	ug/L			04/10/19 16:09	1
Benzene	ND		1.0	0.13	ug/L			04/10/19 16:09	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 16:09	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 16:09	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/10/19 16:09	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 16:09	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 16:09	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 16:09	1
Chloroform	**0.23**	**J**	1.0	0.13	ug/L			04/10/19 16:09	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 16:09	1
cis-1,2-Dichloroethene	**0.24**	**J**	1.0	0.16	ug/L			04/10/19 16:09	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 16:09	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 16:09	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 16:09	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 16:09	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 16:09	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 16:09	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/10/19 16:09	1
Ethyl ether	ND		2.0	0.19	ug/L			04/10/19 16:09	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 16:09	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 16:09	1

Client Sample ID: AMW-30 (20190328)

Lab Sample ID: 240-110204-3

Date Collected: 03/28/19 11:50

Matrix: Water

Date Received: 03/30/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 16:09	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 16:09	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 16:09	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 16:09	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 16:09	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 16:09	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 16:09	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/10/19 16:09	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 16:09	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/10/19 16:09	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/10/19 16:09	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 16:09	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 16:09	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 16:09	1
Tetrachloroethene	**0.57**	**J**	1.0	0.15	ug/L			04/10/19 16:09	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 16:09	1
Toluene	**1.6**		1.0	0.14	ug/L			04/10/19 16:09	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 16:09	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 16:09	1
Trichloroethene	**34**		1.0	0.10	ug/L			04/10/19 16:09	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 16:09	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 16:09	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 16:09	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 121*		*04/10/19 16:09*	*1*
4-Bromofluorobenzene (Surr)	*66*		*59 - 120*		*04/10/19 16:09*	*1*
Toluene-d8 (Surr)	*81*		*70 - 123*		*04/10/19 16:09*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 128*		*04/10/19 16:09*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**45000**		200	47	ug/L		04/01/19 03:00	04/02/19 15:30	1
Antimony	ND		20	7.5	ug/L		04/01/19 03:00	04/02/19 15:30	1
Arsenic	ND		10	4.1	ug/L		04/01/19 03:00	04/02/19 15:30	1
Barium	**10**	**J**	200	1.3	ug/L		04/01/19 03:00	04/02/19 15:30	1
Beryllium	**3.6**	**J**	5.0	0.60	ug/L		04/01/19 03:00	04/02/19 15:30	1
Cadmium	**0.34**	**J**	5.0	0.20	ug/L		04/01/19 03:00	04/02/19 15:30	1
Boron	**400**		100	23	ug/L		04/01/19 03:00	04/02/19 15:30	1
Calcium	**75000**		5000	310	ug/L		04/01/19 03:00	04/02/19 15:30	1
Chromium	**11**		10	0.63	ug/L		04/01/19 03:00	04/02/19 15:30	1
Cobalt	**49**		10	0.75	ug/L		04/01/19 03:00	04/02/19 15:30	1
Copper	**130**		25	3.5	ug/L		04/01/19 03:00	04/02/19 15:30	1
Iron	**430**		200	26	ug/L		04/03/19 14:00	04/04/19 15:26	1
Lead	ND		3.0	2.8	ug/L		04/01/19 03:00	04/02/19 15:30	1
Magnesium	**36000**		5000	780	ug/L		04/01/19 03:00	04/02/19 15:30	1
Manganese	**530**	**B**	15	2.1	ug/L		04/01/19 03:00	04/02/19 15:30	1
Nickel	**310**		40	2.2	ug/L		04/01/19 03:00	04/02/19 15:30	1
Potassium	**15000**		5000	560	ug/L		04/01/19 03:00	04/02/19 15:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-30 (20190328)

Lab Sample ID: 240-110204-3

Date Collected: 03/28/19 11:50
Matrix: Water
Date Received: 03/30/19 10:30

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.78**	**J**	10	0.62	ug/L		04/01/19 03:00	04/02/19 15:30	1
Sodium	**15000**	**B**	5000	560	ug/L		04/01/19 03:00	04/02/19 15:30	1
Vanadium	ND		50	5.6	ug/L		04/01/19 03:00	04/02/19 15:30	1
Zinc	**94**		50	9.7	ug/L		04/01/19 03:00	04/02/19 15:30	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**7.1**		1.0	0.20	ug/L		04/01/19 03:00	04/02/19 11:21	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/01/19 03:00	04/02/19 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/10/19 15:29	04/10/19 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-31 (20190328)

Lab Sample ID: 240-110204-4

Date Collected: 03/28/19 12:55
Matrix: Water
Date Received: 03/30/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 16:31	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 16:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 16:31	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 16:31	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 16:31	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 16:31	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 16:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 16:31	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 16:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/10/19 16:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 16:31	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0	0.91	ug/L			04/10/19 16:31	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 16:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 16:31	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 16:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 16:31	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 16:31	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 16:31	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 16:31	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 16:31	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 16:31	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 16:31	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 16:31	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 16:31	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 16:31	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 16:31	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/10/19 16:31	1
Acetone	ND		10	5.4	ug/L			04/10/19 16:31	1
Benzene	ND		1.0	0.13	ug/L			04/10/19 16:31	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 16:31	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 16:31	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/10/19 16:31	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 16:31	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 16:31	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 16:31	1
Chloroform	ND		1.0	0.13	ug/L			04/10/19 16:31	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 16:31	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/10/19 16:31	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 16:31	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 16:31	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 16:31	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 16:31	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 16:31	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 16:31	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/10/19 16:31	1
Ethyl ether	ND		2.0	0.19	ug/L			04/10/19 16:31	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 16:31	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 16:31	1

Client Sample ID: AMW-31 (20190328)

Lab Sample ID: 240-110204-4

Date Collected: 03/28/19 12:55

Matrix: Water

Date Received: 03/30/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 16:31	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 16:31	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 16:31	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 16:31	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 16:31	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 16:31	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/10/19 16:31	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 16:31	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/10/19 16:31	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/10/19 16:31	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 16:31	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 16:31	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 16:31	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/10/19 16:31	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 16:31	1
Toluene	**1.7**		1.0	0.14	ug/L			04/10/19 16:31	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 16:31	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 16:31	1
Trichloroethene	**1.5**		1.0	0.10	ug/L			04/10/19 16:31	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 16:31	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 16:31	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 16:31	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 121*		*04/10/19 16:31*	*1*
4-Bromofluorobenzene (Surr)	*66*		*59 - 120*		*04/10/19 16:31*	*1*
Toluene-d8 (Surr)	*79*		*70 - 123*		*04/10/19 16:31*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 128*		*04/10/19 16:31*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		04/01/19 03:00	04/02/19 15:34	1
Antimony	ND		20	7.5	ug/L		04/01/19 03:00	04/02/19 15:34	1
Arsenic	ND		10	4.1	ug/L		04/01/19 03:00	04/02/19 15:34	1
Barium	**120**	**J**	200	1.3	ug/L		04/01/19 03:00	04/02/19 15:34	1
Beryllium	ND		5.0	0.60	ug/L		04/01/19 03:00	04/02/19 15:34	1
Cadmium	ND		5.0	0.20	ug/L		04/01/19 03:00	04/02/19 15:34	1
Boron	**27**	**J**	100	23	ug/L		04/01/19 03:00	04/02/19 15:34	1
Calcium	**96000**		5000	310	ug/L		04/01/19 03:00	04/02/19 15:34	1
Chromium	**0.71**	**J**	10	0.63	ug/L		04/01/19 03:00	04/02/19 15:34	1
Cobalt	**0.95**	**J**	10	0.75	ug/L		04/01/19 03:00	04/02/19 15:34	1
Copper	ND		25	3.5	ug/L		04/01/19 03:00	04/02/19 15:34	1
Iron	**2200**		200	26	ug/L		04/03/19 14:00	04/04/19 14:45	1
Lead	ND		3.0	2.8	ug/L		04/01/19 03:00	04/02/19 15:34	1
Magnesium	**27000**		5000	780	ug/L		04/01/19 03:00	04/02/19 15:34	1
Manganese	**870**	**B**	15	2.1	ug/L		04/01/19 03:00	04/02/19 15:34	1
Nickel	ND		40	2.2	ug/L		04/01/19 03:00	04/02/19 15:34	1
Potassium	**3300**	**J**	5000	560	ug/L		04/01/19 03:00	04/02/19 15:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-31 (20190328)

Lab Sample ID: 240-110204-4

Date Collected: 03/28/19 12:55
Date Received: 03/30/19 10:30

Matrix: Water

Method: 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**1.2**	**J**	10	0.62	ug/L		04/01/19 03:00	04/02/19 15:34	1
Sodium	**240000**	**B**	5000	560	ug/L		04/01/19 03:00	04/02/19 15:34	1
Vanadium	ND		50	5.6	ug/L		04/01/19 03:00	04/02/19 15:34	1
Zinc	ND		50	9.7	ug/L		04/01/19 03:00	04/02/19 15:34	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		04/01/19 03:00	04/02/19 11:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/01/19 03:00	04/02/19 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/10/19 15:29	04/10/19 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110204-5

Date Collected: 03/28/19 00:00
Matrix: Water
Date Received: 03/30/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 16:53	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 16:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 16:53	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 16:53	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 16:53	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 16:53	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 16:53	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 16:53	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 16:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/10/19 16:53	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 16:53	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0	0.91	ug/L			04/10/19 16:53	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 16:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 16:53	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 16:53	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 16:53	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 16:53	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 16:53	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 16:53	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 16:53	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 16:53	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 16:53	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 16:53	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 16:53	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 16:53	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 16:53	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/10/19 16:53	1
Acetone	ND		10	5.4	ug/L			04/10/19 16:53	1
Benzene	ND		1.0	0.13	ug/L			04/10/19 16:53	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 16:53	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 16:53	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/10/19 16:53	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 16:53	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 16:53	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 16:53	1
Chloroform	ND		1.0	0.13	ug/L			04/10/19 16:53	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 16:53	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/10/19 16:53	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 16:53	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 16:53	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 16:53	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 16:53	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 16:53	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 16:53	1
Dichlorofluoromethane	ND		1.0	0.28	ug/L			04/10/19 16:53	1
Ethyl ether	ND		1.0	0.19	ug/L			04/10/19 16:53	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 16:53	1
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 16:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110204-5

Date Collected: 03/28/19 00:00
Date Received: 03/30/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 16:53	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 16:53	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 16:53	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 16:53	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 16:53	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 16:53	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			04/10/19 16:53	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 16:53	1
Methyl tert butyl ether	ND		2.0	0.070	ug/L			04/10/19 16:53	1
Methylene Chloride	ND		1.0	2.6	ug/L			04/10/19 16:53	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 16:53	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 16:53	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 16:53	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/10/19 16:53	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 16:53	1
Toluene	ND		1.0	0.14	ug/L			04/10/19 16:53	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 16:53	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 16:53	1
Trichloroethene	ND		1.0	0.10	ug/L			04/10/19 16:53	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 16:53	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 16:53	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 16:53	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 121*		*04/10/19 16:53*	*1*
4-Bromofluorobenzene (Surr)	*69*		*59 - 120*		*04/10/19 16:53*	*1*
Toluene-d8 (Surr)	*81*		*70 - 123*		*04/10/19 16:53*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 128*		*04/10/19 16:53*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	**Client Sample ID**	**(70-121)**	**(59-120)**	**(70-123)**	**(75-128)**
240-110204-1	AMW-03B (20190328)	103	73	86	117
240-110204-2	AMW-29 (20190328)	97	70	82	109
240-110204-3	AMW-30 (20190328)	101	66	81	112
240-110204-4	AMW-31 (20190328)	98	66	79	111
240-110204-5	TRIP BLANK	102	69	81	114
240-110210-A-1 MS	Matrix Spike	95	95	96	110
240-110210-C-1 MSD	Matrix Spike Duplicate	90	92	94	108
LCS 240-375747/4	Lab Control Sample	87	88	91	100
MB 240-375747/6	Method Blank	102	74	87	114

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-375747/6
Matrix: Water
Analysis Batch: 375747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.14	ug/L			04/10/19 12:31	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			04/10/19 12:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.13	ug/L			04/10/19 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			04/10/19 12:31	1
1,1,2-Trichloroethane	ND		1.0	0.090	ug/L			04/10/19 12:31	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			04/10/19 12:31	1
1,1-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 12:31	1
1,1-Dichloropropene	ND		1.0	0.14	ug/L			04/10/19 12:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.54	ug/L			04/10/19 12:31	1
1,2,3-Trichloropropane	ND		1.0	0.24	ug/L			04/10/19 12:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.26	ug/L			04/10/19 12:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.070	ug/L			04/10/19 12:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.91	ug/L			04/10/19 12:31	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 12:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/19 12:31	1
1,2-Dichloropropane	ND		1.0	0.15	ug/L			04/10/19 12:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.12	ug/L			04/10/19 12:31	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			04/10/19 12:31	1
1,3-Dichloropropane	ND		1.0	0.21	ug/L			04/10/19 12:31	1
1,4-Dichlorobenzene	ND		1.0	0.16	ug/L			04/10/19 12:31	1
Allyl chloride	ND		2.0	0.61	ug/L			04/10/19 12:31	1
2,2-Dichloropropane	ND		1.0	0.31	ug/L			04/10/19 12:31	1
2-Chlorotoluene	ND		1.0	0.15	ug/L			04/10/19 12:31	1
2-Hexanone	ND		10	0.54	ug/L			04/10/19 12:31	1
Bromobenzene	ND		1.0	0.12	ug/L			04/10/19 12:31	1
Bromochloromethane	ND		1.0	0.14	ug/L			04/10/19 12:31	1
4-Chlorotoluene	ND		1.0	0.090	ug/L			04/10/19 12:31	1
p-Isopropyltoluene	ND		1.0	0.13	ug/L			04/10/19 12:31	1
Acetone	ND		10	5.4	ug/L			04/10/19 12:31	1
Benzene	ND		1.0	0.13	ug/L			04/10/19 12:31	1
Bromoform	ND		1.0	0.76	ug/L			04/10/19 12:31	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/19 12:31	1
Carbon disulfide	ND		1.0	0.28	ug/L			04/10/19 12:31	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			04/10/19 12:31	1
Chlorobenzene	ND		1.0	0.14	ug/L			04/10/19 12:31	1
Chloroethane	ND		1.0	0.83	ug/L			04/10/19 12:31	1
Chloroform	ND		1.0	0.13	ug/L			04/10/19 12:31	1
Chloromethane	ND		1.0	0.20	ug/L			04/10/19 12:31	1
cis-1,2-Dichloroethene	ND		1.0	0.16	ug/L			04/10/19 12:31	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			04/10/19 12:31	1
Cyclohexane	ND		1.0	0.24	ug/L			04/10/19 12:31	1
Hexachlorobutadiene	ND		1.0	0.83	ug/L			04/10/19 12:31	1
Dibromomethane	ND		1.0	0.090	ug/L			04/10/19 12:31	1
Bromodichloromethane	ND		1.0	0.17	ug/L			04/10/19 12:31	1
Dichlorodifluoromethane	ND		1.0	0.35	ug/L			04/10/19 12:31	1
Dichlorofluoromethane	ND		2.0	0.28	ug/L			04/10/19 12:31	1
Ethyl ether	ND		2.0	0.19	ug/L			04/10/19 12:31	1
Ethylbenzene	ND		1.0	0.11	ug/L			04/10/19 12:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-375747/6
Matrix: Water
Analysis Batch: 375747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.12	ug/L			04/10/19 12:31	1
Naphthalene	ND		1.0	0.32	ug/L			04/10/19 12:31	1
m-Xylene & p-Xylene	ND		2.0	0.080	ug/L			04/10/19 12:31	1
n-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 12:31	1
Isopropylbenzene	ND		1.0	0.090	ug/L			04/10/19 12:31	1
Methyl acetate	ND		10	1.7	ug/L			04/10/19 12:31	1
N-Propylbenzene	ND		1.0	0.15	ug/L			04/10/19 12:31	1
2-Butanone (MEK)	ND		10	1.2	ug/L			04/10/19 12:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.42	ug/L			04/10/19 12:31	1
sec-Butylbenzene	ND		1.0	0.13	ug/L			04/10/19 12:31	1
Methyl tert butyl ether	ND		1.0	0.070	ug/L			04/10/19 12:31	1
Methylene Chloride	ND		5.0	2.6	ug/L			04/10/19 12:31	1
o-Xylene	ND		1.0	0.090	ug/L			04/10/19 12:31	1
Styrene	ND		1.0	0.10	ug/L			04/10/19 12:31	1
tert-Butylbenzene	ND		1.0	0.14	ug/L			04/10/19 12:31	1
Tetrachloroethene	ND		1.0	0.15	ug/L			04/10/19 12:31	1
Tetrahydrofuran	ND		5.0	0.41	ug/L			04/10/19 12:31	1
Toluene	ND		1.0	0.14	ug/L			04/10/19 12:31	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			04/10/19 12:31	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			04/10/19 12:31	1
Trichloroethene	ND		1.0	0.10	ug/L			04/10/19 12:31	1
Trichlorofluoromethane	ND		1.0	0.45	ug/L			04/10/19 12:31	1
Vinyl chloride	ND		1.0	0.20	ug/L			04/10/19 12:31	1
Methylcyclohexane	ND		1.0	0.33	ug/L			04/10/19 12:31	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			04/10/19 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 121*		*04/10/19 12:31*	*1*
4-Bromofluorobenzene (Surr)	*74*		*59 - 120*		*04/10/19 12:31*	*1*
Toluene-d8 (Surr)	*87*		*70 - 123*		*04/10/19 12:31*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 128*		*04/10/19 12:31*	*1*

