TETRA TECH

March 16, 2020

Mr. Eric Amadi
Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

RE: Q1 2020 Groundwater Sampling Event

Former Koppers Tar Plant and Wabash Alloys Site
9100 S. 5t11 Avenue, Oak Creek, WI
BRRTS # 02-41-553761, FID # 241379050
Connell VPLE BRRTS # 06-41-560058
Beazer VPLE BRRTS # 06-41-561509

City of Oak Creek Utility Corridor, Lot 1
9170 S. 5th Avenue, Oak Creek, WI
BRRTS # 02-41-561425, FID # 341074470
Beazer VPLE BRRTS # 06-41-561426

Dear Mr. Amadi:

As noted in our reponse to comments letter dated March 6, 2020, enclosed are the results of a site-wide groundwater sampling event that was performed to update groundwater quality data. Most of the wells show continued decreasing or stable trends.

Wells MW-130 and MW-134 located in the utility cooridor showed increased concentrations related to the presence of tar in those wells. As noted in our March 6 response, Beazer is prepared to implement an initial remedy to block migration of potentially impacted groundwater along the utility trench.

Well P-110 also showed an unexpected increase in concentrations. P-110 is nested with MW-109, both of which were installed at a location that was subsequently identified through aerial photgraphic anaylis as a former tar lagoon. We believe P-110 has been compromised and will be abandoned and replaced. Well abandonment will be conducted in accordance with NR 141.25, including complete removal of the well casing by drilling out the well casing. The replacement well will be installed to the east of P-110, outside the limits of the former tar lagoon. The replacement well will be double cased to prevent cross contamination. We will submit a work plan for the well abandonment/replacement work under separate cover for your approval prior to implementation.

TETRA TECH
175 North Corporate Drive, Suite 100, Brookfield, WI 53045
Tel 262.792.1282 Fax 262.792.1310 www.tetratech.com

Sincerely,

Tetra Tech, Inc.

Michael R. Noel, P.G.
Vice President, Principal Hydrogeologist

Enclosure

cc: Mike Bollinger, Beazer
Mike Slenska, Beazer
Mike Kellogg - Connell Aluminum Properties, LLC
Julie Zimdars - Ramboll
Larry Haskins - City of Oak Creek

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name			DNR ID # (BRRTS #)
Former Koppers Tar Plant and Wabash Alloys Site (Beazer VPLE)			06-41-561509/561426
Address	**City**	**State**	**ZIP Code**
9100 South 5th Avenue	Oak Creek	WI	53154

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Connell Aluminum Properties (Note that sampling was performed by the Responsible Party, Beazer East)

Address	City	State	ZIP Code
One International Place	Boston	MA	02110

Contact Person	Phone Number (include area code)
Michael Kellogg	(919) 744-7522

Person or company that collected samples

Tetra Tech Inc. (on behalf of Beazer East)

Sample Results (Results Attached)

Reason for Sampling: ○ Routine ◉ Other (define) Update

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	◉	○	◉
Diesel or Fuel Oil	○	◉	○	◉
Solvents	○	◉	○	◉
Heavy Metals	○	◉	○	◉
Pesticides	○	◉	○	◉
Other: Coal Tar	○	◉	◉	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	○	◉
Sub-slab	○	◉
Exterior Soil Gas	○	◉

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name
Tetra Tech Inc.	Noel	Michael

Address	City	State	ZIP Code
175 North Corporate Drive, Suite 100	Brookfield	WI	53045

Phone # (inc. area code)	Email
(262) 792-1282	Mike.noel@tetratech.com

Select which agency: (●) Natural Resources ( ) Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)
Amadi	Eric	

Address	City	State	ZIP Code
2300 North Martin Luther King Jr Drive	Milwaukee	WI	53212

Email
eric.amadi@wisconsin.gov

VOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-1	MW-101	MW-102	P-103	MW-104	MW-105	MW-107	MW-107 Dup
	PAL	ES	1/30/20	2/3/20	1/28/20	1/28/20	1/28/20	1/28/20	2/3/20	2/3/20
1,1,1,2-Tetrachloroethane	*7*	**70**	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<9.2	<9.2
1,1,1-Trichloroethane	*40*	**200**	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<7.6	<7.6
1,1,2,2-Tetrachloroethane	*0.02*	**0.2**	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<8.0
1,1,2-Trichloroethane	*0.5*	**5**	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<7.0	<7.0
1,1-Dichloroethane	*85*	**850**	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<8.2	<8.2
1,1-Dichloroethene	*0.7*	**7**	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<7.8	<7.8
1,1-Dichloropropene			<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<5.9	<5.9
1,2,3-Trichlorobenzene			<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<9.2	<9.2
1,2,3-Trichloropropane	*12*	**60**	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	*<8.3*	*<8.3*
1,2,4-Trichlorobenzene	*14*	**70**	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<6.8	<6.8
1,2,4-Trimethylbenzene	*96*	**480**	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	*260*	*220*
1,2-Dibromo-3-Chloropropane	*0.02*	**0.2**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<40
1,2-Dibromoethane (EDB)	*0.005*	**0.05**	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<7.7	<7.7
1,2-Dichlorobenzene	*60*	**600**	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<6.7	<6.7
1,2-Dichloroethane	*0.5*	**5**	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<7.8	<7.8
1,2-Dichloropropane	*0.5*	**5**	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<8.6	<8.6
1,3,5-Trimethylbenzene	*96*	**480**	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	47	41
1,3-Dichlorobenzene	*125*	**1250**	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<8.0
1,3-Dichloropropane	*0.02*	**0.2**	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<7.2	<7.2
1,4-Dichlorobenzene	*15*	**75**	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<7.3	<7.3
2,2-Dichloropropane			<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<8.9	<8.9
2-Chlorotoluene			<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<6.3	<6.3
4-Chlorotoluene			<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<7.0	<7.0
Benzene	*0.5*	**5**	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	**1700**	**1400**
Bromobenzene			<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<7.1	<7.1
Bromochloromethane			<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<8.6	<8.6
Bromodichloromethane	*0.06*	**0.6**	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<7.4	<7.4
Bromoform	*0.44*	**4.4**	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<9.7	<9.7
Bromomethane	*1*	**10**	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<16	<16
Carbon tetrachloride	*0.5*	**5**	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<7.7	<7.7
Chlorobenzene			<0.39	<0.39	<0.39	0.45	<0.39	<0.39	<7.7	<7.7
Chloroethane	*80*	**400**	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<10	<10
Chloroform	*0.6*	**6**	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<7.4	<7.4
Chloromethane	*0.3*	**3**	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<6.4	<6.4
cis-1,2-Dichloroethene	*7*	**70**	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<8.2	<8.2
cis-1,3-Dichloropropene			<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<8.3	<8.3
Dibromochloromethane			<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<9.8	<9.8
Dibromomethane			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<5.4	<5.4
Dichlorodifluoromethane	*200*	**1000**	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<13	<13
Ethylbenzene	*140*	**700**	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	*400*	*360*
Hexachlorobutadiene			<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<8.9	<8.9
Isopropyl ether			<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<5.5	<5.5
Isopropylbenzene			<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	20	17
Methyl tert-butyl ether	*12*	**60**	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<7.9	<7.9
Methylene Chloride	*0.5*	**5**	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<33	<33
Naphthalene	*10*	**100**	<0.34	0.95	<0.23	0.34	0.35	0.34	**7200**	**7200**
n-Butylbenzene			<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<7.8	<7.8
N-Propylbenzene			<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<8.3	<8.3
p-Isopropyltoluene			<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<7.2	<7.2
sec-Butylbenzene			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<8.0
Styrene	*10*	**100**	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<7.7	<7.7
tert-Butylbenzene			<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<8.0
Tetrachloroethene	*0.5*	**5**	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<7.4	<7.4
Toluene	*200*	**1000**	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	43	34
trans-1,2-Dichloroethene	*20*	**100**	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<7.0	<7.0
trans-1,3-Dichloropropene			<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<7.2	<7.2
Trichloroethene	*0.5*	**5**	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<3.3	<3.3
Trichlorofluoromethane			<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<8.5	<8.5
Vinyl chloride	*0.02*	**0.2**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<4.1	<4.1
Xylenes, Total	*1000*	**10000**	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	910	790

Italic: Value exceeds NR140 Preventive Action Limit
Bold: Value exceeds NR140 Enforcement Standard
J: Result is <RL but >MDL; concentration is approximate

VOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-108	MW-111	MW-112	MW-115	MW-116	MW-117	MW-118	MW-122
	PAL	ES	1/29/20	1/28/20	1/30/20	1/29/20	1/29/20	1/29/20	1/29/20	1/30/20
1,1,1,2-Tetrachloroethane	*7*	**70**	<0.46	<0.46	<0.46	<0.46	<0.46	<9.2	<0.46	<0.92
1,1,1-Trichloroethane	*40*	**200**	<0.38	<0.38	<0.38	<0.38	<0.38	<7.6	<0.38	<0.76
1,1,2,2-Tetrachloroethane	*0.02*	**0.2**	<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<0.40	<0.80
1,1,2-Trichloroethane	*0.5*	**5**	<0.35	<0.35	<0.35	<0.35	<0.35	<7.0	<0.35	<0.70
1,1-Dichloroethane	*85*	**850**	<0.41	<0.41	<0.41	<0.41	<0.41	<8.2	<0.41	<0.82
1,1-Dichloroethene	*0.7*	**7**	<0.39	<0.39	<0.39	<0.39	<0.39	<7.8	<0.39	<0.78
1,1-Dichloropropene			<0.30	<0.30	<0.30	<0.30	<0.30	<5.9	<0.30	<0.59
1,2,3-Trichlorobenzene			<0.46	<0.46	<0.46	<0.46	<0.46	<9.2	<0.46	<0.92
1,2,3-Trichloropropane	*12*	**60**	<0.41	<0.41	<0.41	<0.41	<0.41	<8.3	<0.41	<0.83
1,2,4-Trichlorobenzene	*14*	**70**	<0.34	<0.34	<0.34	<0.34	<0.34	<6.8	<0.34	<0.68
1,2,4-Trimethylbenzene	*96*	**480**	<0.36	<0.36	<0.36	<0.36	<0.36	*440*	<0.36	12
1,2-Dibromo-3-Chloropropane	*0.02*	**0.2**	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<4.0
1,2-Dibromoethane (EDB)	*0.005*	**0.05**	<0.39	<0.39	<0.39	<0.39	<0.39	<7.7	<0.39	<0.77
1,2-Dichlorobenzene	*60*	**600**	<0.33	<0.33	<0.33	<0.33	<0.33	<6.7	<0.33	<0.67
1,2-Dichloroethane	*0.5*	**5**	<0.39	<0.39	<0.39	<0.39	<0.39	<7.8	<0.39	<0.78
1,2-Dichloropropane	*0.5*	**5**	<0.43	<0.43	<0.43	<0.43	<0.43	<8.6	<0.43	<0.86
1,3,5-Trimethylbenzene	*96*	**480**	<0.25	<0.25	<0.25	<0.25	<0.25	*180*	<0.25	6.6
1,3-Dichlorobenzene	*125*	**1250**	<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<0.40	<0.80
1,3-Dichloropropane	*0.02*	**0.2**	<0.36	<0.36	<0.36	<0.36	<0.36	<7.2	<0.36	<0.72
1,4-Dichlorobenzene	*15*	**75**	<0.36	<0.36	<0.36	<0.36	<0.36	<7.3	<0.36	<0.73
2,2-Dichloropropane			<0.44	<0.44	<0.44	<0.44	<0.44	<8.9	<0.44	<0.89
2-Chlorotoluene			<0.31	<0.31	<0.31	<0.31	<0.31	<6.3	<0.31	<0.63
4-Chlorotoluene			<0.35	<0.35	<0.35	<0.35	<0.35	<7.0	<0.35	<0.70
Benzene	*0.5*	**5**	<0.15	<0.15	<0.15	<0.15	<0.15	**3200**	<0.15	**18**
Bromobenzene			<0.36	<0.36	<0.36	<0.36	<0.36	<7.1	<0.36	<0.71
Bromochloromethane			<0.43	<0.43	<0.43	<0.43	<0.43	<8.6	<0.43	<0.86
Bromodichloromethane	*0.06*	**0.6**	<0.37	<0.37	<0.37	<0.37	<0.37	<7.4	<0.37	<0.74
Bromoform	*0.44*	**4.4**	<0.48	<0.48	<0.48	<0.48	<0.48	<9.7	<0.48	<0.97
Bromomethane	*1*	**10**	<0.80	<0.80	<0.80	<0.80	<0.80	<16	<0.80	<1.6
Carbon tetrachloride	*0.5*	**5**	<0.38	<0.38	<0.38	<0.38	<0.38	<7.7	<0.38	<0.77
Chlorobenzene			<0.39	<0.39	<0.39	<0.39	<0.39	<7.7	<0.39	<0.77
Chloroethane	*80*	**400**	<0.51	<0.51	<0.51	<0.51	<0.51	<10	<0.51	<1.0
Chloroform	*0.6*	**6**	<0.37	<0.37	<0.37	<0.37	<0.37	<7.4	<0.37	<0.74
Chloromethane	*0.3*	**3**	<0.32	<0.32	<0.32	<0.32	<0.32	<6.4	<0.32	<0.64
cis-1,2-Dichloroethene	*7*	**70**	<0.41	<0.41	<0.41	<0.41	<0.41	<8.2	<0.41	<0.82
cis-1,3-Dichloropropene			<0.42	<0.42	<0.42	<0.42	<0.42	<8.3	<0.42	<0.83
Dibromochloromethane			<0.49	<0.49	<0.49	<0.49	<0.49	<9.8	<0.49	<0.98
Dibromomethane			<0.27	<0.27	<0.27	<0.27	<0.27	<5.4	<0.27	<0.54
Dichlorodifluoromethane	*200*	**1000**	<0.67	<0.67	<0.67	<0.67	<0.67	<13	<0.67	<1.3
Ethylbenzene	*140*	**700**	<0.18	<0.18	<0.18	<0.18	<0.18	*340*	<0.18	51
Hexachlorobutadiene			<0.45	<0.45	<0.45	<0.45	<0.45	<8.9	<0.45	<0.89
Isopropyl ether			<0.28	<0.28	<0.28	<0.28	<0.28	<5.5	<0.28	<0.55
Isopropylbenzene			<0.39	<0.39	<0.39	<0.39	<0.39	20	<0.39	5.3
Methyl tert-butyl ether	*12*	**60**	<0.39	<0.39	<0.39	<0.39	<0.39	<7.9	<0.39	<0.79
Methylene Chloride	*0.5*	**5**	<1.6	<1.6	<1.6	<1.6	<1.6	<33	<1.6	<3.3
Naphthalene	*10*	**100**	<0.34	<0.34	<0.34	<0.34	<0.34	**36000**	<0.34	**890**
n-Butylbenzene			<0.39	<0.39	<0.39	<0.39	<0.39	<7.8	<0.39	<0.78
N-Propylbenzene			<0.41	<0.41	<0.41	<0.41	<0.41	9.5	<0.41	<0.83
p-Isopropyltoluene			<0.36	<0.36	<0.36	<0.36	<0.36	<7.2	<0.36	<0.72
sec-Butylbenzene			<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<0.40	<0.80
Styrene	*10*	**100**	<0.39	<0.39	<0.39	<0.39	<0.39	<7.7	<0.39	<0.77
tert-Butylbenzene			<0.40	<0.40	<0.40	<0.40	<0.40	<8.0	<0.40	<0.80
Tetrachloroethene	*0.5*	**5**	<0.37	<0.37	<0.37	<0.37	<0.37	<7.4	<0.37	<0.74
Toluene	*200*	**1000**	<0.15	<0.15	<0.15	<0.15	<0.15	**2800**	<0.15	2.5
trans-1,2-Dichloroethene	*20*	**100**	<0.35	<0.35	<0.35	<0.35	<0.35	<7.0	<0.35	<0.70
trans-1,3-Dichloropropene			<0.36	<0.36	<0.36	<0.36	<0.36	<7.2	<0.36	<0.72
Trichloroethene	*0.5*	**5**	<0.16	<0.16	<0.16	<0.16	<0.16	<3.3	<0.16	<0.33
Trichlorofluoromethane			<0.43	<0.43	<0.43	<0.43	<0.43	*<8.5*	<0.43	<0.85
Vinyl chloride	*0.02*	**0.2**	<0.20	<0.20	<0.20	<0.20	<0.20	<4.1	<0.20	<0.41
Xylenes, Total	*1000*	**10000**	<0.22	<0.22	<0.22	<0.22	<0.22	*1800*	<0.22	14

Italic: Value exceeds NR140 Preventive Action Limit
Bold: Value exceeds NR140 Enforcement Standard
J: Result is <RL but >MDL; concentration is approximate

VOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-123	MW-125	MW-126	MW-127	MW-128	MW-129	MW-131	MW-132
	PAL	ES	1/30/20	1/29/20	02/03/20	02/03/20	01/31/20	02/03/20	02/03/20	01/31/20
1,1,1,2-Tetrachloroethane	*7*	**70**	<4.6	<4.6	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,1,1-Trichloroethane	*40*	**200**	<3.8	<3.8	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
1,1,2,2-Tetrachloroethane	*0.02*	**0.2**	<4.0	<4.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
1,1,2-Trichloroethane	*0.5*	**5**	<3.5	<3.5	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
1,1-Dichloroethane	*85*	**850**	<4.1	<4.1	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloroethene	*0.7*	**7**	<3.9	<3.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,1-Dichloropropene			<3.0	<3.0	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2,3-Trichlorobenzene			<4.6	<4.6	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,2,3-Trichloropropane	*12*	**60**	<4.1	*<4.1*	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,2,4-Trichlorobenzene	*14*	**70**	<3.4	<3.4	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2,4-Trimethylbenzene	*96*	**480**	*110*	*99*	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dibromo-3-Chloropropane	*0.02*	**0.2**	<20	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	*0.005*	**0.05**	<3.9	<3.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,2-Dichlorobenzene	*60*	**600**	<3.3	<3.3	<0.33	<0.33	<0.33	<0.33	<0.33	1.9
1,2-Dichloroethane	*0.5*	**5**	<3.9	<3.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,2-Dichloropropane	*0.5*	**5**	<4.3	<4.3	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
1,3,5-Trimethylbenzene	*96*	**480**	34	40	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,3-Dichlorobenzene	*125*	**1250**	<4.0	<4.0	<0.40	<0.40	<0.40	<0.40	<0.40	2.7
1,3-Dichloropropane	*0.02*	**0.2**	<3.6	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,4-Dichlorobenzene	*15*	**75**	<3.6	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
2,2-Dichloropropane			<4.4	<4.4	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
2-Chlorotoluene			<3.1	<3.1	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
4-Chlorotoluene			<3.5	<3.5	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Benzene	*0.5*	**5**	**310**	**270**	<0.15	<0.15	<0.15	<0.15	0.18	<0.15
Bromobenzene			<3.6	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromochloromethane			<4.3	<4.3	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Bromodichloromethane	*0.06*	**0.6**	<3.7	<3.7	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Bromoform	*0.44*	**4.4**	<4.8	<4.8	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
Bromomethane	*1*	**10**	<8.0	<8.0	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80
Carbon tetrachloride	*0.5*	**5**	<3.8	<3.8	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Chlorobenzene			<3.9	<3.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Chloroethane	*80*	**400**	<5.1	<5.1	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
Chloroform	*0.6*	**6**	<3.7	<3.7	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloromethane	*0.3*	**3**	<3.2	<3.2	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
cis-1,2-Dichloroethene	*7*	**70**	<4.1	<4.1	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
cis-1,3-Dichloropropene			<4.2	<4.2	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
Dibromochloromethane			<4.9	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
Dibromomethane			<2.7	<2.7	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Dichlorodifluoromethane	*200*	**1000**	<6.7	<6.7	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
Ethylbenzene	*140*	**700**	66	91	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Hexachlorobutadiene			<4.5	<4.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Isopropyl ether			<2.8	<2.8	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Isopropylbenzene			8.8	5.1	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Methyl tert-butyl ether	*12*	**60**	<3.9	<3.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Methylene Chloride	*0.5*	**5**	<16	<16	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Naphthalene	*10*	**100**	**9800**	**11000**	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
n-Butylbenzene			<3.9	<3.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
N-Propylbenzene			4.7	<4.1	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
p-Isopropyltoluene			<3.6	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
sec-Butylbenzene			<4.0	<4.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Styrene	*10*	**100**	<3.9	<3.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
tert-Butylbenzene			<4.0	<4.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Tetrachloroethene	*0.5*	**5**	<3.7	<3.7	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Toluene	*200*	**1000**	69	160	<0.15	0.17	<0.15	<0.15	0.17	<0.15
trans-1,2-Dichloroethene	*20*	**100**	<3.5	<3.5	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
trans-1,3-Dichloropropene			<3.6	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Trichloroethene	*0.5*	**5**	<1.6	<1.6	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Trichlorofluoromethane			<4.3	<4.3	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Vinyl chloride	*0.02*	**0.2**	<2.0	<2.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	*1000*	**10000**	150	430	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22

Italic: Value exceeds NR140 Preventive Action Limit
Bold: Value exceeds NR140 Enforcement Standard
J: Result is <RL but >MDL; concentration is approximate

VOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-136	MW-2	P-110	P-113	P-120	P-121
	PAL	ES	03/02/20	2/3/20	1/28/20	1/30/20	1/29/20	1/28/20
1,1,1,2-Tetrachloroethane	*7*	**70**	<0.46	<0.46	<9.2	<0.46	<0.46	<0.46
1,1,1-Trichloroethane	*40*	**200**	<0.38	<0.38	<7.6	<0.38	<0.38	<0.38
1,1,2,2-Tetrachloroethane	*0.02*	**0.2**	<0.40	<0.40	<8.0	<0.40	<0.40	<0.40
1,1,2-Trichloroethane	*0.5*	**5**	<0.35	<0.35	<7.0	<0.35	<0.35	<0.35
1,1-Dichloroethane	*85*	**850**	<0.41	<0.41	<8.2	<0.41	<0.41	<0.41
1,1-Dichloroethene	*0.7*	**7**	<0.39	<0.39	<7.8	<0.39	<0.39	<0.39
1,1-Dichloropropene			<0.30	<0.30	<5.9	<0.30	<0.30	<0.30
1,2,3-Trichlorobenzene			<0.46	<0.46	<9.2	<0.46	<0.46	<0.46
1,2,3-Trichloropropane	*12*	**60**	<0.41	<0.41	<8.3	<0.41	<0.41	<0.41
1,2,4-Trichlorobenzene	*14*	**70**	<0.34	<0.34	<6.8	<0.34	<0.34	<0.34
1,2,4-Trimethylbenzene	*96*	**480**	<0.36	<0.36	*250*	<0.36	<0.36	<0.36
1,2-Dibromo-3-Chloropropane	*0.02*	**0.2**	<2.0	<2.0	**55**	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	*0.005*	**0.05**	<0.39	<0.39	<7.7	<0.39	<0.39	<0.39
1,2-Dichlorobenzene	*60*	**600**	<0.33	<0.33	<6.7	<0.33	<0.33	<0.33
1,2-Dichloroethane	*0.5*	**5**	<0.39	<0.39	<7.8	<0.39	<0.39	<0.39
1,2-Dichloropropane	*0.5*	**5**	<0.43	<0.43	<8.6	<0.43	<0.43	<0.43
1,3,5-Trimethylbenzene	*96*	**480**	<0.25	<0.25	*120*	<0.25	<0.25	<0.25
1,3-Dichlorobenzene	*125*	**1250**	<0.40	<0.40	<8.0	<0.40	<0.40	<0.40
1,3-Dichloropropane	*0.02*	**0.2**	<0.36	<0.36	<7.2	<0.36	<0.36	<0.36
1,4-Dichlorobenzene	*15*	**75**	<0.36	<0.36	<7.3	<0.36	<0.36	<0.36
2,2-Dichloropropane			<0.44	<0.44	<8.9	<0.44	<0.44	<0.44
2-Chlorotoluene			<0.31	<0.31	<6.3	<0.31	<0.31	<0.31
4-Chlorotoluene			<0.35	<0.35	<7.0	<0.35	<0.35	<0.35
Benzene	*0.5*	**5**	0.47 J	**6.2**	**940**	<0.15	<0.15	<0.15
Bromobenzene			<0.36	<0.36	<7.1	<0.36	<0.36	<0.36
Bromochloromethane			<0.43	<0.43	<8.6	<0.43	<0.43	<0.43
Bromodichloromethane	*0.06*	**0.6**	<0.37	<0.37	<7.4	<0.37	<0.37	<0.37
Bromoform	*0.44*	**4.4**	<0.48	<0.48	<9.7	<0.48	<0.48	<0.48
Bromomethane	*1*	**10**	<0.80	<0.80	<16	<0.80	<0.80	<0.80
Carbon tetrachloride	*0.5*	**5**	<0.38	<0.38	<7.7	<0.38	<0.38	<0.38
Chlorobenzene			<0.39	<0.39	<7.7	<0.39	<0.39	<0.39
Chloroethane	*80*	**400**	<0.51	<0.51	<10	<0.51	<0.51	<0.51
Chloroform	*0.6*	**6**	<0.37	<0.37	<7.4	<0.37	<0.37	<0.37
Chloromethane	*0.3*	**3**	<0.32	<0.32	<6.4	<0.32	<0.32	<0.32
cis-1,2-Dichloroethene	*7*	**70**	<0.41	<0.41	<8.2	<0.41	<0.41	<0.41
cis-1,3-Dichloropropene			<0.42	<0.42	<8.3	<0.42	<0.42	<0.42
Dibromochloromethane			<0.49	<0.49	<9.8	<0.49	<0.49	<0.49
Dibromomethane			<0.27	<0.27	<5.4	<0.27	<0.27	<0.27
Dichlorodifluoromethane	*200*	**1000**	<0.67	<0.67	<13	<0.67	<0.67	<0.67
Ethylbenzene	*140*	**700**	<0.18	8.3	*430*	<0.18	<0.18	<0.18
Hexachlorobutadiene			<0.45	<0.45	<8.9	<0.45	<0.45	<0.45
Isopropyl ether			<0.28	<0.28	<5.5	<0.28	<0.28	<0.28
Isopropylbenzene			<0.39	1.5	38	<0.39	<0.39	<0.39
Methyl tert-butyl ether	*12*	**60**	<0.39	<0.39	<7.9	<0.39	<0.39	<0.39
Methylene Chloride	*0.5*	**5**	<1.6	<1.6	<33	<1.6	<1.6	<1.6
Naphthalene	*10*	**100**	<0.34	7.9	**18000**	<0.34	1.8	<0.34
n-Butylbenzene			<0.39	<0.39	<7.8	<0.39	<0.39	<0.39
N-Propylbenzene			<0.41	0.51	<8.3	<0.41	<0.41	<0.41
p-Isopropyltoluene			<0.36	<0.36	<7.2	<0.36	<0.36	<0.36
sec-Butylbenzene			<0.40	<0.40	<8.0	<0.40	<0.40	<0.40
Styrene	*10*	**100**	<0.39	<0.39	*36*	<0.39	<0.39	<0.39
tert-Butylbenzene			<0.40	<0.40	<8.0	<0.40	<0.40	<0.40
Tetrachloroethene	*0.5*	**5**	<0.37	<0.37	<7.4	<0.37	<0.37	<0.37
Toluene	*200*	**1000**	<0.15	1	*750*	<0.15	<0.15	<0.15
trans-1,2-Dichloroethene	*20*	**100**	<0.35	<0.35	<7.0	<0.35	<0.35	<0.35
trans-1,3-Dichloropropene			<0.36	<0.36	<7.2	<0.36	<0.36	<0.36
Trichloroethene	*0.5*	**5**	<0.16	<0.16	<3.3	<0.16	<0.16	<0.16
Trichlorofluoromethane			<0.43	<0.43	<8.5	<0.43	<0.43	<0.43
Vinyl chloride	*0.02*	**0.2**	<0.20	<0.20	<4.1	<0.20	<0.20	<0.20
Xylenes, Total	*1000*	**10000**	<0.22	2.7	990	<0.22	<0.22	<0.22

Italic: Value exceeds NR140 Preventive Action Limit
Bold: Value exceeds NR140 Enforcement Standard
J: Result is <RL but >MDL; concentration is approximate

SVOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-1	MW-2	MW-102	P-103	MW-101	MW-104	MW-105	MW-107
	PAL	ES	1/30/20	2/3/20	1/28/20	1/28/20	2/3/20	1/28/20	1/28/20	2/3/20
1-Methylnaphthalene			<0.23	9.5	<0.25	<0.25	0.29	<0.25	<0.26	430
1,2,4-Trichlorobenzene	*14*	**70**	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	*60*	**600**	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	*125*	**1250**	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	*15*	**75**	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis[1-chloropropane]			NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*5*	**50**	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene			NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene			<0.051	0.17	0.084	<0.055	0.49	0.15	0.13	900
2-Methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
3 & 4 Methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine			NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene			<0.24	23	<0.26	<0.26	<0.28	<0.26	<0.26	260
Acenaphthylene			<0.21	2	<0.22	<0.23	<0.24	<0.23	<0.23	2.6
Anthracene	*600*	**3000**	0.85	0.41	<0.28	<0.28	<0.31	<0.28	<0.28	12
Benzo[a]anthracene			0.12	<0.049	0.14	<0.048	0.2	<0.048	0.072	0.69
Benzo[a]pyrene	*0.02*	**0.2**	**0.23**	<0.085	*0.16*	<0.084	**0.36**	<0.084	<0.084	**0.43**
Benzo[b]fluoranthene	*0.02*	**0.2**	**0.2**	<0.069	*0.17*	<0.068	**0.66**	<0.068	<0.069	**0.41**
Benzo[g,h,i]perylene			0.34	<0.32	<0.31	<0.32	0.44	<0.32	<0.32	<0.34
Benzo[k]fluoranthene			0.14	<0.055	<0.053	<0.054	0.26	<0.054	<0.054	0.24
Benzoic acid			NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	*0.6*	**6**	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Carbazole			NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	*0.02*	**0.2**	*0.15*	<0.059	*0.12*	<0.058	**0.48**	<0.058	<0.058	**0.51**
Dibenz(a,h)anthracene			<0.040	<0.044	0.051	<0.043	<0.046	<0.043	<0.043	<0.046
Dibenzofuran			NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*20*	**100**	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	*80*	**400**	0.47	1.3	<0.38	<0.38	0.86	<0.38	<0.39	9.2
Fluorene	*80*	**400**	<0.19	9	<0.20	<0.21	<0.22	<0.21	<0.21	*120*
Hexachlorobenzene	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene			NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene			NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane			NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene			0.18	<0.064	0.093	<0.063	0.37	<0.063	<0.064	0.21
Isophorone			NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	*10*	**100**	<0.24	7.6	<0.26	<0.26	6.6	<0.26	0.82	**8300**
Nitrobenzene			NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine			NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine			NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene			0.37	3.3	<0.25	<0.25	0.28	<0.25	<0.26	100
Phenol	*1200*	**6000**	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	*50*	**250**	0.66	0.74	<0.35	<0.36	0.72	<0.36	<0.36	5.4

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SVOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-107 Dup	MW-108	MW-111	MW-112	MW-115	MW-116	MW-117	MW-118
	PAL	ES	2/3/20	1/29/20	1/28/20	1/30/20	1/29/20	1/29/20	1/29/20	1/29/20
1-Methylnaphthalene			580	<0.25	<0.27	<0.27	<0.27	0.73	780	<0.25
1,2,4-Trichlorobenzene	*14*	**70**	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	*60*	**600**	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	*125*	**1250**	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	*15*	**75**	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis[1-chloropropane]			NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*5*	**50**	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene			NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene			1000	0.089	0.55	<0.058	0.35	0.2	1700	<0.055
2-Methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
3 & 4 Methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine			NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene			320	<0.25	<0.28	<0.28	<0.27	0.85	250	<0.26
Acenaphthylene			2.6	<0.22	<0.24	<0.24	<0.24	<0.23	32	<0.22
Anthracene	*600*	**3000**	12	<0.27	<0.30	0.96	<0.30	0.92	<27	0.95
Benzo[a]anthracene			1	<0.046	<0.051	0.1	0.06	<0.048	5.6	0.14
Benzo[a]pyrene	*0.02*	**0.2**	**0.78**	<0.080	<0.089	**0.22**	<0.088	<0.083	<8.1	**0.34**
Benzo[b]fluoranthene	*0.02*	**0.2**	**0.81**	<0.066	<0.073	*0.15*	<0.071	<0.068	<6.6	**0.31**
Benzo[g,h,i]perylene			0.46	<0.31	<0.34	<0.33	<0.33	<0.32	<31	0.43
Benzo[k]fluoranthene			0.41	<0.052	<0.058	0.085	<0.057	<0.054	<5.3	0.13
Benzoic acid			NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	*0.6*	**6**	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Carbazole			NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	*0.02*	**0.2**	**0.91**	<0.055	<0.061	*0.13*	<0.060	<0.057	<5.6	**0.24**
Dibenz(a,h)anthracene			<0.046	<0.041	<0.046	<0.045	<0.045	<0.043	<4.2	<0.043
Dibenzofuran			NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*20*	**100**	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	*80*	**400**	11	<0.37	<0.41	0.52	<0.40	<0.38	<37	0.86
Fluorene	*80*	**400**	*150*	<0.20	<0.22	<0.22	<0.22	0.34	*140*	<0.20
Hexachlorobenzene	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene			NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene			NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane			NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene			0.47	<0.061	<0.067	<0.067	<0.066	<0.063	<6.1	0.25
Isophorone			NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	*10*	**100**	**11000**	0.97	8	0.79	5	0.73	**12000**	<0.26
Nitrobenzene			NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine			NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine			NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene			130	<0.25	<0.27	0.45	<0.27	0.29	110	0.68
Phenol	*1200*	**6000**	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	*50*	**250**	6.8	<0.35	<0.38	0.77	<0.38	<0.36	<35	0.89

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SVOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-122	MW-123	MW-125	MW-126	MW-127	MW-128	MW-129	MW-131
	PAL	ES	1/30/20	1/30/20	1/29/20	02/03/20	02/03/20	01/31/20	02/03/20	02/03/20
1-Methylnaphthalene			59	210	64	<0.27	<0.25	<0.25	<0.26	<0.25
1,2,4-Trichlorobenzene	*14*	**70**	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	*60*	**600**	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	*125*	**1250**	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	*15*	**75**	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis[1-chloropropane]			NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*5*	**50**	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene			NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol			NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene			3.5	200	84	<0.058	<0.054	<0.054	<0.057	<0.053
2-Methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
3 & 4 Methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine			NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene			63	150	60	<0.27	<0.26	<0.26	<0.27	0.36
Acenaphthylene			2	9.2	4.5	<0.24	<0.22	<0.22	<0.23	<0.22
Anthracene	*600*	**3000**	3	7.5	4.5	<0.30	<0.28	<0.28	<0.29	<0.27
Benzo[a]anthracene			0.13	0.66	0.96	<0.050	<0.047	<0.047	<0.049	<0.047
Benzo[a]pyrene	*0.02*	**0.2**	<0.088	**0.75**	**0.93**	<0.088	<0.082	<0.082	<0.086	<0.081
Benzo[b]fluoranthene	*0.02*	**0.2**	<0.071	**0.81**	**0.67**	<0.072	<0.067	<0.067	<0.070	<0.066
Benzo[g,h,i]perylene			<0.33	0.46	<1.6	<0.33	<0.31	<0.31	<0.33	<0.31
Benzo[k]fluoranthene			<0.057	0.32	0.28	<0.057	<0.053	<0.053	<0.056	<0.053
Benzoic acid			NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether			NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	*0.6*	**6**	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Carbazole			NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	*0.02*	**0.2**	*0.14*	**0.73**	**0.88**	<0.061	<0.057	<0.057	<0.059	<0.056
Dibenz(a,h)anthracene			<0.045	0.07	<0.21	<0.045	<0.042	<0.042	<0.044	<0.042
Dibenzofuran			NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*20*	**100**	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate			NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	*80*	**400**	2.6	9.2	7.6	<0.40	<0.38	<0.38	<0.40	0.58
Fluorene	*80*	**400**	29	*85*	32	<0.22	<0.20	<0.20	<0.21	<0.20
Hexachlorobenzene	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene			NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene			NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane			NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene			<0.066	0.35	0.34	<0.067	<0.062	<0.062	<0.065	<0.061
Isophorone			NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	*10*	**100**	**660**	**3200**	**2500**	<0.27	<0.26	<0.26	<0.27	<0.25
Nitrobenzene			NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine			NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine			NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene			22	65	32	<0.27	<0.25	<0.25	<0.26	<0.25
Phenol	*1200*	**6000**	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	*50*	**250**	1.2	4.2	6.2	<0.38	<0.35	<0.36	<0.37	0.39

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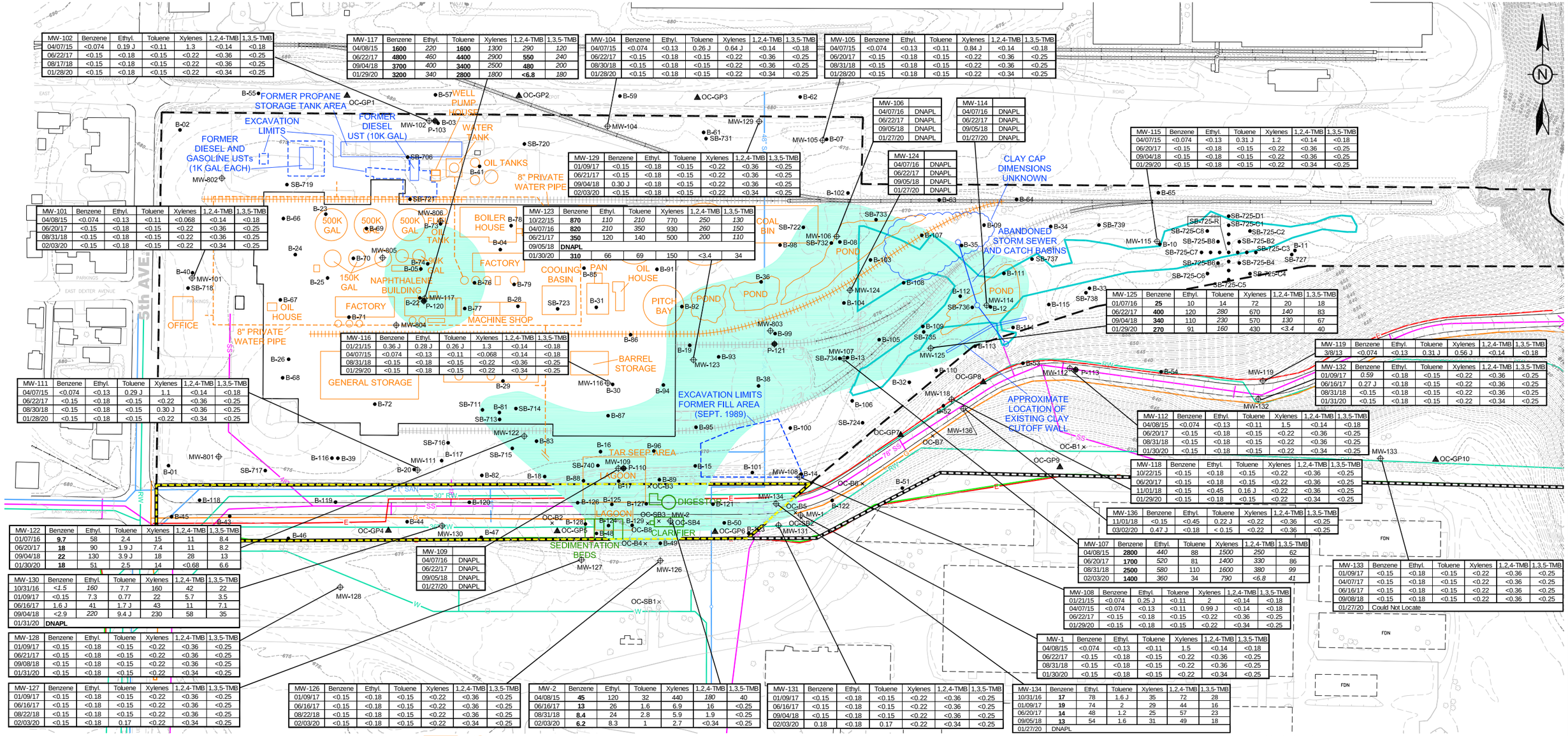
SVOC Feb 2020 Results
Former Koppers Tar Plant and Wabash Alloys Site
Beazer Oak Creek VPLE
BRRTS #:06-41-561509/06-41-561426

	WDNR NR140		MW-132	MW-136	P-110	P-113	P-113 Dup	P-120	P-121
	PAL	ES	01/31/20	03/02/20	1/28/20	1/30/20	1/30/20	1/29/20	1/28/20
1-Methylnaphthalene			<0.26	<0.23	420	<0.26	<0.25	0.41	<0.26
1,2,4-Trichlorobenzene	*14*	**70**	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	*60*	**600**	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	*125*	**1250**	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	*15*	**75**	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis[1-chloropropane]			NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*5*	**50**	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol			NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol			NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol			NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol			NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*0.005*	**0.05**	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene			NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol			NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene			<0.056	<0.050	750	<0.056	<0.053	0.79	<0.056
2-Methylphenol			NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline			NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol			NA	NA	NA	NA	NA	NA	NA
3 & 4 Methylphenol			NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine			NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline			NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol			NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline			NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether			NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline			NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol			NA	NA	NA	NA	NA	NA	NA
Acenaphthene			<0.26	<0.24	370	<0.26	0.82	0.39	<0.27
Acenaphthylene			<0.23	<0.20	14	<0.23	<0.22	<0.21	<0.23
Anthracene	*600*	**3000**	<0.29	<0.25	20	<0.28	0.95	0.3	<0.29
Benzo[a]anthracene			0.28	<0.043	5.8	<0.048	0.42	0.32	0.11
Benzo[a]pyrene	*0.02*	**0.2**	**0.27**	<0.076	**4.1**	<0.084	**0.52**	**0.27**	<0.085
Benzo[b]fluoranthene	*0.02*	**0.2**	**0.39**	<0.062	**3.8**	<0.069	**0.65**	**0.27**	<0.070
Benzo[g,h,i]perylene			<0.32	<0.29	<5.8	<0.32	0.55	<0.29	<0.32
Benzo[k]fluoranthene			0.19	<0.049	3.7	<0.055	0.27	0.14	<0.055
Benzoic acid			NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol			NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane			NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether			NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	*0.6*	**6**	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate			NA	NA	NA	NA	NA	NA	NA
Carbazole			NA	NA	NA	NA	NA	NA	NA
Chrysene	*0.02*	**0.2**	**0.28**	<0.052	**4.4**	<0.058	**0.53**	**0.2**	<0.059
Dibenz(a,h)anthracene			0.056	<0.039	<0.78	<0.043	0.17	0.041	<0.044
Dibenzofuran			NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate			NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate			NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*20*	**100**	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate			NA	NA	NA	NA	NA	NA	NA
Fluoranthene	*80*	**400**	0.56	<0.35	33	<0.39	1.5	0.67	<0.39
Fluorene	*80*	**400**	<0.21	<0.19	*190*	<0.21	0.31	0.54	<0.21
Hexachlorobenzene	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene			NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene			NA	NA	NA	NA	NA	NA	NA
Hexachloroethane			NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene			0.23	<0.057	2.5	<0.064	0.37	0.15	<0.065
Isophorone			NA	NA	NA	NA	NA	NA	NA
Naphthalene	*10*	**100**	0.46	<0.24	**11000**	0.67	0.67	3	<0.27
Nitrobenzene			NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine			NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine			NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*0.1*	**1**	NA	NA	NA	NA	NA	NA	NA
Phenanthrene			0.27	<0.23	170	<0.26	1.4	1.5	<0.26
Phenol	*1200*	**6000**	NA	NA	NA	NA	NA	NA	NA
Pyrene	*50*	**250**	0.45	<0.33	23	<0.36	1.2	0.52	<0.37

Italic: Value exceeds NR140 Preventive Action Limit
Bold: Value exceeds NR140 Enforcement Standard
J: Result is <RL but >MDL; concentration is approximate



MW-102	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/07/15	<0.074	0.19 J	<0.11	1.3	<0.14	<0.18
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/17/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/28/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-117	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/08/15	**1600**	*220*	**1600**	*1300*	*290*	*120*
06/22/17	**4800**	*460*	**4400**	*2900*	**550**	*240*
09/04/18	**3700**	*400*	**3400**	*2500*	**480**	*200*
01/29/20	**3200**	*340*	**2800**	*1800*	**<6.8**	*180*

MW-104	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/07/15	<0.074	<0.13	0.26 J	0.64 J	<0.14	<0.18
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/30/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/28/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-105	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/07/15	<0.074	<0.13	<0.11	0.84 J	<0.14	<0.18
06/20/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/28/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-106	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-114	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-124	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-115	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/07/15	<0.074	<0.13	0.31 J	1.2	<0.14	<0.18
06/20/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
09/04/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/29/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-129	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/09/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/21/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
09/04/18	0.30 J	<0.18	<0.15	<0.22	<0.36	<0.25
02/03/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-101	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/08/15	<0.074	<0.13	<0.11	<0.068	<0.14	<0.18
06/20/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
02/03/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-123	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
10/22/15	**870**	*110*	*210*	*770*	*250*	*130*
04/07/16	**820**	*210*	*350*	*930*	*260*	*150*
06/21/17	**350**	120	140	500	*200*	*110*
09/05/18	**DNAPL**					
01/30/20	**310**	66	69	150	<3.4	34

MW-125	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/07/16	**25**	10	14	72	20	18
06/22/17	**400**	120	*280*	670	*140*	83
09/04/18	**340**	110	*230*	570	*130*	67
01/29/20	**270**	91	*160*	430	*<3.4*	40

MW-119	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
3/8/13	<0.074	<0.13	0.31 J	0.56 J	<0.14	<0.18

MW-132	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/09/17	*0.59*	<0.18	<0.15	<0.22	<0.36	<0.25
06/16/17	0.27 J	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/31/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-111	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/07/15	<0.074	<0.13	0.29 J	1.1	<0.14	<0.18
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/30/18	<0.15	<0.18	<0.15	0.30 J	<0.36	<0.25
01/28/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-116	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/21/15	0.36 J	0.28 J	0.26 J	1.3	<0.14	<0.18
04/07/15	<0.074	<0.13	<0.11	<0.068	<0.14	<0.18
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/29/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-112	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/08/15	<0.074	<0.13	<0.11	1.5	<0.14	<0.18
06/20/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/30/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-118	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
10/22/15	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/20/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
11/01/18	<0.15	<0.45	0.16 J	<0.22	<0.36	<0.25
01/29/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-136	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
11/01/18	<0.15	<0.45	0.22 J	<0.22	<0.36	<0.25
03/02/20	0.47 J	<0.18	< 0.15	<0.22	<0.36	<0.25

MW-107	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/08/15	**2800**	*440*	88	*1500*	*250*	62
06/20/17	**1700**	*520*	81	*1400*	*330*	86
08/31/18	**2500**	*580*	110	*1600*	*380*	*99*
02/03/20	**1400**	*360*	34	*790*	*<6.8*	*41*

MW-133	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/09/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
04/07/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/16/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
09/08/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/27/20	Could Not Locate					

MW-108	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/21/15	<0.074	0.25 J	<0.11	2	<0.14	<0.18
04/07/15	<0.074	<0.13	<0.11	0.99 J	<0.14	<0.18
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/29/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-1	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/08/15	<0.074	<0.13	<0.11	1.5	<0.14	<0.18
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/30/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-122	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/07/16	**9.7**	58	2.4	15	11	8.4
06/20/17	**18**	90	1.9 J	7.4	11	8.2
09/04/18	**22**	130	3.9 J	18	28	13
01/30/20	**18**	51	2.5	14	<0.68	6.6

MW-109	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-130	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
10/31/16	*<1.5*	*160*	7.7	160	42	22
01/09/17	<0.15	7.3	0.77	22	5.7	3.5
06/16/17	1.6 J	41	1.7 J	43	11	7.1
09/04/18	<2.9	*220*	9.4 J	230	58	35
01/31/20	**DNAPL**					

MW-128	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/09/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/21/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
09/08/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/31/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-127	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/09/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/16/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/22/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
02/03/20	<0.15	<0.18	0.17	<0.22	<0.34	<0.25

MW-126	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/09/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/16/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/22/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
02/03/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

MW-2	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/08/15	**45**	120	32	440	*180*	40
06/16/17	**13**	26	1.6	6.9	16	<0.25
08/31/18	**8.4**	24	2.8	5.9	1.9	<0.25
02/03/20	**6.2**	8.3	1	2.7	<0.34	<0.25

MW-131	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
01/09/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/16/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
09/04/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
02/03/20	0.18	<0.18	0.17	<0.22	<0.34	<0.25

MW-134	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
10/31/16	**17**	78	1.6 J	35	72	28
01/09/17	**19**	74	2	29	44	16
06/20/17	**14**	48	1.2	25	57	23
09/05/18	**13**	54	1.6	31	49	18
01/27/20	DNAPL					

EXPLANATION

- MW-101 — WATER TABLE WELL
- P-103 — NESTED PIEZOMETER
- B-01 — SOIL BORING
- × OC-SB1 — SOIL BORING (CITY OF OAK CREEK)
- ▲OC-GP1 — GEOPROBE (CITY OF OAK CREEK)
- APPROXIMATE WABASH PARCEL BOUNDARY (VPLE 06-41-560068)
- APPROXIMATE CITY PARCEL BOUNDARY (VPLE # TBD)
- FORMER TAR PLANT STRUCTURES
- PAST REMEDIAL ACTIVITIES
- FORMER WASTEWATER TREATMENT PLANT STRUCTURES
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE CITY UTILITY CORRIDOR PROPERTY BOUNDARY
- E — ELECTRICAL
- G — NATURAL GAS
- RW — RAW WATER
- SAN — SANITARY
- SS — STORM SEWER
- FO — FIBER OPTIC
- APPROXIMATE AREA OF GROUNDWATER THAT EXCEEDS ENFORCEMENT STANDARD

	VOC	Benz.	Toluene	Ethyl.	Xylene	1,2,4-TMB	1,3,5-TMB
WDNR	PAL	*0.5*	*200*	*140*	*1000*	*96*	*96*
NR140	ES	**5**	**1000**	**700**	**10000**	**480**	**480**

ALL VALUES IN ug/L (ppb)
ITALIC VALUES EXCEED NR 140 PAL
BOLD VALUES EXCEED NR 140 ES

0 160 320
SCALE IN FEET

REFERENCE NOTES:

1. EXISTING TOPOGRAPHY AND SITE FEATURES FROM LAND INFORMATION SERVICES, INC. - ENVIRONMENTAL SURVEY, 12/21/2001.
2. FORMER TAR PLANT STRUCTURES FROM THE SANBORN LIBRARY - EDR INQUIRY 2284158.1s, ©1950.
3. FORMER POND AND LAGOON LOCATIONS FROM 1937-1968 AERIAL PHOTOGRAPHY - COMPILED BY AERO-DATA CORPORATION, APRIL 2013.
4. FORMER WASTEWATER TREATMENT PLANT STRUCTURES FROM HARTMAN-STRASS, INC. - FILE NO. 72051-C-303, 12/1/1971.