Lab Sample ID: LCS 240-375747/4
Matrix: Water
Analysis Batch: 375747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.8		ug/L		108	80 - 124
1,1,1-Trichloroethane	10.0	13.1		ug/L		131	69 - 134
1,1,2,2-Tetrachloroethane	10.0	6.71		ug/L		67	65 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.8		ug/L		118	50 - 156
1,1,2-Trichloroethane	10.0	9.17		ug/L		92	78 - 133
1,1-Dichloroethane	10.0	11.9		ug/L		119	75 - 133
1,1-Dichloroethene	10.0	10.1		ug/L		101	65 - 139
1,1-Dichloropropene	10.0	10.7		ug/L		107	78 - 126
1,2,3-Trichlorobenzene	10.0	8.89		ug/L		89	39 - 138
1,2,3-Trichloropropane	10.0	6.77		ug/L		68	66 - 139
1,2,4-Trichlorobenzene	10.0	8.25		ug/L		82	42 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-375747/4
Matrix: Water
Analysis Batch: 375747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	74 - 120
1,2-Dibromo-3-Chloropropane	10.0	4.21	*	ug/L		42	46 - 132
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	78 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	71 - 135
1,2-Dichloropropane	10.0	10.5		ug/L		105	78 - 133
1,3,5-Trimethylbenzene	10.0	9.98		ug/L		100	75 - 121
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	78 - 120
1,3-Dichloropropane	10.0	8.70		ug/L		87	72 - 134
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	78 - 120
Allyl chloride	10.0	9.70		ug/L		97	66 - 138
2,2-Dichloropropane	10.0	12.7		ug/L		127	42 - 150
2-Chlorotoluene	10.0	9.87		ug/L		99	78 - 123
2-Hexanone	20.0	10.6		ug/L		53	43 - 148
Bromobenzene	10.0	9.51		ug/L		95	74 - 129
Bromochloromethane	10.0	11.4		ug/L		114	74 - 130
4-Chlorotoluene	10.0	9.99		ug/L		100	77 - 125
p-Isopropyltoluene	10.0	10.1		ug/L		101	69 - 122
Acetone	20.0	14.3		ug/L		72	21 - 162
Benzene	10.0	11.0		ug/L		110	80 - 123
Bromoform	10.0	5.89		ug/L		59	49 - 141
Bromomethane	10.0	8.95		ug/L		90	41 - 175
Carbon disulfide	10.0	9.56		ug/L		96	60 - 138
Carbon tetrachloride	10.0	12.0		ug/L		120	63 - 140
Chlorobenzene	10.0	10.8		ug/L		108	80 - 121
Chloroethane	10.0	8.80		ug/L		88	33 - 173
Chloroform	10.0	12.1		ug/L		121	79 - 127
Chloromethane	10.0	9.03		ug/L		90	54 - 143
cis-1,2-Dichloroethene	10.0	11.7		ug/L		117	76 - 128
cis-1,3-Dichloropropene	10.0	8.13		ug/L		81	64 - 132
Cyclohexane	10.0	10.9		ug/L		109	58 - 145
Hexachlorobutadiene	10.0	10.1		ug/L		101	38 - 136
Dibromomethane	10.0	8.80		ug/L		88	74 - 124
Bromodichloromethane	10.0	9.25		ug/L		92	77 - 125
Dichlorodifluoromethane	10.0	10.4		ug/L		104	29 - 148
Dichlorofluoromethane	10.0	9.14		ug/L		91	48 - 168
Ethyl ether	10.0	9.03		ug/L		90	70 - 146
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dibromoethane	10.0	7.94		ug/L		79	77 - 123
Naphthalene	10.0	4.80		ug/L		48	28 - 141
m-Xylene & p-Xylene	10.0	10.6		ug/L		106	80 - 120
n-Butylbenzene	10.0	9.05		ug/L		91	57 - 126
Isopropylbenzene	10.0	10.6		ug/L		106	74 - 120
Methyl acetate	20.0	12.5		ug/L		62	52 - 145
N-Propylbenzene	10.0	9.58		ug/L		96	77 - 123
2-Butanone (MEK)	20.0	11.8		ug/L		59	39 - 163
4-Methyl-2-pentanone (MIBK)	20.0	10.8		ug/L		54	49 - 143
sec-Butylbenzene	10.0	9.60		ug/L		96	68 - 123
Methyl tert butyl ether	10.0	7.01		ug/L		70	51 - 133
Methylene Chloride	10.0	11.3		ug/L		113	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-375747/4
Matrix: Water
Analysis Batch: 375747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	10.0	10.5		ug/L		105	80 - 120
Styrene	10.0	10.1		ug/L		101	79 - 120
tert-Butylbenzene	10.0	9.01		ug/L		90	70 - 121
Tetrachloroethene	10.0	11.6		ug/L		116	74 - 130
Tetrahydrofuran	20.0	9.55		ug/L		48	44 - 145
Toluene	10.0	10.8		ug/L		108	78 - 129
trans-1,2-Dichloroethene	10.0	12.5		ug/L		125	78 - 133
trans-1,3-Dichloropropene	10.0	6.81		ug/L		68	55 - 128
Trichloroethene	10.0	10.7		ug/L		107	76 - 125
Trichlorofluoromethane	10.0	10.7		ug/L		107	51 - 164
Vinyl chloride	10.0	10.2		ug/L		102	58 - 143
Methylcyclohexane	10.0	9.91		ug/L		99	60 - 125
Chlorodibromomethane	10.0	8.26		ug/L		83	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 121*
4-Bromofluorobenzene (Surr)	*88*		*59 - 120*
Toluene-d8 (Surr)	*91*		*70 - 123*
Dibromofluoromethane (Surr)	*100*		*75 - 128*

Lab Sample ID: 240-110210-A-1 MS
Matrix: Water
Analysis Batch: 375747

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		10.0	11.0		ug/L		110	71 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 121*
4-Bromofluorobenzene (Surr)	*95*		*59 - 120*
Toluene-d8 (Surr)	*96*		*70 - 123*
Dibromofluoromethane (Surr)	*110*		*75 - 128*

Lab Sample ID: 240-110210-C-1 MSD
Matrix: Water
Analysis Batch: 375747

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		10.0	10.8		ug/L		108	71 - 122	2	22

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 121*
4-Bromofluorobenzene (Surr)	*92*		*59 - 120*
Toluene-d8 (Surr)	*94*		*70 - 123*
Dibromofluoromethane (Surr)	*108*		*75 - 128*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-374050/1-A
Matrix: Water
Analysis Batch: 374434

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 374050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	47	ug/L		04/01/19 03:00	04/02/19 14:48	1
Antimony	ND		20	7.5	ug/L		04/01/19 03:00	04/02/19 14:48	1
Arsenic	ND		10	4.1	ug/L		04/01/19 03:00	04/02/19 14:48	1
Barium	ND		200	1.3	ug/L		04/01/19 03:00	04/02/19 14:48	1
Beryllium	ND		5.0	0.60	ug/L		04/01/19 03:00	04/02/19 14:48	1
Cadmium	ND		5.0	0.20	ug/L		04/01/19 03:00	04/02/19 14:48	1
Boron	ND		100	23	ug/L		04/01/19 03:00	04/02/19 14:48	1
Calcium	ND		5000	310	ug/L		04/01/19 03:00	04/02/19 14:48	1
Chromium	ND		10	0.63	ug/L		04/01/19 03:00	04/02/19 14:48	1
Cobalt	ND		10	0.75	ug/L		04/01/19 03:00	04/02/19 14:48	1
Copper	ND		25	3.5	ug/L		04/01/19 03:00	04/02/19 14:48	1
Lead	ND		3.0	2.8	ug/L		04/01/19 03:00	04/02/19 14:48	1
Magnesium	ND		5000	780	ug/L		04/01/19 03:00	04/02/19 14:48	1
Manganese	6.16	J	15	2.1	ug/L		04/01/19 03:00	04/02/19 14:48	1
Nickel	ND		40	2.2	ug/L		04/01/19 03:00	04/02/19 14:48	1
Potassium	ND		5000	560	ug/L		04/01/19 03:00	04/02/19 14:48	1
Silver	ND		10	0.62	ug/L		04/01/19 03:00	04/02/19 14:48	1
Sodium	1090	J	5000	560	ug/L		04/01/19 03:00	04/02/19 14:48	1
Vanadium	ND		50	5.6	ug/L		04/01/19 03:00	04/02/19 14:48	1
Zinc	ND		50	9.7	ug/L		04/01/19 03:00	04/02/19 14:48	1

Lab Sample ID: LCS 240-374050/2-A
Matrix: Water
Analysis Batch: 374434

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 374050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1880		ug/L		94	80 - 120
Antimony	500	500		ug/L		100	80 - 120
Arsenic	2000	1980		ug/L		99	80 - 120
Barium	2000	1850		ug/L		93	80 - 120
Beryllium	50.0	49.7		ug/L		99	80 - 120
Cadmium	50.0	48.9		ug/L		98	80 - 120
Boron	1000	996		ug/L		100	80 - 120
Calcium	50000	48000		ug/L		96	80 - 120
Chromium	200	184		ug/L		92	80 - 120
Cobalt	500	483		ug/L		97	80 - 120
Copper	250	238		ug/L		95	80 - 120
Lead	500	464		ug/L		93	80 - 120
Magnesium	50000	49300		ug/L		99	80 - 120
Manganese	500	468		ug/L		94	80 - 120
Nickel	500	488		ug/L		98	80 - 120
Potassium	50000	47900		ug/L		96	80 - 120
Silver	50.0	49.1		ug/L		98	80 - 120
Sodium	50000	48400		ug/L		97	80 - 120
Vanadium	500	462		ug/L		92	80 - 120
Zinc	500	499		ug/L		100	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 240-374513/1-A
Matrix: Water
Analysis Batch: 374758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 374513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		200	26	ug/L		04/03/19 14:00	04/04/19 11:57	1

Lab Sample ID: LCS 240-374513/2-A
Matrix: Water
Analysis Batch: 374758

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 374513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	1010		ug/L		101	80 - 120

Lab Sample ID: 240-110204-2 MS
Matrix: Water
Analysis Batch: 374434

Client Sample ID: AMW-29 (20190328)
Prep Type: Dissolved
Prep Batch: 374050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	27000		2000	28500	4	ug/L		61	75 - 125
Antimony	ND		500	511		ug/L		102	75 - 125
Arsenic	ND		2000	2030		ug/L		101	75 - 125
Barium	18	J	2000	1920		ug/L		95	75 - 125
Beryllium	2.7	J	50.0	52.6		ug/L		100	75 - 125
Cadmium	0.41	J	50.0	50.0		ug/L		99	75 - 125
Boron	180		1000	1210		ug/L		102	75 - 125
Calcium	32000		50000	80600		ug/L		97	75 - 125
Chromium	5.4	J	200	194		ug/L		94	75 - 125
Cobalt	72		500	570		ug/L		100	75 - 125
Copper	78		250	324		ug/L		98	75 - 125
Lead	ND		500	463		ug/L		93	75 - 125
Magnesium	26000		50000	74500		ug/L		98	75 - 125
Manganese	400	B	500	879		ug/L		96	75 - 125
Nickel	170		500	668		ug/L		100	75 - 125
Potassium	4400	J	50000	53500		ug/L		98	75 - 125
Silver	ND		50.0	51.5		ug/L		103	75 - 125
Sodium	28000	B	50000	77200		ug/L		98	75 - 125
Vanadium	ND		500	468		ug/L		94	75 - 125
Zinc	140		500	662		ug/L		104	75 - 125

Lab Sample ID: 240-110204-2 MSD
Matrix: Water
Analysis Batch: 374434

Client Sample ID: AMW-29 (20190328)
Prep Type: Dissolved
Prep Batch: 374050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	27000		2000	28000	4	ug/L		36	75 - 125	2	20
Antimony	ND		500	500		ug/L		100	75 - 125	2	20
Arsenic	ND		2000	1990		ug/L		100	75 - 125	2	20
Barium	18	J	2000	1890		ug/L		93	75 - 125	2	20
Beryllium	2.7	J	50.0	52.1		ug/L		99	75 - 125	1	20
Cadmium	0.41	J	50.0	48.9		ug/L		97	75 - 125	2	20
Boron	180		1000	1180		ug/L		99	75 - 125	3	20
Calcium	32000		50000	79400		ug/L		95	75 - 125	2	20
Chromium	5.4	J	200	187		ug/L		91	75 - 125	4	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 240-110204-2 MSD — **Client Sample ID: AMW-29 (20190328)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374434 — **Prep Batch: 374050**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	72		500	559		ug/L		97	75 - 125	2	20
Copper	78		250	313		ug/L		94	75 - 125	3	20
Lead	ND		500	457		ug/L		91	75 - 125	1	20
Magnesium	26000		50000	73200		ug/L		95	75 - 125	2	20
Manganese	400	B	500	852		ug/L		90	75 - 125	3	20
Nickel	170		500	656		ug/L		98	75 - 125	2	20
Potassium	4400	J	50000	52600		ug/L		96	75 - 125	2	20
Silver	ND		50.0	49.5		ug/L		99	75 - 125	4	20
Sodium	28000	B	50000	76000		ug/L		95	75 - 125	2	20
Vanadium	ND		500	459		ug/L		92	75 - 125	2	20
Zinc	140		500	652		ug/L		102	75 - 125	1	20

Lab Sample ID: 240-110204-4 MS — **Client Sample ID: AMW-31 (20190328)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374758 — **Prep Batch: 374513**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	2200		1000	3070		ug/L		89	75 - 125

Lab Sample ID: 240-110204-4 MSD — **Client Sample ID: AMW-31 (20190328)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374758 — **Prep Batch: 374513**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	2200		1000	3050		ug/L		87	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-374050/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 374452 — **Prep Batch: 374050**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.20	ug/L		04/01/19 03:00	04/02/19 11:01	1

Lab Sample ID: LCS 240-374050/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 374452 — **Prep Batch: 374050**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	250	248		ug/L		99	80 - 120

Lab Sample ID: 240-110204-2 MS — **Client Sample ID: AMW-29 (20190328)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374452 — **Prep Batch: 374050**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1.6		250	243		ug/L		97	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-110204-2 MSD — **Client Sample ID: AMW-29 (20190328)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374452 — **Prep Batch: 374050**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	1.6		250	247		ug/L		98	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-374051/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374334 — **Prep Batch: 374051**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		04/01/19 03:00	04/02/19 11:48	1

Lab Sample ID: LCS 240-374051/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 374334 — **Prep Batch: 374051**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.63		ug/L		93	80 - 120

Lab Sample ID: 240-110204-1 MS — **Client Sample ID: AMW-03B (20190328)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374334 — **Prep Batch: 374051**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	0.998		ug/L		100	80 - 120

Lab Sample ID: 240-110204-1 MSD — **Client Sample ID: AMW-03B (20190328)**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 374334 — **Prep Batch: 374051**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.917		ug/L		92	80 - 120	8	20

Method: 9016 - Cyanide, Free

Lab Sample ID: MB 460-601555/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 601683 — **Prep Batch: 601555**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		5.0	1.5	ug/L		04/10/19 15:29	04/10/19 16:30	1

Lab Sample ID: LCS 460-601555/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 601683 — **Prep Batch: 601555**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Free	50.0	43.9		ug/L		88	78 - 110

Method: 9016 - Cyanide, Free (Continued)

Lab Sample ID: 240-110155-G-4-E MS
Matrix: Water
Analysis Batch: 601683

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 601555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free	ND		50.0	41.9		ug/L		84	78 - 110		

Lab Sample ID: 240-110155-G-4-F MSD
Matrix: Water
Analysis Batch: 601683

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 601555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Free	ND		50.0	43.1		ug/L		86	78 - 110	3	20

Lab Sample ID: DLCK 460-601683/10
Matrix: Water
Analysis Batch: 601683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Free			2.00	2.51	J	ug/L		126	50 - 150		

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

GC/MS VOA

Analysis Batch: 375747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Total/NA	Water	8260B	
240-110204-2	AMW-29 (20190328)	Total/NA	Water	8260B	
240-110204-3	AMW-30 (20190328)	Total/NA	Water	8260B	
240-110204-4	AMW-31 (20190328)	Total/NA	Water	8260B	
240-110204-5	TRIP BLANK	Total/NA	Water	8260B	
MB 240-375747/6	Method Blank	Total/NA	Water	8260B	
LCS 240-375747/4	Lab Control Sample	Total/NA	Water	8260B	
240-110210-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
240-110210-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Metals