TITLE: FORMER KOPPERS TAR PLANT AND WABASH ALLOYS SITE
SHALLOW GROUNDWATER BTEXTM CONCENTRATIONS

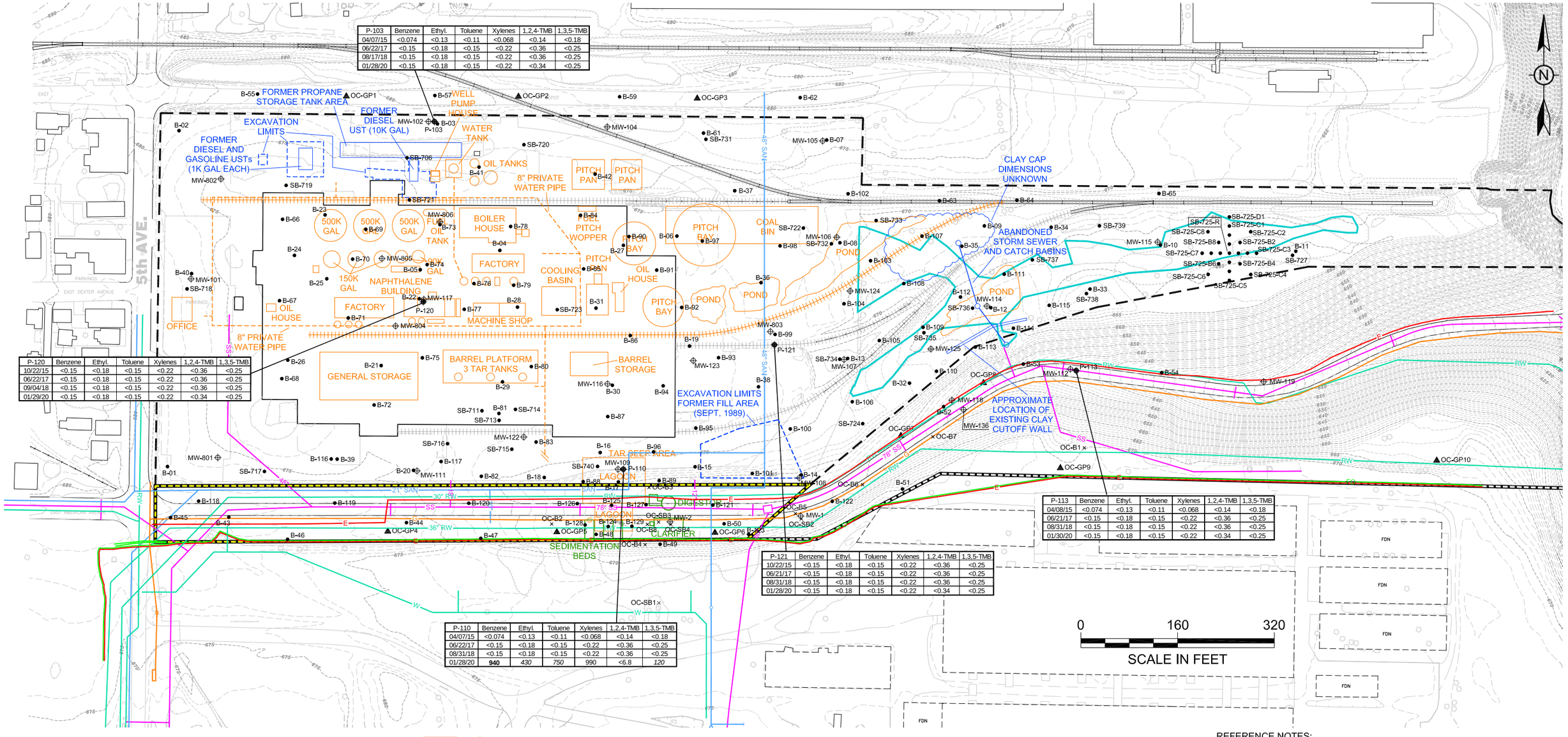
LOCATION: OAK CREEK, WISCONSIN

TETRA TECH

CHECKED	MRN
DRAFTED	CMP
PROJECT	117-2201417
DATE	3/6/20

FIGURE: 10

S:\CAD\BEAZER\WABASH\MARCH 2020\FIGURE 10 SHALLOW GW BTEXTM CONC 2-28-20.DWG



P-103	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/07/15	<0.074	<0.13	<0.11	<0.068	<0.14	<0.18
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/17/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/28/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

P-120	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
10/22/15	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
09/04/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/29/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

P-110	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/07/15	<0.074	<0.13	<0.11	<0.068	<0.14	<0.18
06/22/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/28/20	**940**	*430*	*750*	990	<6.8	*120*

P-121	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
10/22/15	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
06/21/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/28/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

P-113	Benzene	Ethyl.	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB
04/08/15	<0.074	<0.13	<0.11	<0.068	<0.14	<0.18
06/21/17	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
08/31/18	<0.15	<0.18	<0.15	<0.22	<0.36	<0.25
01/30/20	<0.15	<0.18	<0.15	<0.22	<0.34	<0.25

EXPLANATION

- MW-101 — WATER TABLE WELL
- P-103 — NESTED PIEZOMETER
- B-01 — SOIL BORING
- × OC-SB1 — SOIL BORING (CITY OF OAK CREEK)
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- RW — RAW WATER
- SAN — SANITARY
- SS — STORM SEWER
- FO — FIBER OPTIC
- APPROXIMATE AREA OF GROUNDWATER THAT EXCEEDS ENFORCEMENT STANDARD

	VOC	Benz.	Toluene	Ethyl.	Xylene	1,2,4-TMB	1,3,5-TMB
WDNR	PAL	*0.5*	*200*	*140*	*1000*	*96*	*96*
NR140	ES	**5**	**1000**	**700**	**10000**	**480**	**480**

ALL VALUES IN ug/L (ppb)
ITALIC VALUES EXCEED NR 140 PAL
BOLD VALUES EXCEED NR 140 ES

REFERENCE NOTES:

1. EXISTING TOPOGRAPHY AND SITE FEATURES FROM LAND INFORMATION SERVICES, INC. - ENVIRONMENTAL SURVEY, 12/21/2001.
2. FORMER TAR PLANT STRUCTURES FROM THE SANBORN LIBRARY - EDR INQUIRY 2284158.1s, ©1950.
3. FORMER POND AND LAGOON LOCATIONS FROM 1937-1968 AERIAL PHOTOGRAPHY - COMPILED BY AERO-DATA CORPORATION, APRIL 2013.
4. FORMER WASTEWATER TREATMENT PLANT STRUCTURES FROM HARTMAN-STRASS, INC. - FILE NO. 72051-C-303, 12/1/1971.

TITLE: FORMER KOPPERS TAR PLANT AND WABASH ALLOYS SITE
DEEP GROUNDWATER BTEXTM CONCENTRATIONS

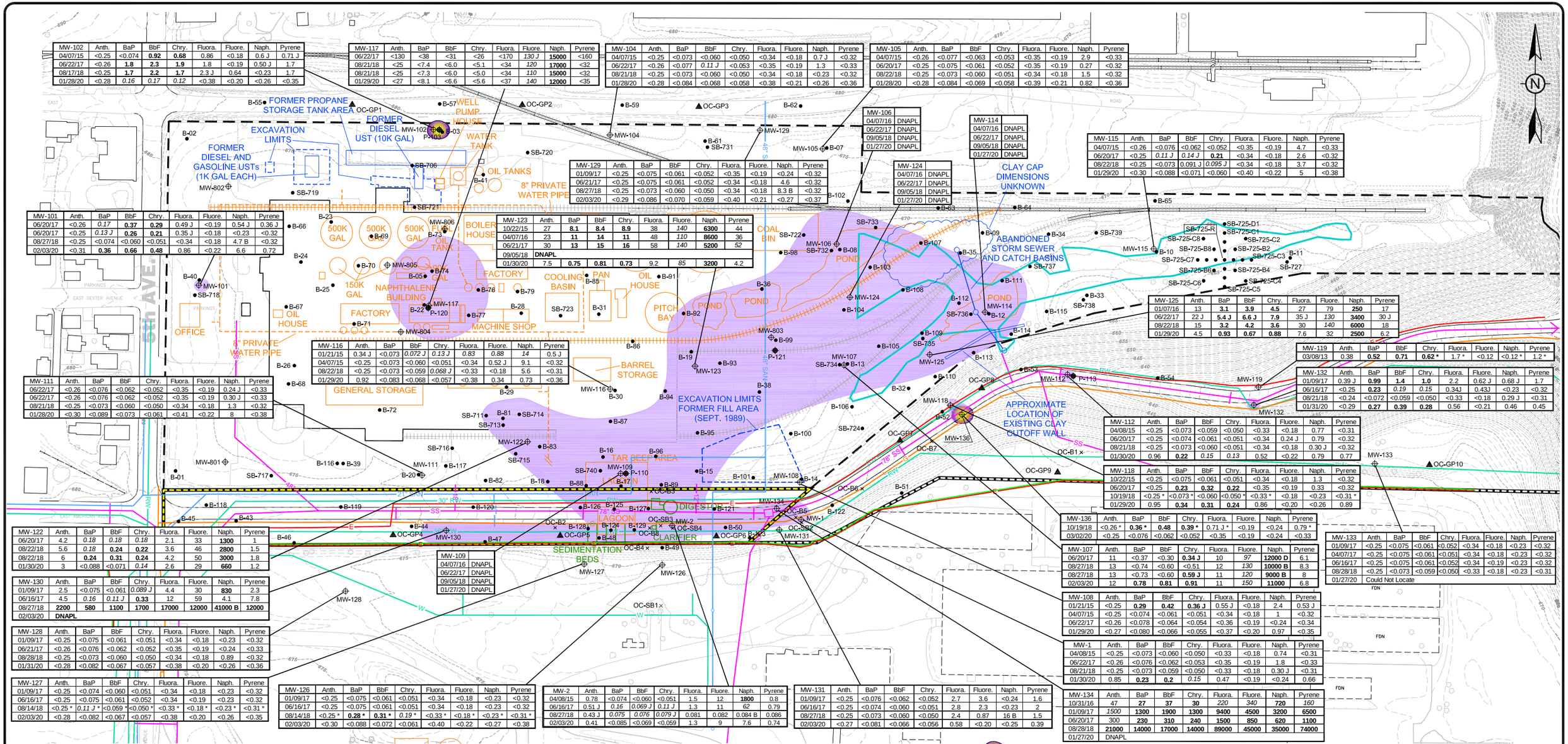
LOCATION: OAK CREEK, WISCONSIN

TETRA TECH

CHECKED	MRN
DRAFTED	CMP
PROJECT	117-2201417
DATE	3/6/20

FIGURE: 11

S:\CAD\BEAZER\WABASH\MARCH 2020\FIGURE 11 DEEP GW BTEXTM CONC 2-28-20.DWG



MW-102	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/07/15	<0.25	<0.074	**0.92**	**0.68**	0.86	<0.18	0.6 J	0.71 J
06/22/17	<0.26	**1.8**	**2.3**	**1.9**	1.8	<0.19	0.50 J	1.7
08/17/18	<0.25	**1.7**	**2.2**	**1.7**	2.3 J	0.64	<0.23	1.7
01/28/20	<0.28	*0.16*	*0.17*	*0.12*	<0.38	<0.20	<0.26	<0.35

MW-117	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
06/22/17	<130	<38	<31	<26	<170	*130 J*	**15000**	<160
08/21/18	<25	<7.4	<6.0	<5.1	<34	*120*	**17000**	<32
08/21/18	<25	<7.3	<6.0	<5.0	<34	*110*	**15000**	<32
01/29/20	<27	<8.1	<6.6	<5.6	<37	*140*	**12000**	<35

MW-104	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/07/15	<0.25	<0.073	<0.060	<0.050	<0.34	<0.18	0.7 J	<0.32
06/22/17	<0.26	<0.077	*0.11 J*	<0.053	<0.35	<0.19	1.3	<0.33
08/21/18	<0.25	<0.073	<0.060	<0.050	<0.34	<0.18	<0.23	<0.32
01/28/20	<0.28	<0.084	<0.068	<0.058	<0.38	<0.21	<0.26	<0.36

MW-105	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/07/15	<0.26	<0.077	<0.063	<0.053	<0.35	<0.19	2.9	<0.33
06/20/17	<0.25	<0.075	<0.061	<0.052	<0.35	<0.19	0.27	<0.32
08/22/18	<0.25	<0.073	<0.060	<0.051	<0.34	<0.18	1.5	<0.32
01/28/20	<0.28	<0.084	<0.069	<0.058	<0.39	<0.21	0.82	<0.36

MW-106	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-114	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-115	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/07/15	<0.26	<0.076	<0.062	<0.052	<0.35	<0.19	4.7	<0.33
06/20/17	<0.25	*0.11 J*	*0.14 J*	**0.21**	<0.34	<0.18	2.6	<0.32
08/22/18	<0.25	<0.073	0.091 J	*0.095 J*	<0.34	<0.18	3.7	<0.32
01/29/20	<0.30	<0.088	<0.071	<0.060	<0.40	<0.22	5	<0.38

MW-129	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	<0.25	<0.075	<0.061	<0.052	<0.35	<0.19	<0.24	<0.32
06/21/17	<0.25	<0.075	<0.061	<0.052	<0.34	<0.18	4.6	<0.32
08/27/18	<0.25	<0.073	<0.060	<0.050	<0.34	<0.18	8.3 B	<0.32
02/03/20	<0.29	<0.086	<0.070	<0.059	<0.40	<0.21	<0.27	<0.37

MW-124	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-101	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
06/20/17	<0.26	*0.17*	**0.37**	**0.29**	0.49 J	<0.19	0.54 J	0.36 J
06/20/17	<0.25	*0.13 J*	**0.26**	**0.21**	0.35 J	<0.18	<0.23	<0.32
08/27/18	<0.25	<0.074	<0.060	<0.051	<0.34	<0.18	4.7 B	<0.32
02/03/20	<0.31	**0.36**	**0.66**	**0.48**	0.86	<0.22	6.6	0.72

MW-123	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
10/22/15	27	**8.1**	**8.4**	**8.9**	38	*140*	**6300**	44
04/07/16	23	**11**	**14**	**11**	48	*110*	**8600**	36
06/21/17	30	**13**	**15**	**16**	58	*140*	**5200**	*52*
09/05/18	**DNAPL**							
01/30/20	7.5	**0.75**	**0.81**	**0.73**	9.2	*85*	**3200**	4.2

MW-125	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/07/16	13	**3.1**	**3.9**	**4.5**	27	79	**250**	17
06/22/17	22 J	**5.4 J**	**6.6 J**	**7.9**	35 J	*130*	**3400**	30 J
08/22/18	15	**3.2**	**4.2**	**3.6**	30	*140*	**6000**	18
01/29/20	4.5	**0.93**	**0.67**	**0.88**	7.6	32	**2500**	6.2

MW-116	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/21/15	0.34 J	<0.073	*0.072 J*	*0.13 J*	*0.83*	*0.88*	*14*	0.5 J
04/07/15	<0.25	<0.073	<0.060	<0.051	<0.34	0.52 J	9.1	<0.32
08/22/18	<0.25	<0.073	<0.059	*0.068 J*	<0.33	<0.18	5.6	<0.31
01/29/20	0.92	<0.083	<0.068	<0.057	<0.38	0.34	0.73	<0.36

MW-111	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
06/22/17	<0.26	<0.076	<0.062	<0.052	<0.35	<0.19	0.24 J	<0.33
06/22/17	<0.26	<0.076	<0.062	<0.052	<0.35	<0.19	0.30 J	<0.33
08/21/18	<0.25	<0.073	<0.060	<0.050	<0.34	<0.18	1.3	<0.32
01/28/20	<0.30	<0.089	<0.073	<0.061	<0.41	<0.22	8	<0.38

MW-119	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
03/08/13	0.38	**0.52**	**0.71**	**0.62 ***	1.7 *	<0.12	<0.12 *	1.2 *

MW-132	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	0.39 J	**0.99**	**1.4**	**1.0**	2.2	0.62 J	0.68 J	1.7
06/16/17	<0.25	**0.23**	*0.19*	*0.15*	0.34J	0.43J	<0.23	<0.32
08/21/18	<0.24	<0.072	<0.059	<0.050	<0.33	<0.18	0.29 J	<0.31
01/31/20	<0.29	**0.27**	**0.39**	**0.28**	0.56	<0.21	0.46	0.45

MW-112	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/08/15	<0.25	<0.073	<0.059	<0.050	<0.33	<0.18	0.77	<0.31
06/20/17	<0.25	<0.074	<0.061	<0.051	<0.34	0.24 J	0.79	<0.32
08/21/18	<0.25	<0.073	<0.060	<0.051	<0.34	<0.18	0.30 J	<0.32
01/30/20	0.96	**0.22**	*0.15*	*0.13*	0.52	<0.22	0.79	0.77

MW-118	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
10/22/15	<0.25	<0.075	<0.061	<0.051	<0.34	<0.18	1.3	<0.32
06/20/17	<0.25	**0.23**	**0.32**	**0.22**	<0.35	<0.19	0.33	<0.32
10/19/18	<0.25 *	<0.073 *	<0.060	<0.050 *	<0.33 *	<0.18	<0.23	<0.31 *
01/29/20	0.95	**0.34**	**0.31**	**0.24**	0.86	<0.20	<0.26	0.89

MW-133	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	<0.25	<0.075	<0.061	<0.052	<0.34	<0.18	<0.23	<0.32
04/07/17	<0.25	<0.075	<0.061	<0.051	<0.34	<0.18	<0.23	<0.32
06/16/17	<0.25	<0.075	<0.061	<0.052	<0.34	<0.19	<0.23	<0.32
08/28/18	<0.25	<0.073	<0.059	<0.050	<0.33	<0.18	<0.23	<0.31
01/27/20	Could Not Locate							

MW-136	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
10/19/18	<0.26 *	**0.36 ***	**0.48**	**0.39 ***	0.71 J *	<0.19	<0.24	0.79 *
03/02/20	<0.25	<0.076	<0.062	<0.052	<0.35	<0.19	<0.24	<0.33

MW-107	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
06/20/17	11	<0.37	<0.30	**0.34 J**	10	*97*	**12000 D**	6.1
08/27/18	13	<0.74	<0.60	<0.51	12	*130*	**10000 B**	8.3
08/27/18	13	<0.73	<0.60	**0.59 J**	11	*120*	**9000 B**	8
02/03/20	12	**0.78**	**0.81**	**0.91**	11	*150*	**11000**	6.8

MW-108	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/21/15	<0.25	**0.29**	**0.42**	**0.36 J**	0.55 J	<0.18	2.4	0.53 J
04/07/15	<0.25	<0.074	<0.061	<0.051	<0.34	<0.18	1	<0.32
06/22/17	<0.26	<0.078	<0.064	<0.054	<0.36	<0.19	<0.24	<0.34
01/29/20	<0.27	<0.080	<0.066	<0.055	<0.37	<0.20	0.97	<0.35

MW-1	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/08/15	<0.25	<0.073	<0.060	<0.050	<0.33	<0.18	0.74	<0.31
06/22/17	<0.26	<0.076	<0.062	<0.053	<0.35	<0.19	1.8	<0.33
08/21/18	<0.25	<0.073	<0.059	<0.050	<0.33	<0.18	0.30 J	<0.31
01/30/20	0.85	**0.23**	**0.2**	*0.15*	0.47	<0.19	<0.24	0.66

MW-134	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
10/31/16	47	**27**	**37**	**30**	*220*	*340*	**720**	*160*
01/09/17	*1500*	**1300**	**1900**	**1300**	**9400**	**4500**	**3200**	**6500**
06/20/17	300	**230**	**310**	**240**	**1500**	**850**	**620**	**1100**
08/28/18	**21000**	**14000**	**17000**	**14000**	**89000**	**45000**	**35000**	**74000**
01/27/20	DNAPL							

MW-109	
04/07/16	DNAPL
06/22/17	DNAPL
09/05/18	DNAPL
01/27/20	DNAPL

MW-122	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
06/20/17	4.2	*0.18*	*0.18*	*0.18*	2.1	33	**1300**	1
08/22/18	5.6	*0.18*	**0.24**	**0.22**	3.6	46	**2800**	1.5
08/22/18	6	**0.24**	**0.31**	**0.24**	4.2	50	**3000**	1.8
01/30/20	3	<0.088	<0.071	*0.14*	2.6	29	**660**	1.2

MW-130	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	2.5	<0.075	<0.061	*0.089 J*	4.4	30	**830**	2.3
06/16/17	4.5	*0.16*	*0.11 J*	**0.33**	12	59	4.1	7.8
08/27/18	**2200**	**580**	**1100**	**1700**	**17000**	**12000**	**41000 B**	**12000**
02/03/20	**DNAPL**							

MW-128	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	<0.25	<0.075	<0.061	<0.051	<0.34	<0.18	<0.23	<0.32
06/21/17	<0.26	<0.076	<0.062	<0.052	<0.35	<0.19	<0.24	<0.33
08/28/18	<0.25	<0.073	<0.060	<0.050	<0.34	<0.18	0.89	<0.32
01/31/20	<0.28	<0.082	<0.067	<0.057	<0.38	<0.20	<0.26	<0.36

MW-127	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	<0.25	<0.074	<0.060	<0.051	<0.34	<0.18	<0.23	<0.32
06/16/17	<0.25	<0.075	<0.061	<0.052	<0.34	<0.19	<0.23	<0.32
08/14/18	<0.25 *	*0.11 J* *	<0.059 *	<0.050 *	<0.33 *	<0.18 *	<0.23 *	<0.31 *
02/03/20	<0.28	<0.082	<0.067	<0.057	<0.38	<0.20	<0.26	<0.35

MW-126	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	<0.25	<0.075	<0.061	<0.051	<0.34	<0.18	<0.23	<0.32
06/16/17	<0.25	<0.075	<0.061	<0.051	<0.34	<0.18	<0.23	<0.32
08/14/18	<0.25 *	**0.28 ***	**0.31 ***	*0.19 **	<0.33 *	<0.18 *	<0.23 *	<0.31 *
02/03/20	<0.30	<0.088	<0.072	<0.061	<0.40	<0.22	<0.27	<0.38

MW-2	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/08/15	0.78	<0.074	<0.060	<0.051	1.5	12	**1800**	0.8
06/16/17	0.51 J	*0.16*	*0.069 J*	*0.11 J*	1.3	11	*62*	0.79
08/27/18	0.43 J	*0.075*	*0.076*	*0.079 J*	0.081	0.082	0.084 B	0.086
02/03/20	0.41	<0.085	<0.069	<0.059	1.3	9	7.6	0.74

MW-131	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
01/09/17	<0.25	<0.076	<0.062	<0.052	2.7	3.6	<0.24	1.6
06/16/17	<0.25	<0.074	<0.060	<0.051	2.8	2.3	<0.23	2
08/27/18	<0.25	<0.073	<0.060	<0.050	2.4	0.87	16 B	1.5
02/03/20	<0.27	<0.081	<0.066	<0.056	0.58	<0.20	<0.25	0.39

EXPLANATION

- MW-101 — WATER TABLE WELL
- P-103 — NESTED PIEZOMETER
- B-01 — SOIL BORING
- × OC-SB1 — SOIL BORING (CITY OF OAK CREEK)
- ▲ OC-GP1 — GEOPROBE (CITY OF OAK CREEK)
- APPROXIMATE WABASH PARCEL BOUNDARY (VPLE 06-41-560068)
- APPROXIMATE CITY PARCEL BOUNDARY (VPLE # TBD)
- FORMER TAR PLANT STRUCTURES
- PAST REMEDIAL ACTIVITIES
- FORMER WASTEWATER TREATMENT PLANT STRUCTURES
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE CITY UTILITY CORRIDOR PROPERTY BOUNDARY
- E — ELECTRICAL
- G — NATURAL GAS
- RW — RAW WATER
- SAN — SANITARY
- SS — STORM SEWER
- FO — FIBER OPTIC
- APPROXIMATE AREA OF GROUNDWATER THAT EXCEEDS ENFORCEMENT STANDARD
- INTERMITTENT DETECTIONS ABOVE AND BELOW STANDARDS

	PAH	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
WDNR	PAL	*600*	*0.02*	*0.02*	*0.02*	*80*	*80*	*10*	*50*
NR140	ES	**3000**	**0.2**	**0.2**	**0.2**	**400**	**400**	**100**	**250**

ALL VALUES IN ug/L (ppb)
ITALIC VALUES EXCEED NR 140 PAL
BOLD VALUES EXCEED NR 140 ES

0 160 320
SCALE IN FEET

REFERENCE NOTES:

1. EXISTING TOPOGRAPHY AND SITE FEATURES FROM LAND INFORMATION SERVICES, INC. - ENVIRONMENTAL SURVEY, 12/21/2001.
2. FORMER TAR PLANT STRUCTURES FROM THE SANBORN LIBRARY - EDR INQUIRY 2284158.1s, ©1950.
3. FORMER POND AND LAGOON LOCATIONS FROM 1937-1968 AERIAL PHOTOGRAPHY - COMPILED BY AERO-DATA CORPORATION, APRIL 2013.
4. FORMER WASTEWATER TREATMENT PLANT STRUCTURES FROM HARTMAN-STRASS, INC. - FILE NO. 72051-C-303, 12/1/1971.

TITLE: FORMER KOPPERS TAR PLANT AND WABASH ALLOYS SITE
SHALLOW GROUNDWATER PAH CONCENTRATIONS

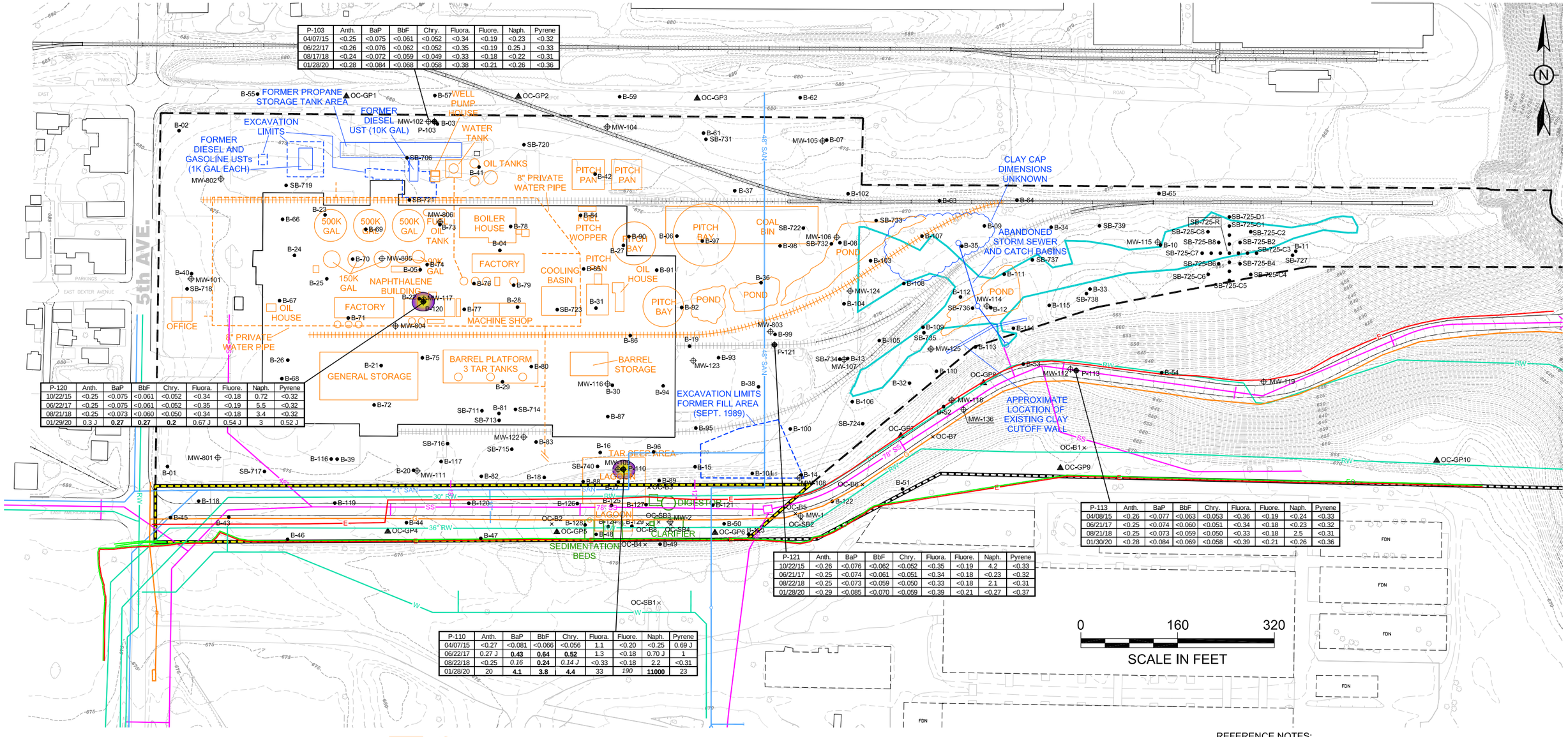
LOCATION: OAK CREEK, WISCONSIN

TETRA TECH

CHECKED	MRN
DRAFTED	CMP
PROJECT	117-2201417
DATE	3/6/20

FIGURE: 12

S:\CAD\BEAZER\WABASH\MARCH 2020\FIGURE 12_SHALLOW GW PAH CONC_2-28-20.DWG



P-103	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/07/15	<0.25	<0.075	<0.061	<0.052	<0.34	<0.19	<0.23	<0.32
06/22/17	<0.26	<0.076	<0.062	<0.052	<0.35	<0.19	0.25 J	<0.33
08/17/18	<0.24	<0.072	<0.059	<0.049	<0.33	<0.18	<0.22	<0.31
01/28/20	<0.28	<0.084	<0.068	<0.058	<0.38	<0.21	<0.26	<0.36

P-120	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
10/22/15	<0.25	<0.075	<0.061	<0.052	<0.34	<0.18	0.72	<0.32
06/22/17	<0.25	<0.075	<0.061	<0.052	<0.35	<0.19	5.5	<0.32
08/21/18	<0.25	<0.073	<0.060	<0.050	<0.34	<0.18	3.4	<0.32
01/29/20	0.3 J	**0.27**	**0.27**	**0.2**	0.67 J	0.54 J	3	0.52 J

P-110	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/07/15	<0.27	<0.081	<0.066	<0.056	1.1	<0.20	<0.25	0.69 J
06/22/17	0.27 J	**0.43**	**0.64**	**0.52**	1.3	<0.18	0.70 J	1
08/22/18	<0.25	*0.16*	**0.24**	*0.14 J*	<0.33	<0.18	2.2	<0.31
01/28/20	20	**4.1**	**3.8**	**4.4**	33	*190*	**11000**	23

P-113	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
04/08/15	<0.26	<0.077	<0.063	<0.053	<0.36	<0.19	<0.24	<0.33
06/21/17	<0.25	<0.074	<0.060	<0.051	<0.34	<0.18	<0.23	<0.32
08/21/18	<0.25	<0.073	<0.059	<0.050	<0.33	<0.18	2.5	<0.31
01/30/20	<0.28	<0.084	<0.069	<0.058	<0.39	<0.21	<0.26	<0.36

P-121	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
10/22/15	<0.26	<0.076	<0.062	<0.052	<0.35	<0.19	4.2	<0.33
06/21/17	<0.25	<0.074	<0.061	<0.051	<0.34	<0.18	<0.23	<0.32
08/22/18	<0.25	<0.073	<0.059	<0.050	<0.33	<0.18	2.1	<0.31
01/28/20	<0.29	<0.085	<0.070	<0.059	<0.39	<0.21	<0.27	<0.37

EXPLANATION

- MW-101 — WATER TABLE WELL
- P-103 — NESTED PIEZOMETER
- B-01 — SOIL BORING
- OC-SB1 — SOIL BORING (CITY OF OAK CREEK)
- OC-GP1 — GEOPROBE (CITY OF OAK CREEK)
- APPROXIMATE WABASH PARCEL BOUNDARY (VPLE 06-41-560068)
- APPROXIMATE CITY PARCEL BOUNDARY (VPLE # TBD)
- FORMER TAR PLANT STRUCTURES
- PAST REMEDIAL ACTIVITIES
- FORMER WASTEWATER TREATMENT PLANT STRUCTURES
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE CITY UTILITY CORRIDOR PROPERTY BOUNDARY
- E — ELECTRICAL
- G — NATURAL GAS
- RW — RAW WATER
- SAN — SANITARY
- SS — STORM SEWER
- FO — FIBER OPTIC
- APPROXIMATE AREA OF GROUNDWATER THAT EXCEEDS ENFORCEMENT STANDARD
- INTERMITTENT DETECTIONS ABOVE AND BELOW STANDARDS

	PAH	Anth.	BaP	BbF	Chry.	Fluora.	Fluore.	Naph.	Pyrene
WDNR	PAL	*600*	*0.02*	*0.02*	*0.02*	*80*	*80*	*10*	*50*
NR140	ES	**3000**	**0.2**	**0.2**	**0.2**	**400**	**400**	**100**	**250**

ALL VALUES IN ug/L (ppb)
ITALIC VALUES EXCEED NR 140 PAL
BOLD VALUES EXCEED NR 140 ES

REFERENCE NOTES:

1. EXISTING TOPOGRAPHY AND SITE FEATURES FROM LAND INFORMATION SERVICES, INC. - ENVIRONMENTAL SURVEY, 12/21/2001.
2. FORMER TAR PLANT STRUCTURES FROM THE SANBORN LIBRARY - EDR INQUIRY 2284158.1s, ©1950.
3. FORMER POND AND LAGOON LOCATIONS FROM 1937-1968 AERIAL PHOTOGRAPHY - COMPILED BY AERO-DATA CORPORATION, APRIL 2013.
4. FORMER WASTEWATER TREATMENT PLANT STRUCTURES FROM HARTMAN-STRASS, INC. - FILE NO. 72051-C-303, 12/1/1971.

TITLE: FORMER KOPPERS TAR PLANT AND WABASH ALLOYS SITE
DEEP GROUNDWATER PAH CONCENTRATIONS

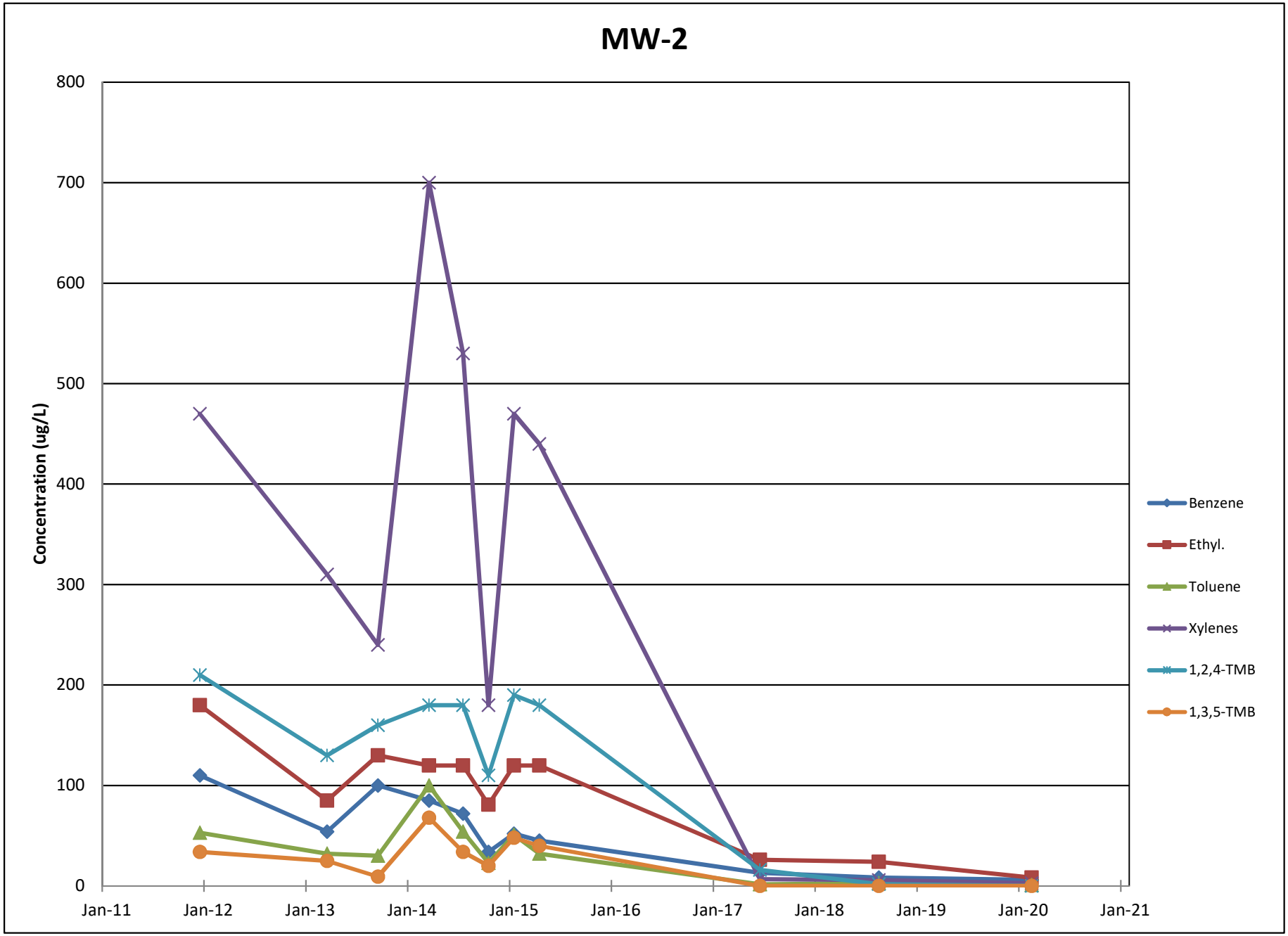
LOCATION: OAK CREEK, WISCONSIN

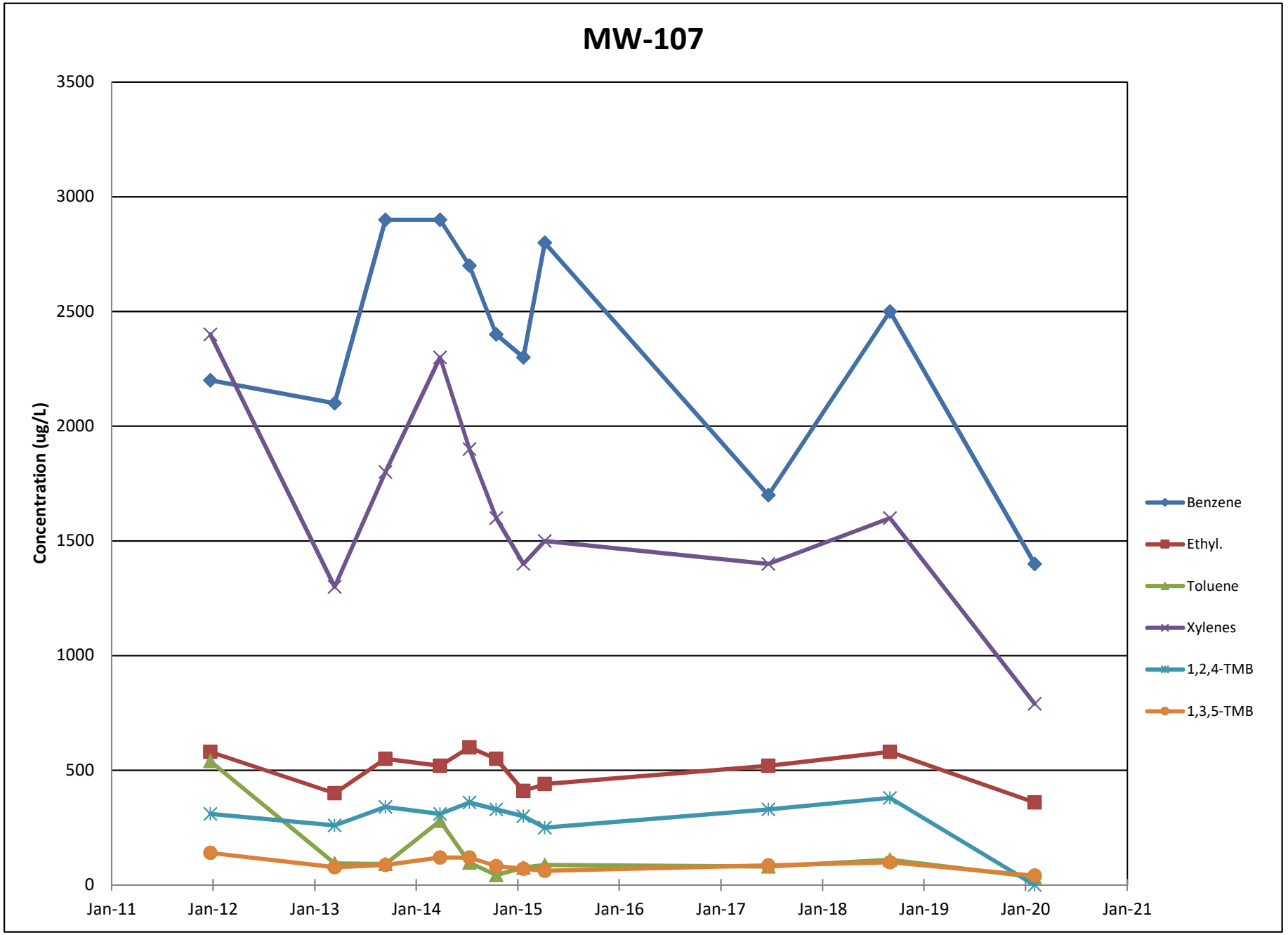
TETRA TECH

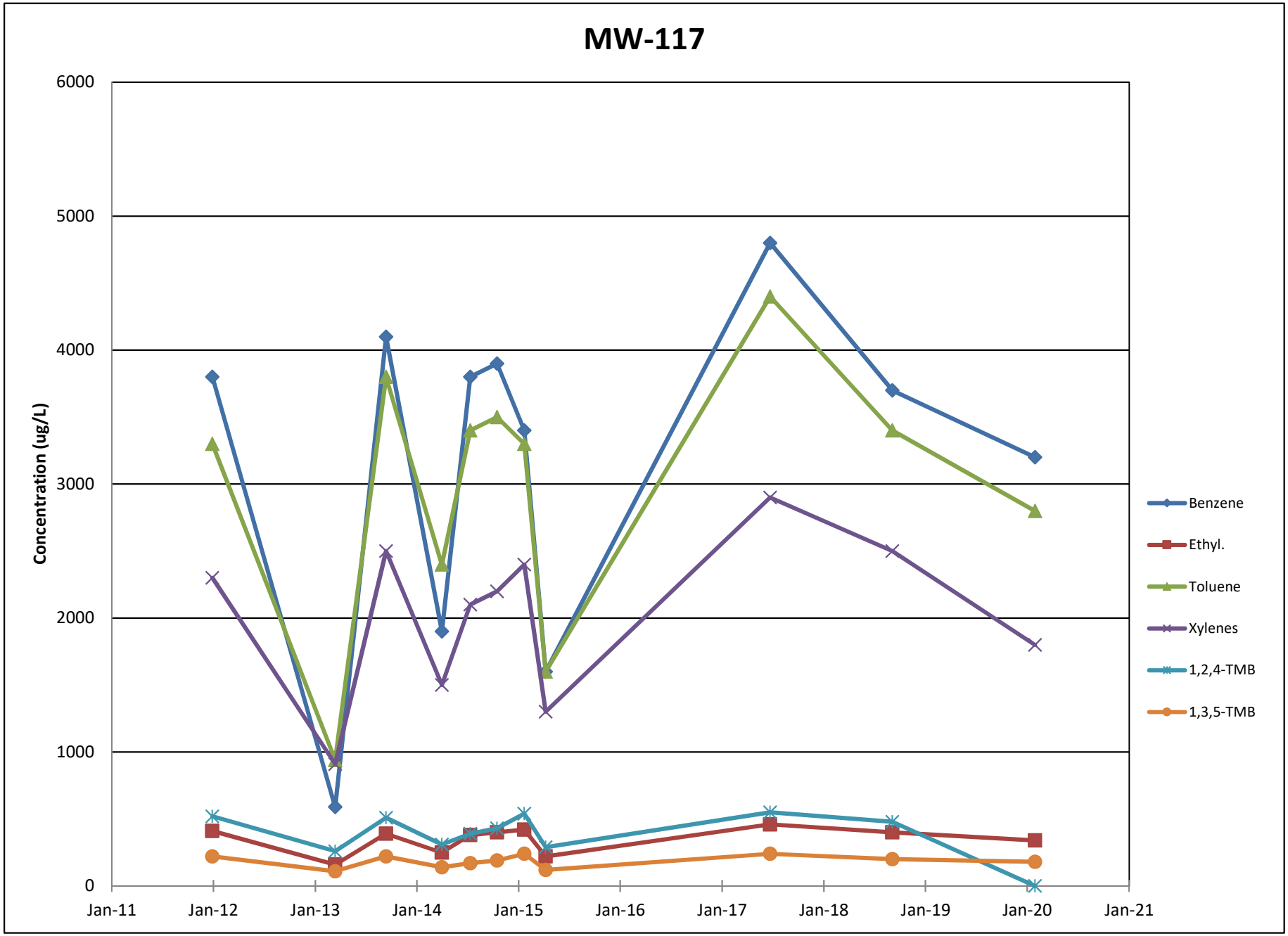
CHECKED	MRN
DRAFTED	CMP
PROJECT	117-2201417
DATE	3/6/20