Prep Batch: 374050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Dissolved	Water	3005A	
240-110204-2	AMW-29 (20190328)	Dissolved	Water	3005A	
240-110204-3	AMW-30 (20190328)	Dissolved	Water	3005A	
240-110204-4	AMW-31 (20190328)	Dissolved	Water	3005A	
MB 240-374050/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-374050/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-374050/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-110204-2 MS	AMW-29 (20190328)	Dissolved	Water	3005A	
240-110204-2 MS	AMW-29 (20190328)	Dissolved	Water	3005A	
240-110204-2 MSD	AMW-29 (20190328)	Dissolved	Water	3005A	
240-110204-2 MSD	AMW-29 (20190328)	Dissolved	Water	3005A	

Prep Batch: 374051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Dissolved	Water	7470A	
240-110204-2	AMW-29 (20190328)	Dissolved	Water	7470A	
240-110204-3	AMW-30 (20190328)	Dissolved	Water	7470A	
240-110204-4	AMW-31 (20190328)	Dissolved	Water	7470A	
MB 240-374051/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-374051/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-110204-1 MS	AMW-03B (20190328)	Dissolved	Water	7470A	
240-110204-1 MSD	AMW-03B (20190328)	Dissolved	Water	7470A	

Analysis Batch: 374334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Dissolved	Water	7470A	374051
240-110204-2	AMW-29 (20190328)	Dissolved	Water	7470A	374051
240-110204-3	AMW-30 (20190328)	Dissolved	Water	7470A	374051
240-110204-4	AMW-31 (20190328)	Dissolved	Water	7470A	374051
MB 240-374051/1-A	Method Blank	Total/NA	Water	7470A	374051
LCS 240-374051/2-A	Lab Control Sample	Total/NA	Water	7470A	374051
240-110204-1 MS	AMW-03B (20190328)	Dissolved	Water	7470A	374051
240-110204-1 MSD	AMW-03B (20190328)	Dissolved	Water	7470A	374051

Analysis Batch: 374434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Dissolved	Water	6010D	374050

Metals (Continued)

Analysis Batch: 374434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-2	AMW-29 (20190328)	Dissolved	Water	6010D	374050
240-110204-3	AMW-30 (20190328)	Dissolved	Water	6010D	374050
240-110204-4	AMW-31 (20190328)	Dissolved	Water	6010D	374050
MB 240-374050/1-A	Method Blank	Total Recoverable	Water	6010D	374050
LCS 240-374050/2-A	Lab Control Sample	Total Recoverable	Water	6010D	374050
240-110204-2 MS	AMW-29 (20190328)	Dissolved	Water	6010D	374050
240-110204-2 MSD	AMW-29 (20190328)	Dissolved	Water	6010D	374050

Analysis Batch: 374452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Dissolved	Water	6020B	374050
240-110204-2	AMW-29 (20190328)	Dissolved	Water	6020B	374050
240-110204-3	AMW-30 (20190328)	Dissolved	Water	6020B	374050
240-110204-4	AMW-31 (20190328)	Dissolved	Water	6020B	374050
MB 240-374050/1-A	Method Blank	Total Recoverable	Water	6020B	374050
LCS 240-374050/3-A	Lab Control Sample	Total Recoverable	Water	6020B	374050
240-110204-2 MS	AMW-29 (20190328)	Dissolved	Water	6020B	374050
240-110204-2 MSD	AMW-29 (20190328)	Dissolved	Water	6020B	374050

Prep Batch: 374513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Dissolved	Water	3005A	
240-110204-2	AMW-29 (20190328)	Dissolved	Water	3005A	
240-110204-3	AMW-30 (20190328)	Dissolved	Water	3005A	
240-110204-4	AMW-31 (20190328)	Dissolved	Water	3005A	
MB 240-374513/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-374513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-110204-4 MS	AMW-31 (20190328)	Dissolved	Water	3005A	
240-110204-4 MSD	AMW-31 (20190328)	Dissolved	Water	3005A	

Analysis Batch: 374758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Dissolved	Water	6010D	374513
240-110204-2	AMW-29 (20190328)	Dissolved	Water	6010D	374513
240-110204-3	AMW-30 (20190328)	Dissolved	Water	6010D	374513
240-110204-4	AMW-31 (20190328)	Dissolved	Water	6010D	374513
MB 240-374513/1-A	Method Blank	Total Recoverable	Water	6010D	374513
LCS 240-374513/2-A	Lab Control Sample	Total Recoverable	Water	6010D	374513
240-110204-4 MS	AMW-31 (20190328)	Dissolved	Water	6010D	374513
240-110204-4 MSD	AMW-31 (20190328)	Dissolved	Water	6010D	374513

General Chemistry

Prep Batch: 601555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Total/NA	Water	9016	
240-110204-2	AMW-29 (20190328)	Total/NA	Water	9016	
240-110204-3	AMW-30 (20190328)	Total/NA	Water	9016	
240-110204-4	AMW-31 (20190328)	Total/NA	Water	9016	
MB 460-601555/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-601555/2-A	Lab Control Sample	Total/NA	Water	9016	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

General Chemistry (Continued)

Prep Batch: 601555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110155-G-4-E MS	Matrix Spike	Total/NA	Water	9016	
240-110155-G-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	9016	

Analysis Batch: 601683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110204-1	AMW-03B (20190328)	Total/NA	Water	9016	601555
240-110204-2	AMW-29 (20190328)	Total/NA	Water	9016	601555
240-110204-3	AMW-30 (20190328)	Total/NA	Water	9016	601555
240-110204-4	AMW-31 (20190328)	Total/NA	Water	9016	601555
MB 460-601555/1-A	Method Blank	Total/NA	Water	9016	601555
DLCK 460-601683/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-601555/2-A	Lab Control Sample	Total/NA	Water	9016	601555
240-110155-G-4-E MS	Matrix Spike	Total/NA	Water	9016	601555
240-110155-G-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	9016	601555

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-03B (20190328)

Lab Sample ID: 240-110204-1
Date Collected: 03/28/19 08:20
Matrix: Water
Date Received: 03/30/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375747	04/10/19 15:26	LEE	TAL CAN

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			374513	04/03/19 14:00	MBB	TAL CAN
Dissolved	Prep	3005A			374513	04/03/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	374758	04/04/19 15:17	WKD	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6010D		1	374434	04/02/19 15:26	KLC	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6020B		1	374452	04/02/19 11:19	DSH	TAL CAN
Dissolved	Prep	7470A			374051	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	7470A		1	374334	04/02/19 11:52	AJC	TAL CAN
Total/NA	Prep	9016			601555	04/10/19 15:29	KYN	TAL EDI
Total/NA	Analysis	9016		1	601683	04/10/19 16:30	EMS	TAL EDI

Client Sample ID: AMW-29 (20190328)

Lab Sample ID: 240-110204-2
Date Collected: 03/28/19 10:05
Matrix: Water
Date Received: 03/30/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375747	04/10/19 15:48	LEE	TAL CAN
Dissolved	Prep	3005A			374513	04/03/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	374758	04/04/19 15:21	WKD	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6010D		1	374434	04/02/19 15:05	KLC	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6020B		1	374452	04/02/19 11:08	DSH	TAL CAN
Dissolved	Prep	7470A			374051	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	7470A		1	374334	04/02/19 12:15	AJC	TAL CAN
Total/NA	Prep	9016			601555	04/10/19 15:29	KYN	TAL EDI
Total/NA	Analysis	9016		1	601683	04/10/19 16:30	EMS	TAL EDI

Client Sample ID: AMW-30 (20190328)

Lab Sample ID: 240-110204-3
Date Collected: 03/28/19 11:50
Matrix: Water
Date Received: 03/30/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375747	04/10/19 16:09	LEE	TAL CAN
Dissolved	Prep	3005A			374513	04/03/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	374758	04/04/19 15:26	WKD	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6010D		1	374434	04/02/19 15:30	KLC	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6020B		1	374452	04/02/19 11:21	DSH	TAL CAN

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Client Sample ID: AMW-30 (20190328)

Lab Sample ID: 240-110204-3
Date Collected: 03/28/19 11:50
Matrix: Water
Date Received: 03/30/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			374051	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	7470A		1	374334	04/02/19 12:17	AJC	TAL CAN
Total/NA	Prep	9016			601555	04/10/19 15:29	KYN	TAL EDI
Total/NA	Analysis	9016		1	601683	04/10/19 16:30	EMS	TAL EDI

Client Sample ID: AMW-31 (20190328)

Lab Sample ID: 240-110204-4
Date Collected: 03/28/19 12:55
Matrix: Water
Date Received: 03/30/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375747	04/10/19 16:31	LEE	TAL CAN
Dissolved	Prep	3005A			374513	04/03/19 14:00	MBB	TAL CAN
Dissolved	Analysis	6010D		1	374758	04/04/19 14:45	WKD	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6010D		1	374434	04/02/19 15:34	KLC	TAL CAN
Dissolved	Prep	3005A			374050	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	6020B		1	374452	04/02/19 11:28	DSH	TAL CAN
Dissolved	Prep	7470A			374051	04/01/19 03:00	SLD	TAL CAN
Dissolved	Analysis	7470A		1	374334	04/02/19 12:19	AJC	TAL CAN
Total/NA	Prep	9016			601555	04/10/19 15:29	KYN	TAL EDI
Total/NA	Analysis	9016		1	601683	04/10/19 16:30	EMS	TAL EDI

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110204-5
Date Collected: 03/28/19 00:00
Matrix: Water
Date Received: 03/30/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	375747	04/10/19 16:53	LEE	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

Job ID: 240-110204-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	04-30-19 *
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-20
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

3.6/C3.4

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

estAmerica Minneapolis SC
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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tim H. Molitor	Lab PM: DelMonico, Michael	Carrier Tracking No(s):	COC No: 240-58719-25094.2
Client Contact: Jim Ziska	Phone: 612-339-9434	E-Mail: michael.delmonico@testamericainc.com		Page: ~~Page 2 of 6~~ Pg. 1 of 1
Company: ARCADIS U.S., Inc.				Job #:
Address: 430 First Avenue, North Suite 720	Due Date Requested:			
City: Minneapolis	TAT Requested (days): STD			
State, Zip: MN, 55304				
Phone:	PO #: MN000653.0007.00002			
Email: James.Ziska@arcadis.com	WO #: Enovis/Cadena #: E200572			
Project Name: Ford TCAP - E200572	Project #: 24006638			
Site: Ford-TCAP	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260B, 465 VOCs	6010D - TAL Metals List - FF	6020B - Thallium - FF	9016 - Free Cyanide	8082A, 8270D	WI_DRO - WI DRO	WI_GRO - WI GRO	8260B - TB - 8260B, 465 VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	D	B	N	A	A	A		
AMW-03B (20190328)	3/28/19	820	G	Water	Y	N	X	X	X	X						
AMW-29 (20190328)	↓	1005	G	Water	Y	N	X	X	X	X						
AMW-30 (20190328)		1150	G	Water	Y	N	X	X	X	X						
AMW-31 (20190328)		1255	G	Water	Y	N	X	X	X	X						
~~Trip Blank~~				Water	—		X						X			
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

240-110204 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
(Tim Molitor)	3/28/19 @ 1530	Arcadis	[illegible]	3-29-19 1135	TA
[illegible]	3-29-19 1700	TA	[illegible]	3-30-19 1030	TAC

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 110204
Canton Facility

Client Arcadis US Inc Site Name _____ Cooler unpacked by: MM

Cooler Received on 3-30-19 Opened on 3-30-19

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **-0.2** °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 3.4 °C
   IR GUN #36 (CF **+0.7**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC861525**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # B831701VB Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: Martin

Trip Blank X'ed for 8260 + GRO -
rec'd 1x40vial - with log for 8260

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
AMW-03B	240-110204-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-29	240-110204-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-30	240-110204-E-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-31	240-110204-E-4	Plastic 500ml - with Nitric Acid	<2	_____	_____

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: DelMonico, Michael	Carrier Tracking No(s):	COC No: 240-101474.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: michael.delmonico@testamericainc.com	State of Origin: Minnesota	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 240-110204-1
Address: 777 New Durham Road, ,	Due Date Requested: 4/11/2019			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Ford TCAP - E200572	Project #: 24006638			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9016/9016_Prep (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AMW-03B (240-110204-1)	3/28/19	08:20 Central		Water			X	1	
AMW-29 (240-110204-2)	3/28/19	10:05 Central		Water			X	1	
AMW-30 (240-110204-3)	3/28/19	11:50 Central		Water			X	1	
AMW-31 (240-110204-4)	3/28/19	12:55 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 4/1 1522	Company	Received by: via FedEx	Date/Time: 4/2/19 0905	Company TAEdi
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: no CS		Cooler Temperature(s) °C and Other Remarks: 1.3°C IR9		

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-110204-1

Login Number: 110204
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 04/02/19 11:32 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT 3

Comprehensive Analytical Results

ARCADIS Design & Consultancy for natural and built assets

See Notes and Abbreviations on Page 33.

Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-03B AMW-03B(20070718) 7/18/2007 7G20195	AMW-03B AMW-03B(20070718)R3 7/18/2007 7G20195	AMW-03B AMW-3B(20071217) 12/17/2007 A7L180274	AMW-03B AMW-03B(20080311) 3/11/2008 A8C130246	AMW-03B AMW-03B(20080311)R2 3/11/2008 A8C130246	AMW-03B DUP 001(20080313)FD 3/13/2008 A8C150158	AMW-03B AMW-3B(20080911) 9/11/2008 A8I130155	AMW-03B AMW-03B(20091006) 10/6/2009 A9J080262
		CS	MS	FAV									
Metals, Dissolved													
Aluminum		1,500		3,000	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	NA	NA	< 10	< 10.0	NA	< 10.0	< 10.0	NA
Barium	2,000				ug/l	NA	NA	**85.3 J**	**84.2 J**	NA	**159 J**	**79.1 J**	NA
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Boron	1,000				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	NA	< 5	< 5.0	NA	< 5.0	< 5.0	NA
Calcium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	NA	NA	< 10	< 10.0	NA	< 10.0	< 10.0	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	NA	NA	< 3	< 3.0	NA	< 3.0	< 3.0	NA
Magnesium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	NA	NA	< 0.2	< 0.20	NA	< 0.20	< 0.20	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	NA	NA	< 5	< 5.0	NA	< 5.0	< 5.0	NA
Silver	30	1	6	11	ug/l	NA	NA	< 10	< 10.0	NA	< 10.0	< 10.0	NA
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total													
Aluminum		1,500		3,000	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	**5.6 J**	NA	< 10	NA	NA	NA	NA	NA
Barium	2,000				ug/l	**123 J**	NA	**89.6 J**	NA	NA	NA	NA	NA
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	< 5.0	NA	< 5	NA	NA	NA	NA	NA
Calcium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	**24.0**	NA	**4.2 J**	NA	NA	NA	NA	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	< 3.0	NA	< 3	NA	NA	NA	NA	NA
Magnesium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	**0.24**	NA	< 0.2	NA	NA	NA	NA	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	< 5.0	NA	< 5	NA	NA	NA	NA	NA
Silver	30	1	6	11	ug/l	< 10.0	NA	< 10	NA	NA	NA	NA	NA
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.2	< 0.20	NA	< 0.20	< 0.20	< 0.20
Aroclor 1221	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.2	< 0.20	NA	< 0.20	< 0.20	< 0.20

ARCADIS Design & Consultancy for natural and built assets

See Notes and Abbreviations on Page 33.

Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-03B AMW-03B(20070718) 7/18/2007 7G20195	AMW-03B AMW-03B(20070718)R3 7/18/2007 7G20195	AMW-03B AMW-3B(20071217) 12/17/2007 A7L180274	AMW-03B AMW-03B(20080311) 3/11/2008 A8C130246	AMW-03B AMW-03B(20080311)R2 3/11/2008 A8C130246	AMW-03B DUP 001(20080313)FD 3/13/2008 A8C150158	AMW-03B AMW-3B(20080911) 9/11/2008 A8I130155	AMW-03B AMW-03B(20091006) 10/6/2009 A9J080262
		CS	MS	FAV									
Aroclor 1232	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.2	< 0.20	NA	< 0.20	< 0.20	< 0.20
Aroclor 1242	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.2	< 0.20	NA	< 0.20	< 0.20	< 0.20
Aroclor 1248	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.2	< 0.20	NA	< 0.20	< 0.20	< 0.20
Aroclor 1254	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.2	< 0.20	NA	< 0.20	< 0.20	< 0.20
Aroclor 1260	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.2	< 0.20	NA	< 0.20	< 0.20	< 0.20
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
TPH													
Diesel Range Organics	100				ug/l	NA	NA	NA	< 100	NA	**410**	< 100	NA
Gasoline Range Organics	100				ug/l	NA	NA	NA	< 100	NA	< 100	< 100	NA
Other													
Cyanide	100	5.2	22	45	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Free	100	5.2	22	45	ug/l	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs													
1,1-Biphenyl	300				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2,2-Oxybis(1-Chloropropane)					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2,4,5-Trichlorophenol					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2,4-Dichlorophenol	20				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2,4-Dimethylphenol	100				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2,4-Dinitrophenol	10				ug/l	< 50	NA	< 50	NA	< 50 J	< 50	< 50	NA
2,4-Dinitrotoluene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2,6-Dinitrotoluene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2-Chloronaphthalene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2-Chlorophenol	30				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2-Methyl-4,6-dinitrophenol					ug/l	< 50	NA	< 50	NA	< 50 J	< 50	< 50	NA
2-Methylnaphthalene	8				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2-Methylphenol	30				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
2-Nitroaniline					ug/l	< 50	NA	< 50	NA	< 50 J	< 50	< 50	NA
2-Nitrophenol					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
3,3-Dichlorobenzidine	0.8				ug/l	< 50 J	NA	< 50	NA	< 50 J	< 50	< 50	NA
3-Methylphenol, 4-Methylphenol					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline					ug/l	< 50	NA	< 50	NA	< 50 J	< 50	< 50	NA
4-Bromophenyl phenyl ether					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
4-Chloro-3-Methylphenol					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
4-Chlorophenyl phenyl ether					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
4-Methylphenol	3				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
4-Nitroaniline					ug/l	< 50	NA	< 50	NA	< 50 J	< 50	< 50	NA
4-Nitrophenol					ug/l	< 50	NA	< 50	NA	< 50 J	< 50	< 50	NA
Acenaphthene	400	20	56	112	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Acenaphthylene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Acetophenone					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Anthracene	2,000	0.035	0.32	0.63	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Atrazine	3	10	323	645	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Benz(a)anthracene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Benzaldehyde					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Benzo(a)pyrene	0.06				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Benzo(b)fluoranthene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Benzo(g,h,i)perylene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Benzo(k)fluoranthene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
bis(2-Chloroethoxy)methane					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
bis(2-Chloroethyl)ether	0.3				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-03B AMW-03B(20070718) 7/18/2007 7G20195	AMW-03B AMW-03B(20070718)R3 7/18/2007 7G20195	AMW-03B AMW-3B(20071217) 12/17/2007 A7L180274	AMW-03B AMW-03B(20080311) 3/11/2008 A8C130246	AMW-03B AMW-03B(20080311)R2 3/11/2008 A8C130246	AMW-03B DUP 001(20080313)FD 3/13/2008 A8C150158	AMW-03B AMW-3B(20080911) 9/11/2008 A8I130155	AMW-03B AMW-03B(20091006) 10/6/2009 A9J080262
		CS	MS	FAV									
bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Butyl benzyl phthalate	100				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Caprolactam					ug/l	< 10	NA	< 10 J	NA	< 10 J	< 10 J	**1.5 J**	NA
Carbazole					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Chrysene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Dibenz(a,h)anthracene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Dibenzofuran					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Diethyl phthalate	6,000				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Dimethyl phthalate	70,000				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Di-n-butyl phthalate	20				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Di-n-octyl phthalate		30	825	1,650	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Fluoranthene	300	1.9	3.5	6.9	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Fluorene	300				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Hexachloro-1,3-butadiene	1				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Hexachlorobenzene	0.2	0.00024			ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Hexachlorocyclopentadiene					ug/l	< 50	NA	< 50	NA	< 50 J	< 50	< 50 J	NA
Hexachloroethane					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Indeno(1,2,3-cd)pyrene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Isophorone	100				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Naphthalene	70	81	409	818	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Nitrobenzene					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
N-Nitrosodi-n-propylamine					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
N-Nitrosodiphenylamine	70				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
p-Chloroaniline					ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Pentachlorophenol	0.3				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Phenanthrene		3.6	32	64	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Phenol	4,000	123	2,214	4,428	ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
Pyrene	200				ug/l	< 10	NA	< 10	NA	< 10 J	< 10	< 10	NA
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	<	NA	<	NA	<	NA	<	NA
VOCs													
1,1,1,2-Tetrachloroethane	70				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0 J	< 1.0	< 1.0 J
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	< 2.0	NA	< 2	< 2.0	NA	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	0.004				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-03B AMW-03B(20070718) 7/18/2007 7G20195	AMW-03B AMW-03B(20070718)R3 7/18/2007 7G20195	AMW-03B AMW-3B(20071217) 12/17/2007 A7L180274	AMW-03B AMW-03B(20080311) 3/11/2008 A8C130246	AMW-03B AMW-03B(20080311)R2 3/11/2008 A8C130246	AMW-03B DUP 001(20080313)FD 3/13/2008 A8C150158	AMW-03B AMW-3B(20080911) 9/11/2008 A8I130155	AMW-03B AMW-03B(20091006) 10/6/2009 A9J080262
		CS	MS	FAV									
2-Butanone (MEK)	4,000				ug/l	< 10	NA	< 10	< 10	NA	< 10	< 10	< 10
2-Chlorotoluene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	< 5.0	NA	< 5	< 5.0	NA	< 5.0	< 5.0	< 5.0 J
Acetone	4,000				ug/l	< 10	NA	< 10	< 10	NA	< 10	< 10	< 10
Allyl chloride	30				ug/l	< 2.0	NA	< 2	< 2.0	NA	< 2.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	**0.29 J**	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Bromomethane	10				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0 J	< 1.0
Carbon Disulfide	700				ug/l	**1.2**	NA	< 1	< 1.0	NA	**0.31 J**	< 1.0	< 1.0
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	< 1.0 J	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0 J
Chlorobenzene	100	20	423	846	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Chloroethane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	**2.3**	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Chloromethane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	6				ug/l	< 1.0	NA	< 1	< 1.0	NA	**0.54 J**	< 1.0	< 1.0
cis-1,3-Dichloropropene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0 J
Cyclohexane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	**4.3**	< 1.0
Dichloromonofluoromethane	30				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Diethyl ether	200				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Ethylbenzene	50	68	1,859	3,717	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Isopropylbenzene	300				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	< 2.0	NA	< 2	< 2.0	NA	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	< 10	NA	< 10	< 10	NA	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	< 10 J	NA	< 10	< 10	NA	< 10	< 10	< 10
Methylcyclohexane					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	60				ug/l	< 2.0	NA	< 2	< 2.0	NA	< 2.0	< 2.0	< 2.0
Naphthalene	70	81	409	818	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0 J	< 1.0
tert-Butylbenzene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	**3.2**	< 1.0
Tetrahydrofuran					ug/l	< 5.0	NA	< 5	< 5.0	NA	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	40				ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	0.4	120	6,988	13,976	ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0
Vinyl chloride	0.2	9.2			ug/l	< 1.0	NA	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0

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Metals, Dissolved														
Aluminum		1,500		3,000	ug/l	NA	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Antimony	6	31	90	180	ug/l	NA	< 10	< 10	< 20	< 20	< 20	< 10	< 10	< 10
Arsenic	10	53	360	720	ug/l	NA	**4.4 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Barium	2,000				ug/l	NA	**76 J**	**75 J**	**23 J**	**61 J**	**7.4 J**	**150 J**	**73 J**	**59 J**
Beryllium	0.08				ug/l	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.62 J**	< 5.0	< 5.0
Boron	1,000				ug/l	NA	NA	NA	**71 J**	**28 J**	**41 J**	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.22 J**
Calcium					ug/l	NA	**65,000**	**66,000**	**36,000**	**54,000**	**12,000**	**280,000**	**130,000**	**120,000**
Chromium	100	11	16	32	ug/l	NA	< 10	< 10	**0.67 J**	< 10	< 10	< 10	< 10	**1.9 J**
Cobalt	30	5	436	872	ug/l	NA	< 7.0	< 7.0	< 10	< 10	< 10	< 7.0	**2.7 J**	**6.3 J**
Copper	1,000	14	31	62	ug/l	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Iron					ug/l	NA	**760**	**840**	< 200	**2,600**	**35 J**	**810**	< 100	**6,800**
Lead	15	7	173	346	ug/l	NA	< 3.0	**1.9 J**	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Magnesium					ug/l	NA	**21,000**	**22,000**	**4,200 J**	**20,000**	**2,300 J**	**97,000**	**53,000**	**40,000**
Manganese	100				ug/l	NA	**150**	**70**	**11 J**	**70**	**2.1 J**	**180**	**64**	**190**
Mercury		0.0069	2.4	4.9	ug/l	NA	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	100	259	2,332	4,664	ug/l	NA	< 40	< 40	< 40	< 40	< 40	**110**	**31 J**	**7.8 J**
Potassium					ug/l	NA	**1,700 J**	**1,600 J**	**13,000**	**2,400 J**	**5,000**	**11,000**	**7,200**	**2,700 J**
Selenium	30	5.0	20	40	ug/l	NA	**6.0 J**	< 5.0	NA	NA	NA	**11**	< 5.0	< 5.0
Silver	30	1	6	11	ug/l	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sodium					ug/l	NA	**3,400 J**	**2,800 J**	**29,000**	**4,600 J**	**14,000**	**89,000**	**120,000**	**20,000**
Thallium	0.6	0.56	64	128	ug/l	NA	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 10	< 10
Vanadium	50				ug/l	NA	< 10	< 10	< 50	< 50	< 50	< 7.0	< 7.0	< 7.0
Zinc	2,000	174	193	385	ug/l	NA	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**11 J**
Metals, Total														
Aluminum		1,500		3,000	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2,000				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	30	1	6	11	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs														
Aroclor 1016	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.19	< 0.21	< 0.21	NA	NA	NA	NA
Aroclor 1221	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.19	< 0.21	< 0.21	NA	NA	NA	NA

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-03B DUP-001(20091006)FD 10/6/2009 A9J080262	AMW-03B AMW-3B (20160606) 6/6/2016 65765-1	AMW-03B AMW-03B(20171212) 12/12/2017 89410-1	AMW-03B AMW-03B(20180601) 6/1/2018 96478-1	AMW-03B AMW-03B (20180821) 8/21/2018 100222-1	AMW-03B AMW-03B (20190328) 3/28/2019 110204-1	AMW-05 AMW-05 (20140703) 7/3/2014 39273-1	AMW-05 AMW-05 (20140807) 8/7/2014 40552-1	AMW-05 AMW-05 (20140916) 9/16/2014 42049-1
		CS	MS	FAV										
Aroclor 1232	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.19	< 0.21	< 0.21	NA	NA	NA	NA
Aroclor 1242	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.19	< 0.21	< 0.21	NA	NA	NA	NA
Aroclor 1248	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.19	< 0.21	< 0.21	NA	NA	NA	NA
Aroclor 1254	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.19	< 0.21	< 0.21	NA	NA	NA	NA
Aroclor 1260	0.04	0.000029	1	2	ug/l	< 0.20	< 0.20	< 0.19	< 0.21	< 0.21	NA	NA	NA	NA
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH														
Diesel Range Organics	100				ug/l	NA	**92 J**	< 95 UB	**170**	**85 J**	NA	NA	NA	NA
Gasoline Range Organics	100				ug/l	NA	< 100	< 100	< 100 UB	**57 J**	NA	NA	NA	NA
Other														
Cyanide	100	5.2	22	45	ug/l	NA	< 10	< 10 UB	NA	< 10	NA	NA	NA	NA
Cyanide, Free	100	5.2	22	45	ug/l	NA	NA	NA	< 5.0	NA	< 5.0	NA	NA	NA
Dissolved Organic Carbon					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs														
1,1-Biphenyl	300				ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
2,2-Oxybis(1-Chloropropane)					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
2,4,5-Trichlorophenol					ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
2,4-Dichlorophenol	20				ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
2,4-Dimethylphenol	100				ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
2,4-Dinitrophenol	10				ug/l	NA	NA	< 4.8	< 9.5	< 9.9	NA	NA	NA	NA
2,4-Dinitrotoluene					ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
2,6-Dinitrotoluene					ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
2-Chloronaphthalene					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
2-Chlorophenol	30				ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol					ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
2-Methylnaphthalene	8				ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
2-Methylphenol	30				ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
2-Nitroaniline					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
2-Nitrophenol					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
3,3-Dichlorobenzidine	0.8				ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
3-Nitroaniline					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
4-Bromophenyl phenyl ether					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
4-Chloro-3-Methylphenol					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
4-Chlorophenyl phenyl ether					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
4-Methylphenol	3				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
4-Nitrophenol					ug/l	NA	NA	< 4.8	< 9.5	< 9.9	NA	NA	NA	NA
Acenaphthene	400	20	56	112	ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Acenaphthylene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Acetophenone					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
Anthracene	2,000	0.035	0.32	0.63	ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Atrazine	3	10	323	645	ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
Benz(a)anthracene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Benzaldehyde					ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
Benzo(a)pyrene	0.06				ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Benzo(b)fluoranthene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Benzo(g,h,i)perylene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Benzo(k)fluoranthene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
bis(2-Chloroethoxy)methane					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.3				ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA

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		CS	MS	FAV										
bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
Butyl benzyl phthalate	100				ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
Caprolactam					ug/l	NA	NA	< 4.8 R	**0.69 J**	< 5.0	NA	NA	NA	NA
Carbazole					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
Chrysene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Dibenz(a,h)anthracene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Dibenzofuran					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
Diethyl phthalate	6,000				ug/l	NA	NA	< 1.9	< 4.8	< 5.0	NA	NA	NA	NA
Dimethyl phthalate	70,000				ug/l	NA	NA	< 1.9	< 1.9	< 2.0	NA	NA	NA	NA
Di-n-butyl phthalate	20				ug/l	NA	NA	< 4.8	< 4.8	< 5.0	NA	NA	NA	NA
Di-n-octyl phthalate		30	825	1,650	ug/l	NA	NA	< 1.9 J	< 1.9	< 2.0	NA	NA	NA	NA
Fluoranthene	300	1.9	3.5	6.9	ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Fluorene	300				ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Hexachloro-1,3-butadiene	1				ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
Hexachlorobenzene	0.2	0.00024			ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Hexachlorocyclopentadiene					ug/l	NA	NA	< 9.5	< 9.5	< 9.9	NA	NA	NA	NA
Hexachloroethane					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene					ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Isophorone	100				ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
Naphthalene	70	81	409	818	ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Nitrobenzene					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
N-Nitrosodi-n-propylamine					ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
N-Nitrosodiphenylamine	70				ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
p-Chloroaniline					ug/l	NA	NA	< 1.9 R	< 1.9	< 2.0	NA	NA	NA	NA
Pentachlorophenol	0.3				ug/l	NA	NA	< 4.8	< 9.5	< 9.9	NA	NA	NA	NA
Phenanthrene		3.6	32	64	ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
Phenol	4,000	123	2,214	4,428	ug/l	NA	NA	< 0.95	< 0.95	< 0.99	NA	NA	NA	NA
Pyrene	200				ug/l	NA	NA	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	NA	NA	<	<	<	NA	NA	NA	NA
VOCs														
1,1,1,2-Tetrachloroethane	70				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.36 J**	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	0.004				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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		CS	MS	FAV										
2-Butanone (MEK)	4,000				ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	< 5.0 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	4,000				ug/l	< 10	< 10	**1.9 J**	< 10	**6.3 J**	< 10	< 10	< 10	< 10
Allyl chloride	30				ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.36 J**	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	700				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	**0.40 J**	**0.43 J**	< 1.0	< 1.0	**0.37 J**
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100	20	423	846	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.44 J**	< 1.0	< 1.0	< 1.0
Chloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.4**	< 1.0
cis-1,2-Dichloroethene	6				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene					ug/l	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.13 J**	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0
Dichloromonofluoromethane	30				ug/l	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Diethyl ether	200				ug/l	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	50	68	1,859	3,717	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	60				ug/l	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	70	81	409	818	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.19 J**	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.39 J**	**0.32 J**	< 1.0
Tetrahydrofuran					ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**11**	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	40				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	0.4	120	6,988	13,976	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**15**	**3.2**	< 1.0
Vinyl chloride	0.2	9.2			ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters CS	MS	FAV	Units	AMW-05 AMW-05(20180523) 5/23/2018 96083-1	AMW-05B AMW-05B(20070724) 7/24/2007 A7G250252	AMW-05B AMW-05B(12172007) 12/17/2007 A7L180274	AMW-05B AMW-05B(20080311) 3/11/2008 8C13254	AMW-05B AMW-05B(20080910) 9/10/2008 A8I120347	AMW-05B AMW-05B(20091006) 10/6/2009 A9J080262	AMW-05B AMW-05B (20140703) 7/3/2014 39273-1	AMW-05B AMW-05B (20140806) 8/6/2014 40552-1	AMW-05B AMW-05B (20160609) 6/9/2016 65968-2
Metals, Dissolved														
Aluminum		1,500		3,000	ug/l	**2,300**	NA	NA	NA	NA	NA	< 200	< 200	< 200
Antimony	6	31	90	180	ug/l	< 20	NA	NA	NA	NA	NA	< 10	< 10	< 10
Arsenic	10	53	360	720	ug/l	< 10	NA	< 10	< 10.0	< 10.0	NA	< 10	< 10	< 10
Barium	2,000				ug/l	**41 J**	NA	**82.3 J**	**79.7 J**	**61.9 J**	NA	**70 J**	**54 J**	**55 J**
Beryllium	0.08				ug/l	**0.68 J**	NA	NA	NA	NA	NA	< 5.0	< 5.0	< 5.0
Boron	1,000				ug/l	**120**	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	**0.47 J**	NA	< 5	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0
Calcium					ug/l	**70,000**	NA	NA	NA	NA	NA	**250,000**	**130,000**	**140,000**
Chromium	100	11	16	32	ug/l	**13**	NA	**4.2 J**	**3.4 J**	< 10.0	NA	< 10	**2.4 J**	**1.2 J**
Cobalt	30	5	436	872	ug/l	< 10	NA	NA	NA	NA	NA	< 7.0	**6.3 J**	**6.5 J**
Copper	1,000	14	31	62	ug/l	**7.6 J**	NA	NA	NA	NA	NA	< 25	< 25	< 25
Iron					ug/l	**4,300**	NA	NA	NA	NA	NA	**300**	**6,000**	**7,100**
Lead	15	7	173	346	ug/l	**3.6**	NA	< 3	< 3.0	< 3.0	NA	< 3.0	< 3.0	< 3.0
Magnesium					ug/l	**34,000**	NA	NA	NA	NA	NA	**60,000**	**40,000**	**44,000**
Manganese	100				ug/l	**62**	NA	NA	NA	NA	NA	**25**	**190**	**200**
Mercury		0.0069	2.4	4.9	ug/l	< 0.20	NA	< 0.2	< 0.20	< 0.20	NA	< 0.20	< 0.20	< 0.20
Nickel	100	259	2,332	4,664	ug/l	**13 J**	NA	NA	NA	NA	NA	**17 J**	**9.8 J**	**10 J**
Potassium					ug/l	**4,000 J**	NA	NA	NA	NA	NA	**14,000**	**2,900 J**	**3,600 J**
Selenium	30	5.0	20	40	ug/l	NA	NA	< 5	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 15
Silver	30	1	6	11	ug/l	< 10	NA	< 10	< 10.0	< 10.0	NA	< 10	< 10	< 10
Sodium					ug/l	**97,000**	NA	NA	NA	NA	NA	**170,000**	**23,000**	**39,000**
Thallium	0.6	0.56	64	128	ug/l	< 1.0	NA	NA	NA	NA	NA	< 10	< 10	< 10
Vanadium	50				ug/l	**8.0 J**	NA	NA	NA	NA	NA	< 7.0	< 7.0	< 10
Zinc	2,000	174	193	385	ug/l	**10 J**	NA	NA	NA	NA	NA	< 50	< 50	< 50
Metals, Total														
Aluminum		1,500		3,000	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	NA	< 10.0	< 10	NA	NA	NA	NA	NA	NA
Barium	2,000				ug/l	NA	**371**	**88.8 J**	NA	NA	NA	NA	NA	NA
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	**0.63 J**	< 5	NA	NA	NA	NA	NA	NA
Calcium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	NA	***54.6***	**7.9 J**	NA	NA	NA	NA	NA	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	NA	**77.6**	< 9.3	NA	NA	NA	NA	NA	NA
Magnesium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	NA	< 0.20	< 0.2	NA	NA	NA	NA	NA	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	NA	< 5.0	< 5	NA	NA	NA	NA	NA	NA
Silver	30	1	6	11	ug/l	NA	**2.4 J**	< 10	NA	NA	NA	NA	NA	NA
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs														
Aroclor 1016	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	< 0.2	< 0.20	< 0.20	< 0.20	NA	NA	< 0.19
Aroclor 1221	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	< 0.2	< 0.20	< 0.20	< 0.20	NA	NA	< 0.19