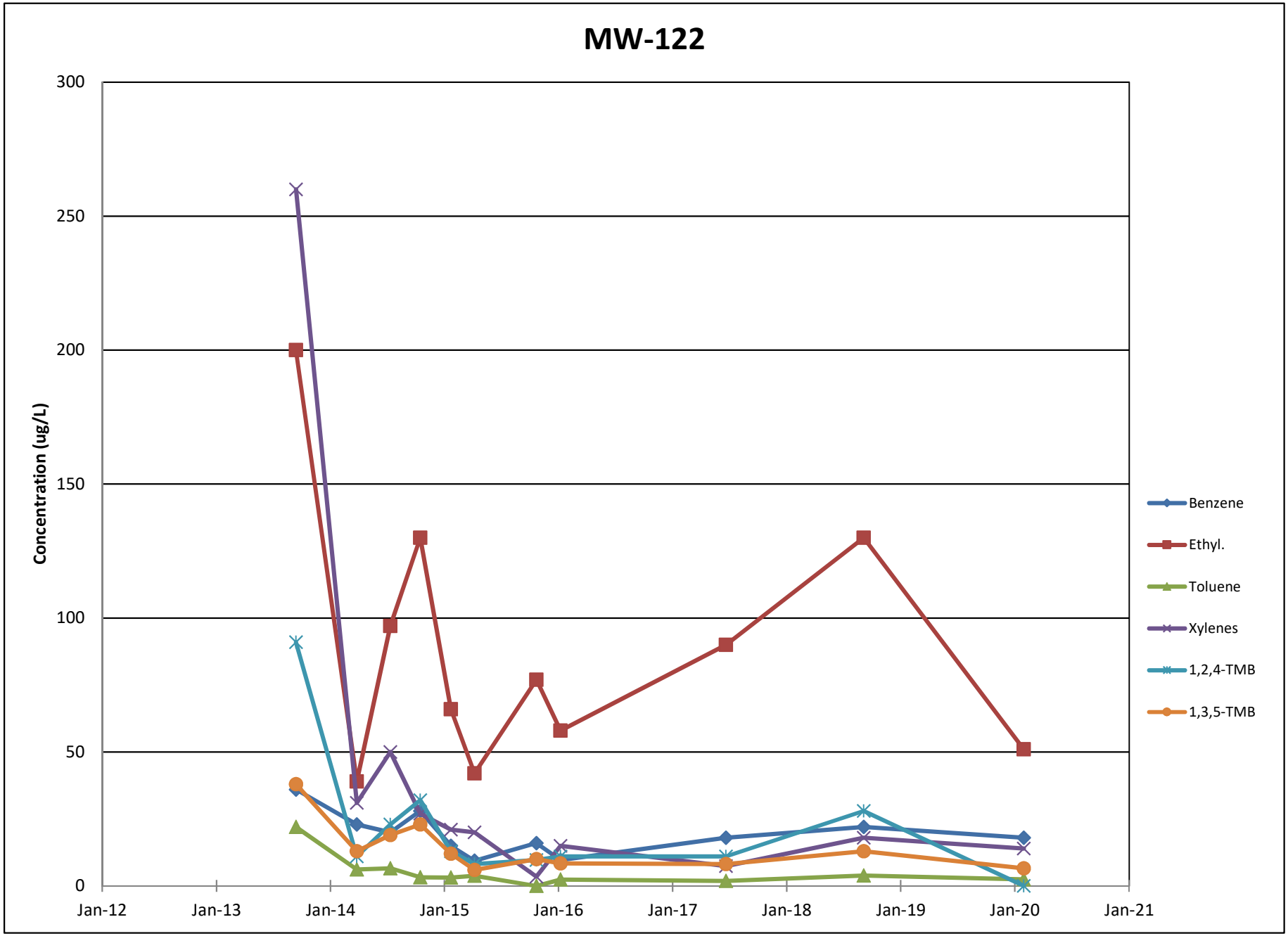
FIGURE: 13

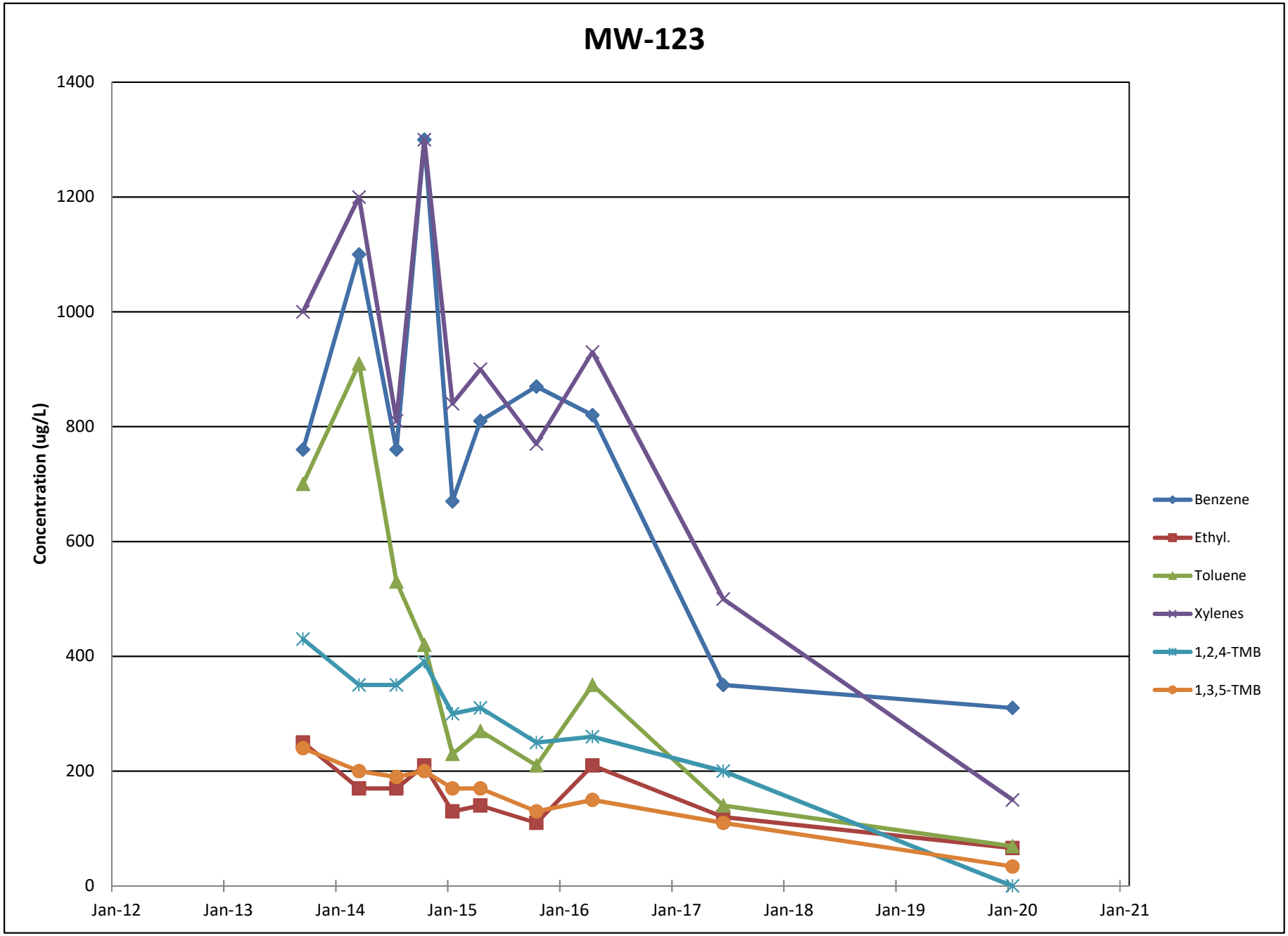
S:\CAD\BEAZER\WABASH\MARCH 2020\FIGURE 13_DEEP GW PAH CONC_2-28-20.DWG

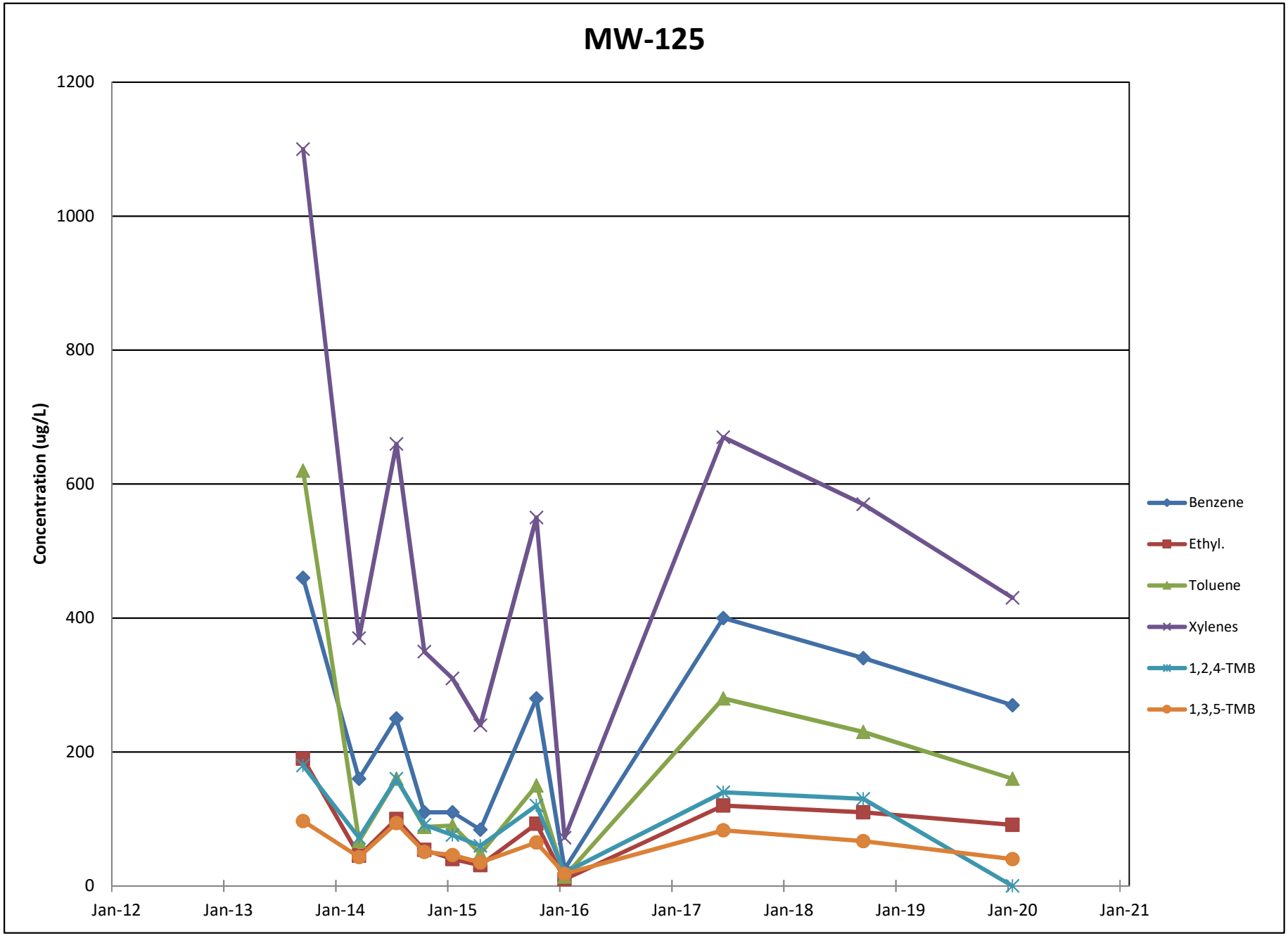

MW-2
Concentration (ug/L)
800
700
600
500
400
300
200
100
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

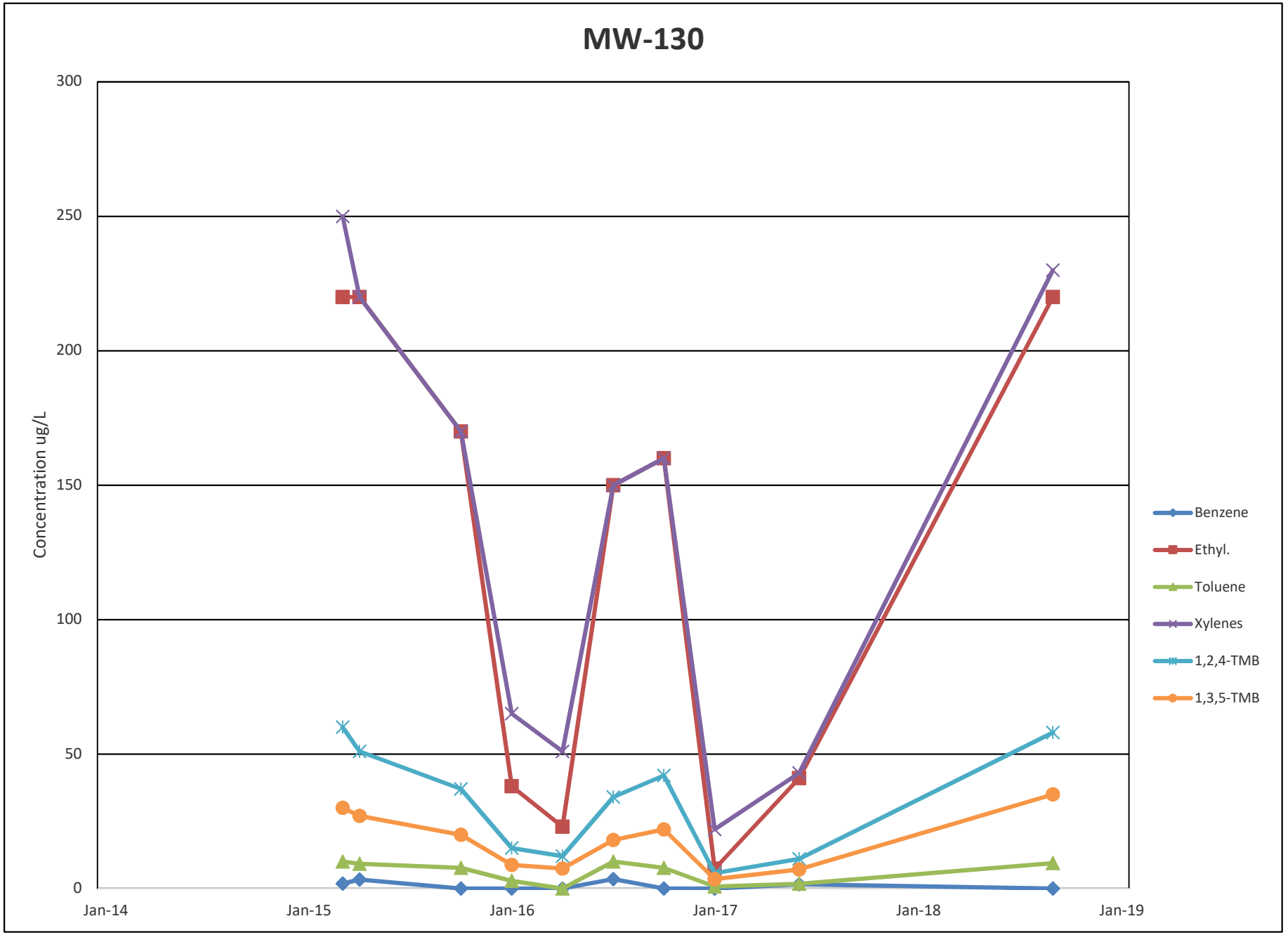

MW-107
Concentration (ug/L)
3500
3000
2500
2000
1500
1000
500
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

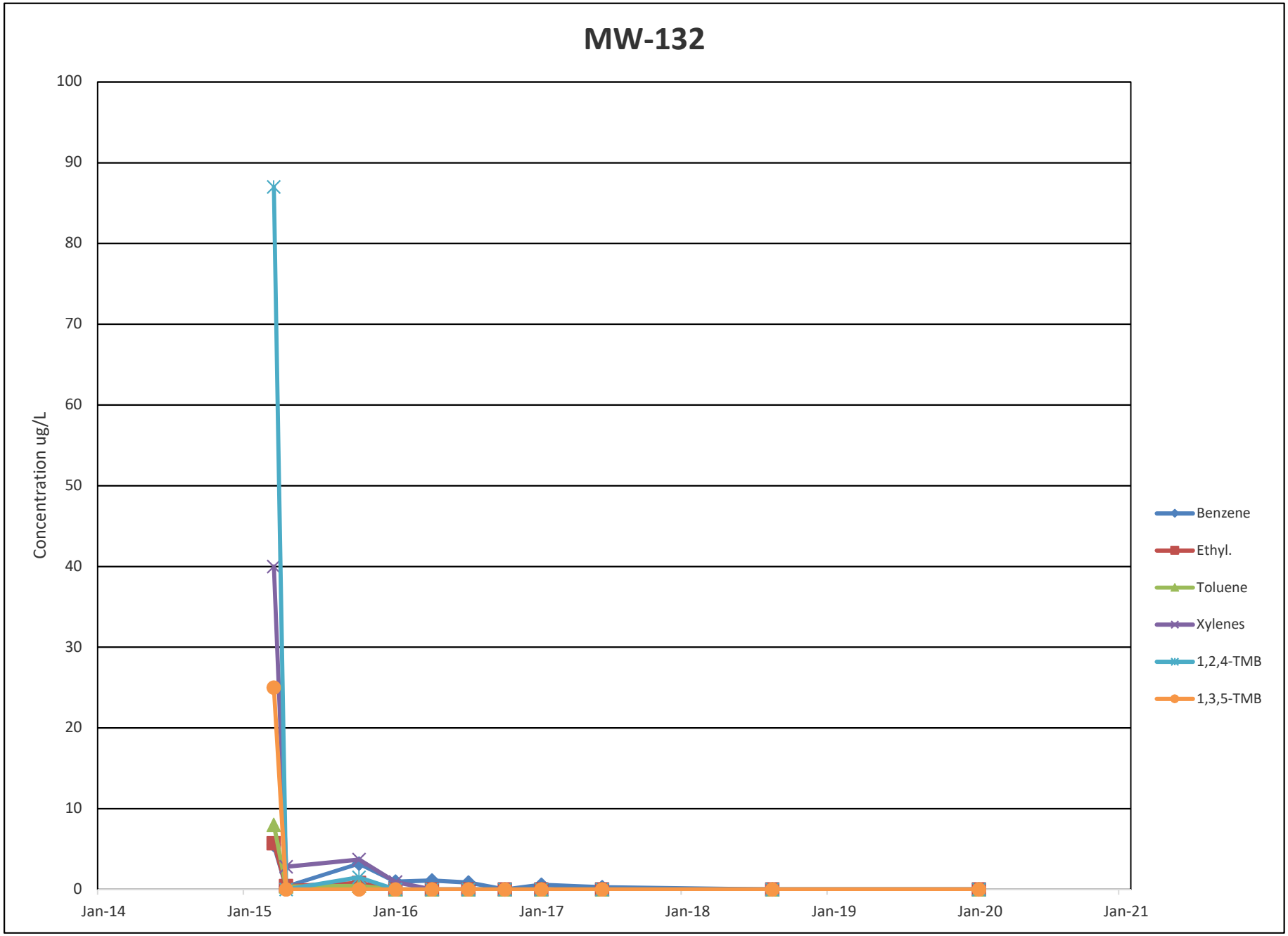

MW-117
6000
5000
4000
3000
2000
1000
0
Concentration (ug/L)
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

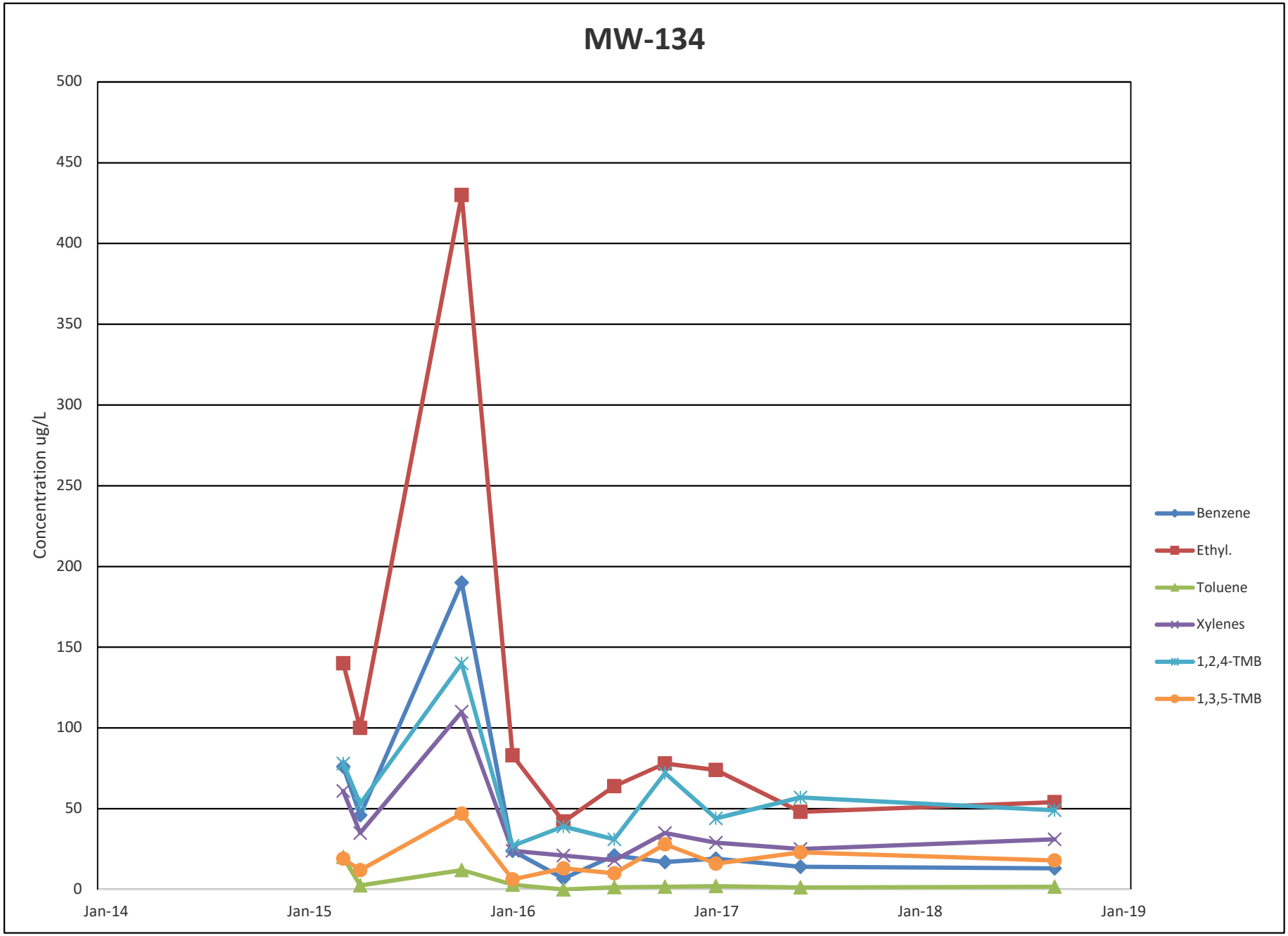

MW-122
Concentration (ug/L)
300
250
200
150
100
50
0
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

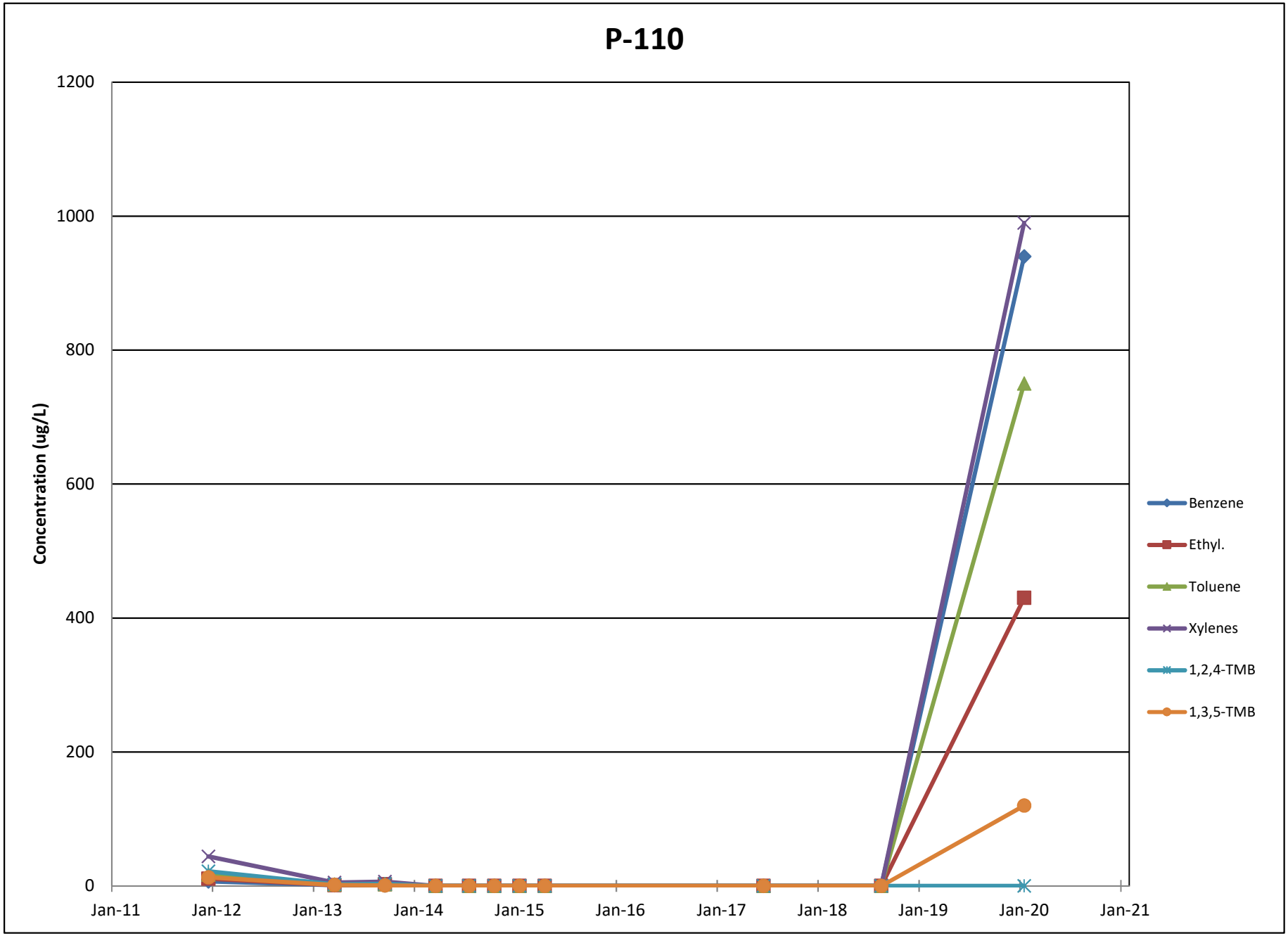

MW-123
Concentration (ug/L)
1400
1200
1000
800
600
400
200
0
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

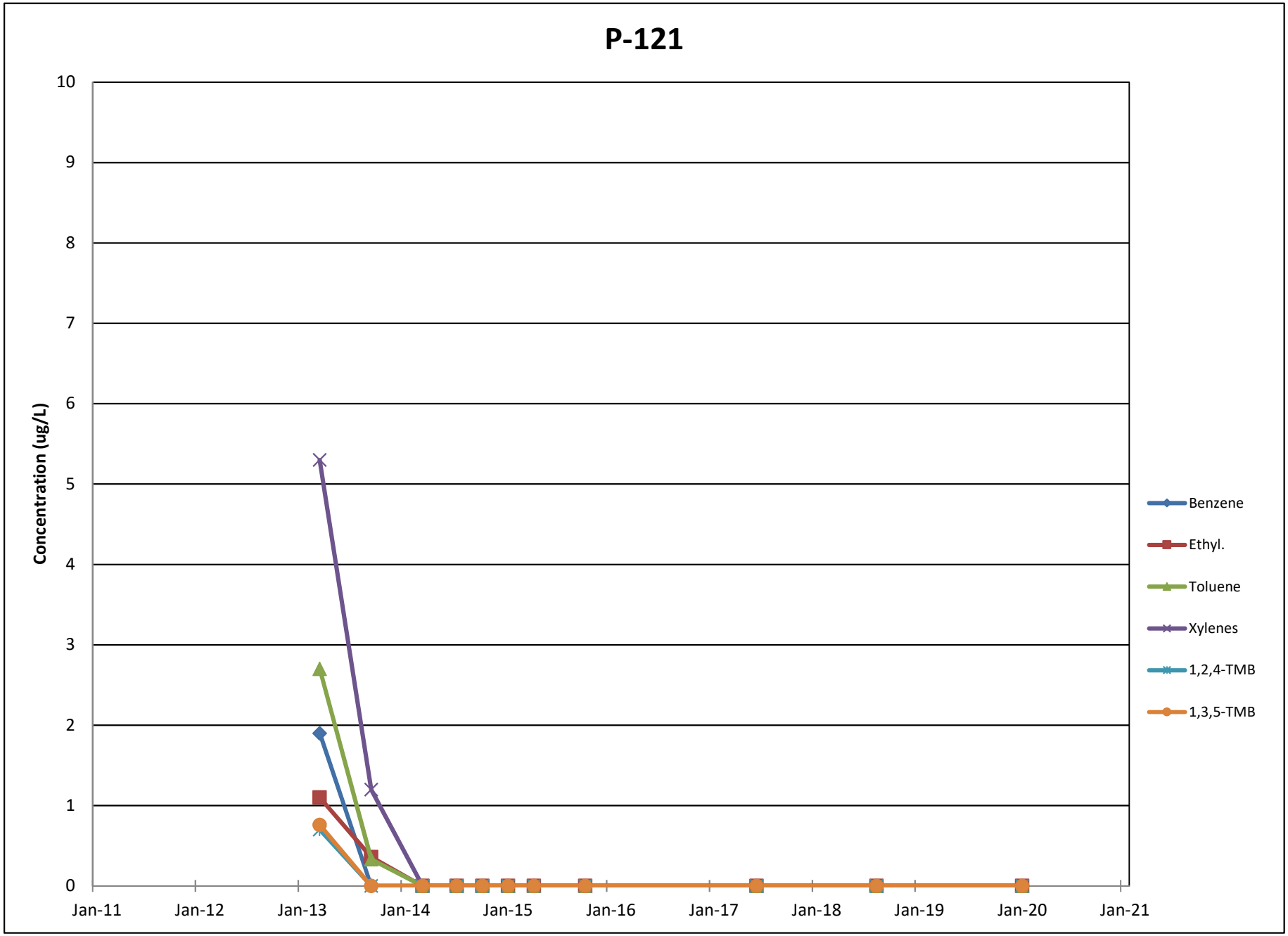

MW-125
Concentration (ug/L)
1200
1000
800
600
400
200
0
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

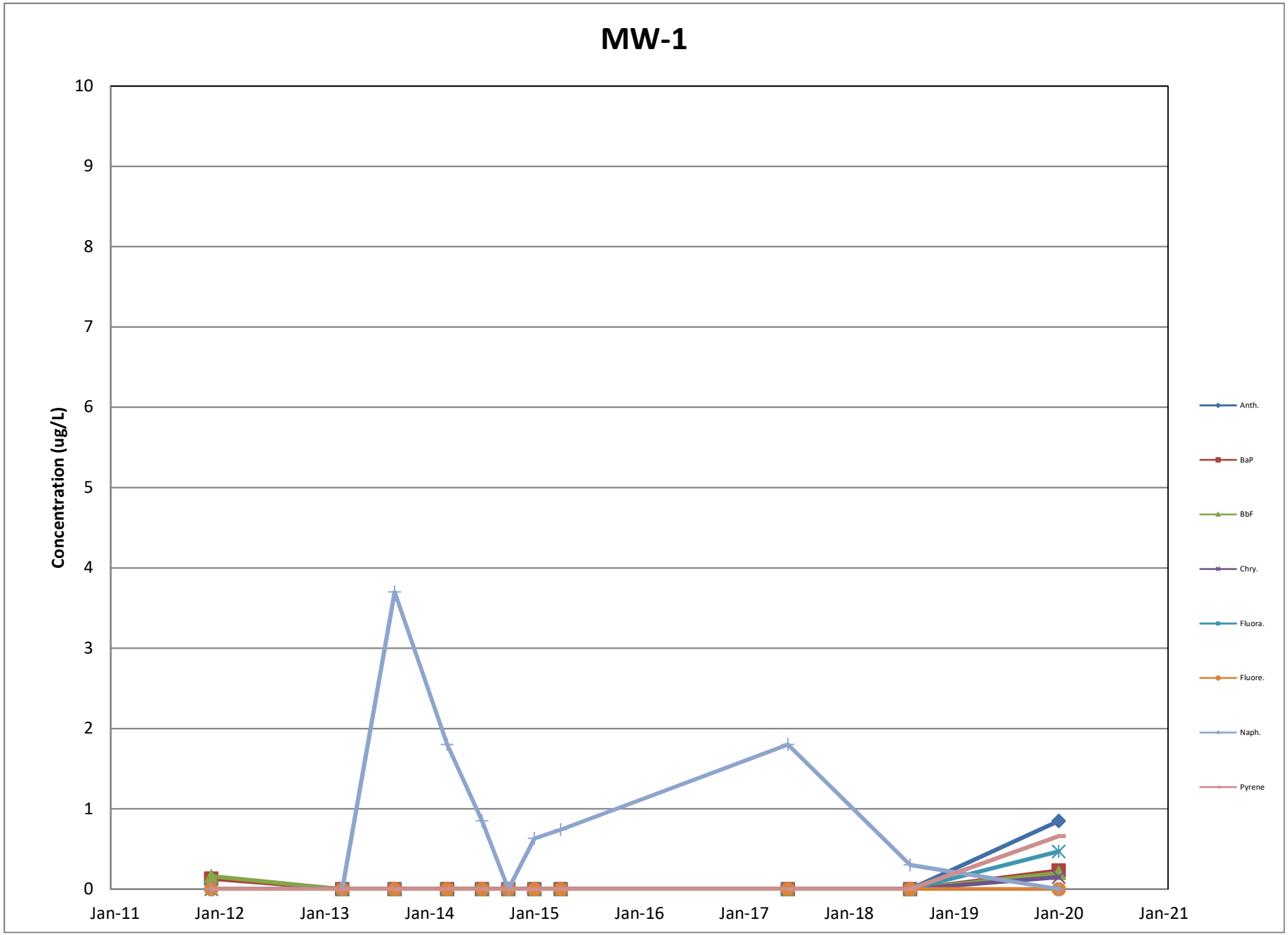

MW-130
300
250
200
150
100
50
0
Concentration ug/L
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

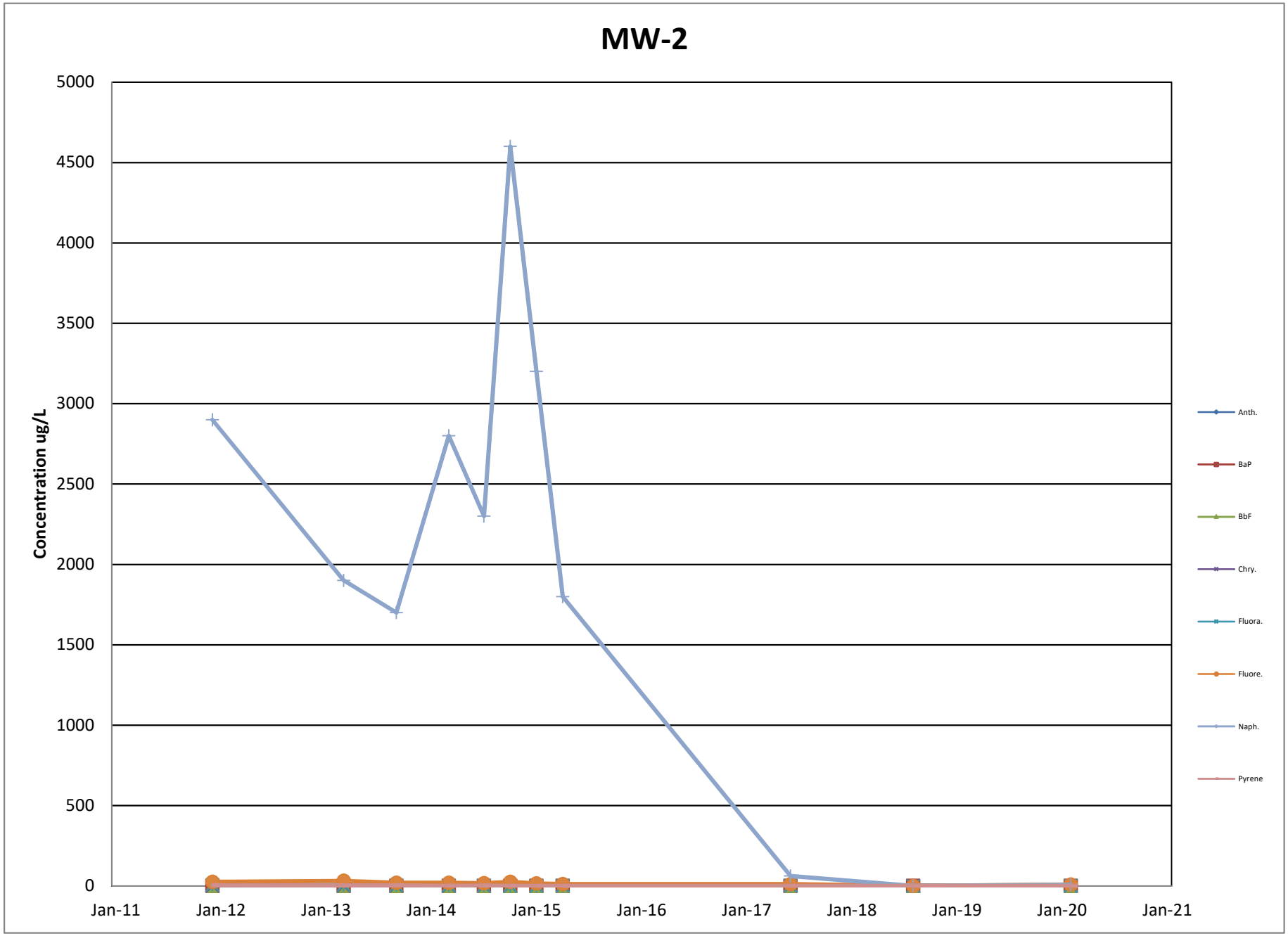

MW-132
100
90
80
70
60
50
40
30
20
10
0
Concentration ug/L
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

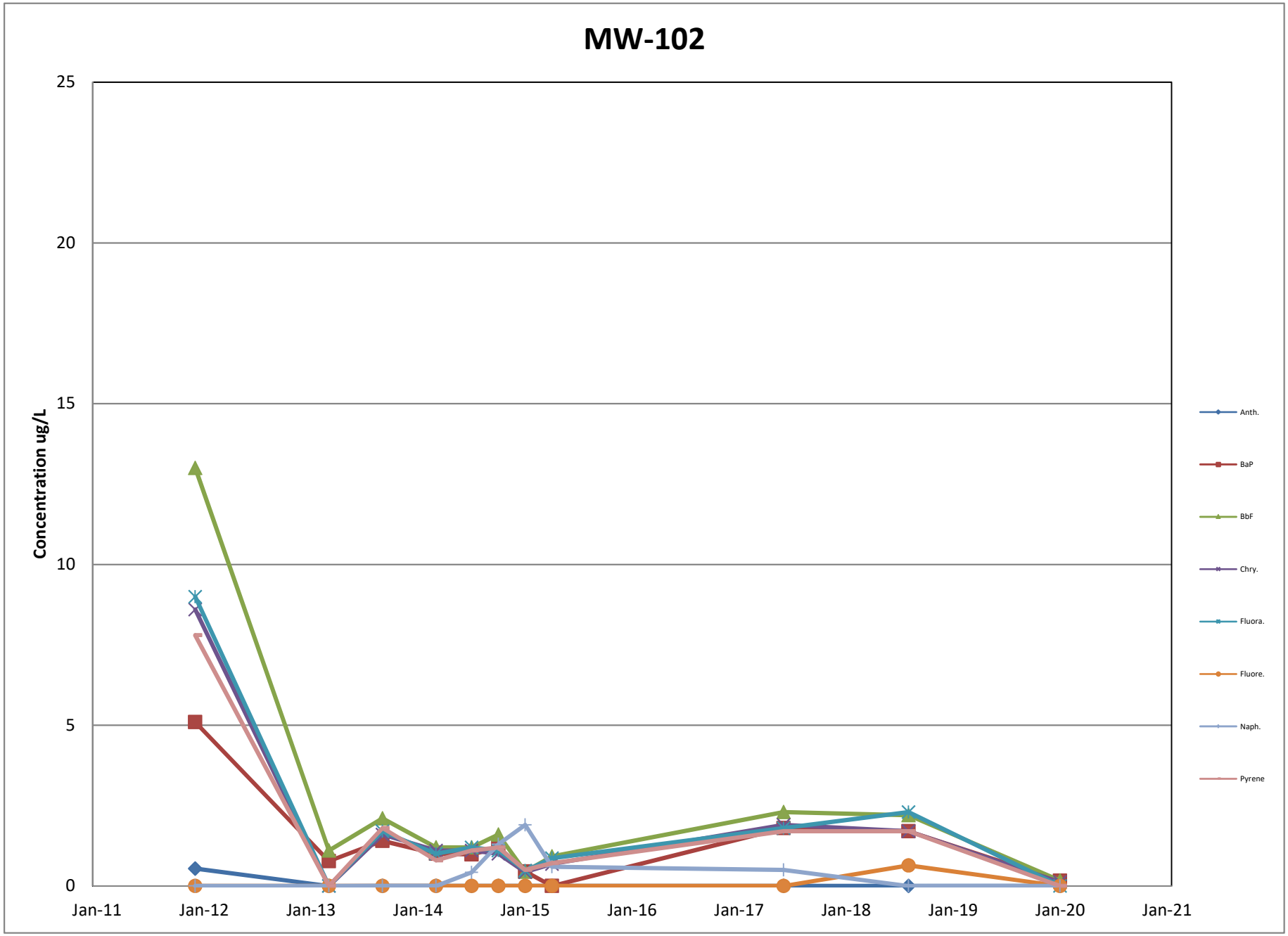

MW-134
500
450
400
350
300
250
200
150
100
50
0
Concentration ug/L
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

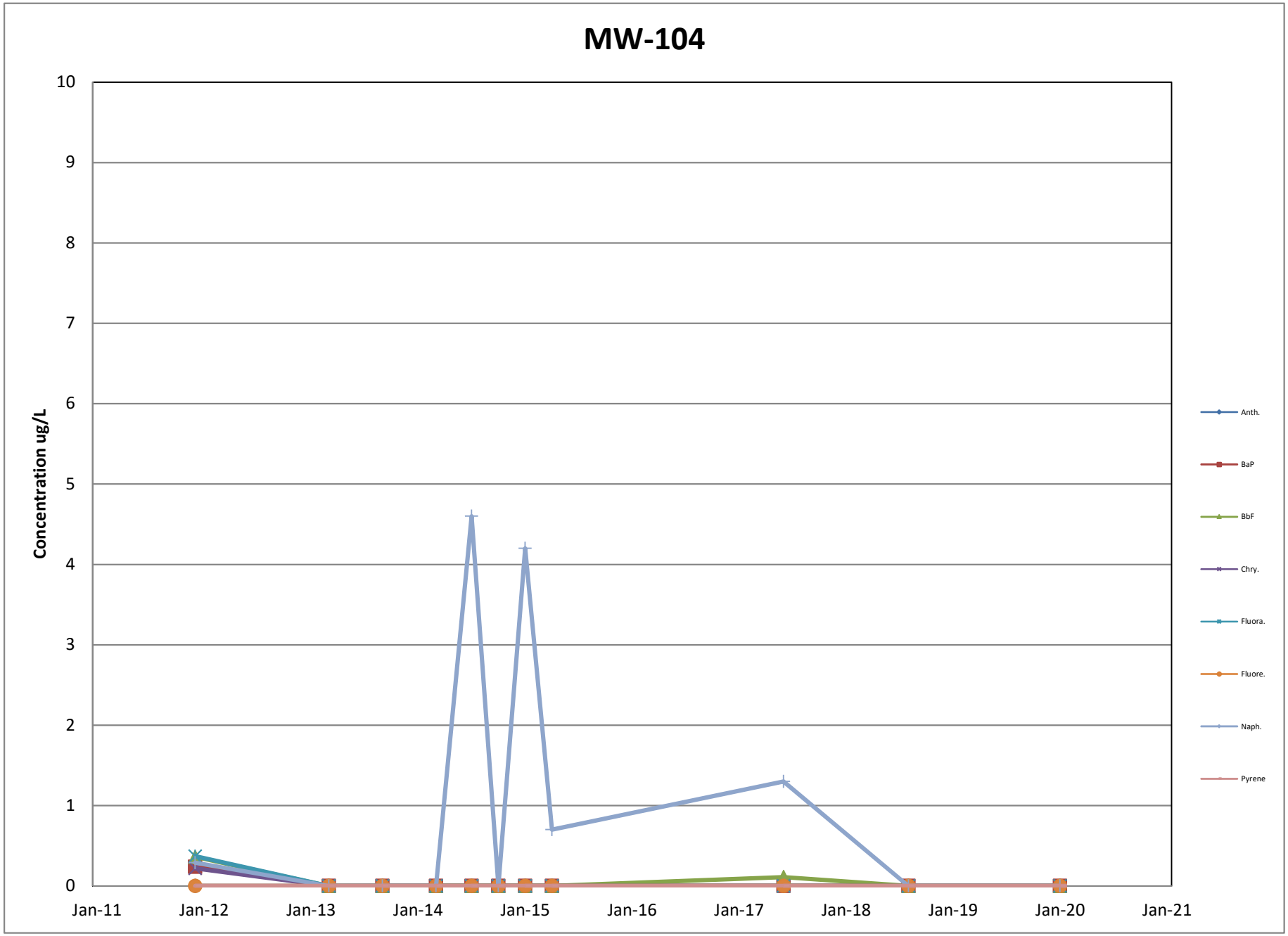

P-110
1200
1000
800
600
400
200
0
Concentration (ug/L)
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