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		CS	MS	FAV										
Aroclor 1232	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	< 0.2	< 0.20	< 0.20	< 0.20	NA	NA	< 0.19
Aroclor 1242	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	< 0.2	< 0.20	< 0.20	< 0.20	NA	NA	< 0.19
Aroclor 1248	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	< 0.2	< 0.20	< 0.20	< 0.20	NA	NA	< 0.19
Aroclor 1254	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	< 0.2	< 0.20	**0.97**	< 0.20	NA	NA	< 0.19
Aroclor 1260	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	< 0.2	< 0.20	< 0.20	< 0.20	NA	NA	< 0.19
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH														
Diesel Range Organics	100				ug/l	**280**	NA	NA	< 100	< 100	NA	NA	NA	**180**
Gasoline Range Organics	100				ug/l	**43 J**	NA	NA	< 100	< 100	NA	NA	NA	< 100
Other														
Cyanide	100	5.2	22	45	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 10
Cyanide, Free	100	5.2	22	45	ug/l	**2.2 J**	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Organic Carbon					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs														
1,1-Biphenyl	300				ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2,2-Oxybis(1-Chloropropane)					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2,4,5-Trichlorophenol					ug/l	< 5.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	< 5.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2,4-Dichlorophenol	20				ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2,4-Dimethylphenol	100				ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2,4-Dinitrophenol	10				ug/l	< 10	< 50	< 50	< 50	< 50	NA	NA	NA	NA
2,4-Dinitrotoluene					ug/l	< 5.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2,6-Dinitrotoluene					ug/l	< 5.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2-Chloronaphthalene					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2-Chlorophenol	30				ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol					ug/l	< 5.0	< 50	< 50	< 50	< 50	NA	NA	NA	NA
2-Methylnaphthalene	8				ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2-Methylphenol	30				ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
2-Nitroaniline					ug/l	< 2.0	< 50	< 50	< 50	< 50	NA	NA	NA	NA
2-Nitrophenol					ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
3,3-Dichlorobenzidine	0.8				ug/l	< 5.0	< 50	< 50	< 50	< 50	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol					ug/l	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline					ug/l	< 2.0	< 50	< 50	< 50	< 50	NA	NA	NA	NA
4-Bromophenyl phenyl ether					ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
4-Chloro-3-Methylphenol					ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
4-Chlorophenyl phenyl ether					ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
4-Methylphenol	3				ug/l	NA	< 10	< 10	< 10	< 10	NA	NA	NA	NA
4-Nitroaniline					ug/l	< 2.0	< 50	< 50	< 50	< 50	NA	NA	NA	NA
4-Nitrophenol					ug/l	< 10	< 50	< 50	< 50	< 50	NA	NA	NA	NA
Acenaphthene	400	20	56	112	ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Acenaphthylene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Acetophenone					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Anthracene	2,000	0.035	0.32	0.63	ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Atrazine	3	10	323	645	ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Benz(a)anthracene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Benzaldehyde					ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Benzo(a)pyrene	0.06				ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Benzo(b)fluoranthene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Benzo(g,h,i)perylene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Benzo(k)fluoranthene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
bis(2-Chloroethoxy)methane					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.3				ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA

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		CS	MS	FAV										
bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	< 5.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Butyl benzyl phthalate	100				ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Caprolactam					ug/l	< 5.0	< 10	< 10 J	< 10	< 10	NA	NA	NA	NA
Carbazole					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Chrysene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Dibenz(a,h)anthracene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Dibenzofuran					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Diethyl phthalate	6,000				ug/l	< 5.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Dimethyl phthalate	70,000				ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Di-n-butyl phthalate	20				ug/l	< 5.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Di-n-octyl phthalate		30	825	1,650	ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Fluoranthene	300	1.9	3.5	6.9	ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Fluorene	300				ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Hexachloro-1,3-butadiene	1				ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Hexachlorobenzene	0.2	0.00024			ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Hexachlorocyclopentadiene					ug/l	< 10	< 50	< 50	< 50	< 50 J	NA	NA	NA	NA
Hexachloroethane					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene					ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Isophorone	100				ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Naphthalene	70	81	409	818	ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Nitrobenzene					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
N-Nitrosodi-n-propylamine					ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
N-Nitrosodiphenylamine	70				ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
p-Chloroaniline					ug/l	< 2.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Pentachlorophenol	0.3				ug/l	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Phenanthrene		3.6	32	64	ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Phenol	4,000	123	2,214	4,428	ug/l	< 1.0	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Pyrene	200				ug/l	< 0.20	< 10	< 10	< 10	< 10	NA	NA	NA	NA
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	<	<	<	<	<	NA	NA	NA	NA
VOCs														
1,1,1,2-Tetrachloroethane	70				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0 J	< 1.0 J	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	**0.17 J**	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	0.004				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-05 AMW-05(20180523) 5/23/2018 96083-1	AMW-05B AMW-05B(20070724) 7/24/2007 A7G250252	AMW-05B AMW-05B(12172007) 12/17/2007 A7L180274	AMW-05B AMW-05B(20080311) 3/11/2008 8C13254	AMW-05B AMW-05B(20080910) 9/10/2008 A8I120347	AMW-05B AMW-05B(20091006) 10/6/2009 A9J080262	AMW-05B AMW-05B (20140703) 7/3/2014 39273-1	AMW-05B AMW-05B (20140806) 8/6/2014 40552-1	AMW-05B AMW-05B (20160609) 6/9/2016 65968-2
		CS	MS	FAV										
2-Butanone (MEK)	4,000				ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	< 10	< 5.0	< 5	< 5.0	< 5.0	< 5.0 J	< 10	< 10	< 10
Acetone	4,000				ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Allyl chloride	30				ug/l	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	10				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	700				ug/l	< 1.0	< 1.0	< 1	< 1.0	**0.95 J**	**0.31 J**	< 1.0	**0.18 J**	< 1.0
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
Chlorobenzene	100	20	423	846	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane					ug/l	< 1.0	**0.54 J**	< 1	< 1.0	< 1.0	< 1.0	< 1.0	**0.46 J**	< 1.0
cis-1,2-Dichloroethene	6				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0 J	< 1.0 J	< 1.0	< 1.0	< 1.0
Cyclohexane					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	< 5.0	< 1.0	< 1	< 1.0	**0.72 J**	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromonofluoromethane	30				ug/l	< 2.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0
Diethyl ether	200				ug/l	< 2.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	50	68	1,859	3,717	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	**0.52 J**	< 1.0
Isopropylbenzene	300				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	< 10	< 10	< 10	< 10 J	< 10	< 10 J	< 10	< 10	< 10
Methylcyclohexane					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	60				ug/l	< 1.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0
Naphthalene	70	81	409	818	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	< 1.0	< 1.0	< 1	< 1.0	**3.7**	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran					ug/l	< 5.0	< 5.0	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	40				ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	0.4	120	6,988	13,976	ug/l	**0.11 J**	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	**0.36 J**	**0.91 J**
Vinyl chloride	0.2	9.2			ug/l	< 1.0	< 1.0	< 1 J	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters CS	MS	FAV	Units	AMW-05B AMW-05B(20171215) 12/15/2017 89524-1	AMW-05B AMW-05B (20180329) 3/29/2018 93465-1	AMW-05B AMW-05B(20180523) 5/23/2018 96083-1	AMW-05B AMW-05B (20180828) 8/28/2018 100514-1	AMW-05B AMW-05B(20190321) 3/21/2019 109868-1	AMW-27 AMW-27 (20160211) 2/11/2016 40128259	AMW-27 DUP 01 (20160211) 2/11/2016 40128259	AMW-27 AMW-27_20160302 3/2/2016 61699-1	AMW-27 AMW-27(20160601) 6/1/2016 65573-1
Metals, Dissolved														
Aluminum		1,500		3,000	ug/l	< 200	NA	< 200	< 200	< 200	***4,810 J***	***3,880***	***4,800***	NA
Antimony	6	31	90	180	ug/l	< 10	NA	< 20	< 20	< 20	< 20.0	< 20.0	< 10	NA
Arsenic	10	53	360	720	ug/l	< 10	NA	< 10	< 10	< 10	< 20.0	< 20.0	**8.0 J**	NA
Barium	2,000				ug/l	**55 J**	NA	**64 J**	**54 J**	**65 J**	**166**	**168**	**170 J**	NA
Beryllium	0.08				ug/l	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 4.0	< 4.0	**0.13 J**	NA
Boron	1,000				ug/l	NA	NA	**94 J**	**110**	**59 J**	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	< 5.0	NA	**0.22 J**	**0.53 J**	**0.25 J**	< 5.0	< 5.0	**0.43 J**	NA
Calcium					ug/l	**130,000**	NA	**140,000**	**120,000**	**130,000**	**74,300**	**76,800**	**79,000**	NA
Chromium	100	11	16	32	ug/l	< 10	NA	< 10	< 10	< 10	< 10.0	< 10.0	**10**	NA
Cobalt	30	5	436	872	ug/l	**8.7**	NA	**5.9 J**	**19**	**3.3 J**	< 5.0	< 5.0	**5.1 J**	NA
Copper	1,000	14	31	62	ug/l	< 25	NA	< 25	< 25	< 25	**44.0**	**42.0**	**14 J**	NA
Iron					ug/l	**4,900**	NA	**15,000**	**7,200**	**5,000**	**5,110**	**3,960**	**1,600**	NA
Lead	15	7	173	346	ug/l	< 3.0	NA	< 3.0	< 3.0	< 3.0	< 12.0	< 12.0	**6.0**	NA
Magnesium					ug/l	**42,000**	NA	**46,000**	**41,000**	**40,000**	**18,600**	**19,100**	**18,000**	NA
Manganese	100				ug/l	**180**	NA	**210**	**200**	**210**	**256**	**251**	**350**	NA
Mercury		0.0069	2.4	4.9	ug/l	< 0.20	NA	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	NA
Nickel	100	259	2,332	4,664	ug/l	**11 J**	NA	**3.7 J**	**27 J**	**3.0 J**	**31.6**	**31.1**	**27 J**	NA
Potassium					ug/l	**4,000 J**	NA	**4,500 J**	**4,500 J**	**3,200 J**	**3,480**	**3,460**	**3,400 J**	NA
Selenium	30	5.0	20	40	ug/l	**1.1 J**	NA	NA	NA	NA	< 20.0	< 20.0	< 5.0	NA
Silver	30	1	6	11	ug/l	< 10	NA	< 10	< 10	< 10	< 10.0	< 10.0	< 10	NA
Sodium					ug/l	**38,000**	NA	**44,000**	**37,000**	**33,000**	**266,000**	**275,000**	**270,000**	NA
Thallium	0.6	0.56	64	128	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 40.0	< 40.0	< 10	NA
Vanadium	50				ug/l	< 10	NA	< 50	< 50	< 50	**11.8**	**10.5**	**18**	NA
Zinc	2,000	174	193	385	ug/l	< 50	NA	< 50	< 50	< 50	< 40.0	< 40.0	< 50	NA
Metals, Total														
Aluminum		1,500		3,000	ug/l	NA	**210**	NA	NA	NA	NA	NA	NA	**690**
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**7.0 J**
Arsenic	10	53	360	720	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**6.5 J**
Barium	2,000				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**67 J**
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0
Cadmium	0.5	2	65	130	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**0.30 J**
Calcium					ug/l	NA	**130,000**	NA	NA	NA	NA	NA	NA	**51,000**
Chromium	100	11	16	32	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**6.5 J**
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 7.0
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 25
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**2,300**
Lead	15	7	173	346	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0
Magnesium					ug/l	NA	**41,000**	NA	NA	NA	NA	NA	NA	**15,000**
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**330**
Mercury		0.0069	2.4	4.9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**9.3 J**
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**2,800 J**
Selenium	30	5.0	20	40	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 15
Silver	30	1	6	11	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 10
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**130,000**
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 10
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	**9.5 J**
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	< 50
PCBs														
Aroclor 1016	0.04	0.000029	1	2	ug/l	< 0.22	NA	< 0.20	< 0.19	NA	< 0.47 R	< 0.48 R	NA	< 0.38
Aroclor 1221	0.04	0.000029	1	2	ug/l	< 0.22	NA	< 0.20	< 0.19	NA	< 0.47 R	< 0.48 R	NA	< 0.38