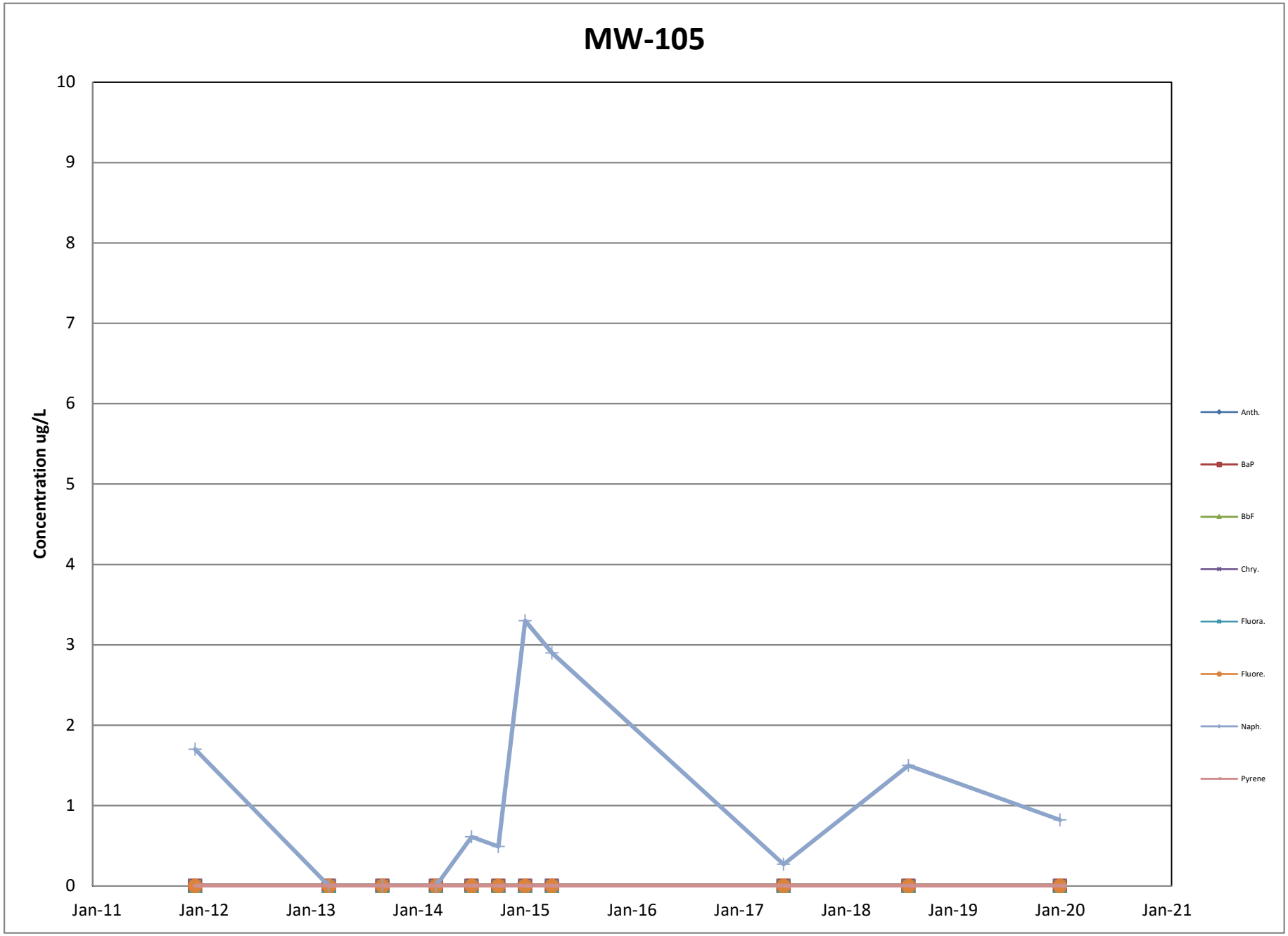

P-121
Concentration (ug/L)
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Benzene
Ethyl.
Toluene
Xylenes
1,2,4-TMB
1,3,5-TMB

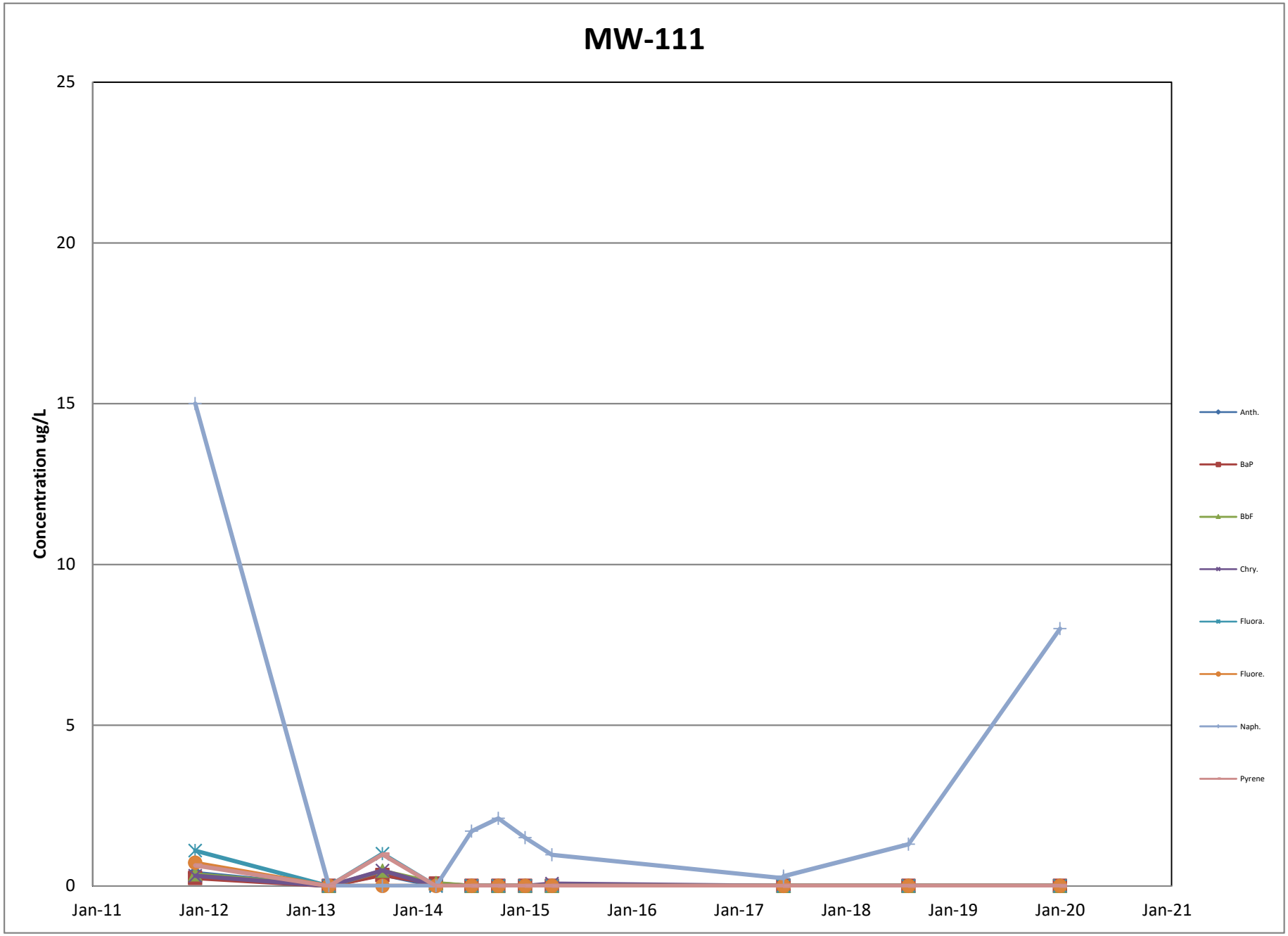

MW-1
Concentration (ug/L)
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

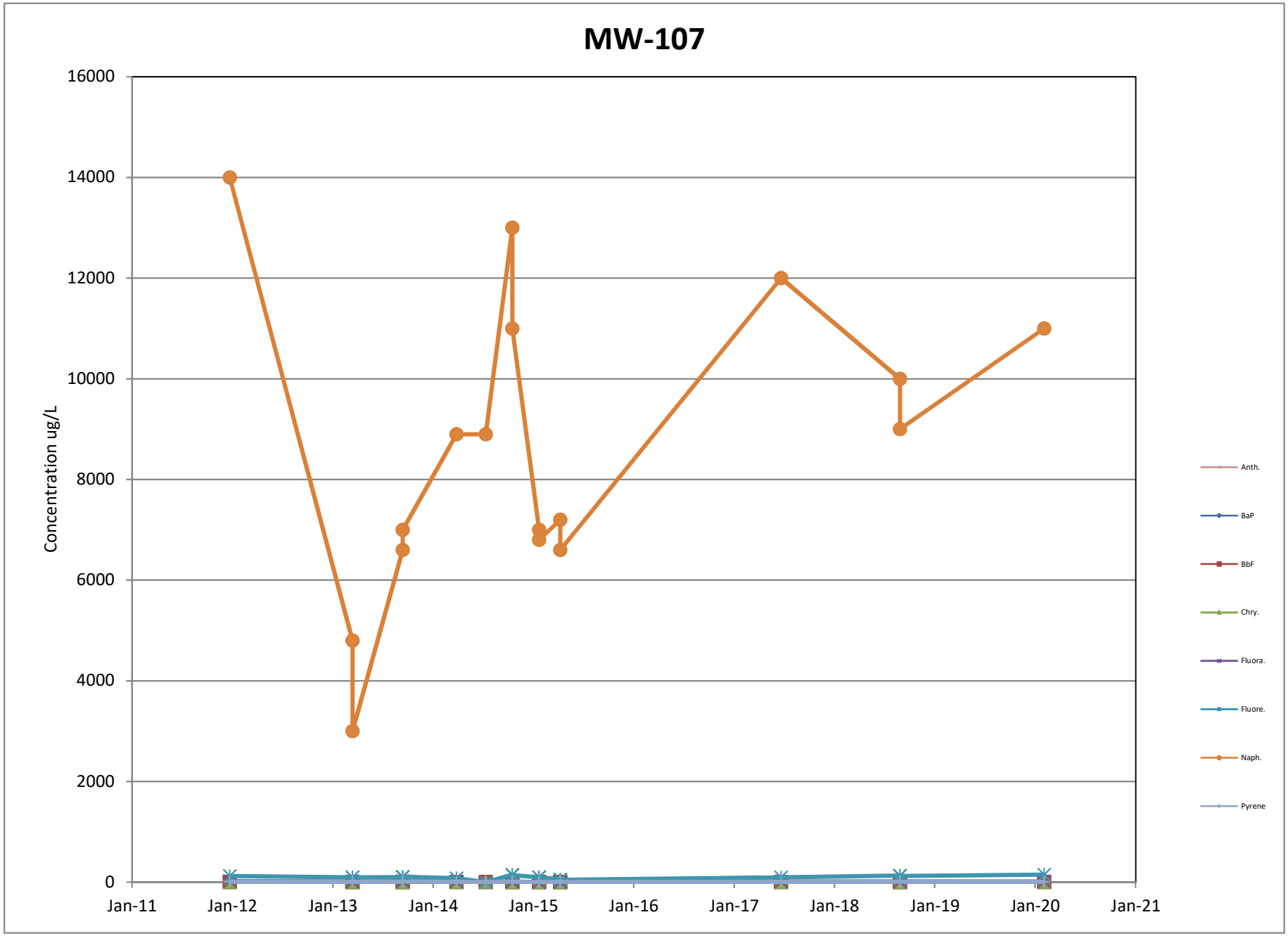

MW-2
Concentration ug/L
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

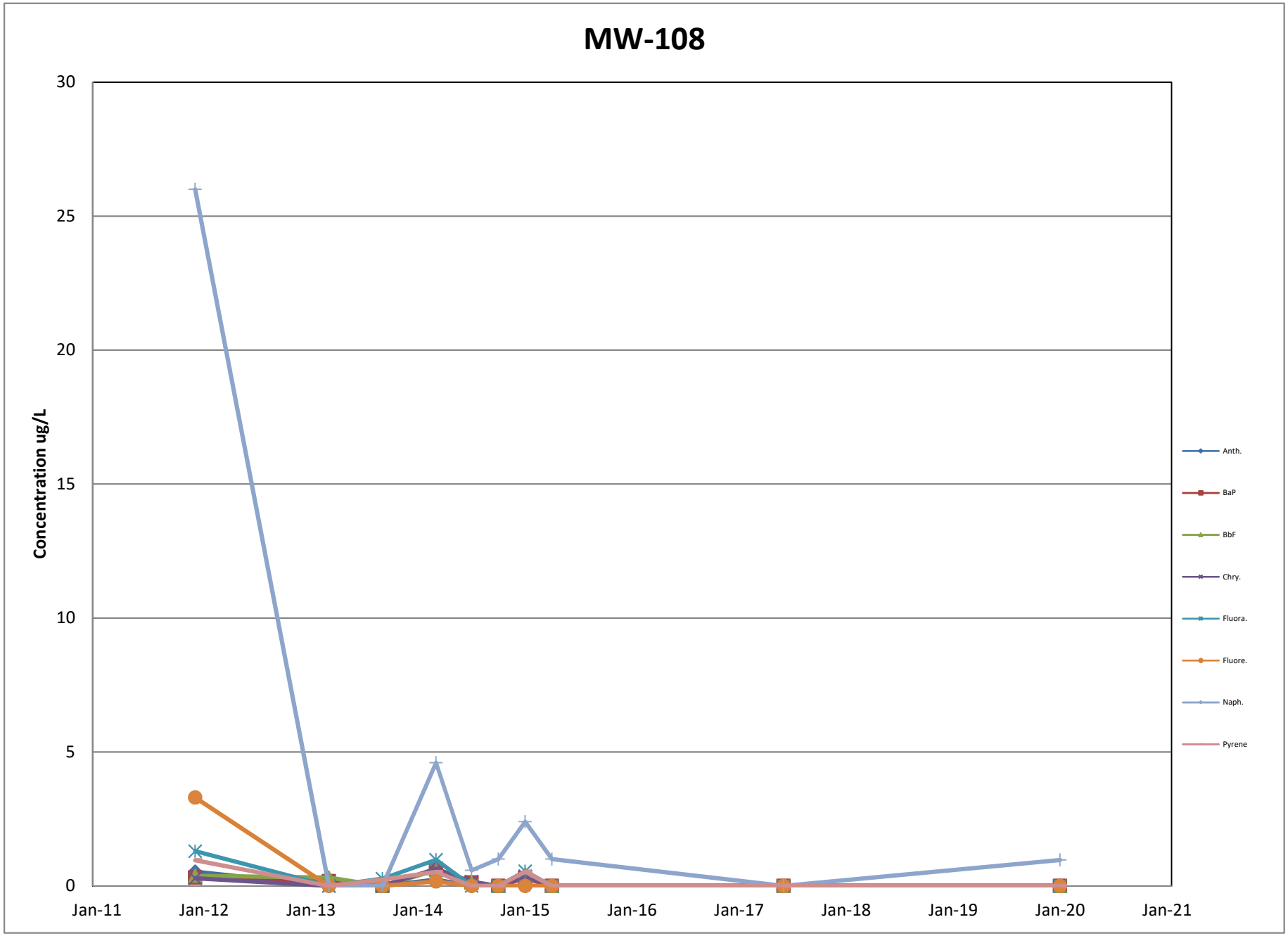

MW-102
Concentration ug/L
25
20
15
10
5
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

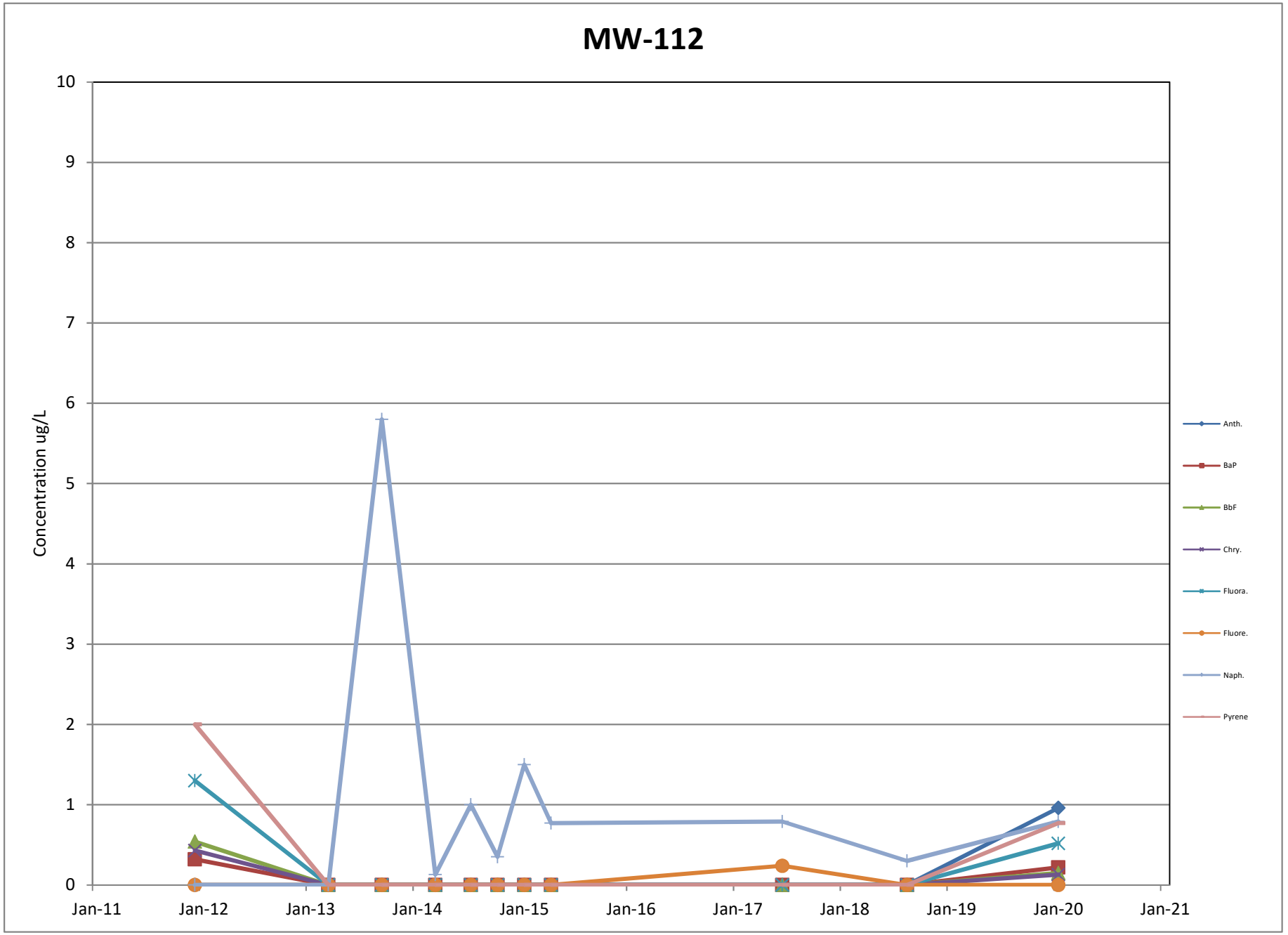

MW-104
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


MW-105
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


MW-111
Concentration ug/L
25
20
15
10
5
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


MW-107
16000
14000
12000
10000
8000
6000
4000
2000
0
Concentration ug/L
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


MW-108
Concentration ug/L
30
25
20
15
10
5
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


MW-112
Concentration ug/L
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9
8
7
6
5
4
3
2
1
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Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
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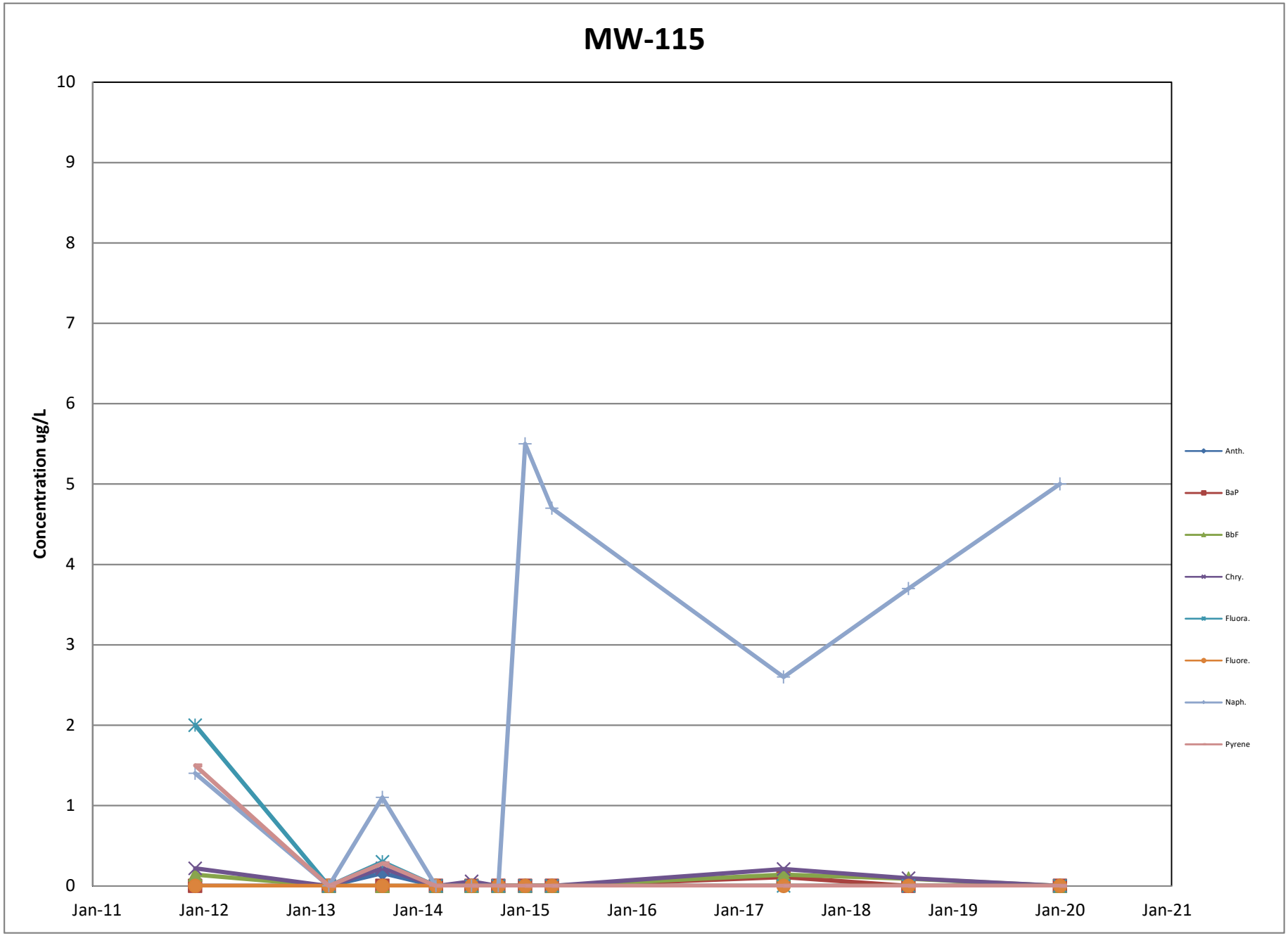
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


MW-115
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
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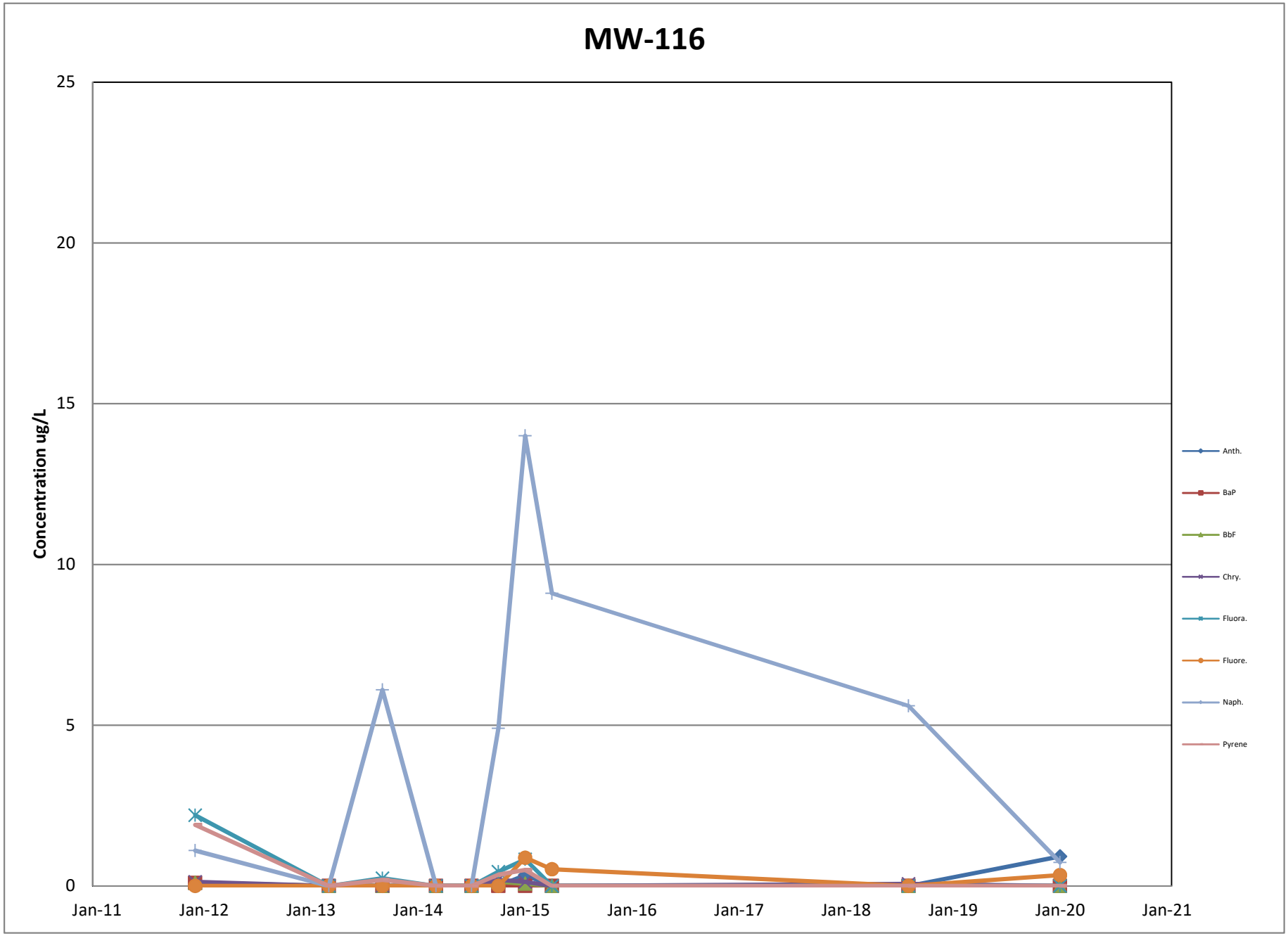
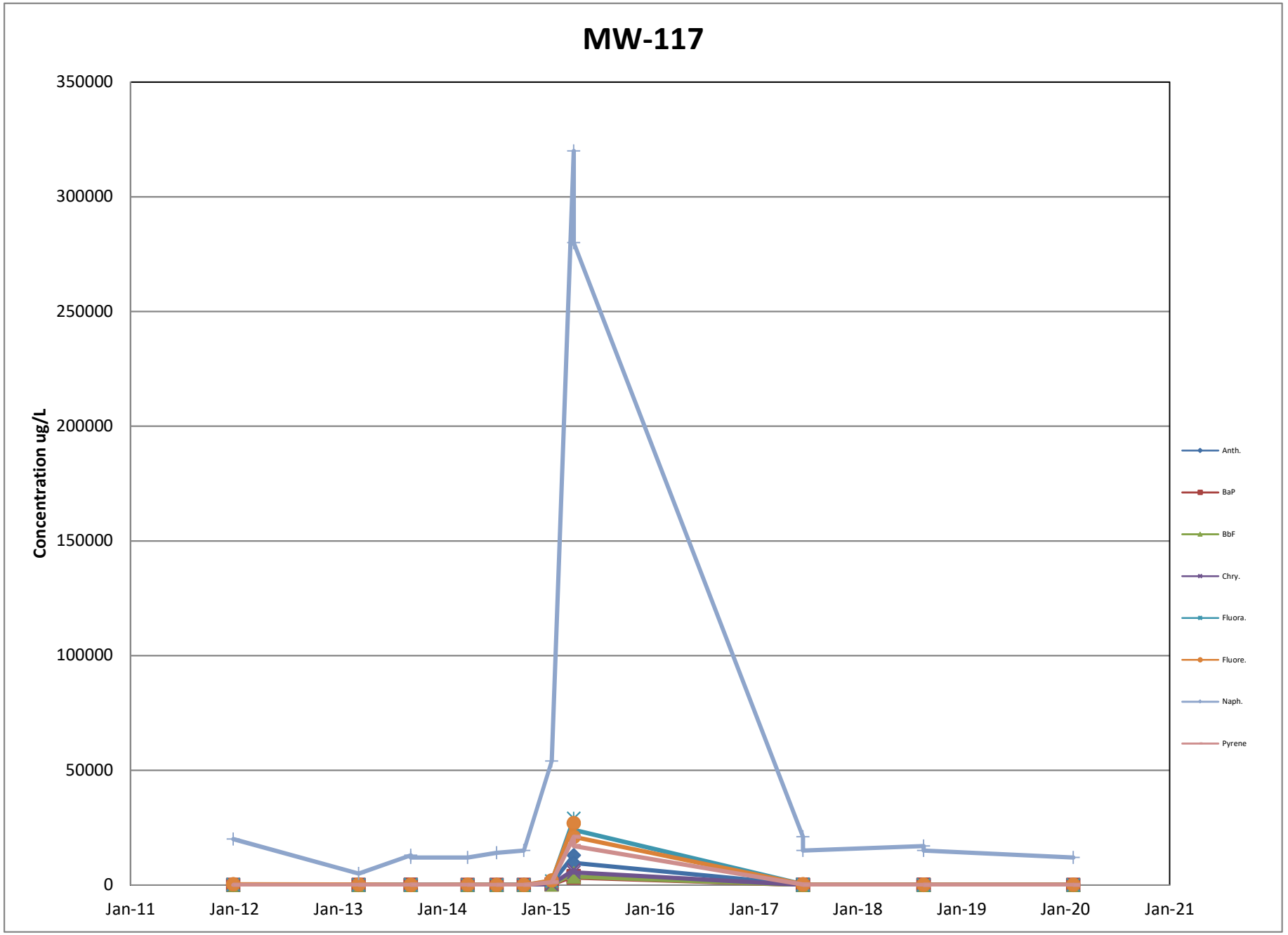
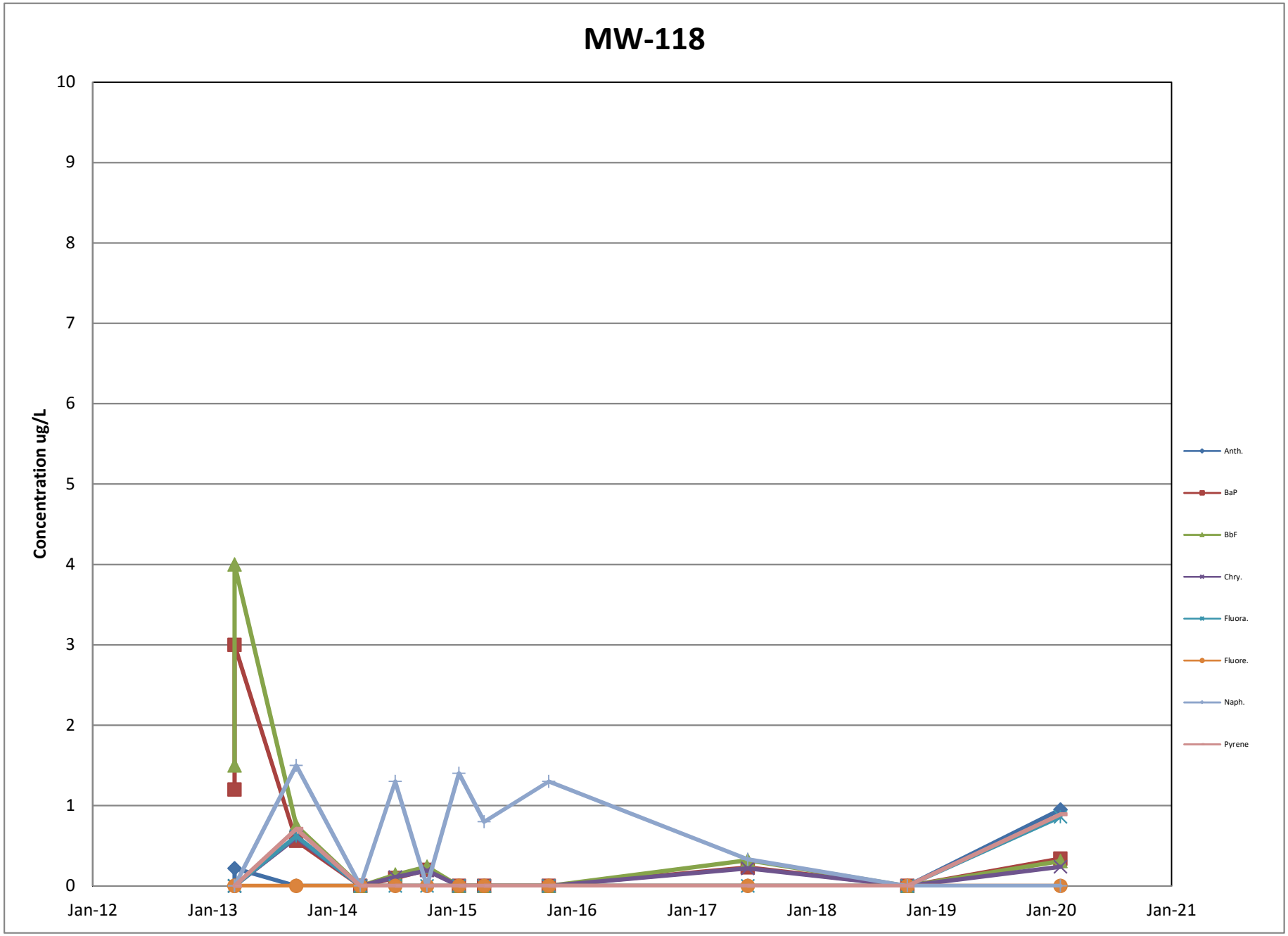
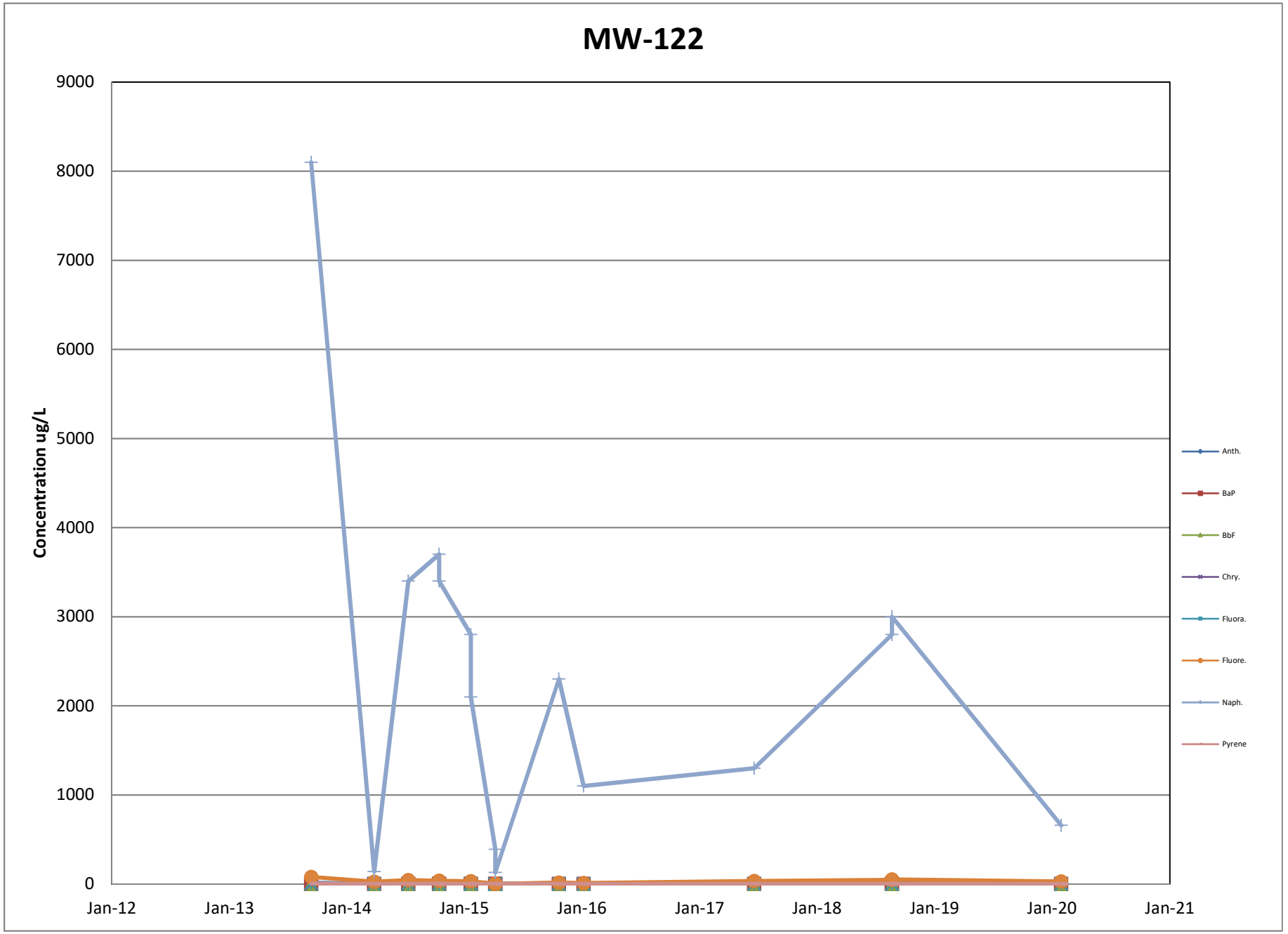
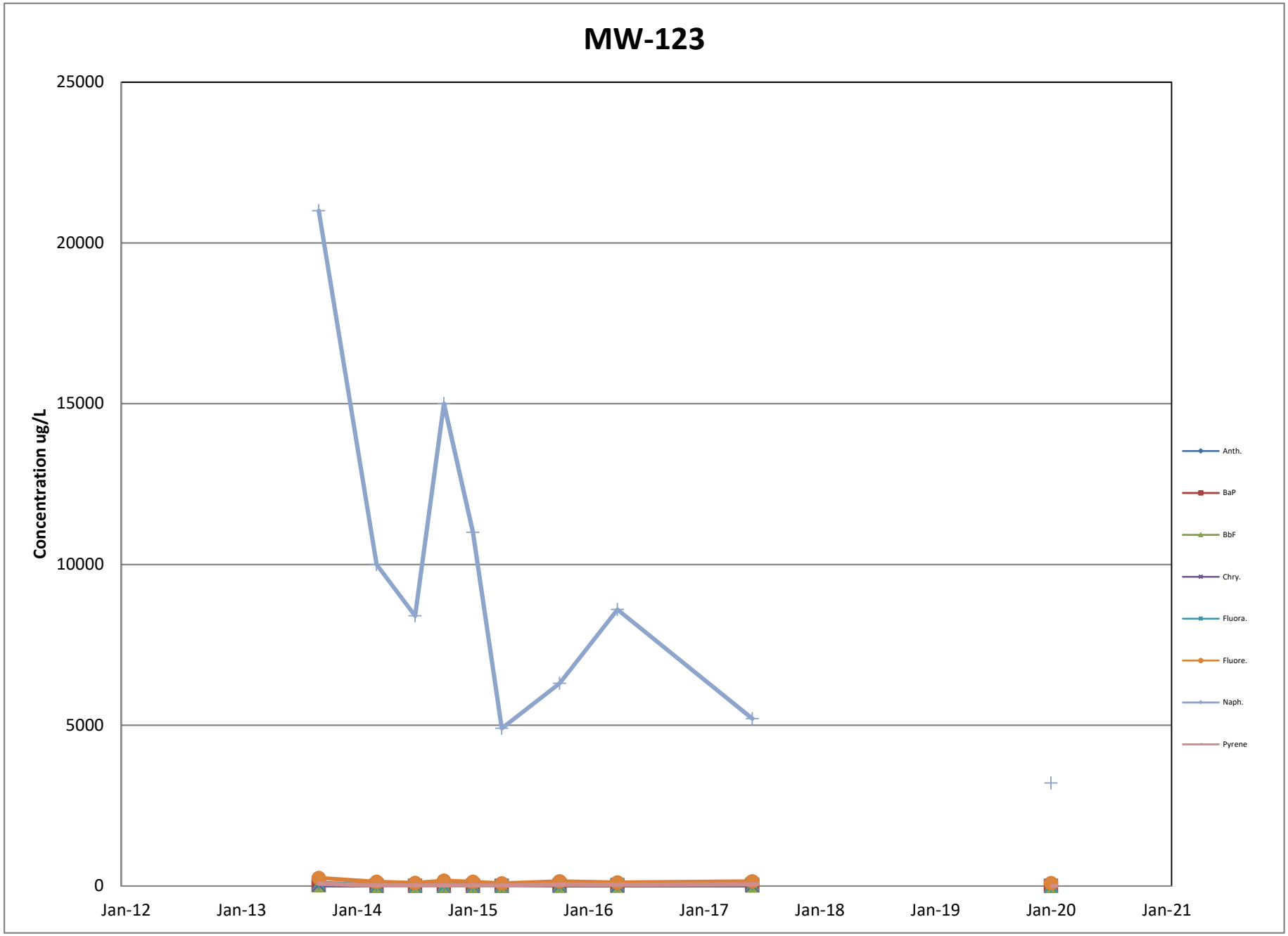
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

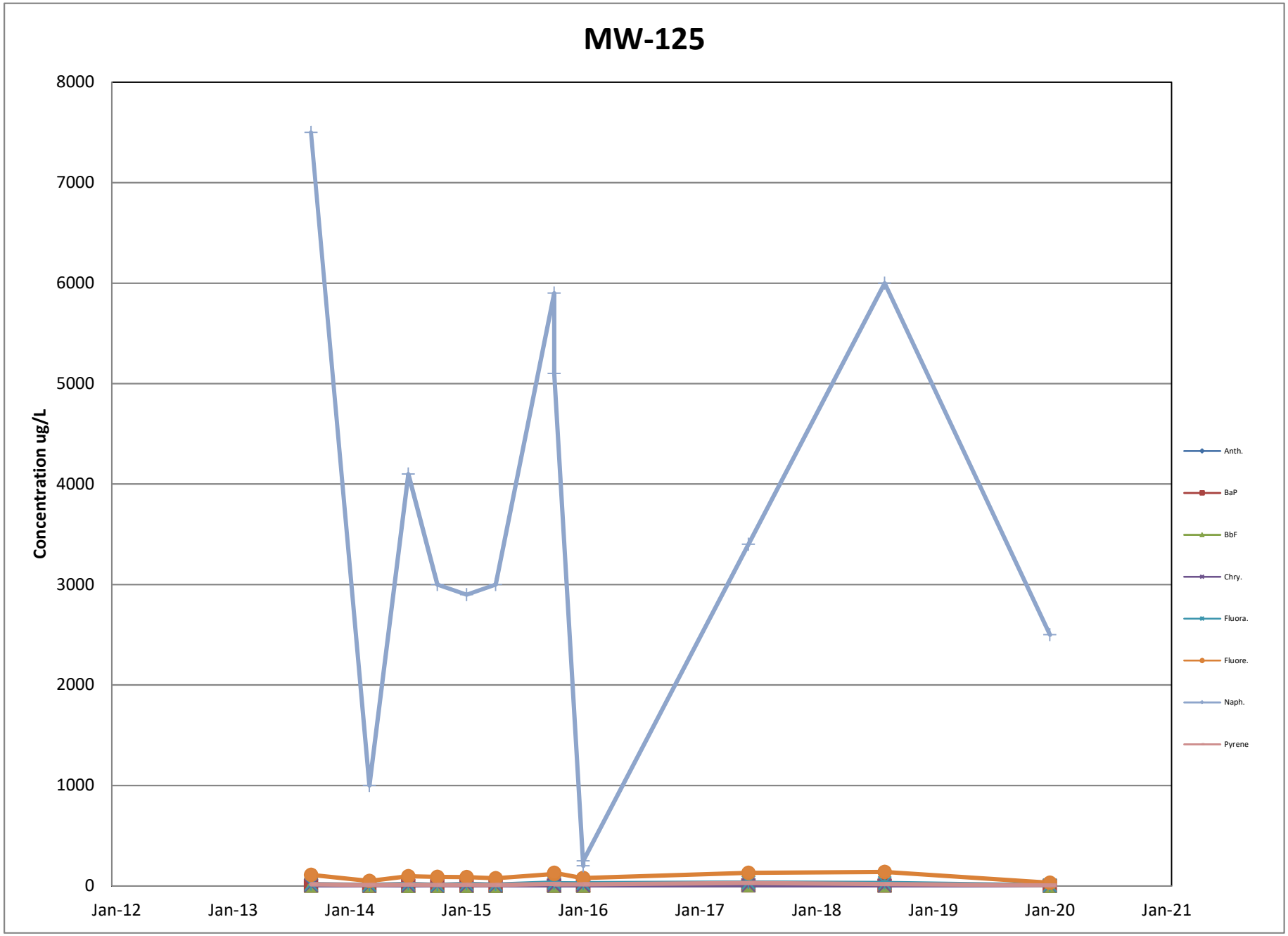

MW-116
Concentration ug/L
25
20
15
10
5
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

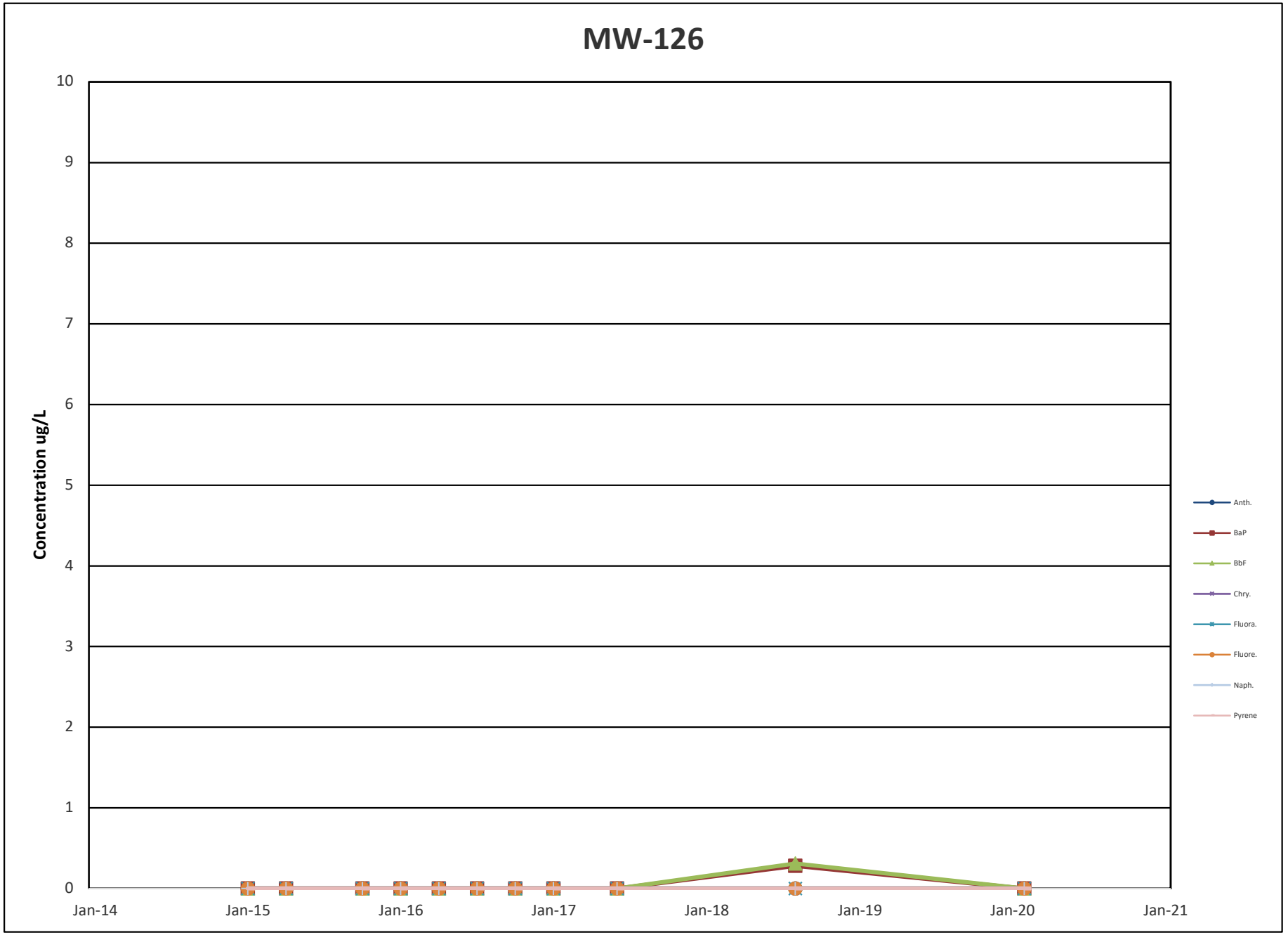

MW-117
350000
300000
250000
200000
150000
100000
50000
0
Concentration ug/L
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

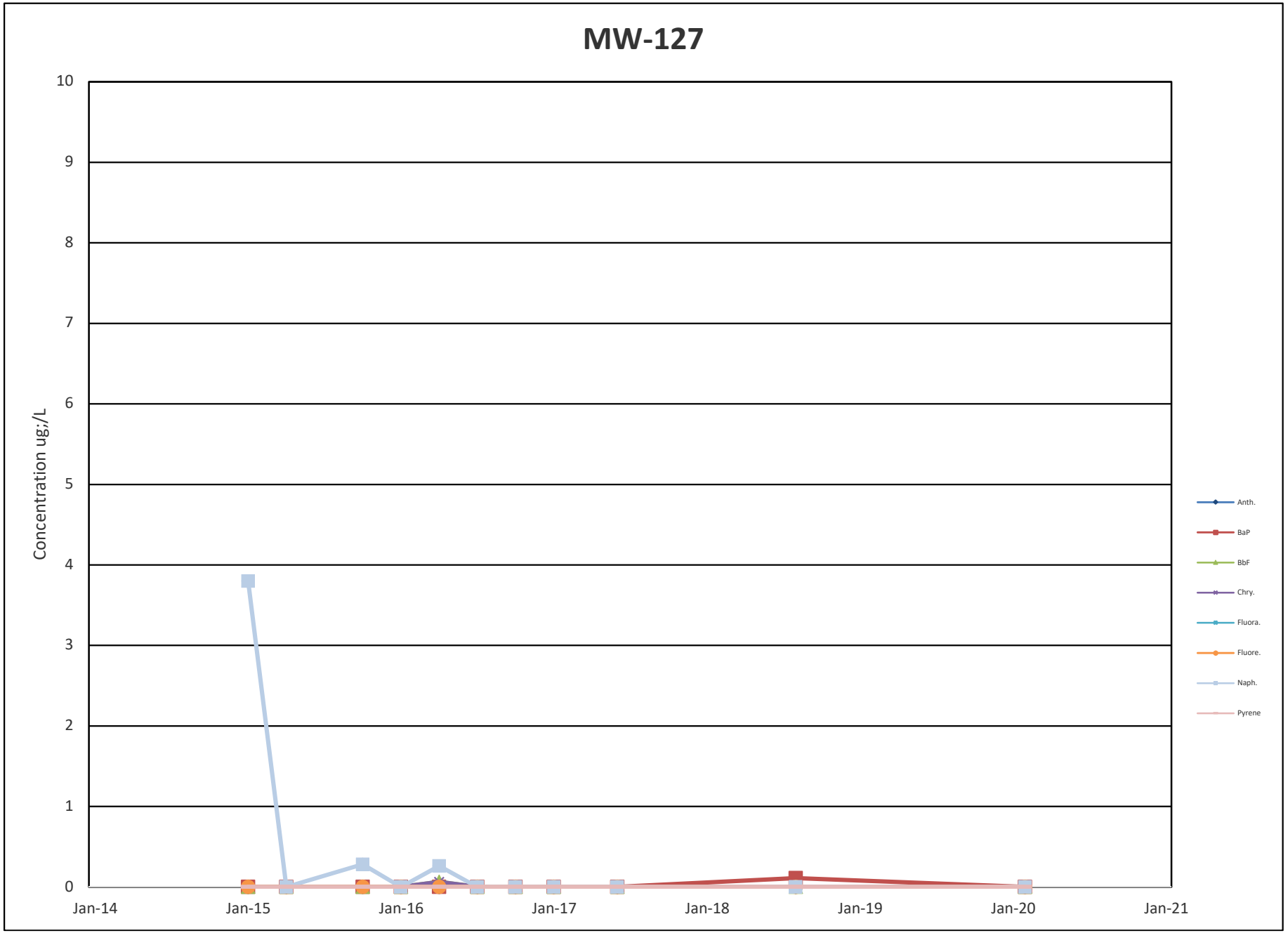

MW-118
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

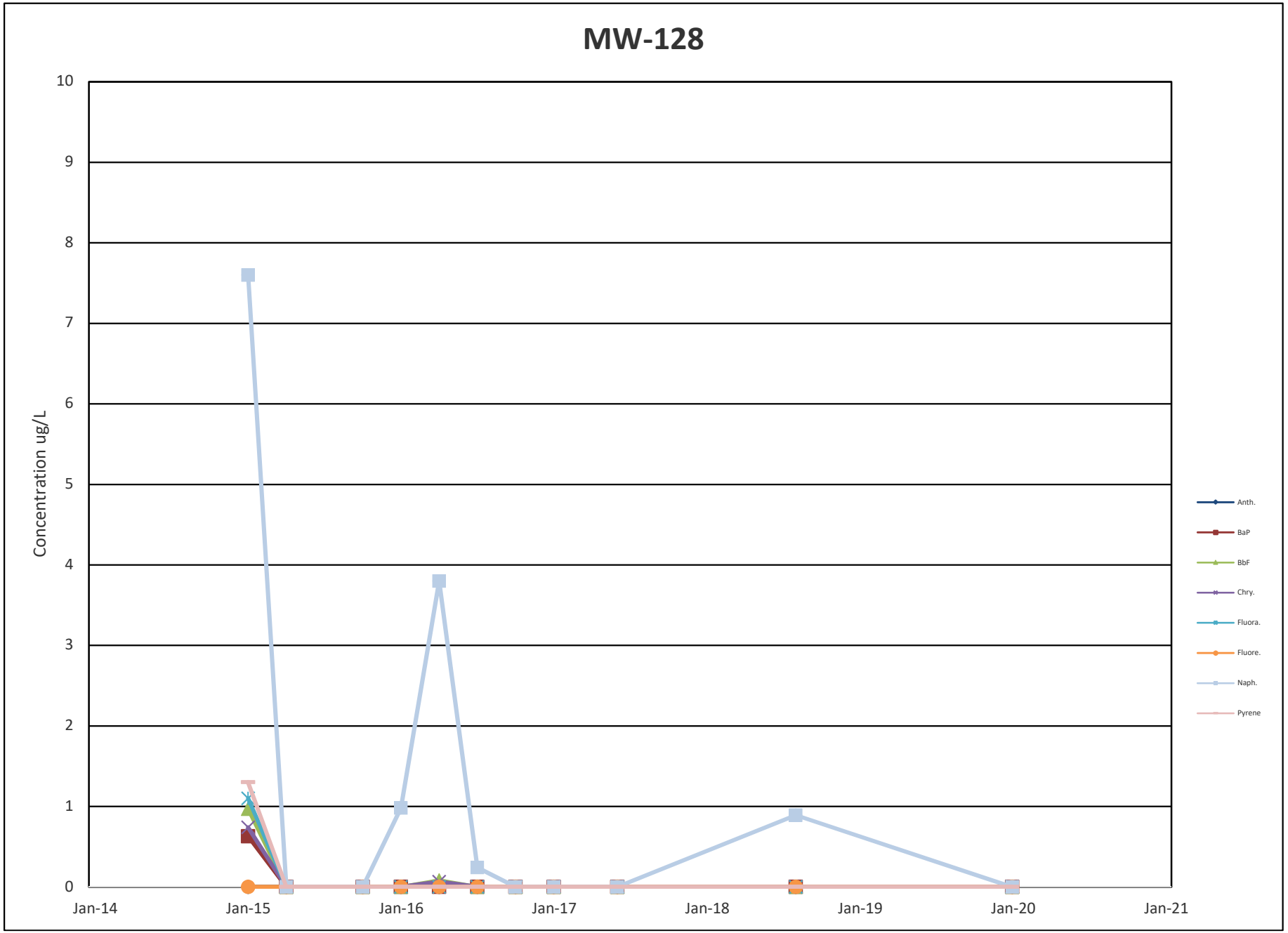

MW-122
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Concentration ug/L
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

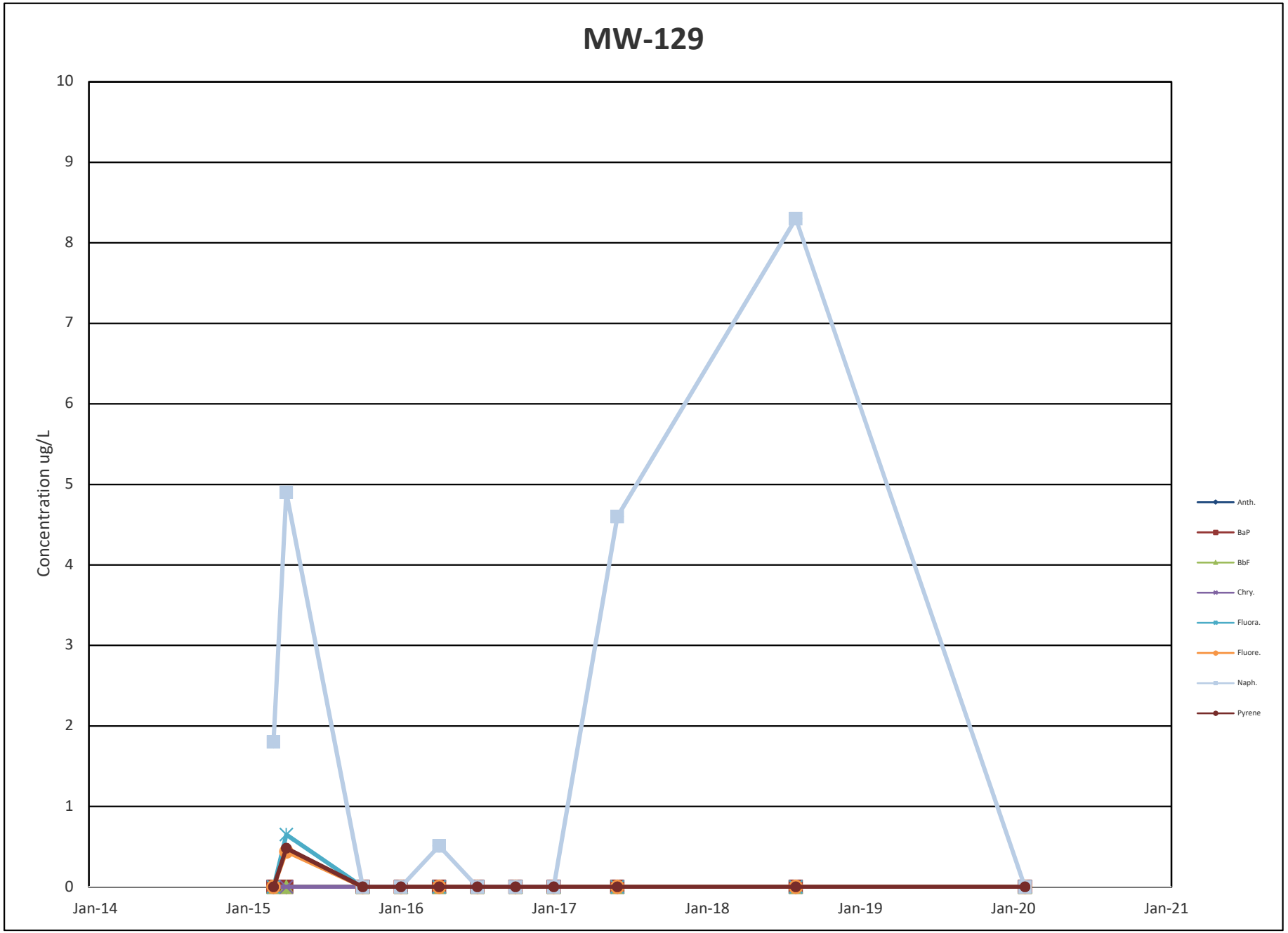

MW-123
25000
20000
15000
10000
5000
0
Concentration ug/L
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

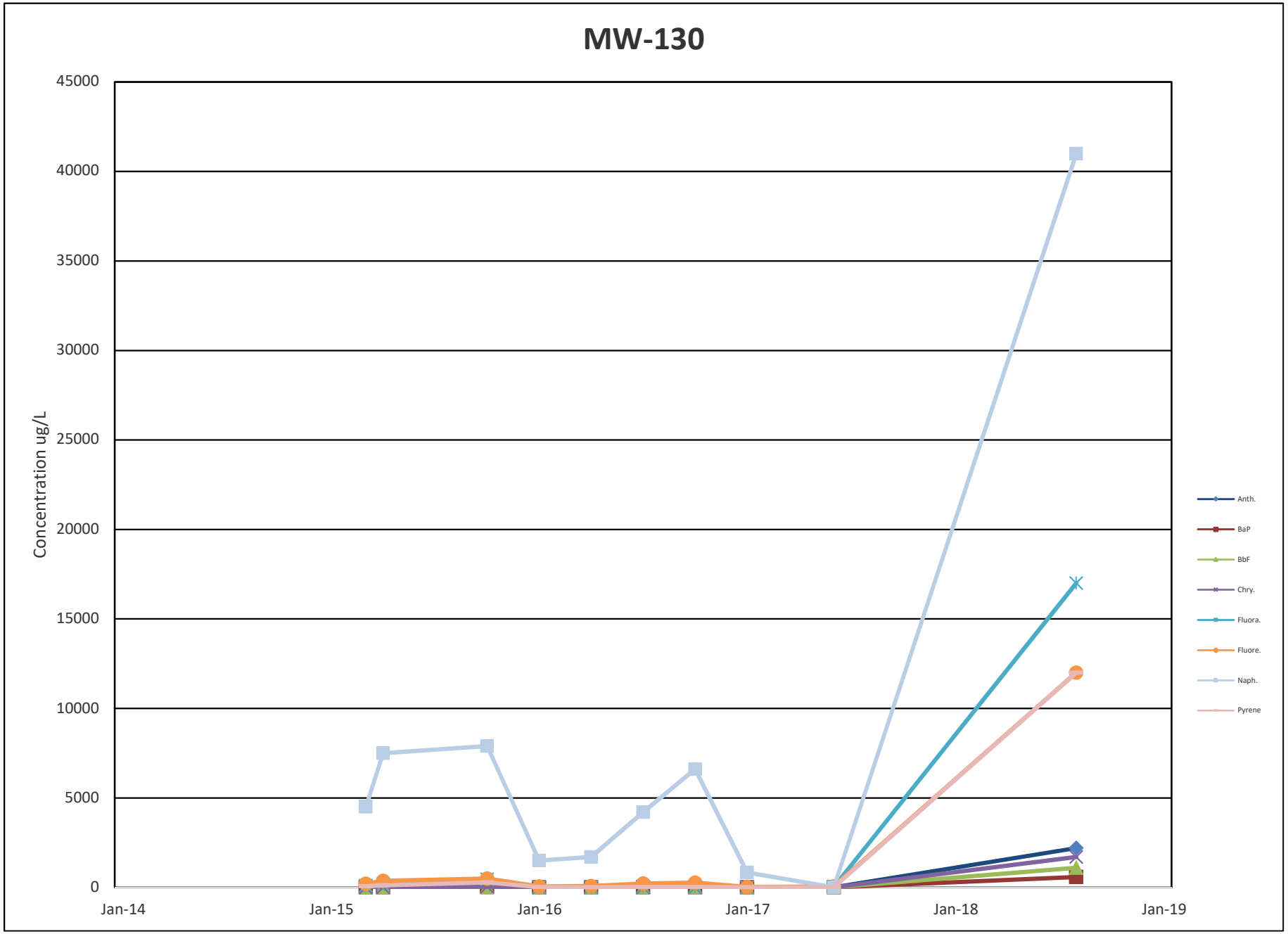

MW-125
Concentration ug/L
8000
7000
6000
5000
4000
3000
2000
1000
0
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

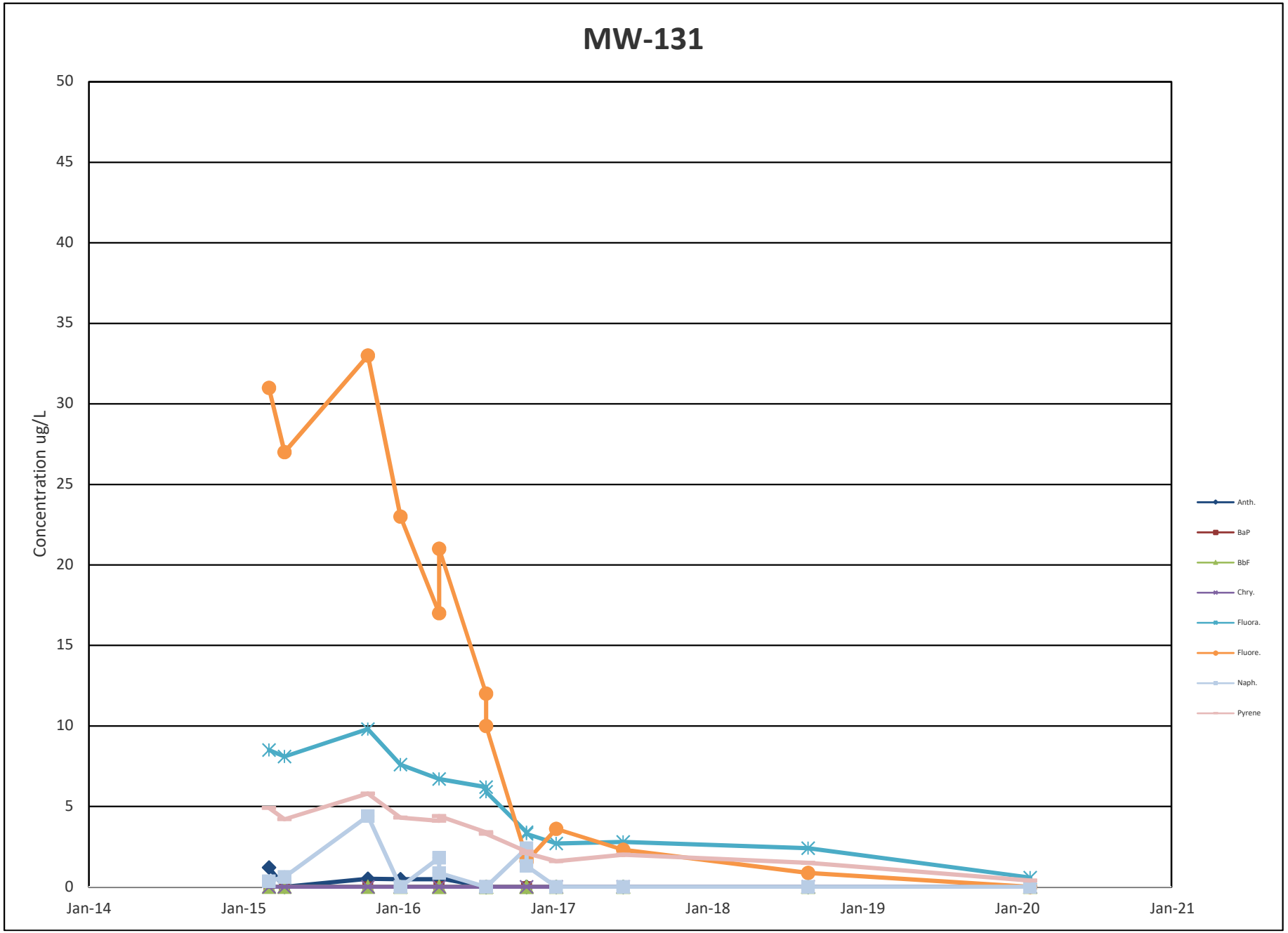

MW-126
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

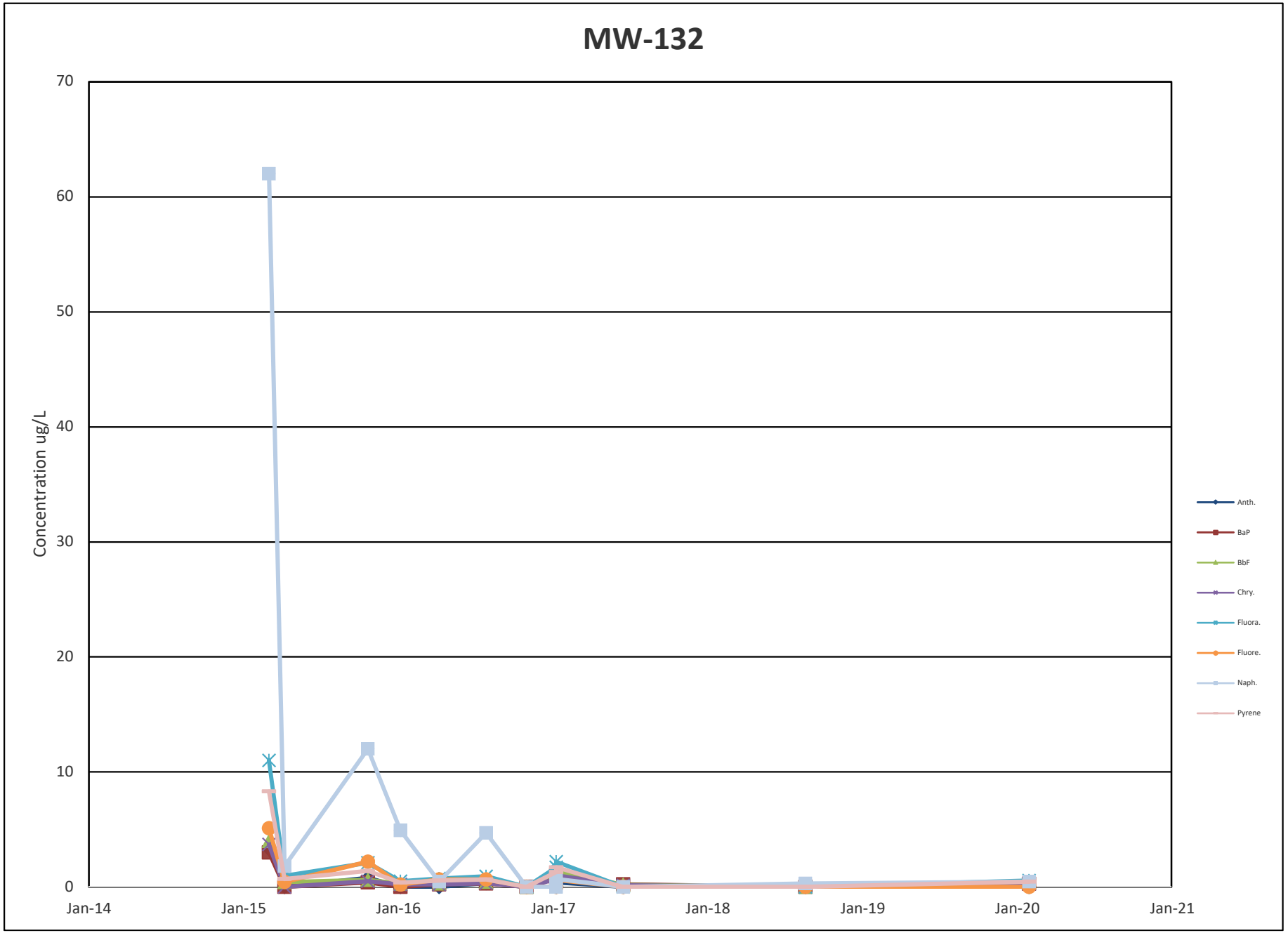

MW-127
Concentration ug;/L
10
9
8
7
6
5
4
3
2
1
0
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

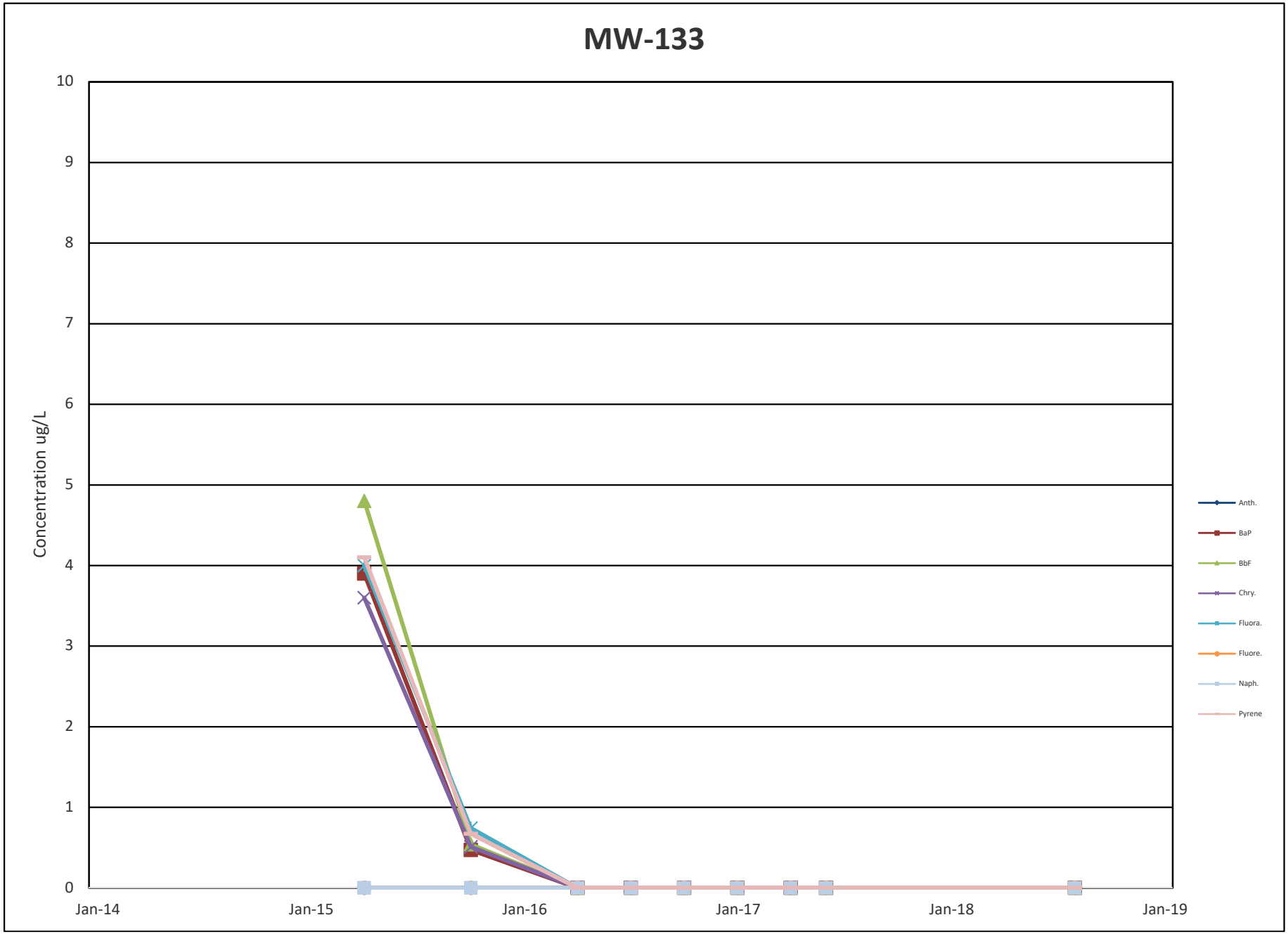

MW-128
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

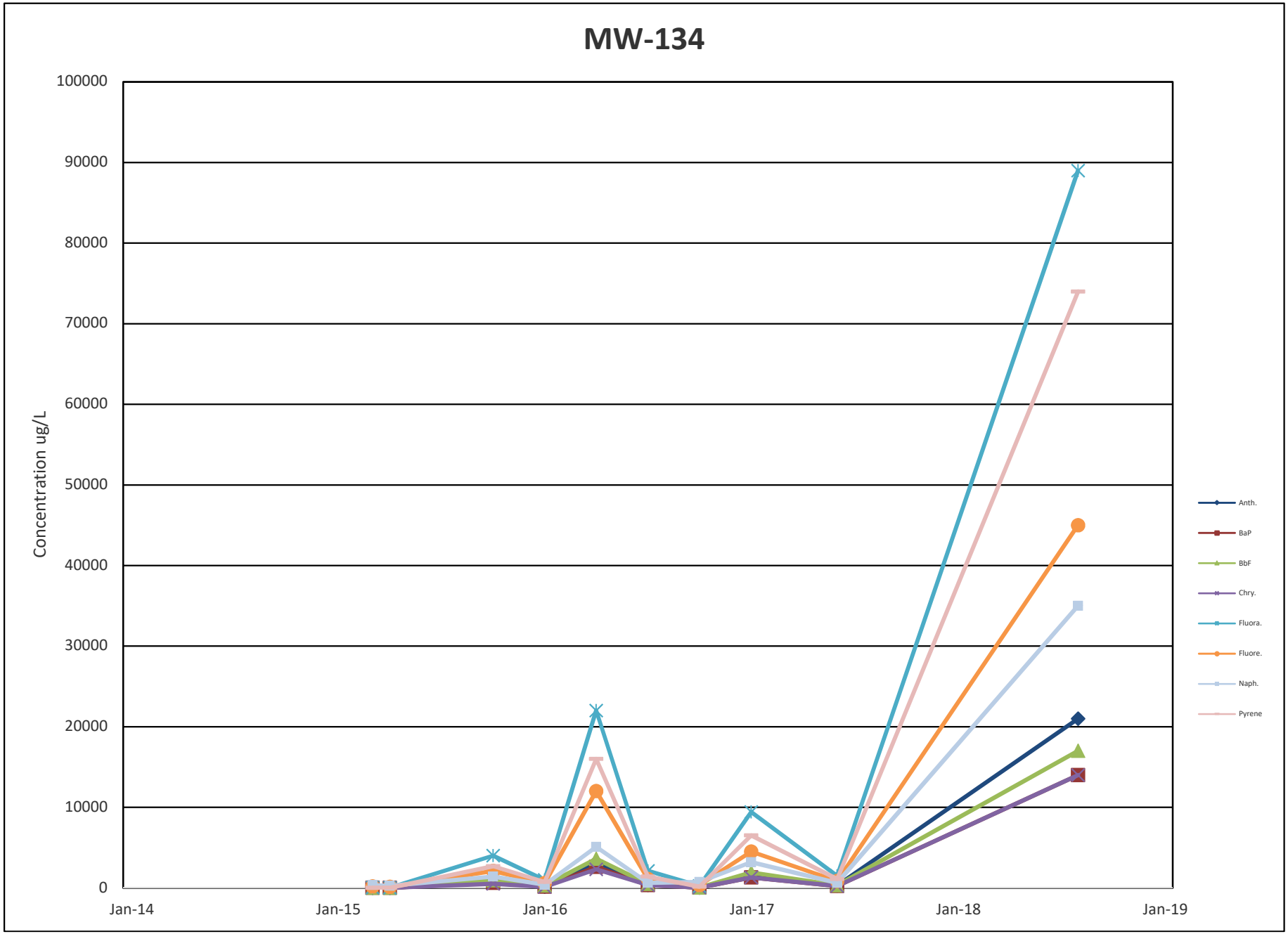

MW-129
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

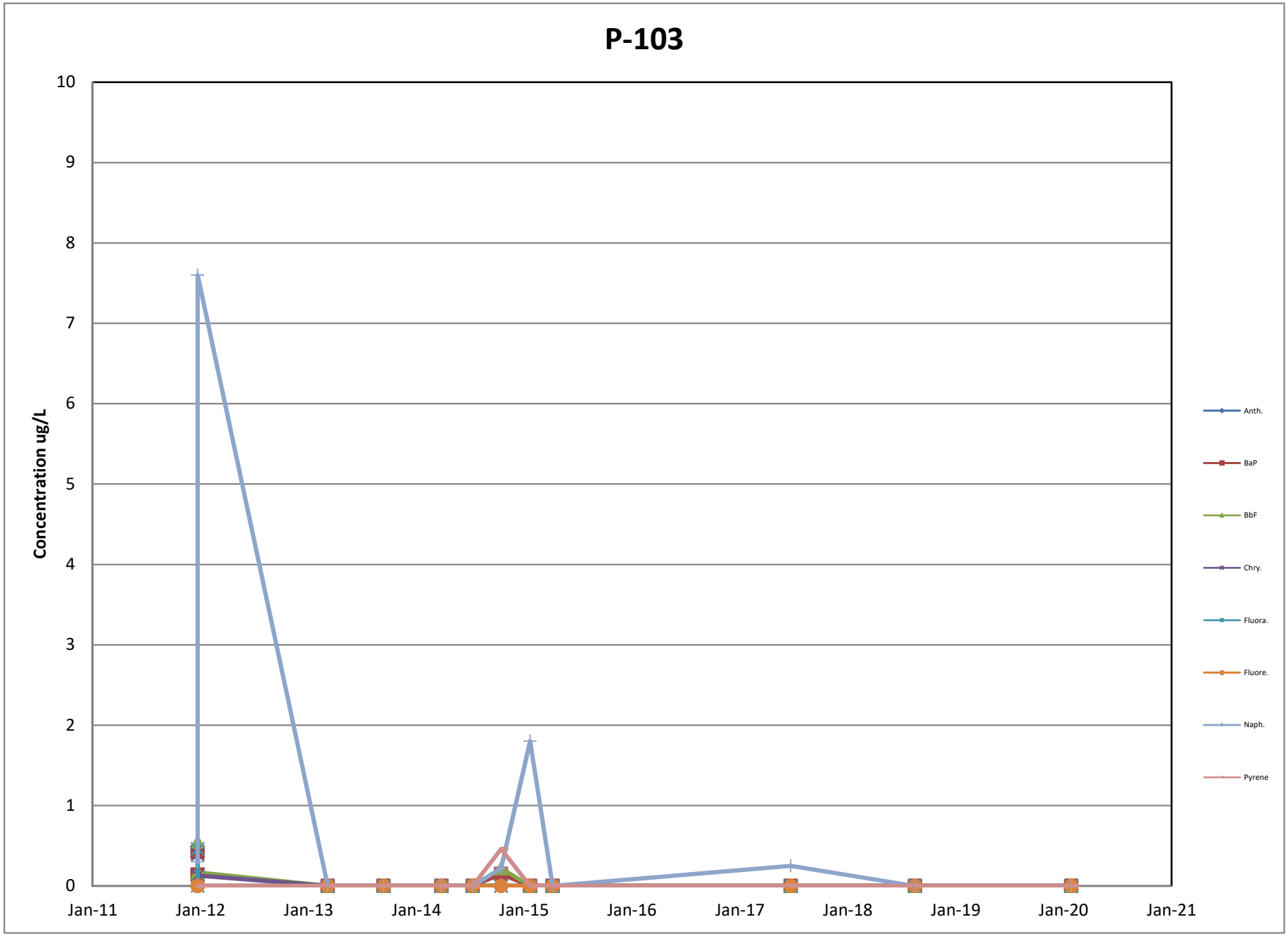

MW-130
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Concentration ug/L
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

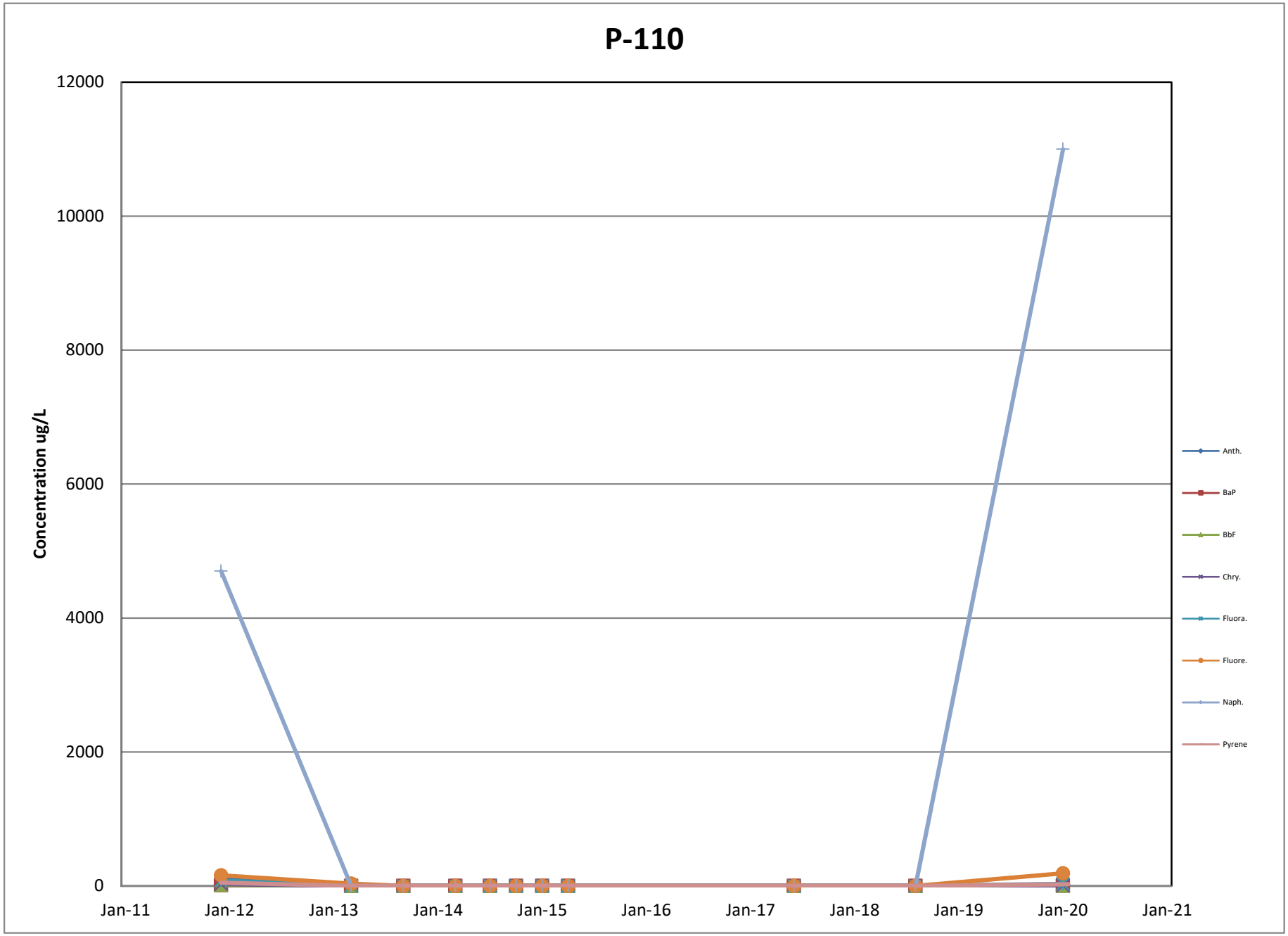

MW-131
Concentration ug/L
50
45
40
35
30
25
20
15
10
5
0
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

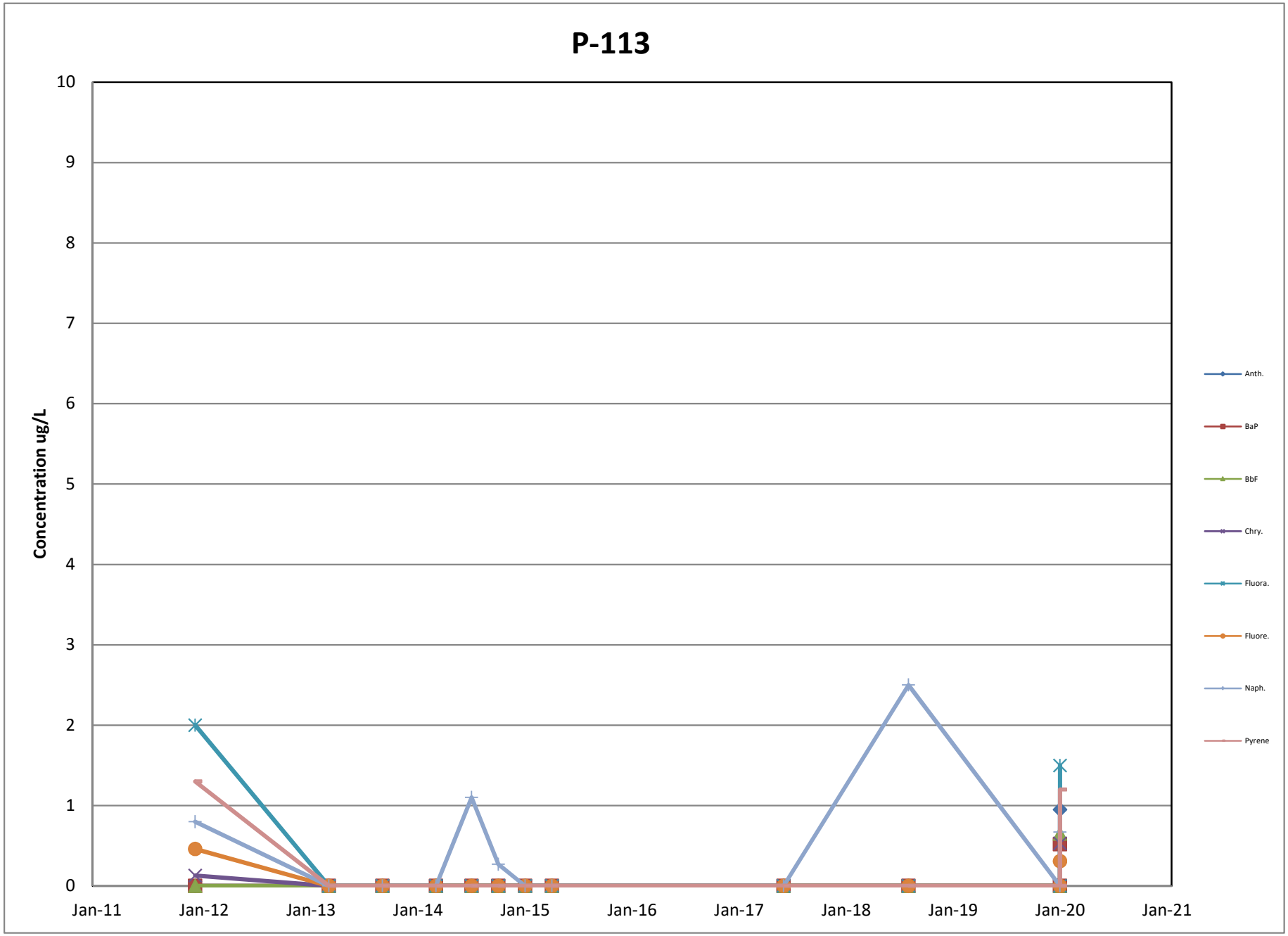

MW-132
70
60
50
40
30
20
10
0
Concentration ug/L
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

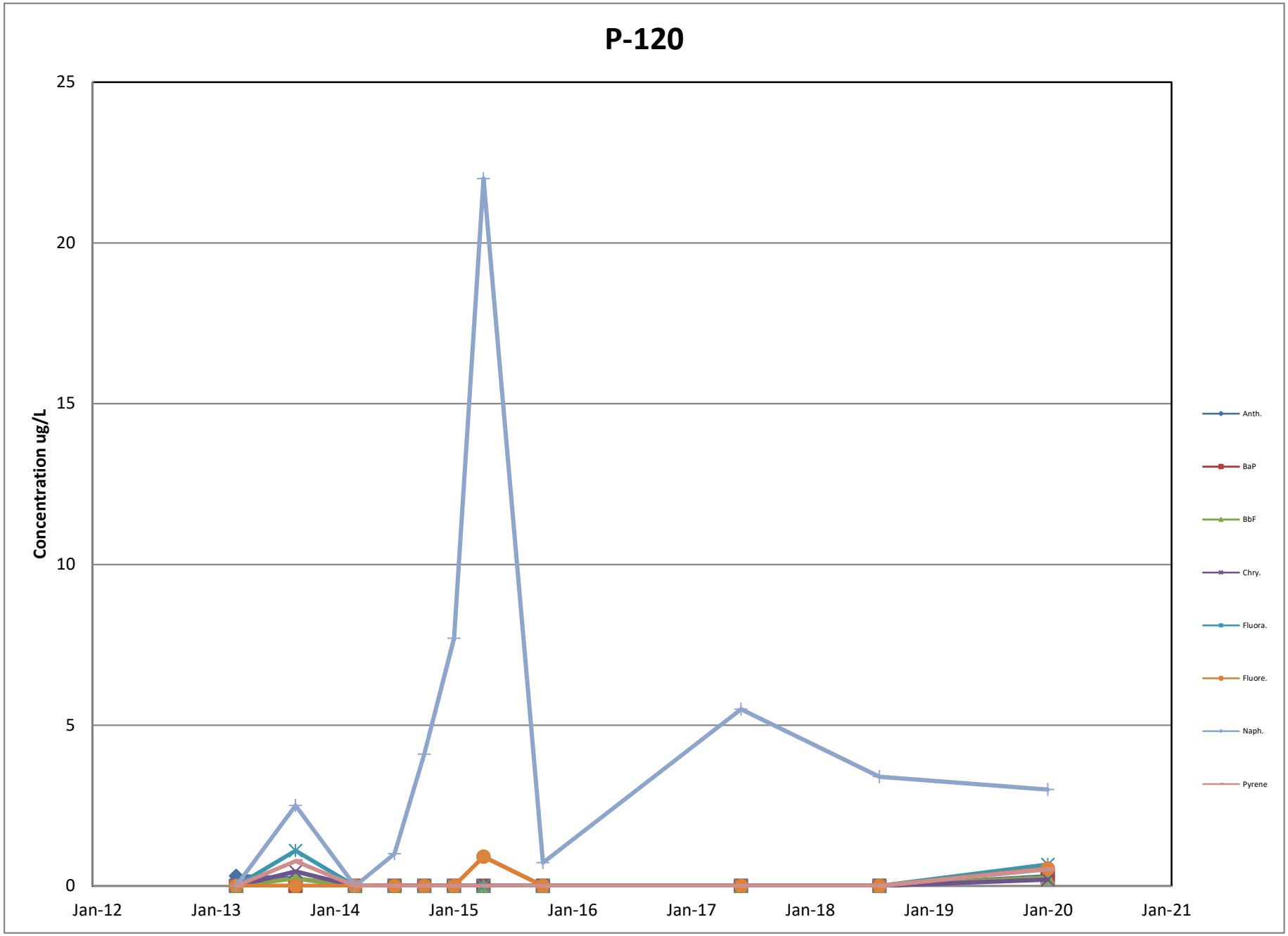

MW-133
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

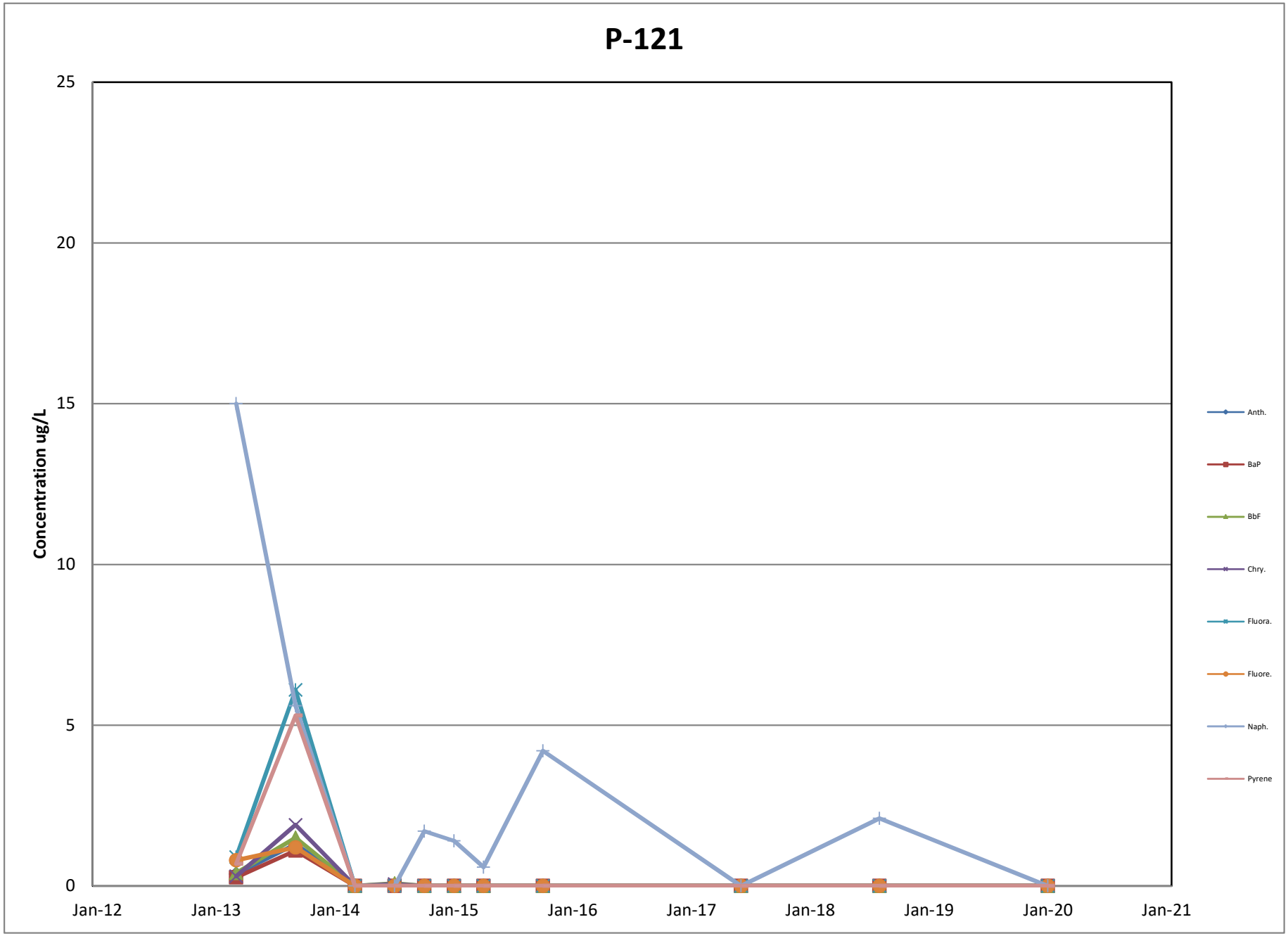

MW-134
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Concentration ug/L
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


P-103
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


P-110
12000
10000
8000
6000
4000
2000
0
Concentration ug/L
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


P-113
Concentration ug/L
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


P-120
Concentration ug/L
25
20
15
10
5
0
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene


P-121
Concentration ug/L
25
20
15
10
5
0
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Anth.
BaP
BbF
Chry.
Fluora.
Fluore.
Naph.
Pyrene

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-177362-1
Client Project/Site: Beazer Oak Creek

For:
Tetra Tech GEO
175 N Corporate Drive
Suite 100
Brookfield, Wisconsin 53045

Attn: Mr. Mike Noel

Sandie Fredrick

Authorized for release by:
2/19/2020 3:28:22 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-177362-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-177362-1

Comments
No additional comments.