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-05B AMW-05B(20171215) 12/15/2017 89524-1	AMW-05B AMW-05B (20180329) 3/29/2018 93465-1	AMW-05B AMW-05B(20180523) 5/23/2018 96083-1	AMW-05B AMW-05B (20180828) 8/28/2018 100514-1	AMW-05B AMW-05B(20190321) 3/21/2019 109868-1	AMW-27 AMW-27 (20160211) 2/11/2016 40128259	AMW-27 DUP 01 (20160211) 2/11/2016 40128259	AMW-27 AMW-27_20160302 3/2/2016 61699-1	AMW-27 AMW-27(20160601) 6/1/2016 65573-1
		CS	MS	FAV										
Aroclor 1232	0.04	0.000029	1	2	ug/l	< 0.22	NA	< 0.20	< 0.19	NA	< 0.47 R	< 0.48 R	NA	< 0.38
Aroclor 1242	0.04	0.000029	1	2	ug/l	< 0.22	NA	< 0.20	< 0.19	NA	< 0.47 R	< 0.48 R	NA	< 0.38
Aroclor 1248	0.04	0.000029	1	2	ug/l	< 0.22	NA	< 0.20	< 0.19	NA	< 0.47 R	< 0.48 R	NA	< 0.38
Aroclor 1254	0.04	0.000029	1	2	ug/l	< 0.22	NA	< 0.20	< 0.19	NA	< 0.47 R	< 0.48 R	NA	< 0.38
Aroclor 1260	0.04	0.000029	1	2	ug/l	< 0.22	NA	< 0.20	< 0.19	NA	< 0.47 R	< 0.48 R	NA	< 0.38
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	NA	NA	NA	NA	NA	< 0.47 R	< 0.48 R	NA	NA
TPH														
Diesel Range Organics	100				ug/l	< 95 UB	NA	< 95 UB	< 97 UB	NA	**910**	**1,200**	**500**	**550**
Gasoline Range Organics	100				ug/l	< 100	NA	**59 J**	**47 J**	NA	NA	NA	NA	< 100
Other														
Cyanide	100	5.2	22	45	ug/l	< 10 UB	NA	NA	< 10	NA	< 23	< 23	NA	< 10
Cyanide, Free	100	5.2	22	45	ug/l	NA	NA	< 5.0	NA	< 5.0	NA	NA	NA	NA
Dissolved Organic Carbon					ug/l	NA	**2,300**	NA	NA	NA	NA	NA	NA	NA
SVOCs														
1,1-Biphenyl	300				ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
2,2-Oxybis(1-Chloropropane)					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol					ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
2,4-Dichlorophenol	20				ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
2,4-Dimethylphenol	100				ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10				ug/l	< 4.8	NA	< 10 J	< 10	NA	NA	NA	NA	NA
2,4-Dinitrotoluene					ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
2,6-Dinitrotoluene					ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
2-Chloronaphthalene					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
2-Chlorophenol	30				ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
2-Methyl-4,6-dinitrophenol					ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
2-Methylnaphthalene	8				ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
2-Methylphenol	30				ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
2-Nitroaniline					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
2-Nitrophenol					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	0.8				ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
3-Nitroaniline					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
4-Methylphenol	3				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
4-Nitrophenol					ug/l	< 4.8	NA	< 9.5 J	< 10	NA	NA	NA	NA	NA
Acenaphthene	400	20	56	112	ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Acenaphthylene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Acetophenone					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
Anthracene	2,000	0.035	0.32	0.63	ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Atrazine	3	10	323	645	ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
Benz(a)anthracene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Benzaldehyde					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.06				ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Benzo(b)fluoranthene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Benzo(k)fluoranthene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.3				ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-05B AMW-05B(20171215) 12/15/2017 89524-1	AMW-05B AMW-05B (20180329) 3/29/2018 93465-1	AMW-05B AMW-05B(20180523) 5/23/2018 96083-1	AMW-05B AMW-05B (20180828) 8/28/2018 100514-1	AMW-05B AMW-05B(20190321) 3/21/2019 109868-1	AMW-27 AMW-27 (20160211) 2/11/2016 40128259	AMW-27 DUP 01 (20160211) 2/11/2016 40128259	AMW-27 AMW-27_20160302 3/2/2016 61699-1	AMW-27 AMW-27(20160601) 6/1/2016 65573-1
		CS	MS	FAV										
bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
Butyl benzyl phthalate	100				ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
Caprolactam					ug/l	< 4.8	NA	**1.9 J**	**2.9 J**	NA	NA	NA	NA	NA
Carbazole					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
Chrysene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Dibenzofuran					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
Diethyl phthalate	6,000				ug/l	< 1.9	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
Dimethyl phthalate	70,000				ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
Di-n-butyl phthalate	20				ug/l	< 4.8	NA	< 4.8 J	< 5.2	NA	NA	NA	NA	NA
Di-n-octyl phthalate		30	825	1,650	ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
Fluoranthene	300	1.9	3.5	6.9	ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Fluorene	300				ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Hexachloro-1,3-butadiene	1				ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
Hexachlorobenzene	0.2	0.00024			ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene					ug/l	< 9.6	NA	< 9.5 J	< 10	NA	NA	NA	NA	NA
Hexachloroethane					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene					ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Isophorone	100				ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
Naphthalene	70	81	409	818	ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Nitrobenzene					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine					ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	70				ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
p-Chloroaniline					ug/l	< 1.9	NA	< 1.9 J	< 2.1	NA	NA	NA	NA	NA
Pentachlorophenol	0.3				ug/l	< 4.8	NA	< 9.5 J	< 10	NA	NA	NA	NA	NA
Phenanthrene		3.6	32	64	ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
Phenol	4,000	123	2,214	4,428	ug/l	< 0.96	NA	< 0.95 J	< 1.0	NA	NA	NA	NA	NA
Pyrene	200				ug/l	< 0.19	NA	< 0.19 J	< 0.21	NA	NA	NA	NA	NA
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	<	NA	<	<	NA	NA	NA	NA	NA
VOCs														
1,1,1,2-Tetrachloroethane	70				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 2.0	< 2.0
1,2-Dibromoethane	0.004				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-05B AMW-05B(20171215) 12/15/2017 89524-1	AMW-05B AMW-05B (20180329) 3/29/2018 93465-1	AMW-05B AMW-05B(20180523) 5/23/2018 96083-1	AMW-05B AMW-05B (20180828) 8/28/2018 100514-1	AMW-05B AMW-05B(20190321) 3/21/2019 109868-1	AMW-27 AMW-27 (20160211) 2/11/2016 40128259	AMW-27 DUP 01 (20160211) 2/11/2016 40128259	AMW-27 AMW-27_20160302 3/2/2016 61699-1	AMW-27 AMW-27(20160601) 6/1/2016 65573-1
		CS	MS	FAV										
2-Butanone (MEK)	4,000				ug/l	< 10	NA	< 10	< 10	< 10	< 20.0	< 20.0	**0.80 J**	< 10
2-Chlorotoluene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	< 10	NA	< 10	< 10	< 10	< 20.0	< 20.0	< 10	< 10
Acetone	4,000				ug/l	< 10	NA	< 10	< 10	< 10	< 20.0	< 20.0	**3.3 J**	< 10
Allyl chloride	30				ug/l	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
Bromomethane	10				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
Carbon Disulfide	700				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100	20	423	846	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
Chloroethane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	**5.4**	**4.8**	**0.27 J**
Chloromethane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	6				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
Cyclohexane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	< 1.0	NA	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromonofluoromethane	30				ug/l	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 2.0
Diethyl ether	200				ug/l	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0	< 2.0	< 2.0
Ethylbenzene	50	68	1,859	3,717	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
Isopropylbenzene	300				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	< 10	NA	< 10	< 10	< 10	NA	NA	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	< 10	NA	< 10	< 10	< 10	NA	NA	< 10	< 10
Methylcyclohexane					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0
Methyl-tert-butylether	60				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.49 J**	**0.24 J**
Naphthalene	70	81	409	818	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran					ug/l	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	< 1.0	NA	< 1.0	< 1.0	**4.5**	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	40				ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 20.0	< 20.0	< 1.0	< 1.0
Trichloroethene	0.4	120	6,988	13,976	ug/l	**3.6**	NA	**0.53 J**	**1.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	0.2	9.2			ug/l	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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		CS	MS	FAV										
Metals, Dissolved														
Aluminum		1,500		3,000	ug/l	< 200	< 200	< 200	< 200	**1,080**	***4,000***	**140 J**	**54 J**	< 200
Antimony	6	31	90	180	ug/l	< 10	< 20	< 20	< 20	< 20.0	< 10	< 10	< 10	< 10
Arsenic	10	53	360	720	ug/l	< 10	**4.8 J**	**4.9 J**	< 10	< 20.0	< 10	< 10	< 10	< 10
Barium	2,000				ug/l	**48 J**	**80 J**	**77 J**	**71 J**	**108**	**97 J**	**36 J**	**34 J**	**41 J**
Beryllium	0.08				ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 5.0
Boron	1,000				ug/l	NA	NA	**46 J**	**66 J**	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Calcium					ug/l	**53,000**	**63,000**	**64,000**	**72,000**	**80,600**	**62,000**	**48,000**	**47,000**	**54,000**
Chromium	100	11	16	32	ug/l	**0.69 J**	**1.0 J**	< 10	**1.1 J**	< 10.0	**8.2 J**	**0.70 J**	**1.1 J**	< 10
Cobalt	30	5	436	872	ug/l	< 7.0	**0.94 J**	< 10	**3.7 J**	< 5.0	**3.1 J**	< 7.0	< 7.0	< 7.0
Copper	1,000	14	31	62	ug/l	< 25	< 25	< 25	< 25	**60.9**	**10 J**	< 25	< 25	< 25
Iron					ug/l	**1,500**	**3,100**	**820**	**4,900**	**2,870**	**2,900**	**1,700**	**1,600**	**4,700**
Lead	15	7	173	346	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 12.0	**3.1**	< 3.0	< 3.0	< 3.0
Magnesium					ug/l	**19,000**	**23,000**	**24,000**	**29,000**	**19,200**	**15,000**	**15,000**	**15,000**	**20,000**
Manganese	100				ug/l	**150**	**450**	**390**	**570**	**533**	**480**	**220**	**210**	**240**
Mercury		0.0069	2.4	4.9	ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	100	259	2,332	4,664	ug/l	**2.3 J**	**5.7 J**	**20 J**	**38 J**	**47.6**	**14 J**	**13 J**	**13 J**	**6.0 J**
Potassium					ug/l	**3,200 J**	**5,400**	**5,200**	**5,700**	**2,760**	**2,500 J**	**2,200 J**	**2,200 J**	**2,900 J**
Selenium	30	5.0	20	40	ug/l	< 5.0	NA	NA	NA	< 20.0	< 5.0	< 15	< 15	< 5.0
Silver	30	1	6	11	ug/l	< 10	< 10	< 10	**0.62 J**	< 10.0	< 10	< 10	< 10	< 10
Sodium					ug/l	**38,000**	**53,000**	**38,000**	**37,000**	**198,000**	**150,000**	**37,000**	**36,000**	**9,900**
Thallium	0.6	0.56	64	128	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 40.0	< 10	< 10	< 10	< 1.0
Vanadium	50				ug/l	< 10	< 50	< 50	< 50	< 5.0	**11**	< 10	< 10	< 10
Zinc	2,000	174	193	385	ug/l	< 50	< 50	< 50	< 50	**42.3**	< 50	< 50	< 50	< 50
Metals, Total														
Aluminum		1,500		3,000	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2,000				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	30	1	6	11	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs														
Aroclor 1016	0.04	0.000029	1	2	ug/l	< 0.19	< 0.21	< 0.21	NA	< 0.47	NA	< 4.1	< 4.0	< 0.19
Aroclor 1221	0.04	0.000029	1	2	ug/l	< 0.19	< 0.21	< 0.21	NA	< 0.47	NA	< 4.1	< 4.0	< 0.19

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		CS	MS	FAV										
Aroclor 1232	0.04	0.000029	1	2	ug/l	< 0.19	< 0.21	< 0.21	NA	< 0.47	NA	< 4.1	< 4.0	< 0.19
Aroclor 1242	0.04	0.000029	1	2	ug/l	< 0.19	< 0.21	< 0.21	NA	< 0.47	NA	< 4.1	< 4.0	< 0.19
Aroclor 1248	0.04	0.000029	1	2	ug/l	< 0.19	< 0.21	< 0.21	NA	< 0.47	NA	< 4.1	< 4.0	< 0.19
Aroclor 1254	0.04	0.000029	1	2	ug/l	< 0.19	< 0.21	< 0.21	NA	< 0.47	NA	< 4.1	< 4.0	< 0.19
Aroclor 1260	0.04	0.000029	1	2	ug/l	< 0.19	< 0.21	< 0.21	NA	< 0.47	NA	< 4.1	< 4.0	< 0.19
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	NA	NA	NA	NA	< 0.47	NA	NA	NA	NA
TPH														
Diesel Range Organics	100				ug/l	< 96 UB	**120**	**89 J**	NA	**690**	**540**	**540**	**620**	**170 J**
Gasoline Range Organics	100				ug/l	< 100	< 100	< 100	NA	NA	NA	< 100	< 100	< 100
Other														
Cyanide	100	5.2	22	45	ug/l	< 10	NA	< 10	NA	< 23	NA	< 10	< 10	< 10
Cyanide, Free	100	5.2	22	45	ug/l	NA	< 5.0 J	NA	< 5.0	NA	NA	NA	NA	NA
Dissolved Organic Carbon					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs														
1,1-Biphenyl	300				ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
2,2-Oxybis(1-Chloropropane)					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
2,4,5-Trichlorophenol					ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
2,4-Dichlorophenol	20				ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
2,4-Dimethylphenol	100				ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
2,4-Dinitrophenol	10				ug/l	< 4.8	< 10	< 9.8	NA	NA	NA	NA	NA	< 4.8
2,4-Dinitrotoluene					ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
2,6-Dinitrotoluene					ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
2-Chloronaphthalene					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
2-Chlorophenol	30				ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
2-Methyl-4,6-dinitrophenol					ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
2-Methylnaphthalene	8				ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
2-Methylphenol	30				ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
2-Nitroaniline					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
2-Nitrophenol					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
3,3-Dichlorobenzidine	0.8				ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
3-Methylphenol, 4-Methylphenol					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
3-Nitroaniline					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
4-Bromophenyl phenyl ether					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
4-Chloro-3-Methylphenol					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
4-Chlorophenyl phenyl ether					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
4-Methylphenol	3				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
4-Nitrophenol					ug/l	< 4.8	< 10	< 9.8	NA	NA	NA	NA	NA	< 4.8
Acenaphthene	400	20	56	112	ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Acenaphthylene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Acetophenone					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
Anthracene	2,000	0.035	0.32	0.63	ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Atrazine	3	10	323	645	ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
Benz(a)anthracene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Benzaldehyde					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
Benzo(a)pyrene	0.06				ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Benzo(b)fluoranthene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Benzo(g,h,i)perylene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Benzo(k)fluoranthene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
bis(2-Chloroethoxy)methane					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
bis(2-Chloroethyl)ether	0.3				ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95

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		CS	MS	FAV										
bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
Butyl benzyl phthalate	100				ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
Caprolactam					ug/l	< 4.8	**19**	**14**	NA	NA	NA	NA	NA	R
Carbazole					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
Chrysene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Dibenz(a,h)anthracene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Dibenzofuran					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
Diethyl phthalate	6,000				ug/l	< 1.9	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 1.9
Dimethyl phthalate	70,000				ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
Di-n-butyl phthalate	20				ug/l	< 4.8	< 5.1	< 4.9	NA	NA	NA	NA	NA	< 4.8
Di-n-octyl phthalate		30	825	1,650	ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
Fluoranthene	300	1.9	3.5	6.9	ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Fluorene	300				ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Hexachloro-1,3-butadiene	1				ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
Hexachlorobenzene	0.2	0.00024			ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Hexachlorocyclopentadiene					ug/l	< 9.6	< 10	< 9.8	NA	NA	NA	NA	NA	< 9.5
Hexachloroethane					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
Indeno(1,2,3-cd)pyrene					ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Isophorone	100				ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
Naphthalene	70	81	409	818	ug/l	< 0.19	**0.38**	< 0.20	NA	NA	NA	NA	NA	< 0.19
Nitrobenzene					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
N-Nitrosodi-n-propylamine					ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
N-Nitrosodiphenylamine	70				ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
p-Chloroaniline					ug/l	< 1.9	< 2.0	< 2.0	NA	NA	NA	NA	NA	< 1.9
Pentachlorophenol	0.3				ug/l	< 4.8	< 10	< 9.8	NA	NA	NA	NA	NA	< 4.8
Phenanthrene		3.6	32	64	ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
Phenol	4,000	123	2,214	4,428	ug/l	< 0.96	< 1.0	< 0.98	NA	NA	NA	NA	NA	< 0.95
Pyrene	200				ug/l	< 0.19	< 0.20	< 0.20	NA	NA	NA	NA	NA	< 0.19
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	<	<	<	NA	NA	NA	NA	NA	<
VOCs														
1,1,1,2-Tetrachloroethane	70				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	0.004				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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		CS	MS	FAV										
2-Butanone (MEK)	4,000				ug/l	< 10	< 10	< 10	< 10	< 20.0	< 10	< 10	< 10	< 10
2-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	< 10	< 10	< 10	< 5.0	< 20.0	< 10	< 5.0	< 5.0	< 10
Acetone	4,000				ug/l	< 10	< 10	**8.7 J**	< 10	< 20.0	< 10	< 10	< 10	< 10
Allyl chloride	30				ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0 J
Bromomethane	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	700				ug/l	< 1.0	**0.46 J**	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100	20	423	846	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	**1.1**	< 1.0	< 1.0	< 1.0
Chloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	6				ug/l	**0.33 J**	**0.27 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	NA	**1.2**	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromonofluoromethane	30				ug/l	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0
Diethyl ether	200				ug/l	< 2.0	< 2.0	< 2.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	< 2.0
Ethylbenzene	50	68	1,859	3,717	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methylcyclohexane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	NA	**10**	**1.0**	**1.2**	< 1.0
Methyl-tert-butylether	60				ug/l	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	**0.36 J**	< 2.0	< 2.0	< 1.0
Naphthalene	70	81	409	818	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran					ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	< 1.0	< 1.0	< 1.0	**10**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	40				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0 J
Trichloroethene	0.4	120	6,988	13,976	ug/l	< 1.0	< 1.0	< 1.0 UB	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	0.2	9.2			ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Metals, Dissolved														
Aluminum		1,500		3,000	ug/l	< 200 UB	< 200	< 200	14,200	2,900	13,000	39,000	42,000	34,000
Antimony	6	31	90	180	ug/l	< 20	< 20	< 20	< 20.0	< 10	< 10	< 10	< 20	< 20
Arsenic	10	53	360	720	ug/l	< 10	< 10	< 10	< 20.0	< 10	< 10	< 10	< 10	< 10
Barium	2,000				ug/l	40 J	39 J	44 J	191	95 J	88 J	18 J	21 J	15 J
Beryllium	0.08				ug/l	< 5.0	< 5.0	< 5.0	< 4.0	0.42 J	1.6 J	3.0 J	3.7 J	2.9 J
Boron	1,000				ug/l	95 J	72 J	78 J	NA	NA	NA	NA	250	230
Cadmium	0.5	2	65	130	ug/l	< 5.0	< 5.0	0.24 J	< 5.0	0.48 J	1.1 J	0.77 J	0.91 J	0.71 J
Calcium					ug/l	67,000	62,000	61,000	76,200	51,000	61,000	48,000	50,000	38,000
Chromium	100	11	16	32	ug/l	< 10	< 10	< 10	< 10.0	3.9 J	1.2 J	4.0 J	3.0 J	2.2 J
Cobalt	30	5	436	872	ug/l	< 10	< 10	< 10	67.0	70	75	90	100	87
Copper	1,000	14	31	62	ug/l	< 25	< 25	8.7 J	130	3.8 J	40	90	77	72
Iron					ug/l	5,400	1,100	4,400	3,230	1,000	1,100	1,000	400	720
Lead	15	7	173	346	ug/l	< 3.0	< 3.0	< 3.0	< 12.0	3.1	< 3.0	4.9	3.1	3.2
Magnesium					ug/l	24,000	22,000	22,000	22,500	21,000	26,000	24,000	27,000	22,000
Manganese	100				ug/l	250	230	210	1,400	1,300	1,400	900	880	750
Mercury		0.0069	2.4	4.9	ug/l	< 0.20	< 0.20 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	100	259	2,332	4,664	ug/l	12 J	10 J	3.2 J	328	310	320	390	400	320
Potassium					ug/l	2,800 J	2,400 J	2,600 J	5,730	6,000	5,800	4,800 J	5,800	4,600 J
Selenium	30	5.0	20	40	ug/l	NA	NA	NA	< 20.0	< 5.0	< 15	1.7 J	NA	NA
Silver	30	1	6	11	ug/l	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10
Sodium					ug/l	4,300 J	3,900 J	4,300 J	313,000	120,000	18,000	8,200	20,000	18,000
Thallium	0.6	0.56	64	128	ug/l	< 1.0	< 1.0	< 1.0	< 40.0	< 10	< 10	1.8	1.9	NA
Vanadium	50				ug/l	< 50	< 50	< 50	7.6	4.1 J	< 10	< 10	< 50	< 50
Zinc	2,000	174	193	385	ug/l	< 50	< 50	31 J	396	180	380	140	190	160
Metals, Total														
Aluminum		1,500		3,000	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2,000				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	30	1	6	11	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs														
Aroclor 1016	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	NA	< 0.48 R	NA	< 3.8	< 0.19	< 0.20	< 0.19
Aroclor 1221	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	NA	< 0.48 R	NA	< 3.8	< 0.19	< 0.20	< 0.19