Receipt
The samples were received on 2/5/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-107 (500-177362-5) and MW-107 DUP (500-177362-6). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The following samples required a dilution due to the nature of the sample matrix: MW-107 (500-177362-5) and MW-107 DUP (500-177362-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: MW-128 (500-177362-1), MW-132 (500-177362-2), MW-101 (500-177362-4), MW-107 (500-177362-5), MW-107 DUP (500-177362-6), MW-126 (500-177362-8), MW-127 (500-177362-9), MW-131 (500-177362-10), (LCS 500-528333/2-A), (LCSD 500-528333/3-A) and (MB 500-528333/1-A). The laboratory's SOP allows one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-128 — Lab Sample ID: 500-177362-1

No Detections.

Client Sample ID: MW-132 — Lab Sample ID: 500-177362-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.9		1.0	0.33	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	2.7		1.0	0.40	ug/L	1		8260B	Total/NA
Benzo[a]anthracene	0.28		0.17	0.048	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.27		0.17	0.084	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.39		0.17	0.069	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.19		0.17	0.055	ug/L	1		8270D	Total/NA
Chrysene	0.28		0.17	0.058	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.056	J	0.26	0.043	ug/L	1		8270D	Total/NA
Fluoranthene	0.56	J	0.85	0.39	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.23		0.17	0.064	ug/L	1		8270D	Total/NA
Naphthalene	0.46	J	0.85	0.26	ug/L	1		8270D	Total/NA
Phenanthrene	0.27	J	0.85	0.26	ug/L	1		8270D	Total/NA
Pyrene	0.45	J	0.85	0.36	ug/L	1		8270D	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 500-177362-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.2		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	8.3		0.50	0.18	ug/L	1		8260B	Total/NA
Isopropylbenzene	1.5		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	7.9		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.51	J	1.0	0.41	ug/L	1		8260B	Total/NA
Toluene	1.0		0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	2.7		1.0	0.22	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	9.5		1.7	0.26	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	0.17	J	1.7	0.056	ug/L	1		8270D	Total/NA
Acenaphthene	23		0.86	0.27	ug/L	1		8270D	Total/NA
Acenaphthylene	2.0		0.86	0.23	ug/L	1		8270D	Total/NA
Anthracene	0.41	J	0.86	0.29	ug/L	1		8270D	Total/NA
Fluoranthene	1.3		0.86	0.39	ug/L	1		8270D	Total/NA
Fluorene	9.0		0.86	0.21	ug/L	1		8270D	Total/NA
Naphthalene	7.6		0.86	0.27	ug/L	1		8270D	Total/NA
Phenanthrene	3.3		0.86	0.26	ug/L	1		8270D	Total/NA
Pyrene	0.74	J	0.86	0.37	ug/L	1		8270D	Total/NA

Client Sample ID: MW-101 — Lab Sample ID: 500-177362-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.95	J	1.0	0.34	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.29	J	1.8	0.28	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	0.49	J	1.8	0.060	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.20		0.18	0.052	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.36		0.18	0.090	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.66		0.18	0.074	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.44	J	0.91	0.34	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.26		0.18	0.059	ug/L	1		8270D	Total/NA
Chrysene	0.48		0.18	0.062	ug/L	1		8270D	Total/NA
Fluoranthene	0.86	J	0.91	0.41	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.37		0.18	0.068	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-101 (Continued)

Lab Sample ID: 500-177362-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.6		0.91	0.28	ug/L	1		8270D	Total/NA
Phenanthrene	0.28	J	0.91	0.28	ug/L	1		8270D	Total/NA
Pyrene	0.72	J	0.91	0.39	ug/L	1		8270D	Total/NA

Client Sample ID: MW-107

Lab Sample ID: 500-177362-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	260		20	7.2	ug/L	20		8260B	Total/NA
1,3,5-Trimethylbenzene	47		20	5.1	ug/L	20		8260B	Total/NA
Benzene	1700		10	2.9	ug/L	20		8260B	Total/NA
Ethylbenzene	400		10	3.7	ug/L	20		8260B	Total/NA
Isopropylbenzene	20		20	7.7	ug/L	20		8260B	Total/NA
Toluene	43		10	3.0	ug/L	20		8260B	Total/NA
Xylenes, Total	910		20	4.4	ug/L	20		8260B	Total/NA
Naphthalene - DL	7200		200	67	ug/L	200		8260B	Total/NA
Acenaphthylene	2.6		0.90	0.24	ug/L	1		8270D	Total/NA
Anthracene	12		0.90	0.30	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.69		0.18	0.051	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.43		0.18	0.089	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.41		0.18	0.072	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.24		0.18	0.057	ug/L	1		8270D	Total/NA
Chrysene	0.51		0.18	0.061	ug/L	1		8270D	Total/NA
Fluoranthene	9.2		0.90	0.41	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.18	0.067	ug/L	1		8270D	Total/NA
Pyrene	5.4		0.90	0.38	ug/L	1		8270D	Total/NA
1-Methylnaphthalene - DL	430		18	2.7	ug/L	10		8270D	Total/NA
Acenaphthene - DL	260		9.0	2.8	ug/L	10		8270D	Total/NA
Fluorene - DL	120		9.0	2.2	ug/L	10		8270D	Total/NA
Phenanthrene - DL	100		9.0	2.7	ug/L	10		8270D	Total/NA
2-Methylnaphthalene - DL2	900		180	5.8	ug/L	100		8270D	Total/NA
Naphthalene - DL3	8300		180	55	ug/L	200		8270D	Total/NA

Client Sample ID: MW-107 DUP

Lab Sample ID: 500-177362-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	220		20	7.2	ug/L	20		8260B	Total/NA
1,3,5-Trimethylbenzene	41		20	5.1	ug/L	20		8260B	Total/NA
Benzene	1400		10	2.9	ug/L	20		8260B	Total/NA
Ethylbenzene	360		10	3.7	ug/L	20		8260B	Total/NA
Isopropylbenzene	17	J	20	7.7	ug/L	20		8260B	Total/NA
Toluene	34		10	3.0	ug/L	20		8260B	Total/NA
Xylenes, Total	790		20	4.4	ug/L	20		8260B	Total/NA
Naphthalene - DL	7200		200	67	ug/L	200		8260B	Total/NA
Acenaphthylene	2.6		0.90	0.24	ug/L	1		8270D	Total/NA
Anthracene	12		0.90	0.30	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	1.0		0.18	0.051	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.78		0.18	0.089	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.81		0.18	0.073	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.46	J	0.90	0.34	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.41		0.18	0.058	ug/L	1		8270D	Total/NA
Chrysene	0.91		0.18	0.062	ug/L	1		8270D	Total/NA
Fluoranthene	11		0.90	0.41	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-107 DUP (Continued) — Lab Sample ID: 500-177362-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.47		0.18	0.068	ug/L	1		8270D	Total/NA
Pyrene	6.8		0.90	0.39	ug/L	1		8270D	Total/NA
1-Methylnaphthalene - DL	580		180	27	ug/L	100		8270D	Total/NA
2-Methylnaphthalene - DL	1000		180	5.9	ug/L	100		8270D	Total/NA
Acenaphthene - DL	320		90	28	ug/L	100		8270D	Total/NA
Fluorene - DL	150		90	22	ug/L	100		8270D	Total/NA
Phenanthrene - DL	130		90	27	ug/L	100		8270D	Total/NA
Naphthalene - DL2	11000		180	56	ug/L	200		8270D	Total/NA

Client Sample ID: MW-129 — Lab Sample ID: 500-177362-7

No Detections.

Client Sample ID: MW-126 — Lab Sample ID: 500-177362-8

No Detections.

Client Sample ID: MW-127 — Lab Sample ID: 500-177362-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.17	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: MW-131 — Lab Sample ID: 500-177362-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.18	J	0.50	0.15	ug/L	1		8260B	Total/NA
Toluene	0.17	J	0.50	0.15	ug/L	1		8260B	Total/NA
Acenaphthene	0.36	J	0.82	0.25	ug/L	1		8270D	Total/NA
Fluoranthene	0.58	J	0.82	0.37	ug/L	1		8270D	Total/NA
Pyrene	0.39	J	0.82	0.35	ug/L	1		8270D	Total/NA

Client Sample ID: Trip Blank-3 — Lab Sample ID: 500-177362-11

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177362-1	MW-128	Water	01/31/20 09:45	02/05/20 09:20	
500-177362-2	MW-132	Water	01/31/20 10:15	02/05/20 09:20	
500-177362-3	MW-2	Water	02/03/20 12:50	02/05/20 09:20	
500-177362-4	MW-101	Water	02/03/20 10:20	02/05/20 09:20	
500-177362-5	MW-107	Water	02/03/20 09:45	02/05/20 09:20	
500-177362-6	MW-107 DUP	Water	02/03/20 09:47	02/05/20 09:20	
500-177362-7	MW-129	Water	02/03/20 09:10	02/05/20 09:20	
500-177362-8	MW-126	Water	02/03/20 11:00	02/05/20 09:20	
500-177362-9	MW-127	Water	02/03/20 11:35	02/05/20 09:20	
500-177362-10	MW-131	Water	02/03/20 13:40	02/05/20 09:20	
500-177362-11	Trip Blank-3	Water	01/31/20 00:00	02/05/20 09:20	

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-128
Date Collected: 01/31/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-1
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	<0.46		1.0	0.46	ug/L			02/07/20 12:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 12:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 12:37	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 12:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 12:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 12:37	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 12:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 12:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 12:37	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 12:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 12:37	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 12:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 12:37	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 12:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 12:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 12:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 12:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 12:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 12:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 12:37	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 12:37	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 12:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 12:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 12:37	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 12:37	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 12:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 12:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 12:37	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 12:37	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 12:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 12:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 12:37	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 12:37	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 12:37	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 12:37	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 12:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 12:37	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 12:37	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 12:37	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 12:37	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 12:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 12:37	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-128

Date Collected: 01/31/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 12:37	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 12:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 12:37	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 12:37	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 12:37	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 12:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 12:37	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 12:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 12:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 12:37	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/07/20 12:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*02/07/20 12:37*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*02/07/20 12:37*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/07/20 12:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		02/06/20 09:02	02/15/20 02:17	1
2-Methylnaphthalene	<0.054		1.7	0.054	ug/L		02/06/20 09:02	02/15/20 02:17	1
Acenaphthene	<0.26		0.83	0.26	ug/L		02/06/20 09:02	02/15/20 02:17	1
Acenaphthylene	<0.22		0.83	0.22	ug/L		02/06/20 09:02	02/15/20 02:17	1
Anthracene	<0.28		0.83	0.28	ug/L		02/06/20 09:02	02/15/20 02:17	1
Benzo[a]anthracene	<0.047		0.17	0.047	ug/L		02/06/20 09:02	02/15/20 02:17	1
Benzo[a]pyrene	<0.082		0.17	0.082	ug/L		02/06/20 09:02	02/15/20 02:17	1
Benzo[b]fluoranthene	<0.067		0.17	0.067	ug/L		02/06/20 09:02	02/15/20 02:17	1
Benzo[g,h,i]perylene	<0.31		0.83	0.31	ug/L		02/06/20 09:02	02/15/20 02:17	1
Benzo[k]fluoranthene	<0.053		0.17	0.053	ug/L		02/06/20 09:02	02/15/20 02:17	1
Chrysene	<0.057		0.17	0.057	ug/L		02/06/20 09:02	02/15/20 02:17	1
Dibenz(a,h)anthracene	<0.042		0.25	0.042	ug/L		02/06/20 09:02	02/15/20 02:17	1
Fluoranthene	<0.38		0.83	0.38	ug/L		02/06/20 09:02	02/15/20 02:17	1
Fluorene	<0.20		0.83	0.20	ug/L		02/06/20 09:02	02/15/20 02:17	1
Indeno[1,2,3-cd]pyrene	<0.062		0.17	0.062	ug/L		02/06/20 09:02	02/15/20 02:17	1
Naphthalene	<0.26		0.83	0.26	ug/L		02/06/20 09:02	02/15/20 02:17	1
Phenanthrene	<0.25		0.83	0.25	ug/L		02/06/20 09:02	02/15/20 02:17	1
Pyrene	<0.36		0.83	0.36	ug/L		02/06/20 09:02	02/15/20 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*34 - 110*	*02/06/20 09:02*	*02/15/20 02:17*	*1*
Nitrobenzene-d5 (Surr)	*130*	*X*	*36 - 120*	*02/06/20 09:02*	*02/15/20 02:17*	*1*
Terphenyl-d14 (Surr)	*125*		*40 - 145*	*02/06/20 09:02*	*02/15/20 02:17*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-132

Date Collected: 01/31/20 10:15
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-2

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	<0.46		1.0	0.46	ug/L			02/07/20 13:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 13:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 13:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 13:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 13:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 13:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 13:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 13:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 13:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 13:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
1,2-Dichlorobenzene	**1.9**		1.0	0.33	ug/L			02/07/20 13:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 13:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 13:03	1
1,3-Dichlorobenzene	**2.7**		1.0	0.40	ug/L			02/07/20 13:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 13:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 13:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 13:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 13:03	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 13:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 13:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 13:03	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 13:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 13:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 13:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 13:03	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 13:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 13:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 13:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 13:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 13:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 13:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 13:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 13:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 13:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 13:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 13:03	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 13:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 13:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 13:03	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-132

Date Collected: 01/31/20 10:15
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:03	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 13:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 13:03	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 13:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 13:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 13:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 13:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 13:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 13:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*02/07/20 13:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*02/07/20 13:03*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*02/07/20 13:03*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/07/20 13:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.26		1.7	0.26	ug/L		02/06/20 09:02	02/15/20 02:44	1
2-Methylnaphthalene	<0.056		1.7	0.056	ug/L		02/06/20 09:02	02/15/20 02:44	1
Acenaphthene	<0.26		0.85	0.26	ug/L		02/06/20 09:02	02/15/20 02:44	1
Acenaphthylene	<0.23		0.85	0.23	ug/L		02/06/20 09:02	02/15/20 02:44	1
Anthracene	<0.29		0.85	0.29	ug/L		02/06/20 09:02	02/15/20 02:44	1
Benzo[a]anthracene	**0.28**		0.17	0.048	ug/L		02/06/20 09:02	02/15/20 02:44	1
Benzo[a]pyrene	**0.27**		0.17	0.084	ug/L		02/06/20 09:02	02/15/20 02:44	1
Benzo[b]fluoranthene	**0.39**		0.17	0.069	ug/L		02/06/20 09:02	02/15/20 02:44	1
Benzo[g,h,i]perylene	<0.32		0.85	0.32	ug/L		02/06/20 09:02	02/15/20 02:44	1
Benzo[k]fluoranthene	**0.19**		0.17	0.055	ug/L		02/06/20 09:02	02/15/20 02:44	1
Chrysene	**0.28**		0.17	0.058	ug/L		02/06/20 09:02	02/15/20 02:44	1
Dibenz(a,h)anthracene	**0.056**	**J**	0.26	0.043	ug/L		02/06/20 09:02	02/15/20 02:44	1
Fluoranthene	**0.56**	**J**	0.85	0.39	ug/L		02/06/20 09:02	02/15/20 02:44	1
Fluorene	<0.21		0.85	0.21	ug/L		02/06/20 09:02	02/15/20 02:44	1
Indeno[1,2,3-cd]pyrene	**0.23**		0.17	0.064	ug/L		02/06/20 09:02	02/15/20 02:44	1
Naphthalene	**0.46**	**J**	0.85	0.26	ug/L		02/06/20 09:02	02/15/20 02:44	1
Phenanthrene	**0.27**	**J**	0.85	0.26	ug/L		02/06/20 09:02	02/15/20 02:44	1
Pyrene	**0.45**	**J**	0.85	0.36	ug/L		02/06/20 09:02	02/15/20 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*34 - 110*	*02/06/20 09:02*	*02/15/20 02:44*	*1*
Nitrobenzene-d5 (Surr)	*135*	*X*	*36 - 120*	*02/06/20 09:02*	*02/15/20 02:44*	*1*
Terphenyl-d14 (Surr)	*112*		*40 - 145*	*02/06/20 09:02*	*02/15/20 02:44*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-2
Date Collected: 02/03/20 12:50
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-3
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	<0.46		1.0	0.46	ug/L			02/07/20 13:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 13:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 13:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 13:29	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 13:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 13:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 13:29	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 13:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 13:29	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 13:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:29	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 13:29	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 13:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 13:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 13:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 13:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 13:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 13:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:29	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 13:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 13:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 13:29	1
Benzene	**6.2**		0.50	0.15	ug/L			02/07/20 13:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 13:29	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 13:29	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 13:29	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 13:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 13:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:29	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 13:29	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 13:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 13:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 13:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 13:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 13:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 13:29	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 13:29	1
Ethylbenzene	**8.3**		0.50	0.18	ug/L			02/07/20 13:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 13:29	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 13:29	1
Isopropylbenzene	**1.5**		1.0	0.39	ug/L			02/07/20 13:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 13:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 13:29	1
Naphthalene	**7.9**		1.0	0.34	ug/L			02/07/20 13:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:29	1
N-Propylbenzene	**0.51**	**J**	1.0	0.41	ug/L			02/07/20 13:29	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 13:29	1

Client Sample ID: MW-2
Date Collected: 02/03/20 12:50
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:29	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 13:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 13:29	1
Toluene	**1.0**		0.50	0.15	ug/L			02/07/20 13:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 13:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 13:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 13:29	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 13:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 13:29	1
Xylenes, Total	**2.7**		1.0	0.22	ug/L			02/07/20 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*02/07/20 13:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*02/07/20 13:29*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*02/07/20 13:29*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/07/20 13:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**9.5**		1.7	0.26	ug/L		02/06/20 09:02	02/15/20 03:11	1
2-Methylnaphthalene	**0.17**	**J**	1.7	0.056	ug/L		02/06/20 09:02	02/15/20 03:11	1
Acenaphthene	**23**		0.86	0.27	ug/L		02/06/20 09:02	02/15/20 03:11	1
Acenaphthylene	**2.0**		0.86	0.23	ug/L		02/06/20 09:02	02/15/20 03:11	1
Anthracene	**0.41**	**J**	0.86	0.29	ug/L		02/06/20 09:02	02/15/20 03:11	1
Benzo[a]anthracene	<0.049		0.17	0.049	ug/L		02/06/20 09:02	02/15/20 03:11	1
Benzo[a]pyrene	<0.085		0.17	0.085	ug/L		02/06/20 09:02	02/15/20 03:11	1
Benzo[b]fluoranthene	<0.069		0.17	0.069	ug/L		02/06/20 09:02	02/15/20 03:11	1
Benzo[g,h,i]perylene	<0.32		0.86	0.32	ug/L		02/06/20 09:02	02/15/20 03:11	1
Benzo[k]fluoranthene	<0.055		0.17	0.055	ug/L		02/06/20 09:02	02/15/20 03:11	1
Chrysene	<0.059		0.17	0.059	ug/L		02/06/20 09:02	02/15/20 03:11	1
Dibenz(a,h)anthracene	<0.044		0.26	0.044	ug/L		02/06/20 09:02	02/15/20 03:11	1
Fluoranthene	**1.3**		0.86	0.39	ug/L		02/06/20 09:02	02/15/20 03:11	1
Fluorene	**9.0**		0.86	0.21	ug/L		02/06/20 09:02	02/15/20 03:11	1
Indeno[1,2,3-cd]pyrene	<0.064		0.17	0.064	ug/L		02/06/20 09:02	02/15/20 03:11	1
Naphthalene	**7.6**		0.86	0.27	ug/L		02/06/20 09:02	02/15/20 03:11	1
Phenanthrene	**3.3**		0.86	0.26	ug/L		02/06/20 09:02	02/15/20 03:11	1
Pyrene	**0.74**	**J**	0.86	0.37	ug/L		02/06/20 09:02	02/15/20 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 110*	*02/06/20 09:02*	*02/15/20 03:11*	*1*
Nitrobenzene-d5 (Surr)	*100*		*36 - 120*	*02/06/20 09:02*	*02/15/20 03:11*	*1*
Terphenyl-d14 (Surr)	*118*		*40 - 145*	*02/06/20 09:02*	*02/15/20 03:11*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-101
Date Collected: 02/03/20 10:20
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-4
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	<0.46		1.0	0.46	ug/L			02/07/20 13:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 13:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 13:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 13:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 13:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 13:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 13:54	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 13:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 13:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 13:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 13:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 13:54	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 13:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 13:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 13:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 13:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 13:54	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 13:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 13:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 13:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 13:54	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 13:54	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 13:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 13:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 13:54	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 13:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 13:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 13:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 13:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 13:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 13:54	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 13:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 13:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 13:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 13:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 13:54	1
Naphthalene	**0.95**	**J**	1.0	0.34	ug/L			02/07/20 13:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 13:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 13:54	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-101
Date Collected: 02/03/20 10:20
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:54	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 13:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 13:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 13:54	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 13:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 13:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 13:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 13:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 13:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 13:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*02/07/20 13:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*02/07/20 13:54*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*02/07/20 13:54*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/07/20 13:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**0.29**	**J**	1.8	0.28	ug/L		02/06/20 09:02	02/15/20 03:38	1
2-Methylnaphthalene	**0.49**	**J**	1.8	0.060	ug/L		02/06/20 09:02	02/15/20 03:38	1
Acenaphthene	<0.28		0.91	0.28	ug/L		02/06/20 09:02	02/15/20 03:38	1
Acenaphthylene	<0.24		0.91	0.24	ug/L		02/06/20 09:02	02/15/20 03:38	1
Anthracene	<0.31		0.91	0.31	ug/L		02/06/20 09:02	02/15/20 03:38	1
Benzo[a]anthracene	**0.20**		0.18	0.052	ug/L		02/06/20 09:02	02/15/20 03:38	1
Benzo[a]pyrene	**0.36**		0.18	0.090	ug/L		02/06/20 09:02	02/15/20 03:38	1
Benzo[b]fluoranthene	**0.66**		0.18	0.074	ug/L		02/06/20 09:02	02/15/20 03:38	1
Benzo[g,h,i]perylene	**0.44**	**J**	0.91	0.34	ug/L		02/06/20 09:02	02/15/20 03:38	1
Benzo[k]fluoranthene	**0.26**		0.18	0.059	ug/L		02/06/20 09:02	02/15/20 03:38	1
Chrysene	**0.48**		0.18	0.062	ug/L		02/06/20 09:02	02/15/20 03:38	1
Dibenz(a,h)anthracene	<0.046		0.27	0.046	ug/L		02/06/20 09:02	02/15/20 03:38	1
Fluoranthene	**0.86**	**J**	0.91	0.41	ug/L		02/06/20 09:02	02/15/20 03:38	1
Fluorene	<0.22		0.91	0.22	ug/L		02/06/20 09:02	02/15/20 03:38	1
Indeno[1,2,3-cd]pyrene	**0.37**		0.18	0.068	ug/L		02/06/20 09:02	02/15/20 03:38	1
Naphthalene	**6.6**		0.91	0.28	ug/L		02/06/20 09:02	02/15/20 03:38	1
Phenanthrene	**0.28**	**J**	0.91	0.28	ug/L		02/06/20 09:02	02/15/20 03:38	1
Pyrene	**0.72**	**J**	0.91	0.39	ug/L		02/06/20 09:02	02/15/20 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*34 - 110*	*02/06/20 09:02*	*02/15/20 03:38*	*1*
Nitrobenzene-d5 (Surr)	*131*	*X*	*36 - 120*	*02/06/20 09:02*	*02/15/20 03:38*	*1*
Terphenyl-d14 (Surr)	*118*		*40 - 145*	*02/06/20 09:02*	*02/15/20 03:38*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-107

Date Collected: 02/03/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-5

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	<9.2		20	9.2	ug/L			02/10/20 12:36	20
1,1,1-Trichloroethane	<7.6		20	7.6	ug/L			02/10/20 12:36	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			02/10/20 12:36	20
1,1,2-Trichloroethane	<7.0		20	7.0	ug/L			02/10/20 12:36	20
1,1-Dichloroethane	<8.2		20	8.2	ug/L			02/10/20 12:36	20
1,1-Dichloroethene	<7.8		20	7.8	ug/L			02/10/20 12:36	20
1,1-Dichloropropene	<5.9		20	5.9	ug/L			02/10/20 12:36	20
1,2,3-Trichlorobenzene	<9.2		20	9.2	ug/L			02/10/20 12:36	20
1,2,3-Trichloropropane	<8.3		40	8.3	ug/L			02/10/20 12:36	20
1,2,4-Trichlorobenzene	<6.8		20	6.8	ug/L			02/10/20 12:36	20
1,2,4-Trimethylbenzene	**260**		20	7.2	ug/L			02/10/20 12:36	20
1,2-Dibromo-3-Chloropropane	<40		100	40	ug/L			02/10/20 12:36	20
1,2-Dibromoethane	<7.7		20	7.7	ug/L			02/10/20 12:36	20
1,2-Dichlorobenzene	<6.7		20	6.7	ug/L			02/10/20 12:36	20
1,2-Dichloroethane	<7.8		20	7.8	ug/L			02/10/20 12:36	20
1,2-Dichloropropane	<8.6		20	8.6	ug/L			02/10/20 12:36	20
1,3,5-Trimethylbenzene	**47**		20	5.1	ug/L			02/10/20 12:36	20
1,3-Dichlorobenzene	<8.0		20	8.0	ug/L			02/10/20 12:36	20
1,3-Dichloropropane	<7.2		20	7.2	ug/L			02/10/20 12:36	20
1,4-Dichlorobenzene	<7.3		20	7.3	ug/L			02/10/20 12:36	20
2,2-Dichloropropane	<8.9		20	8.9	ug/L			02/10/20 12:36	20
2-Chlorotoluene	<6.3		20	6.3	ug/L			02/10/20 12:36	20
4-Chlorotoluene	<7.0		20	7.0	ug/L			02/10/20 12:36	20
Benzene	**1700**		10	2.9	ug/L			02/10/20 12:36	20
Bromobenzene	<7.1		20	7.1	ug/L			02/10/20 12:36	20
Bromochloromethane	<8.6		20	8.6	ug/L			02/10/20 12:36	20
Bromodichloromethane	<7.4		20	7.4	ug/L			02/10/20 12:36	20
Bromoform	<9.7		20	9.7	ug/L			02/10/20 12:36	20
Bromomethane	<16		60	16	ug/L			02/10/20 12:36	20
Carbon tetrachloride	<7.7		20	7.7	ug/L			02/10/20 12:36	20
Chlorobenzene	<7.7		20	7.7	ug/L			02/10/20 12:36	20
Chloroethane	<10		20	10	ug/L			02/10/20 12:36	20
Chloroform	<7.4		40	7.4	ug/L			02/10/20 12:36	20
Chloromethane	<6.4		20	6.4	ug/L			02/10/20 12:36	20
cis-1,2-Dichloroethene	<8.2		20	8.2	ug/L			02/10/20 12:36	20
cis-1,3-Dichloropropene	<8.3		20	8.3	ug/L			02/10/20 12:36	20
Dibromochloromethane	<9.8		20	9.8	ug/L			02/10/20 12:36	20
Dibromomethane	<5.4		20	5.4	ug/L			02/10/20 12:36	20
Dichlorodifluoromethane	<13		60	13	ug/L			02/10/20 12:36	20
Ethylbenzene	**400**		10	3.7	ug/L			02/10/20 12:36	20
Hexachlorobutadiene	<8.9		20	8.9	ug/L			02/10/20 12:36	20
Isopropyl ether	<5.5		20	5.5	ug/L			02/10/20 12:36	20
Isopropylbenzene	**20**		20	7.7	ug/L			02/10/20 12:36	20
Methyl tert-butyl ether	<7.9		20	7.9	ug/L			02/10/20 12:36	20
Methylene Chloride	<33		100	33	ug/L			02/10/20 12:36	20
n-Butylbenzene	<7.8		20	7.8	ug/L			02/10/20 12:36	20
N-Propylbenzene	<8.3		20	8.3	ug/L			02/10/20 12:36	20
p-Isopropyltoluene	<7.2		20	7.2	ug/L			02/10/20 12:36	20
sec-Butylbenzene	<8.0		20	8.0	ug/L			02/10/20 12:36	20

Client Sample ID: MW-107

Date Collected: 02/03/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<7.7		20	7.7	ug/L			02/10/20 12:36	20
tert-Butylbenzene	<8.0		20	8.0	ug/L			02/10/20 12:36	20
Tetrachloroethene	<7.4		20	7.4	ug/L			02/10/20 12:36	20
Toluene	**43**		10	3.0	ug/L			02/10/20 12:36	20
trans-1,2-Dichloroethene	<7.0		20	7.0	ug/L			02/10/20 12:36	20
trans-1,3-Dichloropropene	<7.2		20	7.2	ug/L			02/10/20 12:36	20
Trichloroethene	<3.3		10	3.3	ug/L			02/10/20 12:36	20
Trichlorofluoromethane	<8.5		20	8.5	ug/L			02/10/20 12:36	20
Vinyl chloride	<4.1		20	4.1	ug/L			02/10/20 12:36	20
Xylenes, Total	**910**		20	4.4	ug/L			02/10/20 12:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*02/10/20 12:36*	*20*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*02/10/20 12:36*	*20*
Dibromofluoromethane	*96*		*75 - 120*		*02/10/20 12:36*	*20*
Toluene-d8 (Surr)	*98*		*75 - 120*		*02/10/20 12:36*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**7200**		200	67	ug/L			02/10/20 13:01	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*02/10/20 13:01*	*200*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*02/10/20 13:01*	*200*
Dibromofluoromethane	*95*		*75 - 120*		*02/10/20 13:01*	*200*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/10/20 13:01*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**2.6**		0.90	0.24	ug/L		02/06/20 09:02	02/15/20 04:05	1
Anthracene	**12**		0.90	0.30	ug/L		02/06/20 09:02	02/15/20 04:05	1
Benzo[a]anthracene	**0.69**		0.18	0.051	ug/L		02/06/20 09:02	02/15/20 04:05	1
Benzo[a]pyrene	**0.43**		0.18	0.089	ug/L		02/06/20 09:02	02/15/20 04:05	1
Benzo[b]fluoranthene	**0.41**		0.18	0.072	ug/L		02/06/20 09:02	02/15/20 04:05	1
Benzo[g,h,i]perylene	<0.34		0.90	0.34	ug/L		02/06/20 09:02	02/15/20 04:05	1
Benzo[k]fluoranthene	**0.24**		0.18	0.057	ug/L		02/06/20 09:02	02/15/20 04:05	1
Chrysene	**0.51**		0.18	0.061	ug/L		02/06/20 09:02	02/15/20 04:05	1
Dibenz(a,h)anthracene	<0.046		0.27	0.046	ug/L		02/06/20 09:02	02/15/20 04:05	1
Fluoranthene	**9.2**		0.90	0.41	ug/L		02/06/20 09:02	02/15/20 04:05	1
Indeno[1,2,3-cd]pyrene	**0.21**		0.18	0.067	ug/L		02/06/20 09:02	02/15/20 04:05	1
Pyrene	**5.4**		0.90	0.38	ug/L		02/06/20 09:02	02/15/20 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*34 - 110*	*02/06/20 09:02*	*02/15/20 04:05*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*02/06/20 09:02*	*02/15/20 04:05*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 145*	*02/06/20 09:02*	*02/15/20 04:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**430**		18	2.7	ug/L		02/06/20 09:02	02/17/20 19:38	10
Acenaphthene	**260**		9.0	2.8	ug/L		02/06/20 09:02	02/17/20 19:38	10

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-107
Date Collected: 02/03/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	120		9.0	2.2	ug/L		02/06/20 09:02	02/17/20 19:38	10
Phenanthrene	100		9.0	2.7	ug/L		02/06/20 09:02	02/17/20 19:38	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	900		180	5.8	ug/L		02/06/20 09:02	02/17/20 20:05	100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	8300		180	55	ug/L		02/06/20 09:02	02/18/20 18:20	200

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-107 DUP

Date Collected: 02/03/20 09:47
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-6

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	<9.2		20	9.2	ug/L			02/10/20 13:26	20
1,1,1-Trichloroethane	<7.6		20	7.6	ug/L			02/10/20 13:26	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			02/10/20 13:26	20
1,1,2-Trichloroethane	<7.0		20	7.0	ug/L			02/10/20 13:26	20
1,1-Dichloroethane	<8.2		20	8.2	ug/L			02/10/20 13:26	20
1,1-Dichloroethene	<7.8		20	7.8	ug/L			02/10/20 13:26	20
1,1-Dichloropropene	<5.9		20	5.9	ug/L			02/10/20 13:26	20
1,2,3-Trichlorobenzene	<9.2		20	9.2	ug/L			02/10/20 13:26	20
1,2,3-Trichloropropane	<8.3		40	8.3	ug/L			02/10/20 13:26	20
1,2,4-Trichlorobenzene	<6.8		20	6.8	ug/L			02/10/20 13:26	20
1,2,4-Trimethylbenzene	**220**		20	7.2	ug/L			02/10/20 13:26	20
1,2-Dibromo-3-Chloropropane	<40		100	40	ug/L			02/10/20 13:26	20
1,2-Dibromoethane	<7.7		20	7.7	ug/L			02/10/20 13:26	20
1,2-Dichlorobenzene	<6.7		20	6.7	ug/L			02/10/20 13:26	20
1,2-Dichloroethane	<7.8		20	7.8	ug/L			02/10/20 13:26	20
1,2-Dichloropropane	<8.6		20	8.6	ug/L			02/10/20 13:26	20
1,3,5-Trimethylbenzene	**41**		20	5.1	ug/L			02/10/20 13:26	20
1,3-Dichlorobenzene	<8.0		20	8.0	ug/L			02/10/20 13:26	20
1,3-Dichloropropane	<7.2		20	7.2	ug/L			02/10/20 13:26	20
1,4-Dichlorobenzene	<7.3		20	7.3	ug/L			02/10/20 13:26	20
2,2-Dichloropropane	<8.9		20	8.9	ug/L			02/10/20 13:26	20
2-Chlorotoluene	<6.3		20	6.3	ug/L			02/10/20 13:26	20
4-Chlorotoluene	<7.0		20	7.0	ug/L			02/10/20 13:26	20
Benzene	**1400**		10	2.9	ug/L			02/10/20 13:26	20
Bromobenzene	<7.1		20	7.1	ug/L			02/10/20 13:26	20
Bromochloromethane	<8.6		20	8.6	ug/L			02/10/20 13:26	20
Bromodichloromethane	<7.4		20	7.4	ug/L			02/10/20 13:26	20
Bromoform	<9.7		20	9.7	ug/L			02/10/20 13:26	20
Bromomethane	<16		60	16	ug/L			02/10/20 13:26	20
Carbon tetrachloride	<7.7		20	7.7	ug/L			02/10/20 13:26	20
Chlorobenzene	<7.7		20	7.7	ug/L			02/10/20 13:26	20
Chloroethane	<10		20	10	ug/L			02/10/20 13:26	20
Chloroform	<7.4		40	7.4	ug/L			02/10/20 13:26	20
Chloromethane	<6.4		20	6.4	ug/L			02/10/20 13:26	20
cis-1,2-Dichloroethene	<8.2		20	8.2	ug/L			02/10/20 13:26	20
cis-1,3-Dichloropropene	<8.3		20	8.3	ug/L			02/10/20 13:26	20
Dibromochloromethane	<9.8		20	9.8	ug/L			02/10/20 13:26	20
Dibromomethane	<5.4		20	5.4	ug/L			02/10/20 13:26	20
Dichlorodifluoromethane	<13		60	13	ug/L			02/10/20 13:26	20
Ethylbenzene	**360**		10	3.7	ug/L			02/10/20 13:26	20
Hexachlorobutadiene	<8.9		20	8.9	ug/L			02/10/20 13:26	20
Isopropyl ether	<5.5		20	5.5	ug/L			02/10/20 13:26	20
Isopropylbenzene	**17**	**J**	20	7.7	ug/L			02/10/20 13:26	20
Methyl tert-butyl ether	<7.9		20	7.9	ug/L			02/10/20 13:26	20
Methylene Chloride	<33		100	33	ug/L			02/10/20 13:26	20
n-Butylbenzene	<7.8		20	7.8	ug/L			02/10/20 13:26	20
N-Propylbenzene	<8.3		20	8.3	ug/L			02/10/20 13:26	20
p-Isopropyltoluene	<7.2		20	7.2	ug/L			02/10/20 13:26	20
sec-Butylbenzene	<8.0		20	8.0	ug/L			02/10/20 13:26	20

Client Sample ID: MW-107 DUP

Date Collected: 02/03/20 09:47
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<7.7		20	7.7	ug/L			02/10/20 13:26	20
tert-Butylbenzene	<8.0		20	8.0	ug/L			02/10/20 13:26	20
Tetrachloroethene	<7.4		20	7.4	ug/L			02/10/20 13:26	20
Toluene	**34**		10	3.0	ug/L			02/10/20 13:26	20
trans-1,2-Dichloroethene	<7.0		20	7.0	ug/L			02/10/20 13:26	20
trans-1,3-Dichloropropene	<7.2		20	7.2	ug/L			02/10/20 13:26	20
Trichloroethene	<3.3		10	3.3	ug/L			02/10/20 13:26	20
Trichlorofluoromethane	<8.5		20	8.5	ug/L			02/10/20 13:26	20
Vinyl chloride	<4.1		20	4.1	ug/L			02/10/20 13:26	20
Xylenes, Total	**790**		20	4.4	ug/L			02/10/20 13:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*02/10/20 13:26*	*20*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*02/10/20 13:26*	*20*
Dibromofluoromethane	*96*		*75 - 120*		*02/10/20 13:26*	*20*
Toluene-d8 (Surr)	*97*		*75 - 120*		*02/10/20 13:26*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**7200**		200	67	ug/L			02/10/20 13:51	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*02/10/20 13:51*	*200*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*02/10/20 13:51*	*200*
Dibromofluoromethane	*96*		*75 - 120*		*02/10/20 13:51*	*200*
Toluene-d8 (Surr)	*98*		*75 - 120*		*02/10/20 13:51*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**2.6**		0.90	0.24	ug/L		02/06/20 09:02	02/15/20 04:33	1
Anthracene	**12**		0.90	0.30	ug/L		02/06/20 09:02	02/15/20 04:33	1
Benzo[a]anthracene	**1.0**		0.18	0.051	ug/L		02/06/20 09:02	02/15/20 04:33	1
Benzo[a]pyrene	**0.78**		0.18	0.089	ug/L		02/06/20 09:02	02/15/20 04:33	1
Benzo[b]fluoranthene	**0.81**		0.18	0.073	ug/L		02/06/20 09:02	02/15/20 04:33	1
Benzo[g,h,i]perylene	**0.46**	**J**	0.90	0.34	ug/L		02/06/20 09:02	02/15/20 04:33	1
Benzo[k]fluoranthene	**0.41**		0.18	0.058	ug/L		02/06/20 09:02	02/15/20 04:33	1
Chrysene	**0.91**		0.18	0.062	ug/L		02/06/20 09:02	02/15/20 04:33	1
Dibenz(a,h)anthracene	<0.046		0.27	0.046	ug/L		02/06/20 09:02	02/15/20 04:33	1
Fluoranthene	**11**		0.90	0.41	ug/L		02/06/20 09:02	02/15/20 04:33	1
Indeno[1,2,3-cd]pyrene	**0.47**		0.18	0.068	ug/L		02/06/20 09:02	02/15/20 04:33	1
Pyrene	**6.8**		0.90	0.39	ug/L		02/06/20 09:02	02/15/20 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*34 - 110*	*02/06/20 09:02*	*02/15/20 04:33*	*1*
Nitrobenzene-d5 (Surr)	*222*	*X*	*36 - 120*	*02/06/20 09:02*	*02/15/20 04:33*	*1*
Terphenyl-d14 (Surr)	*119*		*40 - 145*	*02/06/20 09:02*	*02/15/20 04:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**580**		180	27	ug/L		02/06/20 09:02	02/17/20 20:59	100
2-Methylnaphthalene	**1000**		180	5.9	ug/L		02/06/20 09:02	02/17/20 20:59	100

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-107 DUP
Date Collected: 02/03/20 09:47
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	320		90	28	ug/L		02/06/20 09:02	02/17/20 20:59	100
Fluorene	150		90	22	ug/L		02/06/20 09:02	02/17/20 20:59	100
Phenanthrene	130		90	27	ug/L		02/06/20 09:02	02/17/20 20:59	100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	11000		180	56	ug/L		02/06/20 09:02	02/18/20 19:49	200

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-129
Date Collected: 02/03/20 09:10
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-7
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	<0.46		1.0	0.46	ug/L			02/07/20 14:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 14:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 14:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 14:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 14:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 14:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 14:20	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 14:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 14:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 14:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 14:20	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 14:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 14:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 14:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 14:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 14:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 14:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 14:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 14:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 14:20	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 14:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 14:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 14:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 14:20	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 14:20	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 14:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 14:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 14:20	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 14:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 14:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 14:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 14:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 14:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 14:20	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 14:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 14:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 14:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 14:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 14:20	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 14:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 14:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 14:20	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-129

Date Collected: 02/03/20 09:10
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 14:20	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 14:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 14:20	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 14:20	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 14:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 14:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 14:20	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 14:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 14:20	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 14:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/07/20 14:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*02/07/20 14:20*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*02/07/20 14:20*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*02/07/20 14:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.26		1.7	0.26	ug/L		02/06/20 09:02	02/15/20 05:00	1
2-Methylnaphthalene	<0.057		1.7	0.057	ug/L		02/06/20 09:02	02/15/20 05:00	1
Acenaphthene	<0.27		0.87	0.27	ug/L		02/06/20 09:02	02/15/20 05:00	1
Acenaphthylene	<0.23		0.87	0.23	ug/L		02/06/20 09:02	02/15/20 05:00	1
Anthracene	<0.29		0.87	0.29	ug/L		02/06/20 09:02	02/15/20 05:00	1
Benzo[a]anthracene	<0.049		0.17	0.049	ug/L		02/06/20 09:02	02/15/20 05:00	1
Benzo[a]pyrene	<0.086		0.17	0.086	ug/L		02/06/20 09:02	02/15/20 05:00	1
Benzo[b]fluoranthene	<0.070		0.17	0.070	ug/L		02/06/20 09:02	02/15/20 05:00	1
Benzo[g,h,i]perylene	<0.33		0.87	0.33	ug/L		02/06/20 09:02	02/15/20 05:00	1
Benzo[k]fluoranthene	<0.056		0.17	0.056	ug/L		02/06/20 09:02	02/15/20 05:00	1
Chrysene	<0.059		0.17	0.059	ug/L		02/06/20 09:02	02/15/20 05:00	1
Dibenz(a,h)anthracene	<0.044		0.26	0.044	ug/L		02/06/20 09:02	02/15/20 05:00	1
Fluoranthene	<0.40		0.87	0.40	ug/L		02/06/20 09:02	02/15/20 05:00	1
Fluorene	<0.21		0.87	0.21	ug/L		02/06/20 09:02	02/15/20 05:00	1
Indeno[1,2,3-cd]pyrene	<0.065		0.17	0.065	ug/L		02/06/20 09:02	02/15/20 05:00	1
Naphthalene	<0.27		0.87	0.27	ug/L		02/06/20 09:02	02/15/20 05:00	1
Phenanthrene	<0.26		0.87	0.26	ug/L		02/06/20 09:02	02/15/20 05:00	1
Pyrene	<0.37		0.87	0.37	ug/L		02/06/20 09:02	02/15/20 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 110*	*02/06/20 09:02*	*02/15/20 05:00*	*1*
Nitrobenzene-d5 (Surr)	*122*	*X*	*36 - 120*	*02/06/20 09:02*	*02/15/20 05:00*	*1*
Terphenyl-d14 (Surr)	*111*		*40 - 145*	*02/06/20 09:02*	*02/15/20 05:00*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-126
Date Collected: 02/03/20 11:00
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-8
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	<0.46		1.0	0.46	ug/L			02/07/20 14:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 14:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 14:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 14:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 14:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 14:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 14:46	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 14:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 14:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 14:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 14:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 14:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 14:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 14:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 14:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 14:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 14:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 14:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 14:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 14:46	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 14:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 14:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 14:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 14:46	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 14:46	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 14:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 14:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 14:46	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 14:46	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 14:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 14:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 14:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 14:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 14:46	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 14:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 14:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 14:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 14:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 14:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 14:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 14:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 14:46	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-126

Date Collected: 02/03/20 11:00
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 14:46	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 14:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 14:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 14:46	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 14:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 14:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 14:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 14:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 14:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 14:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*02/07/20 14:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*02/07/20 14:46*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*02/07/20 14:46*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*02/07/20 14:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.27		1.8	0.27	ug/L		02/06/20 09:02	02/17/20 18:18	1
2-Methylnaphthalene	<0.058		1.8	0.058	ug/L		02/06/20 09:02	02/17/20 18:18	1
Acenaphthene	<0.27		0.89	0.27	ug/L		02/06/20 09:02	02/17/20 18:18	1
Acenaphthylene	<0.24		0.89	0.24	ug/L		02/06/20 09:02	02/17/20 18:18	1
Anthracene	<0.30		0.89	0.30	ug/L		02/06/20 09:02	02/17/20 18:18	1
Benzo[a]anthracene	<0.050		0.18	0.050	ug/L		02/06/20 09:02	02/17/20 18:18	1
Benzo[a]pyrene	<0.088		0.18	0.088	ug/L		02/06/20 09:02	02/17/20 18:18	1
Benzo[b]fluoranthene	<0.072		0.18	0.072	ug/L		02/06/20 09:02	02/17/20 18:18	1
Benzo[g,h,i]perylene	<0.33		0.89	0.33	ug/L		02/06/20 09:02	02/17/20 18:18	1
Benzo[k]fluoranthene	<0.057		0.18	0.057	ug/L		02/06/20 09:02	02/17/20 18:18	1
Chrysene	<0.061		0.18	0.061	ug/L		02/06/20 09:02	02/17/20 18:18	1
Dibenz(a,h)anthracene	<0.045		0.27	0.045	ug/L		02/06/20 09:02	02/17/20 18:18	1
Fluoranthene	<0.40		0.89	0.40	ug/L		02/06/20 09:02	02/17/20 18:18	1
Fluorene	<0.22		0.89	0.22	ug/L		02/06/20 09:02	02/17/20 18:18	1
Indeno[1,2,3-cd]pyrene	<0.067		0.18	0.067	ug/L		02/06/20 09:02	02/17/20 18:18	1
Naphthalene	<0.27		0.89	0.27	ug/L		02/06/20 09:02	02/17/20 18:18	1
Phenanthrene	<0.27		0.89	0.27	ug/L		02/06/20 09:02	02/17/20 18:18	1
Pyrene	<0.38		0.89	0.38	ug/L		02/06/20 09:02	02/17/20 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 110*	*02/06/20 09:02*	*02/17/20 18:18*	*1*
Nitrobenzene-d5 (Surr)	*134*	*X*	*36 - 120*	*02/06/20 09:02*	*02/17/20 18:18*	*1*
Terphenyl-d14 (Surr)	*124*		*40 - 145*	*02/06/20 09:02*	*02/17/20 18:18*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-127
Date Collected: 02/03/20 11:35
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-9
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	<0.46		1.0	0.46	ug/L			02/07/20 15:12	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 15:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 15:12	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 15:12	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 15:12	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 15:12	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 15:12	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 15:12	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 15:12	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 15:12	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 15:12	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 15:12	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 15:12	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 15:12	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 15:12	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 15:12	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 15:12	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 15:12	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 15:12	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 15:12	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 15:12	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 15:12	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 15:12	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 15:12	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 15:12	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 15:12	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 15:12	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 15:12	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 15:12	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 15:12	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 15:12	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 15:12	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 15:12	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 15:12	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 15:12	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 15:12	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 15:12	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 15:12	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 15:12	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 15:12	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 15:12	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 15:12	1

Client Sample ID: MW-127
Date Collected: 02/03/20 11:35
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 15:12	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 15:12	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 15:12	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 15:12	1
Toluene	**0.17**	**J**	0.50	0.15	ug/L			02/07/20 15:12	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 15:12	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 15:12	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 15:12	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 15:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 15:12	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*02/07/20 15:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/07/20 15:12*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*02/07/20 15:12*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/07/20 15:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		02/06/20 09:02	02/17/20 18:44	1
2-Methylnaphthalene	<0.054		1.7	0.054	ug/L		02/06/20 09:02	02/17/20 18:44	1
Acenaphthene	<0.26		0.83	0.26	ug/L		02/06/20 09:02	02/17/20 18:44	1
Acenaphthylene	<0.22		0.83	0.22	ug/L		02/06/20 09:02	02/17/20 18:44	1
Anthracene	<0.28		0.83	0.28	ug/L		02/06/20 09:02	02/17/20 18:44	1
Benzo[a]anthracene	<0.047		0.17	0.047	ug/L		02/06/20 09:02	02/17/20 18:44	1
Benzo[a]pyrene	<0.082		0.17	0.082	ug/L		02/06/20 09:02	02/17/20 18:44	1
Benzo[b]fluoranthene	<0.067		0.17	0.067	ug/L		02/06/20 09:02	02/17/20 18:44	1
Benzo[g,h,i]perylene	<0.31		0.83	0.31	ug/L		02/06/20 09:02	02/17/20 18:44	1
Benzo[k]fluoranthene	<0.053		0.17	0.053	ug/L		02/06/20 09:02	02/17/20 18:44	1
Chrysene	<0.057		0.17	0.057	ug/L		02/06/20 09:02	02/17/20 18:44	1
Dibenz(a,h)anthracene	<0.042		0.25	0.042	ug/L		02/06/20 09:02	02/17/20 18:44	1
Fluoranthene	<0.38		0.83	0.38	ug/L		02/06/20 09:02	02/17/20 18:44	1
Fluorene	<0.20		0.83	0.20	ug/L		02/06/20 09:02	02/17/20 18:44	1
Indeno[1,2,3-cd]pyrene	<0.062		0.17	0.062	ug/L		02/06/20 09:02	02/17/20 18:44	1
Naphthalene	<0.26		0.83	0.26	ug/L		02/06/20 09:02	02/17/20 18:44	1
Phenanthrene	<0.25		0.83	0.25	ug/L		02/06/20 09:02	02/17/20 18:44	1
Pyrene	<0.35		0.83	0.35	ug/L		02/06/20 09:02	02/17/20 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*34 - 110*	*02/06/20 09:02*	*02/17/20 18:44*	*1*
Nitrobenzene-d5 (Surr)	*141*	*X*	*36 - 120*	*02/06/20 09:02*	*02/17/20 18:44*	*1*
Terphenyl-d14 (Surr)	*120*		*40 - 145*	*02/06/20 09:02*	*02/17/20 18:44*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-131
Date Collected: 02/03/20 13:40
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-10
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	<0.46		1.0	0.46	ug/L			02/07/20 15:38	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 15:38	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 15:38	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 15:38	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 15:38	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 15:38	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 15:38	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 15:38	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 15:38	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 15:38	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 15:38	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 15:38	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 15:38	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 15:38	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 15:38	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 15:38	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 15:38	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 15:38	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 15:38	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 15:38	1
Benzene	**0.18**	**J**	0.50	0.15	ug/L			02/07/20 15:38	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 15:38	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 15:38	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 15:38	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 15:38	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 15:38	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 15:38	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 15:38	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 15:38	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 15:38	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 15:38	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 15:38	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 15:38	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 15:38	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 15:38	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 15:38	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 15:38	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 15:38	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 15:38	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 15:38	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 15:38	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 15:38	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-131
Date Collected: 02/03/20 13:40
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 15:38	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 15:38	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 15:38	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 15:38	1
Toluene	**0.17**	**J**	0.50	0.15	ug/L			02/07/20 15:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 15:38	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 15:38	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 15:38	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 15:38	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 15:38	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*02/07/20 15:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/07/20 15:38*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*02/07/20 15:38*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/07/20 15:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.6	0.25	ug/L		02/06/20 09:02	02/17/20 19:11	1
2-Methylnaphthalene	<0.053		1.6	0.053	ug/L		02/06/20 09:02	02/17/20 19:11	1
Acenaphthene	**0.36**	**J**	0.82	0.25	ug/L		02/06/20 09:02	02/17/20 19:11	1
Acenaphthylene	<0.22		0.82	0.22	ug/L		02/06/20 09:02	02/17/20 19:11	1
Anthracene	<0.27		0.82	0.27	ug/L		02/06/20 09:02	02/17/20 19:11	1
Benzo[a]anthracene	<0.047		0.16	0.047	ug/L		02/06/20 09:02	02/17/20 19:11	1
Benzo[a]pyrene	<0.081		0.16	0.081	ug/L		02/06/20 09:02	02/17/20 19:11	1
Benzo[b]fluoranthene	<0.066		0.16	0.066	ug/L		02/06/20 09:02	02/17/20 19:11	1
Benzo[g,h,i]perylene	<0.31		0.82	0.31	ug/L		02/06/20 09:02	02/17/20 19:11	1
Benzo[k]fluoranthene	<0.053		0.16	0.053	ug/L		02/06/20 09:02	02/17/20 19:11	1
Chrysene	<0.056		0.16	0.056	ug/L		02/06/20 09:02	02/17/20 19:11	1
Dibenz(a,h)anthracene	<0.042		0.25	0.042	ug/L		02/06/20 09:02	02/17/20 19:11	1
Fluoranthene	**0.58**	**J**	0.82	0.37	ug/L		02/06/20 09:02	02/17/20 19:11	1
Fluorene	<0.20		0.82	0.20	ug/L		02/06/20 09:02	02/17/20 19:11	1
Indeno[1,2,3-cd]pyrene	<0.061		0.16	0.061	ug/L		02/06/20 09:02	02/17/20 19:11	1
Naphthalene	<0.25		0.82	0.25	ug/L		02/06/20 09:02	02/17/20 19:11	1
Phenanthrene	<0.25		0.82	0.25	ug/L		02/06/20 09:02	02/17/20 19:11	1
Pyrene	**0.39**	**J**	0.82	0.35	ug/L		02/06/20 09:02	02/17/20 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 110*	*02/06/20 09:02*	*02/17/20 19:11*	*1*
Nitrobenzene-d5 (Surr)	*126*	*X*	*36 - 120*	*02/06/20 09:02*	*02/17/20 19:11*	*1*
Terphenyl-d14 (Surr)	*116*		*40 - 145*	*02/06/20 09:02*	*02/17/20 19:11*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: Trip Blank-3

Date Collected: 01/31/20 00:00
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-11

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	<0.46		1.0	0.46	ug/L			02/07/20 10:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 10:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 10:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 10:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 10:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 10:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 10:54	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 10:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 10:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 10:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 10:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 10:54	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 10:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 10:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 10:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 10:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 10:54	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 10:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 10:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 10:54	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 10:54	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 10:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 10:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 10:54	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 10:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 10:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 10:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 10:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 10:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 10:54	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 10:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 10:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 10:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 10:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 10:54	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 10:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 10:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 10:54	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: Trip Blank-3
Date Collected: 01/31/20 00:00
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:54	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 10:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 10:54	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 10:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 10:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 10:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 10:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 10:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 10:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*		*02/07/20 10:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*02/07/20 10:54*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*02/07/20 10:54*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/07/20 10:54*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Qualifiers

GC/MS VOA

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.

GC/MS Semi VOA

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.
X	Surrogate is outside control limits

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)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

GC/MS VOA

Analysis Batch: 528465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177362-1	MW-128	Total/NA	Water	8260B	
500-177362-2	MW-132	Total/NA	Water	8260B	
500-177362-3	MW-2	Total/NA	Water	8260B	
500-177362-4	MW-101	Total/NA	Water	8260B	
500-177362-7	MW-129	Total/NA	Water	8260B	
500-177362-8	MW-126	Total/NA	Water	8260B	
500-177362-9	MW-127	Total/NA	Water	8260B	
500-177362-10	MW-131	Total/NA	Water	8260B	
500-177362-11	Trip Blank-3	Total/NA	Water	8260B	
MB 500-528465/6	Method Blank	Total/NA	Water	8260B	
LCS 500-528465/4	Lab Control Sample	Total/NA	Water	8260B	
500-177362-1 MS	MW-128	Total/NA	Water	8260B	
500-177362-1 MSD	MW-128	Total/NA	Water	8260B	

Analysis Batch: 528816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177362-5	MW-107	Total/NA	Water	8260B	
500-177362-5 - DL	MW-107	Total/NA	Water	8260B	
500-177362-6	MW-107 DUP	Total/NA	Water	8260B	
500-177362-6 - DL	MW-107 DUP	Total/NA	Water	8260B	
MB 500-528816/6	Method Blank	Total/NA	Water	8260B	
LCS 500-528816/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 528333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177362-1	MW-128	Total/NA	Water	3510C	
500-177362-2	MW-132	Total/NA	Water	3510C	
500-177362-3	MW-2	Total/NA	Water	3510C	
500-177362-4	MW-101	Total/NA	Water	3510C	
500-177362-5 - DL2	MW-107	Total/NA	Water	3510C	
500-177362-5 - DL	MW-107	Total/NA	Water	3510C	
500-177362-5	MW-107	Total/NA	Water	3510C	
500-177362-5 - DL3	MW-107	Total/NA	Water	3510C	
500-177362-6	MW-107 DUP	Total/NA	Water	3510C	
500-177362-6 - DL	MW-107 DUP	Total/NA	Water	3510C	
500-177362-6 - DL2	MW-107 DUP	Total/NA	Water	3510C	
500-177362-7	MW-129	Total/NA	Water	3510C	
500-177362-8	MW-126	Total/NA	Water	3510C	
500-177362-9	MW-127	Total/NA	Water	3510C	
500-177362-10	MW-131	Total/NA	Water	3510C	
MB 500-528333/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-528333/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-528333/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 529804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177362-1	MW-128	Total/NA	Water	8270D	528333
500-177362-2	MW-132	Total/NA	Water	8270D	528333
500-177362-3	MW-2	Total/NA	Water	8270D	528333

GC/MS Semi VOA (Continued)

Analysis Batch: 529804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177362-4	MW-101	Total/NA	Water	8270D	528333
500-177362-5	MW-107	Total/NA	Water	8270D	528333
500-177362-6	MW-107 DUP	Total/NA	Water	8270D	528333
500-177362-7	MW-129	Total/NA	Water	8270D	528333
MB 500-528333/1-A	Method Blank	Total/NA	Water	8270D	528333
LCS 500-528333/2-A	Lab Control Sample	Total/NA	Water	8270D	528333
LCSD 500-528333/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	528333

Analysis Batch: 529996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177362-5 - DL	MW-107	Total/NA	Water	8270D	528333
500-177362-5 - DL2	MW-107	Total/NA	Water	8270D	528333
500-177362-6 - DL	MW-107 DUP	Total/NA	Water	8270D	528333
500-177362-8	MW-126	Total/NA	Water	8270D	528333
500-177362-9	MW-127	Total/NA	Water	8270D	528333
500-177362-10	MW-131	Total/NA	Water	8270D	528333

Analysis Batch: 530152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177362-5 - DL3	MW-107	Total/NA	Water	8270D	528333
500-177362-6 - DL2	MW-107 DUP	Total/NA	Water	8270D	528333

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-177362-1	MW-128	86	102	94	103
500-177362-1 MS	MW-128	83	100	92	103
500-177362-1 MSD	MW-128	83	102	93	103
500-177362-2	MW-132	84	99	89	103
500-177362-3	MW-2	83	98	89	103
500-177362-4	MW-101	87	99	95	100
500-177362-5	MW-107	95	104	96	98
500-177362-5 - DL	MW-107	93	111	95	99
500-177362-6	MW-107 DUP	93	104	96	97
500-177362-6 - DL	MW-107 DUP	93	110	96	98
500-177362-7	MW-129	86	103	94	101
500-177362-8	MW-126	85	99	94	101
500-177362-9	MW-127	84	100	91	104
500-177362-10	MW-131	84	100	92	104
500-177362-11	Trip Blank-3	82	102	90	103
LCS 500-528465/4	Lab Control Sample	83	99	91	101
LCS 500-528816/4	Lab Control Sample	91	100	97	97
MB 500-528465/6	Method Blank	84	101	88	104
MB 500-528816/6	Method Blank	94	108	95	99

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (34-110)	NBZ (36-120)	TPHL (40-145)
500-177362-1	MW-128	89	130 X	125
500-177362-2	MW-132	86	135 X	112
500-177362-3	MW-2	67	100	118
500-177362-4	MW-101	86	131 X	118
500-177362-5	MW-107	84	81	113
500-177362-5 - DL	MW-107	101	141 X	136
500-177362-5 - DL2	MW-107	0 D	0 D	0 D
500-177362-5 - DL3	MW-107	0 D	0 D	0 D
500-177362-6	MW-107 DUP	84	222 X	119
500-177362-6 - DL	MW-107 DUP	0 D	0 D	0 D
500-177362-6 - DL2	MW-107 DUP	0 D	0 D	0 D
500-177362-7	MW-129	79	122 X	111
500-177362-8	MW-126	77	134 X	124
500-177362-9	MW-127	85	141 X	120
500-177362-10	MW-131	75	126 X	116
LCS 500-528333/2-A	Lab Control Sample	77	121 X	106
LCSD 500-528333/3-A	Lab Control Sample Dup	87	123 X	115
MB 500-528333/1-A	Method Blank	87	129 X	122

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-528465/6
Matrix: Water
Analysis Batch: 528465

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	<0.46		1.0	0.46	ug/L			02/07/20 10:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 10:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 10:29	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 10:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 10:29	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 10:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 10:29	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 10:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 10:29	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 10:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 10:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 10:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 10:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 10:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 10:29	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 10:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 10:29	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 10:29	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 10:29	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 10:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 10:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 10:29	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 10:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 10:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 10:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 10:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 10:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 10:29	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 10:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 10:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 10:29	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 10:29	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 10:29	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 10:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 10:29	1

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

Lab Sample ID: MB 500-528465/6
Matrix: Water
Analysis Batch: 528465

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 10:29	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 10:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 10:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 10:29	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 10:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 10:29	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*02/07/20 10:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*02/07/20 10:29*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*02/07/20 10:29*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/07/20 10:29*	*1*

Lab Sample ID: LCS 500-528465/4
Matrix: Water
Analysis Batch: 528465

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	50.0	41.4		ug/L		83	70 - 125
1,1,1-Trichloroethane	50.0	42.1		ug/L		84	70 - 125
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	62 - 140
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	71 - 130
1,1-Dichloroethane	50.0	44.4		ug/L		89	70 - 125
1,1-Dichloroethene	50.0	47.4		ug/L		95	67 - 122
1,1-Dichloropropene	50.0	44.0		ug/L		88	70 - 121
1,2,3-Trichlorobenzene	50.0	33.0		ug/L		66	51 - 145
1,2,3-Trichloropropane	50.0	48.7		ug/L		97	50 - 133
1,2,4-Trichlorobenzene	50.0	37.9		ug/L		76	57 - 137
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	31.3		ug/L		63	56 - 123
1,2-Dibromoethane	50.0	46.4		ug/L		93	70 - 125
1,2-Dichlorobenzene	50.0	45.8		ug/L		92	70 - 125
1,2-Dichloroethane	50.0	37.5		ug/L		75	68 - 127
1,2-Dichloropropane	50.0	48.4		ug/L		97	67 - 130
1,3,5-Trimethylbenzene	50.0	49.1		ug/L		98	70 - 123
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	45.2		ug/L		90	62 - 136
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 120
2,2-Dichloropropane	50.0	39.8		ug/L		80	58 - 139
2-Chlorotoluene	50.0	48.3		ug/L		97	70 - 125
4-Chlorotoluene	50.0	48.4		ug/L		97	68 - 124
Benzene	50.0	47.9		ug/L		96	70 - 120

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

Lab Sample ID: LCS 500-528465/4
Matrix: Water
Analysis Batch: 528465

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	47.9		ug/L		96	70 - 122
Bromochloromethane	50.0	43.7		ug/L		87	65 - 122
Bromodichloromethane	50.0	43.6		ug/L		87	69 - 120
Bromoform	50.0	41.0		ug/L		82	56 - 132
Bromomethane	50.0	44.1		ug/L		88	40 - 152
Carbon tetrachloride	50.0	40.8		ug/L		82	59 - 133
Chlorobenzene	50.0	46.0		ug/L		92	70 - 120
Chloroethane	50.0	47.7		ug/L		95	48 - 136
Chloroform	50.0	41.2		ug/L		82	70 - 120
Chloromethane	50.0	49.7		ug/L		99	56 - 152
cis-1,2-Dichloroethene	50.0	45.8		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	44.2		ug/L		88	64 - 127
Dibromochloromethane	50.0	42.9		ug/L		86	68 - 125
Dibromomethane	50.0	44.2		ug/L		88	70 - 120
Dichlorodifluoromethane	50.0	41.6		ug/L		83	40 - 159
Ethylbenzene	50.0	48.9		ug/L		98	70 - 123
Hexachlorobutadiene	50.0	38.0		ug/L		76	51 - 150
Isopropylbenzene	50.0	51.1		ug/L		102	70 - 126
Methyl tert-butyl ether	50.0	37.6		ug/L		75	55 - 123
Methylene Chloride	50.0	47.4		ug/L		95	69 - 125
Naphthalene	50.0	34.2		ug/L		68	53 - 144
n-Butylbenzene	50.0	50.2		ug/L		100	68 - 125
N-Propylbenzene	50.0	50.7		ug/L		101	69 - 127
p-Isopropyltoluene	50.0	47.8		ug/L		96	70 - 125
sec-Butylbenzene	50.0	50.0		ug/L		100	70 - 123
Styrene	50.0	47.4		ug/L		95	70 - 120
tert-Butylbenzene	50.0	46.6		ug/L		93	70 - 121
Tetrachloroethene	50.0	46.3		ug/L		93	70 - 128
Toluene	50.0	49.1		ug/L		98	70 - 125
trans-1,2-Dichloroethene	50.0	46.0		ug/L		92	70 - 125
trans-1,3-Dichloropropene	50.0	41.1		ug/L		82	62 - 128
Trichloroethene	50.0	45.8		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	43.6		ug/L		87	55 - 128
Vinyl chloride	50.0	48.9		ug/L		98	64 - 126
Xylenes, Total	100	90.2		ug/L		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*91*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: 500-177362-1 MS
Matrix: Water
Analysis Batch: 528465

Client Sample ID: MW-128
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	45.0		ug/L		90	70 - 125

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

Lab Sample ID: 500-177362-1 MS
Matrix: Water
Analysis Batch: 528465

Client Sample ID: MW-128
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<0.38		50.0	43.1		ug/L		86	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	57.1		ug/L		114	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	51.8		ug/L		104	71 - 130
1,1-Dichloroethane	<0.41		50.0	46.3		ug/L		93	70 - 125
1,1-Dichloroethene	<0.39		50.0	48.4		ug/L		97	67 - 122
1,1-Dichloropropene	<0.30		50.0	44.2		ug/L		88	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	36.6		ug/L		73	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	52.0		ug/L		104	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	39.0		ug/L		78	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	51.6		ug/L		103	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	37.1		ug/L		74	56 - 123
1,2-Dibromoethane	<0.39		50.0	50.4		ug/L		101	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	50.7		ug/L		101	70 - 125
1,2-Dichloroethane	<0.39		50.0	39.6		ug/L		79	68 - 127
1,2-Dichloropropane	<0.43		50.0	50.9		ug/L		102	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	51.9		ug/L		104	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	49.4		ug/L		99	70 - 125
1,3-Dichloropropane	<0.36		50.0	48.8		ug/L		98	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	48.8		ug/L		98	70 - 120
2,2-Dichloropropane	<0.44		50.0	38.7		ug/L		77	58 - 139
2-Chlorotoluene	<0.31		50.0	51.7		ug/L		103	70 - 125
4-Chlorotoluene	<0.35		50.0	51.1		ug/L		102	68 - 124
Benzene	<0.15		50.0	49.7		ug/L		99	70 - 120
Bromobenzene	<0.36		50.0	51.6		ug/L		103	70 - 122
Bromochloromethane	<0.43		50.0	46.2		ug/L		92	65 - 122
Bromodichloromethane	<0.37		50.0	46.2		ug/L		92	69 - 120
Bromoform	<0.48		50.0	43.9		ug/L		88	56 - 132
Bromomethane	<0.80		50.0	57.1		ug/L		114	40 - 152
Carbon tetrachloride	<0.38		50.0	41.8		ug/L		84	59 - 133
Chlorobenzene	<0.39		50.0	48.1		ug/L		96	70 - 120
Chloroethane	<0.51		50.0	52.6		ug/L		105	48 - 136
Chloroform	<0.37		50.0	43.1		ug/L		86	70 - 120
Chloromethane	<0.32		50.0	52.7		ug/L		105	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	46.5		ug/L		93	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	45.8		ug/L		92	64 - 127
Dibromochloromethane	<0.49		50.0	46.9		ug/L		94	68 - 125
Dibromomethane	<0.27		50.0	46.0		ug/L		92	70 - 120
Dichlorodifluoromethane	<0.67		50.0	44.9		ug/L		90	40 - 159
Ethylbenzene	<0.18		50.0	51.4		ug/L		103	70 - 123
Hexachlorobutadiene	<0.45		50.0	40.9		ug/L		82	51 - 150
Isopropylbenzene	<0.39		50.0	54.9		ug/L		110	70 - 126
Methyl tert-butyl ether	<0.39		50.0	38.8		ug/L		78	55 - 123
Methylene Chloride	<1.6		50.0	49.4		ug/L		99	69 - 125
Naphthalene	<0.34		50.0	39.4		ug/L		79	53 - 144
n-Butylbenzene	<0.39		50.0	50.7		ug/L		101	68 - 125
N-Propylbenzene	<0.41		50.0	54.1		ug/L		108	69 - 127
p-Isopropyltoluene	<0.36		50.0	50.4		ug/L		101	70 - 125
sec-Butylbenzene	<0.40		50.0	53.5		ug/L		107	70 - 123
Styrene	<0.39		50.0	50.1		ug/L		100	70 - 120

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

Lab Sample ID: 500-177362-1 MS
Matrix: Water
Analysis Batch: 528465

Client Sample ID: MW-128
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	<0.40		50.0	50.5		ug/L		101	70 - 121
Tetrachloroethene	<0.37		50.0	47.5		ug/L		95	70 - 128
Toluene	<0.15		50.0	52.0		ug/L		104	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	47.6		ug/L		95	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	42.9		ug/L		86	62 - 128
Trichloroethene	<0.16		50.0	47.3		ug/L		95	70 - 125
Trichlorofluoromethane	<0.43		50.0	46.0		ug/L		92	55 - 128
Vinyl chloride	<0.20		50.0	51.2		ug/L		102	64 - 126
Xylenes, Total	<0.22		100	95.0		ug/L		95	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: 500-177362-1 MSD
Matrix: Water
Analysis Batch: 528465

Client Sample ID: MW-128
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46		50.0	43.4		ug/L		87	70 - 125	4	20
1,1,1-Trichloroethane	<0.38		50.0	42.5		ug/L		85	70 - 125	1	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	55.8		ug/L		112	62 - 140	2	20
1,1,2-Trichloroethane	<0.35		50.0	50.0		ug/L		100	71 - 130	4	20
1,1-Dichloroethane	<0.41		50.0	46.1		ug/L		92	70 - 125	1	20
1,1-Dichloroethene	<0.39		50.0	47.4		ug/L		95	67 - 122	2	20
1,1-Dichloropropene	<0.30		50.0	44.4		ug/L		89	70 - 121	1	20
1,2,3-Trichlorobenzene	<0.46		50.0	43.6		ug/L		87	51 - 145	18	20
1,2,3-Trichloropropane	<0.41		50.0	51.5		ug/L		103	50 - 133	1	20
1,2,4-Trichlorobenzene	<0.34		50.0	42.6		ug/L		85	57 - 137	9	20
1,2,4-Trimethylbenzene	<0.36		50.0	51.2		ug/L		102	70 - 123	1	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	37.2		ug/L		74	56 - 123	0	20
1,2-Dibromoethane	<0.39		50.0	48.3		ug/L		97	70 - 125	4	20
1,2-Dichlorobenzene	<0.33		50.0	49.1		ug/L		98	70 - 125	3	20
1,2-Dichloroethane	<0.39		50.0	39.2		ug/L		78	68 - 127	1	20
1,2-Dichloropropane	<0.43		50.0	48.6		ug/L		97	67 - 130	5	20
1,3,5-Trimethylbenzene	<0.25		50.0	50.9		ug/L		102	70 - 123	2	20
1,3-Dichlorobenzene	<0.40		50.0	49.1		ug/L		98	70 - 125	1	20
1,3-Dichloropropane	<0.36		50.0	46.6		ug/L		93	62 - 136	5	20
1,4-Dichlorobenzene	<0.36		50.0	48.2		ug/L		96	70 - 120	1	20
2,2-Dichloropropane	<0.44		50.0	40.1		ug/L		80	58 - 139	3	20
2-Chlorotoluene	<0.31		50.0	50.5		ug/L		101	70 - 125	2	20
4-Chlorotoluene	<0.35		50.0	50.3		ug/L		101	68 - 124	2	20
Benzene	<0.15		50.0	48.7		ug/L		97	70 - 120	2	20
Bromobenzene	<0.36		50.0	50.9		ug/L		102	70 - 122	1	20
Bromochloromethane	<0.43		50.0	46.1		ug/L		92	65 - 122	0	20
Bromodichloromethane	<0.37		50.0	45.3		ug/L		91	69 - 120	2	20

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

Lab Sample ID: 500-177362-1 MSD
Matrix: Water
Analysis Batch: 528465

Client Sample ID: MW-128
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	<0.48		50.0	43.6		ug/L		87	56 - 132	1	20
Bromomethane	<0.80		50.0	56.4		ug/L		113	40 - 152	1	20
Carbon tetrachloride	<0.38		50.0	42.1		ug/L		84	59 - 133	1	20
Chlorobenzene	<0.39		50.0	47.1		ug/L		94	70 - 120	2	20
Chloroethane	<0.51		50.0	50.5		ug/L		101	48 - 136	4	20
Chloroform	<0.37		50.0	43.1		ug/L		86	70 - 120	0	20
Chloromethane	<0.32		50.0	50.9		ug/L		102	56 - 152	3	20
cis-1,2-Dichloroethene	<0.41		50.0	47.3		ug/L		95	70 - 125	2	20
cis-1,3-Dichloropropene	<0.42		50.0	44.5		ug/L		89	64 - 127	3	20
Dibromochloromethane	<0.49		50.0	46.4		ug/L		93	68 - 125	1	20
Dibromomethane	<0.27		50.0	45.5		ug/L		91	70 - 120	1	20
Dichlorodifluoromethane	<0.67		50.0	41.7		ug/L		83	40 - 159	7	20
Ethylbenzene	<0.18		50.0	50.2		ug/L		100	70 - 123	2	20
Hexachlorobutadiene	<0.45		50.0	40.2		ug/L		80	51 - 150	2	20
Isopropylbenzene	<0.39		50.0	53.6		ug/L		107	70 - 126	2	20
Methyl tert-butyl ether	<0.39		50.0	38.9		ug/L		78	55 - 123	0	20
Methylene Chloride	<1.6		50.0	48.6		ug/L		97	69 - 125	2	20
Naphthalene	<0.34		50.0	43.6		ug/L		87	53 - 144	10	20
n-Butylbenzene	<0.39		50.0	50.0		ug/L		100	68 - 125	1	20
N-Propylbenzene	<0.41		50.0	52.7		ug/L		105	69 - 127	3	20
p-Isopropyltoluene	<0.36		50.0	49.4		ug/L		99	70 - 125	2	20
sec-Butylbenzene	<0.40		50.0	52.4		ug/L		105	70 - 123	2	20
Styrene	<0.39		50.0	49.5		ug/L		99	70 - 120	1	20
tert-Butylbenzene	<0.40		50.0	49.2		ug/L		98	70 - 121	3	20
Tetrachloroethene	<0.37		50.0	46.3		ug/L		93	70 - 128	2	20
Toluene	<0.15		50.0	49.6		ug/L		99	70 - 125	5	20
trans-1,2-Dichloroethene	<0.35		50.0	47.2		ug/L		94	70 - 125	1	20
trans-1,3-Dichloropropene	<0.36		50.0	42.3		ug/L		85	62 - 128	2	20
Trichloroethene	<0.16		50.0	46.5		ug/L		93	70 - 125	2	20
Trichlorofluoromethane	<0.43		50.0	44.1		ug/L		88	55 - 128	4	20
Vinyl chloride	<0.20		50.0	50.0		ug/L		100	64 - 126	2	20
Xylenes, Total	<0.22		100	93.1		ug/L		93	70 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*
Dibromofluoromethane	*93*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: MB 500-528816/6
Matrix: Water
Analysis Batch: 528816

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	<0.46		1.0	0.46	ug/L			02/10/20 10:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/10/20 10:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/10/20 10:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/10/20 10:30	1

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

Lab Sample ID: MB 500-528816/6
Matrix: Water
Analysis Batch: 528816

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/10/20 10:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/10/20 10:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/10/20 10:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/10/20 10:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/10/20 10:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/10/20 10:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/10/20 10:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/10/20 10:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/10/20 10:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/10/20 10:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/10/20 10:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/10/20 10:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/10/20 10:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/10/20 10:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/10/20 10:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/10/20 10:30	1
Benzene	<0.15		0.50	0.15	ug/L			02/10/20 10:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/10/20 10:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/10/20 10:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/10/20 10:30	1
Bromoform	<0.48		1.0	0.48	ug/L			02/10/20 10:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/10/20 10:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/10/20 10:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/10/20 10:30	1
Chloroform	<0.37		2.0	0.37	ug/L			02/10/20 10:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/10/20 10:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/10/20 10:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/10/20 10:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/10/20 10:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/10/20 10:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/10/20 10:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/10/20 10:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/10/20 10:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/10/20 10:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/10/20 10:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/10/20 10:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/10/20 10:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/10/20 10:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/20 10:30	1
Styrene	<0.39		1.0	0.39	ug/L			02/10/20 10:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/10/20 10:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/10/20 10:30	1

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

Lab Sample ID: MB 500-528816/6
Matrix: Water
Analysis Batch: 528816

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			02/10/20 10:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/10/20 10:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/10/20 10:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/10/20 10:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/10/20 10:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/10/20 10:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/10/20 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*02/10/20 10:30*	*1*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*02/10/20 10:30*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*02/10/20 10:30*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/10/20 10:30*	*1*

Lab Sample ID: LCS 500-528816/4
Matrix: Water
Analysis Batch: 528816

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	50.0	51.9		ug/L		104	70 - 125
1,1,1-Trichloroethane	50.0	58.8		ug/L		118	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/L		92	62 - 140
1,1,2-Trichloroethane	50.0	45.3		ug/L		91	71 - 130
1,1-Dichloroethane	50.0	51.5		ug/L		103	70 - 125
1,1-Dichloroethene	50.0	52.9		ug/L		106	67 - 122
1,1-Dichloropropene	50.0	52.7		ug/L		105	70 - 121
1,2,3-Trichlorobenzene	50.0	48.6		ug/L		97	51 - 145
1,2,3-Trichloropropane	50.0	49.3		ug/L		99	50 - 133
1,2,4-Trichlorobenzene	50.0	49.3		ug/L		99	57 - 137
1,2,4-Trimethylbenzene	50.0	52.0		ug/L		104	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	36.9		ug/L		74	56 - 123
1,2-Dibromoethane	50.0	48.2		ug/L		96	70 - 125
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 125
1,2-Dichloroethane	50.0	47.1		ug/L		94	68 - 127
1,2-Dichloropropane	50.0	50.7		ug/L		101	67 - 130
1,3,5-Trimethylbenzene	50.0	54.0		ug/L		108	70 - 123
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	70 - 125
1,3-Dichloropropane	50.0	46.3		ug/L		93	62 - 136
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 120
2,2-Dichloropropane	50.0	62.0		ug/L		124	58 - 139
2-Chlorotoluene	50.0	52.4		ug/L		105	70 - 125
4-Chlorotoluene	50.0	50.5		ug/L		101	68 - 124
Benzene	50.0	48.8		ug/L		98	70 - 120
Bromobenzene	50.0	54.6		ug/L		109	70 - 122
Bromochloromethane	50.0	52.4		ug/L		105	65 - 122
Bromodichloromethane	50.0	48.0		ug/L		96	69 - 120
Bromoform	50.0	49.7		ug/L		99	56 - 132
Bromomethane	50.0	56.3		ug/L		113	40 - 152

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

Lab Sample ID: LCS 500-528816/4
Matrix: Water
Analysis Batch: 528816

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	57.1		ug/L		114	59 - 133
Chlorobenzene	50.0	51.3		ug/L		103	70 - 120
Chloroethane	50.0	51.8		ug/L		104	48 - 136
Chloroform	50.0	48.9		ug/L		98	70 - 120
Chloromethane	50.0	56.5		ug/L		113	56 - 152
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 125
cis-1,3-Dichloropropene	50.0	46.3		ug/L		93	64 - 127
Dibromochloromethane	50.0	48.3		ug/L		97	68 - 125
Dibromomethane	50.0	48.0		ug/L		96	70 - 120
Dichlorodifluoromethane	50.0	42.9		ug/L		86	40 - 159
Ethylbenzene	50.0	53.8		ug/L		108	70 - 123
Hexachlorobutadiene	50.0	58.3		ug/L		117	51 - 150
Isopropylbenzene	50.0	55.4		ug/L		111	70 - 126
Methyl tert-butyl ether	50.0	48.1		ug/L		96	55 - 123
Methylene Chloride	50.0	49.5		ug/L		99	69 - 125
Naphthalene	50.0	41.9		ug/L		84	53 - 144
n-Butylbenzene	50.0	51.2		ug/L		102	68 - 125
N-Propylbenzene	50.0	52.8		ug/L		106	69 - 127
p-Isopropyltoluene	50.0	55.2		ug/L		110	70 - 125
sec-Butylbenzene	50.0	54.2		ug/L		108	70 - 123
Styrene	50.0	49.4		ug/L		99	70 - 120
tert-Butylbenzene	50.0	55.5		ug/L		111	70 - 121
Tetrachloroethene	50.0	61.2		ug/L		122	70 - 128
Toluene	50.0	49.4		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	54.4		ug/L		109	70 - 125
trans-1,3-Dichloropropene	50.0	43.7		ug/L		87	62 - 128
Trichloroethene	50.0	54.2		ug/L		108	70 - 125
Trichlorofluoromethane	50.0	52.2		ug/L		104	55 - 128
Vinyl chloride	50.0	50.3		ug/L		101	64 - 126
Xylenes, Total	100	99.9		ug/L		100	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*97*		*75 - 120*
Toluene-d8 (Surr)	*97*		*75 - 120*

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

Lab Sample ID: MB 500-528333/1-A
Matrix: Water
Analysis Batch: 529804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		02/06/20 09:02	02/14/20 21:46	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		02/06/20 09:02	02/14/20 21:46	1
Acenaphthene	<0.25		0.80	0.25	ug/L		02/06/20 09:02	02/14/20 21:46	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		02/06/20 09:02	02/14/20 21:46	1
Anthracene	<0.27		0.80	0.27	ug/L		02/06/20 09:02	02/14/20 21:46	1

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

Lab Sample ID: MB 500-528333/1-A
Matrix: Water
Analysis Batch: 529804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		02/06/20 09:02	02/14/20 21:46	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		02/06/20 09:02	02/14/20 21:46	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		02/06/20 09:02	02/14/20 21:46	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		02/06/20 09:02	02/14/20 21:46	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		02/06/20 09:02	02/14/20 21:46	1
Chrysene	<0.055		0.16	0.055	ug/L		02/06/20 09:02	02/14/20 21:46	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		02/06/20 09:02	02/14/20 21:46	1
Fluoranthene	<0.36		0.80	0.36	ug/L		02/06/20 09:02	02/14/20 21:46	1
Fluorene	<0.20		0.80	0.20	ug/L		02/06/20 09:02	02/14/20 21:46	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		02/06/20 09:02	02/14/20 21:46	1
Naphthalene	<0.25		0.80	0.25	ug/L		02/06/20 09:02	02/14/20 21:46	1
Phenanthrene	<0.24		0.80	0.24	ug/L		02/06/20 09:02	02/14/20 21:46	1
Pyrene	<0.34		0.80	0.34	ug/L		02/06/20 09:02	02/14/20 21:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*34 - 110*	*02/06/20 09:02*	*02/14/20 21:46*	*1*
Nitrobenzene-d5 (Surr)	*129*	*X*	*36 - 120*	*02/06/20 09:02*	*02/14/20 21:46*	*1*
Terphenyl-d14 (Surr)	*122*		*40 - 145*	*02/06/20 09:02*	*02/14/20 21:46*	*1*

Lab Sample ID: LCS 500-528333/2-A
Matrix: Water
Analysis Batch: 529804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 528333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	32.0	21.6		ug/L		68	38 - 110
2-Methylnaphthalene	32.0	21.3		ug/L		66	34 - 110
Acenaphthene	32.0	24.0		ug/L		75	46 - 110
Acenaphthylene	32.0	26.0		ug/L		81	47 - 113
Anthracene	32.0	28.4		ug/L		89	67 - 118
Benzo[a]anthracene	32.0	29.4		ug/L		92	70 - 126
Benzo[a]pyrene	32.0	32.4		ug/L		101	70 - 135
Benzo[b]fluoranthene	32.0	32.1		ug/L		100	69 - 136
Benzo[g,h,i]perylene	32.0	34.5		ug/L		108	70 - 135
Benzo[k]fluoranthene	32.0	32.2		ug/L		101	70 - 133
Chrysene	32.0	28.3		ug/L		88	68 - 129
Dibenz(a,h)anthracene	32.0	35.4		ug/L		110	70 - 134
Fluoranthene	32.0	29.2		ug/L		91	68 - 126
Fluorene	32.0	27.1		ug/L		85	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.4		ug/L		111	65 - 133
Naphthalene	32.0	21.5		ug/L		67	36 - 110
Phenanthrene	32.0	28.5		ug/L		89	65 - 120
Pyrene	32.0	32.1		ug/L		100	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*34 - 110*
Nitrobenzene-d5 (Surr)	*121*	*X*	*36 - 120*
Terphenyl-d14 (Surr)	*106*		*40 - 145*

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

Lab Sample ID: LCSD 500-528333/3-A
Matrix: Water
Analysis Batch: 529804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 528333

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene			32.0	23.3		ug/L		73	38 - 110	7	20
2-Methylnaphthalene			32.0	23.2		ug/L		73	34 - 110	9	20
Acenaphthene			32.0	27.6		ug/L		86	46 - 110	14	20
Acenaphthylene			32.0	29.0		ug/L		91	47 - 113	11	20
Anthracene			32.0	31.8		ug/L		99	67 - 118	11	20
Benzo[a]anthracene			32.0	32.9		ug/L		103	70 - 126	11	20
Benzo[a]pyrene			32.0	36.6		ug/L		114	70 - 135	12	20
Benzo[b]fluoranthene			32.0	35.2		ug/L		110	69 - 136	9	20
Benzo[g,h,i]perylene			32.0	39.1		ug/L		122	70 - 135	12	20
Benzo[k]fluoranthene			32.0	36.6		ug/L		115	70 - 133	13	20
Chrysene			32.0	31.2		ug/L		98	68 - 129	10	20
Dibenz(a,h)anthracene			32.0	40.5		ug/L		126	70 - 134	13	20
Fluoranthene			32.0	32.6		ug/L		102	68 - 126	11	20
Fluorene			32.0	30.5		ug/L		95	53 - 120	12	20
Indeno[1,2,3-cd]pyrene			32.0	40.7		ug/L		127	65 - 133	14	20
Naphthalene			32.0	23.0		ug/L		72	36 - 110	7	20
Phenanthrene			32.0	32.0		ug/L		100	65 - 120	12	20
Pyrene			32.0	34.8		ug/L		109	70 - 126	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*34 - 110*
Nitrobenzene-d5 (Surr)	*123*	*X*	*36 - 120*
Terphenyl-d14 (Surr)	*115*		*40 - 145*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-128
Date Collected: 01/31/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 12:37	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529804	02/15/20 02:17	NRJ	TAL CHI

Client Sample ID: MW-132
Date Collected: 01/31/20 10:15
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 13:03	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529804	02/15/20 02:44	NRJ	TAL CHI

Client Sample ID: MW-2
Date Collected: 02/03/20 12:50
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 13:29	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529804	02/15/20 03:11	NRJ	TAL CHI

Client Sample ID: MW-101
Date Collected: 02/03/20 10:20
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 13:54	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529804	02/15/20 03:38	NRJ	TAL CHI

Client Sample ID: MW-107
Date Collected: 02/03/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	528816	02/10/20 12:36	STW	TAL CHI
Total/NA	Analysis	8260B	DL	200	528816	02/10/20 13:01	STW	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529804	02/15/20 04:05	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	10	529996	02/17/20 19:38	AJD	TAL CHI
Total/NA	Prep	3510C	DL2		528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D	DL2	100	529996	02/17/20 20:05	AJD	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-107
Date Collected: 02/03/20 09:45
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL3		528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D	DL3	200	530152	02/18/20 18:20	AJD	TAL CHI

Client Sample ID: MW-107 DUP
Date Collected: 02/03/20 09:47
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	528816	02/10/20 13:26	STW	TAL CHI
Total/NA	Analysis	8260B	DL	200	528816	02/10/20 13:51	STW	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529804	02/15/20 04:33	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	100	529996	02/17/20 20:59	AJD	TAL CHI
Total/NA	Prep	3510C	DL2		528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D	DL2	200	530152	02/18/20 19:49	AJD	TAL CHI

Client Sample ID: MW-129
Date Collected: 02/03/20 09:10
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 14:20	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529804	02/15/20 05:00	NRJ	TAL CHI

Client Sample ID: MW-126
Date Collected: 02/03/20 11:00
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 14:46	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529996	02/17/20 18:18	AJD	TAL CHI

Client Sample ID: MW-127
Date Collected: 02/03/20 11:35
Date Received: 02/05/20 09:20

Lab Sample ID: 500-177362-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 15:12	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529996	02/17/20 18:44	AJD	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Client Sample ID: MW-131

Lab Sample ID: 500-177362-10

Date Collected: 02/03/20 13:40

Matrix: Water

Date Received: 02/05/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 15:38	PMF	TAL CHI
Total/NA	Prep	3510C			528333	02/06/20 09:02	DAK	TAL CHI
Total/NA	Analysis	8270D		1	529996	02/17/20 19:11	AJD	TAL CHI

Client Sample ID: Trip Blank-3

Lab Sample ID: 500-177362-11

Date Collected: 01/31/20 00:00

Matrix: Water

Date Received: 02/05/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 10:54	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177362-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Connor Lawson	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-78795-36366.1
Client Contact: Mr. Mike Noel	Phone: (262) 203-1271	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: Tetra Tech GEO		Analysis Requested		Job #: 500-177362
Address: 175 N Corporate Drive Suite 100	Due Date Requested: Standard			Preservation Codes:
City: Brookfield	TAT Requested (days):			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)
State, Zip: WI, 53045	PO #: NEEDED			
Phone: 262-792-1282(Tel)	WO #:			Other:
Email: mike.noel@tetratech.com	Project #: 50007178			
Project Name: Beazer Oak Creek	SSOW#:			
Site:				

500-177362 COC

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)	8270D - PAH	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
1 MW-128	1/31	9:45	G	Water	N	N	X	X	5	
2 MW-132	1/31	10:15	G	Water	N	N	X	X	5	
3 MW-2	2/3	12:50	G	Water	N	N	X	X	5	
4 MW-101	2/3	10:20	G	Water	N	N	X	X	5	
5 MW-107	2/3	9:45	G	Water	N	N	X	X	5	
6 MW-107 DUP	2/3	9:47	G	Water	N	N	X	X	5	
7 MW-129	2/3	9:10	G	Water	N	N	X	X	5	
8 MW-126	2/3	11:00	G	Water	N	N	X	X	5	
9 MW-127	2/3	11:35	G	Water	N	N	X	X	5	
10 MW-131	2/3	13:40	G	Water	N	N	X	X	5	
11 Trip Blank-3				Water						Lab prepared

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
1	Connor Lawson	2/4/20 8:00	Tetra Tech			
2		2-4-20 1700	TA		2/5/20 0920	TA-CHI
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.7

Ver. 01/16/2019

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-177362-1

Login Number: 177362
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	2.7
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	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-177096-1
Client Project/Site: Beazer Oak Creek

For:
Tetra Tech GEO
175 N Corporate Drive
Suite 100
Brookfield, Wisconsin 53045

Attn: Mr. Mike Noel

Authorized for release by:
2/13/2020 10:53:34 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-177096-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-177096-1

Comments
No additional comments.