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Aroclor 1232	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	NA	< 0.48 R	NA	< 3.8	< 0.19	< 0.20	< 0.19
Aroclor 1242	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	NA	< 0.48 R	NA	< 3.8	< 0.19	< 0.20	< 0.19
Aroclor 1248	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	NA	< 0.48 R	NA	< 3.8	< 0.19	< 0.20	< 0.19
Aroclor 1254	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	NA	< 0.48 R	NA	< 3.8	< 0.19	< 0.20	< 0.19
Aroclor 1260	0.04	0.000029	1	2	ug/l	< 0.19	< 0.20	NA	< 0.48 R	NA	< 3.8	< 0.19	< 0.20	< 0.19
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	NA	NA	NA	< 0.48 R	NA	NA	NA	NA	NA
TPH														
Diesel Range Organics	100				ug/l	**50 J**	**100**	NA	**1,000**	**350**	**940**	< 95 UB	**110**	**78 J**
Gasoline Range Organics	100				ug/l	< 100 UB	**42 J**	NA	NA	NA	**38 J**	< 100	**78 J**	**43 J**
Other														
Cyanide	100	5.2	22	45	ug/l	NA	< 10	NA	< 23	NA	**6.5 J**	< 10	NA	< 10
Cyanide, Free	100	5.2	22	45	ug/l	< 5.0	NA	< 5.0	NA	NA	NA	NA	**2.7 J**	NA
Dissolved Organic Carbon					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs														
1,1-Biphenyl	300				ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
2,2-Oxybis(1-Chloropropane)					ug/l	< 0.97	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
2,4,5-Trichlorophenol					ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
2,4-Dichlorophenol	20				ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
2,4-Dimethylphenol	100				ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
2,4-Dinitrophenol	10				ug/l	< 9.7	< 9.9	NA	NA	NA	NA	< 4.8	< 10	< 11
2,4-Dinitrotoluene					ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
2,6-Dinitrotoluene					ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
2-Chloronaphthalene					ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
2-Chlorophenol	30				ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
2-Methyl-4,6-dinitrophenol					ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
2-Methylnaphthalene	8				ug/l	< 0.19 J	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
2-Methylphenol	30				ug/l	< 0.97	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
2-Nitroaniline					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
2-Nitrophenol					ug/l	< 1.9 J	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
3,3-Dichlorobenzidine	0.8				ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
3-Methylphenol, 4-Methylphenol					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
3-Nitroaniline					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
4-Bromophenyl phenyl ether					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
4-Chloro-3-Methylphenol					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
4-Chlorophenyl phenyl ether					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
4-Methylphenol	3				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
4-Nitrophenol					ug/l	< 9.7	< 9.9	NA	NA	NA	NA	< 4.8	< 10	< 11
Acenaphthene	400	20	56	112	ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Acenaphthylene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Acetophenone					ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
Anthracene	2,000	0.035	0.32	0.63	ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Atrazine	3	10	323	645	ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
Benz(a)anthracene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Benzaldehyde					ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
Benzo(a)pyrene	0.06				ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Benzo(b)fluoranthene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Benzo(g,h,i)perylene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Benzo(k)fluoranthene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
bis(2-Chloroethoxy)methane					ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
bis(2-Chloroethyl)ether	0.3				ug/l	< 0.97	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1

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		CS	MS	FAV										
bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
Butyl benzyl phthalate	100				ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
Caprolactam					ug/l	< 4.9	< 5.0 J	NA	NA	NA	NA	< 4.8	**9.4**	**1.0 J**
Carbazole					ug/l	< 0.97	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
Chrysene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Dibenz(a,h)anthracene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Dibenzofuran					ug/l	< 0.97	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
Diethyl phthalate	6,000				ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 1.9	< 5.1	< 5.3
Dimethyl phthalate	70,000				ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
Di-n-butyl phthalate	20				ug/l	< 4.9	< 5.0	NA	NA	NA	NA	< 4.8	< 5.1	< 5.3
Di-n-octyl phthalate		30	825	1,650	ug/l	< 1.9	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
Fluoranthene	300	1.9	3.5	6.9	ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Fluorene	300				ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Hexachloro-1,3-butadiene	1				ug/l	< 0.97	< 0.99 J	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
Hexachlorobenzene	0.2	0.00024			ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Hexachlorocyclopentadiene					ug/l	< 9.7	< 9.9	NA	NA	NA	NA	< 9.5	< 10	< 11
Hexachloroethane					ug/l	< 0.97	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
Indeno(1,2,3-cd)pyrene					ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Isophorone	100				ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
Naphthalene	70	81	409	818	ug/l	< 0.19 J	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Nitrobenzene					ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
N-Nitrosodi-n-propylamine					ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
N-Nitrosodiphenylamine	70				ug/l	< 0.97	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
p-Chloroaniline					ug/l	< 1.9 J	< 2.0	NA	NA	NA	NA	< 1.9	< 2.0	< 2.1
Pentachlorophenol	0.3				ug/l	< 9.7	< 9.9	NA	NA	NA	NA	< 4.8	< 10	< 11
Phenanthrene		3.6	32	64	ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
Phenol	4,000	123	2,214	4,428	ug/l	< 0.97 J	< 0.99	NA	NA	NA	NA	< 0.95	< 1.0	< 1.1
Pyrene	200				ug/l	< 0.19	< 0.20	NA	NA	NA	NA	< 0.19	< 0.20	< 0.21
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	<	<	NA	NA	NA	NA	<	<	<
VOCs														
1,1,1,2-Tetrachloroethane	70				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	0.004				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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See Notes and Abbreviations on Page 33.

Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-28 AMW-28 (20180529) 5/29/2018 96359-1	AMW-28 AMW-28 (20180823) 8/23/2018 100361-1	AMW-28 AMW-28 (20190327) 3/27/2019 110166-1	AMW-29 AMW-29 (20160212) 2/12/2016 40128259	AMW-29 AMW-29_20160303 3/3/2016 61699-1	AMW-29 AMW-29(20160603) 6/3/2016 65681-1	AMW-29 AMW-29(20171218) 12/18/2017 89649-1	AMW-29 AMW-29(20180524) 5/24/2018 96199-1	AMW-29 AMW-29 (20180824) 8/24/2018 100412-1
		CS	MS	FAV										
2-Butanone (MEK)	4,000				ug/l	< 10	< 10	< 10	< 20.0	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	< 10	< 10	< 10	< 20.0	< 10	< 5.0	< 10	< 10	< 10
Acetone	4,000				ug/l	< 10	< 10	< 10	< 20.0	< 10	< 10	**1.8 J**	< 10	< 10
Allyl chloride	30				ug/l	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	10				ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	700				ug/l	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	**30**	< 1.0
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100	20	423	846	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	6				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane					ug/l	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0
Dichloromonofluoromethane	30				ug/l	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0
Diethyl ether	200				ug/l	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	50	68	1,859	3,717	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane					ug/l	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	60				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Naphthalene	70	81	409	818	ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran					ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	< 1.0	< 1.0	**4.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	40				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	0.4	120	6,988	13,976	ug/l	< 1.0	< 1.0	< 1.0	**11.4**	**7.1**	**9.1**	**16**	**13**	**6.8**
Vinyl chloride	0.2	9.2			ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters CS	MS	FAV	Units	AMW-29 AMW-29(20180823) 8/24/2018 100412-2	AMW-29 AMW-29 (20190328) 3/28/2019 110204-1	AMW-30 AMW-30 (20160211) 2/11/2016 40128259	AMW-30 AMW-30_20160303 3/3/2016 61699-1	AMW-30 AMW-30(20160602) 6/2/2016 65672-1	AMW-30 AMW-30 (20171220) 12/20/2017 89734-1	AMW-30 AMW-30(20180531) 5/31/2018 96478-1	AMW-30 AMW-30 (20180822) 8/22/2018 100361-1	AMW-30 AMW-30 (20190328) 3/28/2019 110204-1
Metals, Dissolved														
Aluminum		1,500		3,000	ug/l	NA	27,000	9,500	4,000	29,000	33,000	42,000	36,000	45,000
Antimony	6	31	90	180	ug/l	NA	< 20	< 20.0	< 10	< 10	< 10	< 20	< 20	< 20
Arsenic	10	53	360	720	ug/l	NA	< 10	< 20.0	< 10	< 10	< 10	< 10	< 10	< 10
Barium	2,000				ug/l	NA	18 J	158	160 J	54 J	14 J	12 J	11 J	10 J
Beryllium	0.08				ug/l	NA	2.7 J	< 4.0	0.70 J	3.7 J	3.5 J	3.7 J	3.5 J	3.6 J
Boron	1,000				ug/l	NA	180	NA	NA	NA	NA	420	380	400
Cadmium	0.5	2	65	130	ug/l	NA	0.41 J	< 5.0	0.27 J	1.0 J	0.44 J	0.33 J	0.37 J	0.34 J
Calcium					ug/l	NA	32,000	108,000	130,000	120,000	67,000	68,000	60,000	75,000
Chromium	100	11	16	32	ug/l	NA	5.4 J	< 10.0	6.0 J	8.6 J	6.5 J	10	6.5 J	11
Cobalt	30	5	436	872	ug/l	NA	72	50.6	49	69	40	49	42	49
Copper	1,000	14	31	62	ug/l	NA	78	120	29	190	180	120	54	130
Iron					ug/l	NA	590	1,410	1,100	3,000	5,300	4,700	7,300	430
Lead	15	7	173	346	ug/l	NA	< 3.0	< 12.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Magnesium					ug/l	NA	26,000	37,000	42,000	45,000	30,000	34,000	29,000	36,000
Manganese	100				ug/l	NA	400	802	1,100	1,100	640	720	590	530
Mercury		0.0069	2.4	4.9	ug/l	NA	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	NA	< 0.20
Nickel	100	259	2,332	4,664	ug/l	NA	170	252	260	410	220	290	240	310
Potassium					ug/l	NA	4,400 J	11,600	12,000	13,000	13,000	14,000	12,000	15,000
Selenium	30	5.0	20	40	ug/l	NA	NA	< 20.0	< 5.0	< 15	4.1 J	NA	NA	NA
Silver	30	1	6	11	ug/l	NA	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10	0.78 J
Sodium					ug/l	NA	28,000	222,000	170,000	30,000	19,000	15,000	13,000	15,000
Thallium	0.6	0.56	64	128	ug/l	1.9	1.6	< 40.0	2.5 J	5.1 J	5.8	6.5	6.3	7.1
Vanadium	50				ug/l	NA	< 50	< 5.0	< 7.0	< 10	< 10	< 50	< 50	< 50
Zinc	2,000	174	193	385	ug/l	NA	140	133	79	190	92	99	76	94
Metals, Total														
Aluminum		1,500		3,000	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2,000				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.08				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	30	1	6	11	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs														
Aroclor 1016	0.04	0.000029	1	2	ug/l	NA	NA	< 0.47	NA	< 0.95	< 0.19	< 0.20	< 0.21	NA
Aroclor 1221	0.04	0.000029	1	2	ug/l	NA	NA	< 0.47	NA	< 0.95	< 0.19	< 0.20	< 0.21	NA

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		CS	MS	FAV										
Aroclor 1232	0.04	0.000029	1	2	ug/l	NA	NA	< 0.47	NA	< 0.95	< 0.19	< 0.20	< 0.21	NA
Aroclor 1242	0.04	0.000029	1	2	ug/l	NA	NA	< 0.47	NA	< 0.95	< 0.19	< 0.20	< 0.21	NA
Aroclor 1248	0.04	0.000029	1	2	ug/l	NA	NA	< 0.47	NA	< 0.95	< 0.19	< 0.20	< 0.21	NA
Aroclor 1254	0.04	0.000029	1	2	ug/l	NA	NA	< 0.47	NA	< 0.95	< 0.19	< 0.20	< 0.21	NA
Aroclor 1260	0.04	0.000029	1	2	ug/l	NA	NA	< 0.47	NA	< 0.95	< 0.19	< 0.20	< 0.21	NA
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	NA	NA	< 0.47	NA	NA	NA	NA	NA	NA
TPH														
Diesel Range Organics	100				ug/l	NA	NA	**220**	**180**	**720**	**230**	**55 J**	**29 J**	NA
Gasoline Range Organics	100				ug/l	NA	NA	NA	NA	**54 J**	< 100	< 100 UB	**55 J**	NA
Other														
Cyanide	100	5.2	22	45	ug/l	NA	NA	< 23	NA	< 10	< 10	NA	< 10	NA
Cyanide, Free	100	5.2	22	45	ug/l	NA	< 5.0	NA	NA	NA	NA	< 5.0	NA	< 5.0
Dissolved Organic Carbon					ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs														
1,1-Biphenyl	300				ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
2,2-Oxybis(1-Chloropropane)					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
2,4,5-Trichlorophenol					ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
2,4-Dichlorophenol	20				ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
2,4-Dimethylphenol	100				ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
2,4-Dinitrophenol	10				ug/l	NA	NA	NA	NA	NA	< 4.8	< 9.9	< 10	NA
2,4-Dinitrotoluene					ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
2,6-Dinitrotoluene					ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
2-Chloronaphthalene					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
2-Chlorophenol	30				ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
2-Methyl-4,6-dinitrophenol					ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
2-Methylnaphthalene	8				ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
2-Methylphenol	30				ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
2-Nitroaniline					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
2-Nitrophenol					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
3,3-Dichlorobenzidine	0.8				ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
3-Methylphenol, 4-Methylphenol					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
3-Nitroaniline					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Bromophenyl phenyl ether					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Chloro-3-Methylphenol					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Chlorophenyl phenyl ether					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Methylphenol	3				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Nitrophenol					ug/l	NA	NA	NA	NA	NA	< 4.8	< 9.9	< 10	NA
Acenaphthene	400	20	56	112	ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Acenaphthylene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Acetophenone					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
Anthracene	2,000	0.035	0.32	0.63	ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Atrazine	3	10	323	645	ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Benz(a)anthracene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzaldehyde					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Benzo(a)pyrene	0.06				ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzo(b)fluoranthene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzo(g,h,i)perylene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzo(k)fluoranthene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
bis(2-Chloroethoxy)methane					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
bis(2-Chloroethyl)ether	0.3				ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA

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bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
Butyl benzyl phthalate	100				ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Caprolactam					ug/l	NA	NA	NA	NA	NA	**1.5 J**	< 5.0	< 5.0	NA
Carbazole					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
Chrysene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Dibenz(a,h)anthracene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Dibenzofuran					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
Diethyl phthalate	6,000				ug/l	NA	NA	NA	NA	NA	< 1.9 UB	< 5.0	< 5.0	NA
Dimethyl phthalate	70,000				ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Di-n-butyl phthalate	20				ug/l	NA	NA	NA	NA	NA	< 4.8	< 5.0	< 5.0	NA
Di-n-octyl phthalate		30	825	1,650	ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Fluoranthene	300	1.9	3.5	6.9	ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Fluorene	300				ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Hexachloro-1,3-butadiene	1				ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0 J	NA
Hexachlorobenzene	0.2	0.00024			ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Hexachlorocyclopentadiene					ug/l	NA	NA	NA	NA	NA	< 9.6	< 9.9	< 10	NA
Hexachloroethane					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
Indeno(1,2,3-cd)pyrene					ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Isophorone	100				ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
Naphthalene	70	81	409	818	ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Nitrobenzene					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
N-Nitrosodi-n-propylamine					ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
N-Nitrosodiphenylamine	70				ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
p-Chloroaniline					ug/l	NA	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Pentachlorophenol	0.3				ug/l	NA	NA	NA	NA	NA	< 4.8	< 9.9	< 10	NA
Phenanthrene		3.6	32	64	ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Phenol	4,000	123	2,214	4,428	ug/l	NA	NA	NA	NA	NA	< 0.96	< 0.99	< 1.0	NA
Pyrene	200				ug/l	NA	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	NA	NA	NA	NA	NA	<	<	<	NA
VOCs														
1,1,1,2-Tetrachloroethane	70				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	NA	< 2.0 J	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J
1,2-Dibromoethane	0.004				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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		CS	MS	FAV										
2-Butanone (MEK)	4,000				ug/l	NA	< 10	< 20.0	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	NA	< 10	< 20.0	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	4,000				ug/l	NA	< 10	< 20.0	< 10	< 10	**3.7 J**	< 10	< 10	< 10
Allyl chloride	30				ug/l	NA	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	10				ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	700				ug/l	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100	20	423	846	ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	NA	< 1.0	< 5.0	**0.99 J**	< 1.0	< 1.0	**0.16 J**	**0.15 J**	**0.23 J**
Chloromethane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	6				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.16 J**	**0.24 J**
cis-1,3-Dichloropropene					ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane					ug/l	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0
Dichloromonofluoromethane	30				ug/l	NA	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Diethyl ether	200				ug/l	NA	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	50	68	1,859	3,717	ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	300				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	NA	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	NA	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane					ug/l	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	60				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	70	81	409	818	ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	NA	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	NA	< 1.0	< 1.0	**0.64 J**	**0.84 J**	**0.72 J**	**0.49 J**	**0.38 J**	**0.57 J**
Tetrahydrofuran					ug/l	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	NA	**3.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.6**
trans-1,2-Dichloroethene	40				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	NA	< 1.0	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	0.4	120	6,988	13,976	ug/l	NA	**6.7**	**24.5**	**22**	**34**	**34**	**24**	**20**	**34**
Vinyl chloride	0.2	9.2			ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters CS	MS	FAV	Units	AMW-31 AMW-31 (20160212) 2/12/2016 40128259	AMW-31 AMW-31_20160303 3/3/2016 61699-1	AMW-31 DUP-1_20160303 3/3/2016 61699-1	AMW-31 AMW-31(20160601) 6/1/2016 65573-1	AMW-31 AMW-31 (20171220) 12/20/2017 89734-1	AMW-31 AMW-31(20180601) 6/1/2018 96478-1	AMW-31 AMW-31 (20180827) 8/27/2018 100514-1	AMW-31 AMW-31 (20190328) 3/28/2019 110204-1
Metals, Dissolved													
Aluminum		1,500		3,000	ug/l	< 500	< 200	< 200	NA	< 200	< 200	< 200	< 200
Antimony	6	31	90	180	ug/l	< 20.0	< 10	< 10	NA	< 10	< 20	< 20	< 20
Arsenic	10	53	360	720	ug/l	< 20.0	< 10	< 10	NA	< 10	< 10	< 10	< 10
Barium	2,000				ug/l	**35.3**	**31 J**	**33 J**	NA	**81 J**	**93 J**	**76 J**	**120 J**
Beryllium	0.08				ug/l	< 4.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Boron	1,000				ug/l	NA	NA	NA	NA	NA	**45 J**	**33 J**	**27 J**
Cadmium	0.5	2	65	130	ug/l	< 5.0	< 5.0	< 5.0	NA	**0.23 J**	< 5.0	**0.20 J**	< 5.0
Calcium					ug/l	**38,900**	**49,000**	**44,000**	NA	**87,000**	**87,000**	**68,000**	**96,000**
Chromium	100	11	16	32	ug/l	< 10.0	**1.3 J**	**0.73 J**	NA	< 10	**1.2 J**	< 10	**0.71 J**
Cobalt	30	5	436	872	ug/l	< 5.0	**0.98 J**	**0.96 J**	NA	< 7.0	< 10	< 10	**0.95 J**
Copper	1,000	14	31	62	ug/l	**12.9**	**3.3 J**	**3.9 J**	NA	< 25	**9.1 J**	< 25	< 25
Iron					ug/l	**433**	**1,100**	**470**	NA	**1,100**	**2,300**	**1,200**	**2,200**
Lead	15	7	173	346	ug/l	< 12.0	< 3.0	< 3.0	NA	< 3.0	< 3.0	< 3.0	< 3.0
Magnesium					ug/l	**11,600**	**15,000**	**13,000**	NA	**25,000**	**24,000**	**20,000**	**27,000**
Manganese	100				ug/l	**286**	**480**	**400**	NA	**790**	**850**	**590**	**870**
Mercury		0.0069	2.4	4.9	ug/l	< 0.20	< 0.20	< 0.20	NA	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	100	259	2,332	4,664	ug/l	< 10.0	**4.1 J**	**4.4 J**	NA	**2.4 J**	< 40	**2.2 J**	< 40
Potassium					ug/l	**11,700**	**4,600 J**	**4,400 J**	NA	**6,300**	**3,200 J**	**2,800 J**	**3,300 J**
Selenium	30	5.0	20	40	ug/l	< 20.0	< 5.0	< 5.0	NA	< 5.0	NA	NA	NA
Silver	30	1	6	11	ug/l	< 10.0	< 10	< 10	NA	< 10	< 10	< 10	**1.2 J**
Sodium					ug/l	**162,000**	**140,000**	**130,000**	NA	**160,000**	**190,000**	**160,000**	**240,000**
Thallium	0.6	0.56	64	128	ug/l	< 40.0	**2.5 J**	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	50				ug/l	< 5.0	< 7.0	< 7.0	NA	**8.8 J**	< 50	< 50	< 50
Zinc	2,000	174	193	385	ug/l	< 40.0	< 50	< 50	NA	< 50	< 50	< 50	< 50
Metals, Total													
Aluminum		1,500		3,000	ug/l	NA	NA	NA	< 200	NA	NA	NA	NA
Antimony	6	31	90	180	ug/l	NA	NA	NA	< 10	NA	NA	NA	NA
Arsenic	10	53	360	720	ug/l	NA	NA	NA	< 10	NA	NA	NA	NA
Barium	2,000				ug/l	NA	NA	NA	**64 J**	NA	NA	NA	NA
Beryllium	0.08				ug/l	NA	NA	NA	< 5.0	NA	NA	NA	NA
Cadmium	0.5	2	65	130	ug/l	NA	NA	NA	< 5.0	NA	NA	NA	NA
Calcium					ug/l	NA	NA	NA	**65,000**	NA	NA	NA	NA
Chromium	100	11	16	32	ug/l	NA	NA	NA	< 10	NA	NA	NA	NA
Cobalt	30	5	436	872	ug/l	NA	NA	NA	< 7.0	NA	NA	NA	NA
Copper	1,000	14	31	62	ug/l	NA	NA	NA	< 25	NA	NA	NA	NA
Iron					ug/l	NA	NA	NA	**1,800**	NA	NA	NA	NA
Lead	15	7	173	346	ug/l	NA	NA	NA	< 3.0	NA	NA	NA	NA
Magnesium					ug/l	NA	NA	NA	**19,000**	NA	NA	NA	NA
Manganese	100				ug/l	NA	NA	NA	**640**	NA	NA	NA	NA
Mercury		0.0069	2.4	4.9	ug/l	NA	NA	NA	< 0.20	NA	NA	NA	NA
Nickel	100	259	2,332	4,664	ug/l	NA	NA	NA	**1.9 J**	NA	NA	NA	NA
Potassium					ug/l	NA	NA	NA	**4,300 J**	NA	NA	NA	NA
Selenium	30	5.0	20	40	ug/l	NA	NA	NA	< 15	NA	NA	NA	NA
Silver	30	1	6	11	ug/l	NA	NA	NA	< 10	NA	NA	NA	NA
Sodium					ug/l	NA	NA	NA	**120,000**	NA	NA	NA	NA
Thallium	0.6	0.56	64	128	ug/l	NA	NA	NA	< 10	NA	NA	NA	NA
Vanadium	50				ug/l	NA	NA	NA	< 10	NA	NA	NA	NA
Zinc	2,000	174	193	385	ug/l	NA	NA	NA	< 50	NA	NA	NA	NA
PCBs													
Aroclor 1016	0.04	0.000029	1	2	ug/l	< 0.48 R	NA	NA	< 3.8	< 1.9	< 0.20	< 0.22	NA
Aroclor 1221	0.04	0.000029	1	2	ug/l	< 0.48 R	NA	NA	< 3.8	< 1.9	< 0.20	< 0.22	NA

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		CS	MS	FAV									
Aroclor 1232	0.04	0.000029	1	2	ug/l	< 0.48 R	NA	NA	< 3.8	< 1.9	< 0.20	< 0.22	NA
Aroclor 1242	0.04	0.000029	1	2	ug/l	< 0.48 R	NA	NA	< 3.8	< 1.9	< 0.20	< 0.22	NA
Aroclor 1248	0.04	0.000029	1	2	ug/l	< 0.48 R	NA	NA	< 3.8	< 1.9	< 0.20	< 0.22	NA
Aroclor 1254	0.04	0.000029	1	2	ug/l	< 0.48 R	NA	NA	< 3.8	< 1.9	< 0.20	< 0.22	NA
Aroclor 1260	0.04	0.000029	1	2	ug/l	< 0.48 R	NA	NA	< 3.8	< 1.9	< 0.20	< 0.22	NA
Polychlorinated biphenyls	0.04	0.000029	1.0	2.0	ug/l	< 0.48 R	NA	NA	NA	NA	NA	NA	NA
TPH													
Diesel Range Organics	100				ug/l	**410**	**700**	**760**	**2,600**	**2,200**	**150**	**220 J**	NA
Gasoline Range Organics	100				ug/l	NA	NA	NA	< 100	< 100	< 100	**40 J**	NA
Other													
Cyanide	100	5.2	22	45	ug/l	< 23	NA	NA	< 10	< 10	NA	< 10	NA
Cyanide, Free	100	5.2	22	45	ug/l	NA	NA	NA	NA	NA	< 5.0	NA	< 5.0
Dissolved Organic Carbon					ug/l	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs													
1,1-Biphenyl	300				ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
2,2-Oxybis(1-Chloropropane)					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
2,4,5-Trichlorophenol					ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
2,4,6-Trichlorophenol	30	2.0	102	203	ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
2,4-Dichlorophenol	20				ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
2,4-Dimethylphenol	100				ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
2,4-Dinitrophenol	10				ug/l	NA	NA	NA	NA	< 4.8	< 10	< 10	NA
2,4-Dinitrotoluene					ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
2,6-Dinitrotoluene					ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
2-Chloronaphthalene					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
2-Chlorophenol	30				ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
2-Methyl-4,6-dinitrophenol					ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
2-Methylnaphthalene	8				ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
2-Methylphenol	30				ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
2-Nitroaniline					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
2-Nitrophenol					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
3,3-Dichlorobenzidine	0.8				ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
3-Methylphenol, 4-Methylphenol					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
3-Nitroaniline					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Bromophenyl phenyl ether					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Chloro-3-Methylphenol					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Chlorophenyl phenyl ether					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Methylphenol	3				ug/l	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
4-Nitrophenol					ug/l	NA	NA	NA	NA	< 4.8	< 10	< 10	NA
Acenaphthene	400	20	56	112	ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Acenaphthylene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Acetophenone					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
Anthracene	2,000	0.035	0.32	0.63	ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Atrazine	3	10	323	645	ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Benz(a)anthracene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzaldehyde					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Benzo(a)pyrene	0.06				ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzo(b)fluoranthene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzo(g,h,i)perylene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Benzo(k)fluoranthene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
bis(2-Chloroethoxy)methane					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
bis(2-Chloroethyl)ether	0.3				ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA

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		CS	MS	FAV									
bis(2-Ethylhexyl)phthalate	6	2.1			ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
Butyl benzyl phthalate	100				ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Caprolactam					ug/l	NA	NA	NA	NA	**2.3 J**	< 5.0	**0.22 J**	NA
Carbazole					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
Chrysene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Dibenz(a,h)anthracene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Dibenzofuran					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
Diethyl phthalate	6,000				ug/l	NA	NA	NA	NA	< 1.9 UB	< 5.0	< 5.1	NA
Dimethyl phthalate	70,000				ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Di-n-butyl phthalate	20				ug/l	NA	NA	NA	NA	< 4.8	< 5.0	< 5.1	NA
Di-n-octyl phthalate		30	825	1,650	ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Fluoranthene	300	1.9	3.5	6.9	ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Fluorene	300				ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Hexachloro-1,3-butadiene	1				ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
Hexachlorobenzene	0.2	0.00024			ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Hexachlorocyclopentadiene					ug/l	NA	NA	NA	NA	< 9.6	< 10	< 10	NA
Hexachloroethane					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
Indeno(1,2,3-cd)pyrene					ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Isophorone	100				ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
Naphthalene	70	81	409	818	ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Nitrobenzene					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
N-Nitrosodi-n-propylamine					ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
N-Nitrosodiphenylamine	70				ug/l	NA	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA
p-Chloroaniline					ug/l	NA	NA	NA	NA	< 1.9	< 2.0	< 2.0	NA
Pentachlorophenol	0.3				ug/l	NA	NA	NA	NA	< 4.8	< 10	< 10	NA
Phenanthrene		3.6	32	64	ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
Phenol	4,000	123	2,214	4,428	ug/l	NA	NA	NA	NA	< 0.96	< 1.0	**0.25 J**	NA
Pyrene	200				ug/l	NA	NA	NA	NA	< 0.19	< 0.20	< 0.20	NA
BaP TEQ USEPA 1993 ND=0	0.06				ug/l	NA	NA	NA	NA	<	<	<	NA
VOCs													
1,1,1,2-Tetrachloroethane	70				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	9,000	329	2,957	5,913	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	2	13	1,127	2,253	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	200,000				ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	3				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	200				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene					ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.003				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	4				ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane					ug/l	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J
1,2-Dibromoethane	0.004				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1	190	45,050	90,100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	100				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	10				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

ARCADIS Design & Consultancy for natural and built assets

See Notes and Abbreviations on Page 33.

Location ID Sample ID Sample Date Lab SDG #	MDH Derived Values	Class 2B Waters			Units	AMW-31 AMW-31 (20160212) 2/12/2016 40128259	AMW-31 AMW-31_20160303 3/3/2016 61699-1	AMW-31 DUP-1_20160303 3/3/2016 61699-1	AMW-31 AMW-31(20160601) 6/1/2016 65573-1	AMW-31 AMW-31 (20171220) 12/20/2017 89734-1	AMW-31 AMW-31(20180601) 6/1/2018 96478-1	AMW-31 AMW-31 (20180827) 8/27/2018 100514-1	AMW-31 AMW-31 (20190328) 3/28/2019 110204-1
		CS	MS	FAV									
2-Butanone (MEK)	4,000				ug/l	< 20.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	300				ug/l	< 20.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	4,000				ug/l	< 20.0	**1.7 J**	< 10	< 10	**2.0 J**	< 10	< 10	< 10
Allyl chloride	30				ug/l	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	2	114	4,487	8,974	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	6				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	40	466	2,900	5,800	ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	10				ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	700				ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	1	5.9	1,750	3,500	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	2,000				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	700				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100	20	423	846	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	10				ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	30	155	1,392	2,784	ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	6				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UB	< 1.0
cis-1,3-Dichloropropene					ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	5	1,940	13,875	27,749	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0
Dichloromonofluoromethane	30				ug/l	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Diethyl ether	200				ug/l	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	50	68	1,859	3,717	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	1				ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	300				ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate					ug/l	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)					ug/l	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane					ug/l	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	60				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	70	81	409	818	ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	300				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene					ug/l	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene					ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4	8.9	428	857	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran					ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	200	253	1,352	2,703	ug/l	< 1.0	**0.46 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**
trans-1,2-Dichloroethene	40				ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene					ug/l	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	0.4	120	6,988	13,976	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UB	**1.5**
Vinyl chloride	0.2	9.2			ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment 3
Comprehensive Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

General Notes:

Bolded	= detected concentrations
Underlined	= Above Ford TCAP MDH Derived Values
Yellow Shading	= Above Class 2B Waters CS
Red Shading	= Above Class 2B Waters MS
Italics	= Above Class 2B Waters FAV

Acronyms and Abbreviations:

< = not detected above reporting detection limit
J = estimated result
NA = not analyzed
ND = not detected
NS = no standard
UB = determined non-detect at the reporting limit by Cadena validation

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