Receipt
The samples were received on 1/30/2020 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: P-110 (500-177096-6). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The following samples contained one base surrogate outside acceptance limits:MW-111 (500-177096-7). The laboratory's SOP allows one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: P-110 (500-177096-6). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: P-110 (500-177096-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-102 — Lab Sample ID: 500-177096-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	0.62	J	1.0	0.34	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.41	J	1.0	0.33	ug/L	1		8260B	Total/NA
Naphthalene	3.0	B	1.0	0.34	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.084	J	1.7	0.054	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.14	J	0.17	0.047	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.16	J	0.17	0.082	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.17	0.067	ug/L	1		8270D	Total/NA
Chrysene	0.12	J	0.17	0.057	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.051	J	0.25	0.042	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.093	J	0.17	0.062	ug/L	1		8270D	Total/NA

Client Sample ID: P-103 — Lab Sample ID: 500-177096-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.45	J	1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	0.34	J B	1.0	0.34	ug/L	1		8260B	Total/NA

Client Sample ID: MW-104 — Lab Sample ID: 500-177096-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.35	J B	1.0	0.34	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.15	J	1.7	0.055	ug/L	1		8270D	Total/NA

Client Sample ID: MW-105 — Lab Sample ID: 500-177096-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.34	J B	1.0	0.34	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.13	J	1.7	0.055	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.072	J	0.17	0.048	ug/L	1		8270D	Total/NA
Naphthalene	0.82	J	0.85	0.26	ug/L	1		8270D	Total/NA

Client Sample ID: P-121 — Lab Sample ID: 500-177096-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.11	J	0.17	0.049	ug/L	1		8270D	Total/NA

Client Sample ID: P-110 — Lab Sample ID: 500-177096-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	250		20	7.2	ug/L	20		8260B	Total/NA
1,2-Dibromo-3-Chloropropane	55	J	100	40	ug/L	20		8260B	Total/NA
1,3,5-Trimethylbenzene	120		20	5.1	ug/L	20		8260B	Total/NA
Benzene	940		10	2.9	ug/L	20		8260B	Total/NA
Ethylbenzene	430		10	3.7	ug/L	20		8260B	Total/NA
Isopropylbenzene	38		20	7.7	ug/L	20		8260B	Total/NA
Styrene	36		20	7.7	ug/L	20		8260B	Total/NA
Toluene	750		10	3.0	ug/L	20		8260B	Total/NA
Xylenes, Total	990		20	4.4	ug/L	20		8260B	Total/NA
Naphthalene - DL	18000	B	200	67	ug/L	200		8260B	Total/NA
1-Methylnaphthalene	420		31	4.7	ug/L	20		8270D	Total/NA
2-Methylnaphthalene	750		31	1.0	ug/L	20		8270D	Total/NA
Acenaphthene	370		15	4.8	ug/L	20		8270D	Total/NA
Acenaphthylene	14	J	15	4.1	ug/L	20		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-110 (Continued) — Lab Sample ID: 500-177096-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	20		15	5.2	ug/L	20		8270D	Total/NA
Benzo[a]anthracene	5.8		3.1	0.87	ug/L	20		8270D	Total/NA
Benzo[a]pyrene	4.1		3.1	1.5	ug/L	20		8270D	Total/NA
Benzo[b]fluoranthene	3.8		3.1	1.2	ug/L	20		8270D	Total/NA
Benzo[k]fluoranthene	3.7		3.1	0.99	ug/L	20		8270D	Total/NA
Chrysene	4.4		3.1	1.1	ug/L	20		8270D	Total/NA
Fluoranthene	33		15	7.0	ug/L	20		8270D	Total/NA
Fluorene	190		15	3.8	ug/L	20		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2.5	J	3.1	1.2	ug/L	20		8270D	Total/NA
Phenanthrene	170		15	4.7	ug/L	20		8270D	Total/NA
Pyrene	23		15	6.6	ug/L	20		8270D	Total/NA
Naphthalene - DL	11000		390	120	ug/L	500		8270D	Total/NA

Client Sample ID: MW-111 — Lab Sample ID: 500-177096-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.55	J	1.8	0.059	ug/L	1		8270D	Total/NA
Naphthalene	8.0		0.90	0.28	ug/L	1		8270D	Total/NA

Client Sample ID: Trip Blank-1 — Lab Sample ID: 500-177096-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177096-1	MW-102	Water	01/28/20 12:45	01/30/20 10:30	
500-177096-2	P-103	Water	01/28/20 13:00	01/30/20 10:30	
500-177096-3	MW-104	Water	01/28/20 13:20	01/30/20 10:30	
500-177096-4	MW-105	Water	01/28/20 13:45	01/30/20 10:30	
500-177096-5	P-121	Water	01/28/20 14:00	01/30/20 10:30	
500-177096-6	P-110	Water	01/28/20 14:20	01/30/20 10:30	
500-177096-7	MW-111	Water	01/28/20 14:40	01/30/20 10:30	
500-177096-8	Trip Blank-1	Water	01/28/20 00:00	01/30/20 10:30	

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-102
Date Collected: 01/28/20 12:45
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-1
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	<0.46		1.0	0.46	ug/L			02/05/20 11:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 11:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 11:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 11:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 11:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 11:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 11:57	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 11:57	1
1,2,4-Trichlorobenzene	**0.62**	**J**	1.0	0.34	ug/L			02/05/20 11:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 11:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 11:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
1,2-Dichlorobenzene	**0.41**	**J**	1.0	0.33	ug/L			02/05/20 11:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 11:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 11:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 11:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 11:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 11:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 11:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 11:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 11:57	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 11:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 11:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 11:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 11:57	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 11:57	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 11:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 11:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 11:57	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 11:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 11:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 11:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 11:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 11:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 11:57	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 11:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 11:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 11:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 11:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 11:57	1
Naphthalene	**3.0**	**B**	1.0	0.34	ug/L			02/05/20 11:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 11:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 11:57	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-102

Date Collected: 01/28/20 12:45
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 11:57	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 11:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 11:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 11:57	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 11:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 11:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 11:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 11:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 11:57	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 11:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*02/05/20 11:57*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*02/05/20 11:57*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*02/05/20 11:57*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/05/20 11:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		01/31/20 08:17	02/01/20 03:36	1
2-Methylnaphthalene	**0.084**	**J**	1.7	0.054	ug/L		01/31/20 08:17	02/01/20 03:36	1
Acenaphthene	<0.26		0.83	0.26	ug/L		01/31/20 08:17	02/01/20 03:36	1
Acenaphthylene	<0.22		0.83	0.22	ug/L		01/31/20 08:17	02/01/20 03:36	1
Anthracene	<0.28		0.83	0.28	ug/L		01/31/20 08:17	02/01/20 03:36	1
Benzo[a]anthracene	**0.14**	**J**	0.17	0.047	ug/L		01/31/20 08:17	02/01/20 03:36	1
Benzo[a]pyrene	**0.16**	**J**	0.17	0.082	ug/L		01/31/20 08:17	02/01/20 03:36	1
Benzo[b]fluoranthene	**0.17**		0.17	0.067	ug/L		01/31/20 08:17	02/01/20 03:36	1
Benzo[g,h,i]perylene	<0.31		0.83	0.31	ug/L		01/31/20 08:17	02/01/20 03:36	1
Benzo[k]fluoranthene	<0.053		0.17	0.053	ug/L		01/31/20 08:17	02/01/20 03:36	1
Chrysene	**0.12**	**J**	0.17	0.057	ug/L		01/31/20 08:17	02/01/20 03:36	1
Dibenz(a,h)anthracene	**0.051**	**J**	0.25	0.042	ug/L		01/31/20 08:17	02/01/20 03:36	1
Fluoranthene	<0.38		0.83	0.38	ug/L		01/31/20 08:17	02/01/20 03:36	1
Fluorene	<0.20		0.83	0.20	ug/L		01/31/20 08:17	02/01/20 03:36	1
Indeno[1,2,3-cd]pyrene	**0.093**	**J**	0.17	0.062	ug/L		01/31/20 08:17	02/01/20 03:36	1
Naphthalene	<0.26		0.83	0.26	ug/L		01/31/20 08:17	02/01/20 03:36	1
Phenanthrene	<0.25		0.83	0.25	ug/L		01/31/20 08:17	02/01/20 03:36	1
Pyrene	<0.35		0.83	0.35	ug/L		01/31/20 08:17	02/01/20 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*34 - 110*	*01/31/20 08:17*	*02/01/20 03:36*	*1*
Nitrobenzene-d5 (Surr)	*96*		*36 - 120*	*01/31/20 08:17*	*02/01/20 03:36*	*1*
Terphenyl-d14 (Surr)	*122*		*40 - 145*	*01/31/20 08:17*	*02/01/20 03:36*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: P-103
Date Collected: 01/28/20 13:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-2
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	<0.46		1.0	0.46	ug/L			02/05/20 13:32	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 13:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 13:32	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 13:32	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 13:32	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 13:32	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 13:32	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 13:32	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 13:32	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/05/20 13:32	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 13:32	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 13:32	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 13:32	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/05/20 13:32	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 13:32	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 13:32	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 13:32	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 13:32	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 13:32	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 13:32	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 13:32	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 13:32	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 13:32	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 13:32	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 13:32	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 13:32	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 13:32	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 13:32	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 13:32	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 13:32	1
Chlorobenzene	**0.45**	**J**	1.0	0.39	ug/L			02/05/20 13:32	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 13:32	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 13:32	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 13:32	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 13:32	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 13:32	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 13:32	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 13:32	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 13:32	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 13:32	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 13:32	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 13:32	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 13:32	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 13:32	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 13:32	1
Naphthalene	**0.34**	**J B**	1.0	0.34	ug/L			02/05/20 13:32	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 13:32	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 13:32	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 13:32	1

Client Sample ID: P-103
Date Collected: 01/28/20 13:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 13:32	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 13:32	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 13:32	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 13:32	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 13:32	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 13:32	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 13:32	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 13:32	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 13:32	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 13:32	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*02/05/20 13:32*	*1*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*02/05/20 13:32*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*02/05/20 13:32*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/05/20 13:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		01/31/20 08:17	02/01/20 04:03	1
2-Methylnaphthalene	<0.055		1.7	0.055	ug/L		01/31/20 08:17	02/01/20 04:03	1
Acenaphthene	<0.26		0.84	0.26	ug/L		01/31/20 08:17	02/01/20 04:03	1
Acenaphthylene	<0.23		0.84	0.23	ug/L		01/31/20 08:17	02/01/20 04:03	1
Anthracene	<0.28		0.84	0.28	ug/L		01/31/20 08:17	02/01/20 04:03	1
Benzo[a]anthracene	<0.048		0.17	0.048	ug/L		01/31/20 08:17	02/01/20 04:03	1
Benzo[a]pyrene	<0.084		0.17	0.084	ug/L		01/31/20 08:17	02/01/20 04:03	1
Benzo[b]fluoranthene	<0.068		0.17	0.068	ug/L		01/31/20 08:17	02/01/20 04:03	1
Benzo[g,h,i]perylene	<0.32		0.84	0.32	ug/L		01/31/20 08:17	02/01/20 04:03	1
Benzo[k]fluoranthene	<0.054		0.17	0.054	ug/L		01/31/20 08:17	02/01/20 04:03	1
Chrysene	<0.058		0.17	0.058	ug/L		01/31/20 08:17	02/01/20 04:03	1
Dibenz(a,h)anthracene	<0.043		0.25	0.043	ug/L		01/31/20 08:17	02/01/20 04:03	1
Fluoranthene	<0.38		0.84	0.38	ug/L		01/31/20 08:17	02/01/20 04:03	1
Fluorene	<0.21		0.84	0.21	ug/L		01/31/20 08:17	02/01/20 04:03	1
Indeno[1,2,3-cd]pyrene	<0.063		0.17	0.063	ug/L		01/31/20 08:17	02/01/20 04:03	1
Naphthalene	<0.26		0.84	0.26	ug/L		01/31/20 08:17	02/01/20 04:03	1
Phenanthrene	<0.25		0.84	0.25	ug/L		01/31/20 08:17	02/01/20 04:03	1
Pyrene	<0.36		0.84	0.36	ug/L		01/31/20 08:17	02/01/20 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*34 - 110*	*01/31/20 08:17*	*02/01/20 04:03*	*1*
Nitrobenzene-d5 (Surr)	*112*		*36 - 120*	*01/31/20 08:17*	*02/01/20 04:03*	*1*
Terphenyl-d14 (Surr)	*116*		*40 - 145*	*01/31/20 08:17*	*02/01/20 04:03*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-104
Date Collected: 01/28/20 13:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-3
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	<0.46		1.0	0.46	ug/L			02/05/20 13:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 13:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 13:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 13:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 13:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 13:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 13:56	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 13:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/05/20 13:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 13:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 13:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/05/20 13:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 13:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 13:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 13:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 13:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 13:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 13:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 13:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 13:56	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 13:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 13:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 13:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 13:56	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 13:56	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 13:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 13:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 13:56	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 13:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 13:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 13:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 13:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 13:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 13:56	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 13:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 13:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 13:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 13:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 13:56	1
Naphthalene	**0.35**	**J B**	1.0	0.34	ug/L			02/05/20 13:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 13:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 13:56	1

Client Sample ID: MW-104

Date Collected: 01/28/20 13:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 13:56	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 13:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 13:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 13:56	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 13:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 13:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 13:56	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 13:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 13:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 13:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*02/05/20 13:56*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*02/05/20 13:56*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*02/05/20 13:56*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*02/05/20 13:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		01/31/20 08:17	02/01/20 04:30	1
2-Methylnaphthalene	**0.15**	**J**	1.7	0.055	ug/L		01/31/20 08:17	02/01/20 04:30	1
Acenaphthene	<0.26		0.85	0.26	ug/L		01/31/20 08:17	02/01/20 04:30	1
Acenaphthylene	<0.23		0.85	0.23	ug/L		01/31/20 08:17	02/01/20 04:30	1
Anthracene	<0.28		0.85	0.28	ug/L		01/31/20 08:17	02/01/20 04:30	1
Benzo[a]anthracene	<0.048		0.17	0.048	ug/L		01/31/20 08:17	02/01/20 04:30	1
Benzo[a]pyrene	<0.084		0.17	0.084	ug/L		01/31/20 08:17	02/01/20 04:30	1
Benzo[b]fluoranthene	<0.068		0.17	0.068	ug/L		01/31/20 08:17	02/01/20 04:30	1
Benzo[g,h,i]perylene	<0.32		0.85	0.32	ug/L		01/31/20 08:17	02/01/20 04:30	1
Benzo[k]fluoranthene	<0.054		0.17	0.054	ug/L		01/31/20 08:17	02/01/20 04:30	1
Chrysene	<0.058		0.17	0.058	ug/L		01/31/20 08:17	02/01/20 04:30	1
Dibenz(a,h)anthracene	<0.043		0.25	0.043	ug/L		01/31/20 08:17	02/01/20 04:30	1
Fluoranthene	<0.38		0.85	0.38	ug/L		01/31/20 08:17	02/01/20 04:30	1
Fluorene	<0.21		0.85	0.21	ug/L		01/31/20 08:17	02/01/20 04:30	1
Indeno[1,2,3-cd]pyrene	<0.063		0.17	0.063	ug/L		01/31/20 08:17	02/01/20 04:30	1
Naphthalene	<0.26		0.85	0.26	ug/L		01/31/20 08:17	02/01/20 04:30	1
Phenanthrene	<0.25		0.85	0.25	ug/L		01/31/20 08:17	02/01/20 04:30	1
Pyrene	<0.36		0.85	0.36	ug/L		01/31/20 08:17	02/01/20 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*34 - 110*	*01/31/20 08:17*	*02/01/20 04:30*	*1*
Nitrobenzene-d5 (Surr)	*92*		*36 - 120*	*01/31/20 08:17*	*02/01/20 04:30*	*1*
Terphenyl-d14 (Surr)	*115*		*40 - 145*	*01/31/20 08:17*	*02/01/20 04:30*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-105
Date Collected: 01/28/20 13:45
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-4
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	<0.46		1.0	0.46	ug/L			02/05/20 14:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 14:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 14:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 14:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 14:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 14:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 14:20	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 14:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/05/20 14:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 14:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 14:20	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/05/20 14:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 14:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 14:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 14:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 14:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 14:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 14:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 14:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 14:20	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 14:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 14:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 14:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 14:20	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 14:20	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 14:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 14:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 14:20	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 14:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 14:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 14:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 14:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 14:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 14:20	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 14:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 14:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 14:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 14:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 14:20	1
Naphthalene	**0.34**	**J B**	1.0	0.34	ug/L			02/05/20 14:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 14:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 14:20	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-105
Date Collected: 01/28/20 13:45
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 14:20	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 14:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 14:20	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 14:20	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 14:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 14:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 14:20	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 14:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 14:20	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 14:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*02/05/20 14:20*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*02/05/20 14:20*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*02/05/20 14:20*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/05/20 14:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.26		1.7	0.26	ug/L		01/31/20 08:17	02/01/20 04:57	1
2-Methylnaphthalene	**0.13**	**J**	1.7	0.055	ug/L		01/31/20 08:17	02/01/20 04:57	1
Acenaphthene	<0.26		0.85	0.26	ug/L		01/31/20 08:17	02/01/20 04:57	1
Acenaphthylene	<0.23		0.85	0.23	ug/L		01/31/20 08:17	02/01/20 04:57	1
Anthracene	<0.28		0.85	0.28	ug/L		01/31/20 08:17	02/01/20 04:57	1
Benzo[a]anthracene	**0.072**	**J**	0.17	0.048	ug/L		01/31/20 08:17	02/01/20 04:57	1
Benzo[a]pyrene	<0.084		0.17	0.084	ug/L		01/31/20 08:17	02/01/20 04:57	1
Benzo[b]fluoranthene	<0.069		0.17	0.069	ug/L		01/31/20 08:17	02/01/20 04:57	1
Benzo[g,h,i]perylene	<0.32		0.85	0.32	ug/L		01/31/20 08:17	02/01/20 04:57	1
Benzo[k]fluoranthene	<0.054		0.17	0.054	ug/L		01/31/20 08:17	02/01/20 04:57	1
Chrysene	<0.058		0.17	0.058	ug/L		01/31/20 08:17	02/01/20 04:57	1
Dibenz(a,h)anthracene	<0.043		0.26	0.043	ug/L		01/31/20 08:17	02/01/20 04:57	1
Fluoranthene	<0.39		0.85	0.39	ug/L		01/31/20 08:17	02/01/20 04:57	1
Fluorene	<0.21		0.85	0.21	ug/L		01/31/20 08:17	02/01/20 04:57	1
Indeno[1,2,3-cd]pyrene	<0.064		0.17	0.064	ug/L		01/31/20 08:17	02/01/20 04:57	1
Naphthalene	**0.82**	**J**	0.85	0.26	ug/L		01/31/20 08:17	02/01/20 04:57	1
Phenanthrene	<0.26		0.85	0.26	ug/L		01/31/20 08:17	02/01/20 04:57	1
Pyrene	<0.36		0.85	0.36	ug/L		01/31/20 08:17	02/01/20 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 110*	*01/31/20 08:17*	*02/01/20 04:57*	*1*
Nitrobenzene-d5 (Surr)	*94*		*36 - 120*	*01/31/20 08:17*	*02/01/20 04:57*	*1*
Terphenyl-d14 (Surr)	*116*		*40 - 145*	*01/31/20 08:17*	*02/01/20 04:57*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: P-121
Date Collected: 01/28/20 14:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-5
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	<0.46		1.0	0.46	ug/L			02/05/20 14:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 14:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 14:44	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 14:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 14:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 14:44	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 14:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 14:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/05/20 14:44	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 14:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 14:44	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/05/20 14:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 14:44	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 14:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 14:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 14:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 14:44	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 14:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 14:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 14:44	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 14:44	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 14:44	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 14:44	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 14:44	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 14:44	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 14:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 14:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 14:44	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 14:44	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 14:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 14:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 14:44	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 14:44	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 14:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 14:44	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 14:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 14:44	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 14:44	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 14:44	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/05/20 14:44	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 14:44	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 14:44	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: P-121

Date Collected: 01/28/20 14:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 14:44	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 14:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 14:44	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 14:44	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 14:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 14:44	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 14:44	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 14:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 14:44	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 14:44	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*02/05/20 14:44*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*02/05/20 14:44*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*02/05/20 14:44*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*02/05/20 14:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.26		1.7	0.26	ug/L		01/31/20 08:17	02/01/20 05:24	1
2-Methylnaphthalene	<0.056		1.7	0.056	ug/L		01/31/20 08:17	02/01/20 05:24	1
Acenaphthene	<0.27		0.86	0.27	ug/L		01/31/20 08:17	02/01/20 05:24	1
Acenaphthylene	<0.23		0.86	0.23	ug/L		01/31/20 08:17	02/01/20 05:24	1
Anthracene	<0.29		0.86	0.29	ug/L		01/31/20 08:17	02/01/20 05:24	1
Benzo[a]anthracene	**0.11**	**J**	0.17	0.049	ug/L		01/31/20 08:17	02/01/20 05:24	1
Benzo[a]pyrene	<0.085		0.17	0.085	ug/L		01/31/20 08:17	02/01/20 05:24	1
Benzo[b]fluoranthene	<0.070		0.17	0.070	ug/L		01/31/20 08:17	02/01/20 05:24	1
Benzo[g,h,i]perylene	<0.32		0.86	0.32	ug/L		01/31/20 08:17	02/01/20 05:24	1
Benzo[k]fluoranthene	<0.055		0.17	0.055	ug/L		01/31/20 08:17	02/01/20 05:24	1
Chrysene	<0.059		0.17	0.059	ug/L		01/31/20 08:17	02/01/20 05:24	1
Dibenz(a,h)anthracene	<0.044		0.26	0.044	ug/L		01/31/20 08:17	02/01/20 05:24	1
Fluoranthene	<0.39		0.86	0.39	ug/L		01/31/20 08:17	02/01/20 05:24	1
Fluorene	<0.21		0.86	0.21	ug/L		01/31/20 08:17	02/01/20 05:24	1
Indeno[1,2,3-cd]pyrene	<0.065		0.17	0.065	ug/L		01/31/20 08:17	02/01/20 05:24	1
Naphthalene	<0.27		0.86	0.27	ug/L		01/31/20 08:17	02/01/20 05:24	1
Phenanthrene	<0.26		0.86	0.26	ug/L		01/31/20 08:17	02/01/20 05:24	1
Pyrene	<0.37		0.86	0.37	ug/L		01/31/20 08:17	02/01/20 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*34 - 110*	*01/31/20 08:17*	*02/01/20 05:24*	*1*
Nitrobenzene-d5 (Surr)	*118*		*36 - 120*	*01/31/20 08:17*	*02/01/20 05:24*	*1*
Terphenyl-d14 (Surr)	*126*		*40 - 145*	*01/31/20 08:17*	*02/01/20 05:24*	*1*

Client Sample ID: P-110
Date Collected: 01/28/20 14:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-6
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	<9.2		20	9.2	ug/L			02/05/20 17:55	20
1,1,1-Trichloroethane	<7.6		20	7.6	ug/L			02/05/20 17:55	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			02/05/20 17:55	20
1,1,2-Trichloroethane	<7.0		20	7.0	ug/L			02/05/20 17:55	20
1,1-Dichloroethane	<8.2		20	8.2	ug/L			02/05/20 17:55	20
1,1-Dichloroethene	<7.8		20	7.8	ug/L			02/05/20 17:55	20
1,1-Dichloropropene	<5.9		20	5.9	ug/L			02/05/20 17:55	20
1,2,3-Trichlorobenzene	<9.2		20	9.2	ug/L			02/05/20 17:55	20
1,2,3-Trichloropropane	<8.3		40	8.3	ug/L			02/05/20 17:55	20
1,2,4-Trichlorobenzene	<6.8		20	6.8	ug/L			02/05/20 17:55	20
1,2,4-Trimethylbenzene	**250**		20	7.2	ug/L			02/05/20 17:55	20
1,2-Dibromo-3-Chloropropane	**55**	**J**	100	40	ug/L			02/05/20 17:55	20
1,2-Dibromoethane	<7.7		20	7.7	ug/L			02/05/20 17:55	20
1,2-Dichlorobenzene	<6.7		20	6.7	ug/L			02/05/20 17:55	20
1,2-Dichloroethane	<7.8		20	7.8	ug/L			02/05/20 17:55	20
1,2-Dichloropropane	<8.6		20	8.6	ug/L			02/05/20 17:55	20
1,3,5-Trimethylbenzene	**120**		20	5.1	ug/L			02/05/20 17:55	20
1,3-Dichlorobenzene	<8.0		20	8.0	ug/L			02/05/20 17:55	20
1,3-Dichloropropane	<7.2		20	7.2	ug/L			02/05/20 17:55	20
1,4-Dichlorobenzene	<7.3		20	7.3	ug/L			02/05/20 17:55	20
2,2-Dichloropropane	<8.9		20	8.9	ug/L			02/05/20 17:55	20
2-Chlorotoluene	<6.3		20	6.3	ug/L			02/05/20 17:55	20
4-Chlorotoluene	<7.0		20	7.0	ug/L			02/05/20 17:55	20
Benzene	**940**		10	2.9	ug/L			02/05/20 17:55	20
Bromobenzene	<7.1		20	7.1	ug/L			02/05/20 17:55	20
Bromochloromethane	<8.6		20	8.6	ug/L			02/05/20 17:55	20
Bromodichloromethane	<7.4		20	7.4	ug/L			02/05/20 17:55	20
Bromoform	<9.7		20	9.7	ug/L			02/05/20 17:55	20
Bromomethane	<16		60	16	ug/L			02/05/20 17:55	20
Carbon tetrachloride	<7.7		20	7.7	ug/L			02/05/20 17:55	20
Chlorobenzene	<7.7		20	7.7	ug/L			02/05/20 17:55	20
Chloroethane	<10		20	10	ug/L			02/05/20 17:55	20
Chloroform	<7.4		40	7.4	ug/L			02/05/20 17:55	20
Chloromethane	<6.4		20	6.4	ug/L			02/05/20 17:55	20
cis-1,2-Dichloroethene	<8.2		20	8.2	ug/L			02/05/20 17:55	20
cis-1,3-Dichloropropene	<8.3		20	8.3	ug/L			02/05/20 17:55	20
Dibromochloromethane	<9.8		20	9.8	ug/L			02/05/20 17:55	20
Dibromomethane	<5.4		20	5.4	ug/L			02/05/20 17:55	20
Dichlorodifluoromethane	<13		60	13	ug/L			02/05/20 17:55	20
Ethylbenzene	**430**		10	3.7	ug/L			02/05/20 17:55	20
Hexachlorobutadiene	<8.9		20	8.9	ug/L			02/05/20 17:55	20
Isopropyl ether	<5.5		20	5.5	ug/L			02/05/20 17:55	20
Isopropylbenzene	**38**		20	7.7	ug/L			02/05/20 17:55	20
Methyl tert-butyl ether	<7.9		20	7.9	ug/L			02/05/20 17:55	20
Methylene Chloride	<33		100	33	ug/L			02/05/20 17:55	20
n-Butylbenzene	<7.8		20	7.8	ug/L			02/05/20 17:55	20
N-Propylbenzene	<8.3		20	8.3	ug/L			02/05/20 17:55	20
p-Isopropyltoluene	<7.2		20	7.2	ug/L			02/05/20 17:55	20
sec-Butylbenzene	<8.0		20	8.0	ug/L			02/05/20 17:55	20

Client Sample ID: P-110
Date Collected: 01/28/20 14:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	**36**		20	7.7	ug/L			02/05/20 17:55	20
tert-Butylbenzene	<8.0		20	8.0	ug/L			02/05/20 17:55	20
Tetrachloroethene	<7.4		20	7.4	ug/L			02/05/20 17:55	20
Toluene	**750**		10	3.0	ug/L			02/05/20 17:55	20
trans-1,2-Dichloroethene	<7.0		20	7.0	ug/L			02/05/20 17:55	20
trans-1,3-Dichloropropene	<7.2		20	7.2	ug/L			02/05/20 17:55	20
Trichloroethene	<3.3		10	3.3	ug/L			02/05/20 17:55	20
Trichlorofluoromethane	<8.5		20	8.5	ug/L			02/05/20 17:55	20
Vinyl chloride	<4.1		20	4.1	ug/L			02/05/20 17:55	20
Xylenes, Total	**990**		20	4.4	ug/L			02/05/20 17:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*02/05/20 17:55*	*20*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*02/05/20 17:55*	*20*
Dibromofluoromethane	*114*		*75 - 120*		*02/05/20 17:55*	*20*
Toluene-d8 (Surr)	*98*		*75 - 120*		*02/05/20 17:55*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**18000**	**B**	200	67	ug/L			02/05/20 18:19	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*02/05/20 18:19*	*200*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*02/05/20 18:19*	*200*
Dibromofluoromethane	*106*		*75 - 120*		*02/05/20 18:19*	*200*
Toluene-d8 (Surr)	*99*		*75 - 120*		*02/05/20 18:19*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**420**		31	4.7	ug/L		01/31/20 08:17	02/07/20 03:28	20
2-Methylnaphthalene	**750**		31	1.0	ug/L		01/31/20 08:17	02/07/20 03:28	20
Acenaphthene	**370**		15	4.8	ug/L		01/31/20 08:17	02/07/20 03:28	20
Acenaphthylene	**14**	**J**	15	4.1	ug/L		01/31/20 08:17	02/07/20 03:28	20
Anthracene	**20**		15	5.2	ug/L		01/31/20 08:17	02/07/20 03:28	20
Benzo[a]anthracene	**5.8**		3.1	0.87	ug/L		01/31/20 08:17	02/07/20 03:28	20
Benzo[a]pyrene	**4.1**		3.1	1.5	ug/L		01/31/20 08:17	02/07/20 03:28	20
Benzo[b]fluoranthene	**3.8**		3.1	1.2	ug/L		01/31/20 08:17	02/07/20 03:28	20
Benzo[g,h,i]perylene	<5.8		15	5.8	ug/L		01/31/20 08:17	02/07/20 03:28	20
Benzo[k]fluoranthene	**3.7**		3.1	0.99	ug/L		01/31/20 08:17	02/07/20 03:28	20
Chrysene	**4.4**		3.1	1.1	ug/L		01/31/20 08:17	02/07/20 03:28	20
Dibenz(a,h)anthracene	<0.78		4.6	0.78	ug/L		01/31/20 08:17	02/07/20 03:28	20
Fluoranthene	**33**		15	7.0	ug/L		01/31/20 08:17	02/07/20 03:28	20
Fluorene	**190**		15	3.8	ug/L		01/31/20 08:17	02/07/20 03:28	20
Indeno[1,2,3-cd]pyrene	**2.5**	**J**	3.1	1.2	ug/L		01/31/20 08:17	02/07/20 03:28	20
Phenanthrene	**170**		15	4.7	ug/L		01/31/20 08:17	02/07/20 03:28	20
Pyrene	**23**		15	6.6	ug/L		01/31/20 08:17	02/07/20 03:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*34 - 110*	*01/31/20 08:17*	*02/07/20 03:28*	*20*
Nitrobenzene-d5 (Surr)	*0*	*D*	*36 - 120*	*01/31/20 08:17*	*02/07/20 03:28*	*20*
Terphenyl-d14 (Surr)	*0*	*D*	*40 - 145*	*01/31/20 08:17*	*02/07/20 03:28*	*20*

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: P-110
Date Collected: 01/28/20 14:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	11000		390	120	ug/L		01/31/20 08:17	02/11/20 00:56	500

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-111

Date Collected: 01/28/20 14:40
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-7

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	<0.46		1.0	0.46	ug/L			02/05/20 15:08	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 15:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 15:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 15:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 15:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 15:08	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 15:08	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 15:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/05/20 15:08	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 15:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 15:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/05/20 15:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 15:08	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 15:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 15:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 15:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 15:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 15:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 15:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 15:08	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 15:08	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 15:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 15:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 15:08	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 15:08	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 15:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 15:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 15:08	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 15:08	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 15:08	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 15:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 15:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 15:08	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 15:08	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 15:08	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 15:08	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 15:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 15:08	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 15:08	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/05/20 15:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 15:08	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 15:08	1

Client Sample ID: MW-111
Date Collected: 01/28/20 14:40
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 15:08	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 15:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 15:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 15:08	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 15:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 15:08	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 15:08	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 15:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 15:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 15:08	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*02/05/20 15:08*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*02/05/20 15:08*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*02/05/20 15:08*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/05/20 15:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.27		1.8	0.27	ug/L		01/31/20 08:17	02/01/20 06:18	1
2-Methylnaphthalene	**0.55**	**J**	1.8	0.059	ug/L		01/31/20 08:17	02/01/20 06:18	1
Acenaphthene	<0.28		0.90	0.28	ug/L		01/31/20 08:17	02/01/20 06:18	1
Acenaphthylene	<0.24		0.90	0.24	ug/L		01/31/20 08:17	02/01/20 06:18	1
Anthracene	<0.30		0.90	0.30	ug/L		01/31/20 08:17	02/01/20 06:18	1
Benzo[a]anthracene	<0.051		0.18	0.051	ug/L		01/31/20 08:17	02/01/20 06:18	1
Benzo[a]pyrene	<0.089		0.18	0.089	ug/L		01/31/20 08:17	02/01/20 06:18	1
Benzo[b]fluoranthene	<0.073		0.18	0.073	ug/L		01/31/20 08:17	02/01/20 06:18	1
Benzo[g,h,i]perylene	<0.34		0.90	0.34	ug/L		01/31/20 08:17	02/01/20 06:18	1
Benzo[k]fluoranthene	<0.058		0.18	0.058	ug/L		01/31/20 08:17	02/01/20 06:18	1
Chrysene	<0.061		0.18	0.061	ug/L		01/31/20 08:17	02/01/20 06:18	1
Dibenz(a,h)anthracene	<0.046		0.27	0.046	ug/L		01/31/20 08:17	02/01/20 06:18	1
Fluoranthene	<0.41		0.90	0.41	ug/L		01/31/20 08:17	02/01/20 06:18	1
Fluorene	<0.22		0.90	0.22	ug/L		01/31/20 08:17	02/01/20 06:18	1
Indeno[1,2,3-cd]pyrene	<0.067		0.18	0.067	ug/L		01/31/20 08:17	02/01/20 06:18	1
Naphthalene	**8.0**		0.90	0.28	ug/L		01/31/20 08:17	02/01/20 06:18	1
Phenanthrene	<0.27		0.90	0.27	ug/L		01/31/20 08:17	02/01/20 06:18	1
Pyrene	<0.38		0.90	0.38	ug/L		01/31/20 08:17	02/01/20 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 110*	*01/31/20 08:17*	*02/01/20 06:18*	*1*
Nitrobenzene-d5 (Surr)	*94*		*36 - 120*	*01/31/20 08:17*	*02/01/20 06:18*	*1*
Terphenyl-d14 (Surr)	*157*	*X*	*40 - 145*	*01/31/20 08:17*	*02/01/20 06:18*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: Trip Blank-1
Date Collected: 01/28/20 00:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-8
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	<0.46		1.0	0.46	ug/L			02/05/20 15:32	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 15:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 15:32	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 15:32	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 15:32	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 15:32	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 15:32	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 15:32	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/05/20 15:32	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 15:32	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 15:32	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/05/20 15:32	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 15:32	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 15:32	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 15:32	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 15:32	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 15:32	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 15:32	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 15:32	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 15:32	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 15:32	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 15:32	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 15:32	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 15:32	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 15:32	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 15:32	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 15:32	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 15:32	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 15:32	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 15:32	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 15:32	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 15:32	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 15:32	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 15:32	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 15:32	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 15:32	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 15:32	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 15:32	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 15:32	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/05/20 15:32	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 15:32	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 15:32	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: Trip Blank-1
Date Collected: 01/28/20 00:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 15:32	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 15:32	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 15:32	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 15:32	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 15:32	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 15:32	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 15:32	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 15:32	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 15:32	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 15:32	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*02/05/20 15:32*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*02/05/20 15:32*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*02/05/20 15:32*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/05/20 15:32*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Qualifiers

GC/MS 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
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

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)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

GC/MS VOA

Analysis Batch: 528050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177096-1	MW-102	Total/NA	Water	8260B	
500-177096-2	P-103	Total/NA	Water	8260B	
500-177096-3	MW-104	Total/NA	Water	8260B	
500-177096-4	MW-105	Total/NA	Water	8260B	
500-177096-5	P-121	Total/NA	Water	8260B	
500-177096-6	P-110	Total/NA	Water	8260B	
500-177096-6 - DL	P-110	Total/NA	Water	8260B	
500-177096-7	MW-111	Total/NA	Water	8260B	
500-177096-8	Trip Blank-1	Total/NA	Water	8260B	
MB 500-528050/7	Method Blank	Total/NA	Water	8260B	
LCS 500-528050/5	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 527422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177096-1	MW-102	Total/NA	Water	3510C	
500-177096-2	P-103	Total/NA	Water	3510C	
500-177096-3	MW-104	Total/NA	Water	3510C	
500-177096-4	MW-105	Total/NA	Water	3510C	
500-177096-5	P-121	Total/NA	Water	3510C	
500-177096-6 - DL	P-110	Total/NA	Water	3510C	
500-177096-6	P-110	Total/NA	Water	3510C	
500-177096-7	MW-111	Total/NA	Water	3510C	
MB 500-527422/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-527422/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-527422/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 527538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177096-1	MW-102	Total/NA	Water	8270D	527422
500-177096-2	P-103	Total/NA	Water	8270D	527422
500-177096-3	MW-104	Total/NA	Water	8270D	527422
500-177096-4	MW-105	Total/NA	Water	8270D	527422
500-177096-5	P-121	Total/NA	Water	8270D	527422
500-177096-7	MW-111	Total/NA	Water	8270D	527422
MB 500-527422/1-A	Method Blank	Total/NA	Water	8270D	527422
LCS 500-527422/2-A	Lab Control Sample	Total/NA	Water	8270D	527422
LCSD 500-527422/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	527422

Analysis Batch: 528420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177096-6	P-110	Total/NA	Water	8270D	527422

Analysis Batch: 528955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177096-6 - DL	P-110	Total/NA	Water	8270D	527422

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-177096-1	MW-102	87	87	98	100
500-177096-2	P-103	94	88	102	100
500-177096-3	MW-104	106	90	110	98
500-177096-4	MW-105	90	87	101	100
500-177096-5	P-121	92	90	105	97
500-177096-6	P-110	109	96	114	98
500-177096-6 - DL	P-110	93	89	106	99
500-177096-7	MW-111	93	89	105	100
500-177096-8	Trip Blank-1	102	87	108	104
LCS 500-528050/5	Lab Control Sample	91	89	109	99
MB 500-528050/7	Method Blank	106	87	104	101

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-177096-1	MW-102	82	96	122
500-177096-2	P-103	90	112	116
500-177096-3	MW-104	71	92	115
500-177096-4	MW-105	76	94	116
500-177096-5	P-121	90	118	126
500-177096-6	P-110	0 D	0 D	0 D
500-177096-6 - DL	P-110	0 D	0 D	0 D
500-177096-7	MW-111	75	94	157 X
LCS 500-527422/2-A	Lab Control Sample	77	102	116
LCSD 500-527422/3-A	Lab Control Sample Dup	80	101	121
MB 500-527422/1-A	Method Blank	83	111	122

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-528050/7
Matrix: Water
Analysis Batch: 528050

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	<0.46		1.0	0.46	ug/L			02/05/20 10:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/05/20 10:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/05/20 10:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/05/20 10:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/05/20 10:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/05/20 10:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/05/20 10:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/05/20 10:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/05/20 10:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/05/20 10:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/05/20 10:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/05/20 10:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/05/20 10:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/05/20 10:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/05/20 10:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/05/20 10:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/05/20 10:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/05/20 10:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/05/20 10:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/05/20 10:45	1
Benzene	<0.15		0.50	0.15	ug/L			02/05/20 10:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/05/20 10:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/05/20 10:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/05/20 10:45	1
Bromoform	<0.48		1.0	0.48	ug/L			02/05/20 10:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/05/20 10:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/05/20 10:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/05/20 10:45	1
Chloroform	<0.37		2.0	0.37	ug/L			02/05/20 10:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/05/20 10:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/05/20 10:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/05/20 10:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/05/20 10:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/05/20 10:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/05/20 10:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/05/20 10:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/05/20 10:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/05/20 10:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/05/20 10:45	1
Naphthalene	0.438	J	1.0	0.34	ug/L			02/05/20 10:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/05/20 10:45	1

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

Lab Sample ID: MB 500-528050/7
Matrix: Water
Analysis Batch: 528050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/05/20 10:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 10:45	1
Styrene	<0.39		1.0	0.39	ug/L			02/05/20 10:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/05/20 10:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/05/20 10:45	1
Toluene	<0.15		0.50	0.15	ug/L			02/05/20 10:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/05/20 10:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/05/20 10:45	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/05/20 10:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/05/20 10:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/05/20 10:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/05/20 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*02/05/20 10:45*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*02/05/20 10:45*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*02/05/20 10:45*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*02/05/20 10:45*	*1*

Lab Sample ID: LCS 500-528050/5
Matrix: Water
Analysis Batch: 528050

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	50.0	51.0		ug/L		102	70 - 125
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	62 - 140
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	71 - 130
1,1-Dichloroethane	50.0	48.2		ug/L		96	70 - 125
1,1-Dichloroethene	50.0	51.6		ug/L		103	67 - 122
1,1-Dichloropropene	50.0	50.6		ug/L		101	70 - 121
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	51 - 145
1,2,3-Trichloropropane	50.0	46.5		ug/L		93	50 - 133
1,2,4-Trichlorobenzene	50.0	48.7		ug/L		97	57 - 137
1,2,4-Trimethylbenzene	50.0	44.0		ug/L		88	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	40.0		ug/L		80	56 - 123
1,2-Dibromoethane	50.0	53.8		ug/L		108	70 - 125
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 125
1,2-Dichloroethane	50.0	44.5		ug/L		89	68 - 127
1,2-Dichloropropane	50.0	47.1		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	50.0	44.8		ug/L		90	70 - 123
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 125
1,3-Dichloropropane	50.0	49.8		ug/L		100	62 - 136
1,4-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 120
2,2-Dichloropropane	50.0	45.4		ug/L		91	58 - 139
2-Chlorotoluene	50.0	43.2		ug/L		86	70 - 125
4-Chlorotoluene	50.0	43.0		ug/L		86	68 - 124
Benzene	50.0	49.3		ug/L		99	70 - 120

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

Lab Sample ID: LCS 500-528050/5
Matrix: Water
Analysis Batch: 528050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	47.2		ug/L		94	70 - 122
Bromochloromethane	50.0	52.8		ug/L		106	65 - 122
Bromodichloromethane	50.0	45.5		ug/L		91	69 - 120
Bromoform	50.0	51.9		ug/L		104	56 - 132
Bromomethane	50.0	42.8		ug/L		86	40 - 152
Carbon tetrachloride	50.0	53.1		ug/L		106	59 - 133
Chlorobenzene	50.0	51.1		ug/L		102	70 - 120
Chloroethane	50.0	37.2		ug/L		74	48 - 136
Chloroform	50.0	50.2		ug/L		100	70 - 120
Chloromethane	50.0	34.4		ug/L		69	56 - 152
cis-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 125
cis-1,3-Dichloropropene	50.0	46.3		ug/L		93	64 - 127
Dibromochloromethane	50.0	53.4		ug/L		107	68 - 125
Dibromomethane	50.0	48.5		ug/L		97	70 - 120
Dichlorodifluoromethane	50.0	31.3		ug/L		63	40 - 159
Ethylbenzene	50.0	52.1		ug/L		104	70 - 123
Hexachlorobutadiene	50.0	46.1		ug/L		92	51 - 150
Isopropylbenzene	50.0	45.2		ug/L		90	70 - 126
Methyl tert-butyl ether	50.0	44.7		ug/L		89	55 - 123
Methylene Chloride	50.0	51.2		ug/L		102	69 - 125
Naphthalene	50.0	47.8		ug/L		96	53 - 144
n-Butylbenzene	50.0	47.9		ug/L		96	68 - 125
N-Propylbenzene	50.0	44.9		ug/L		90	69 - 127
p-Isopropyltoluene	50.0	48.1		ug/L		96	70 - 125
sec-Butylbenzene	50.0	46.2		ug/L		92	70 - 123
Styrene	50.0	48.5		ug/L		97	70 - 120
tert-Butylbenzene	50.0	46.7		ug/L		93	70 - 121
Tetrachloroethene	50.0	52.9		ug/L		106	70 - 128
Toluene	50.0	48.3		ug/L		97	70 - 125
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 125
trans-1,3-Dichloropropene	50.0	44.0		ug/L		88	62 - 128
Trichloroethene	50.0	54.0		ug/L		108	70 - 125
Trichlorofluoromethane	50.0	48.9		ug/L		98	55 - 128
Vinyl chloride	50.0	37.9		ug/L		76	64 - 126
Xylenes, Total	100	95.4		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane	*109*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

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

Lab Sample ID: MB 500-527422/1-A
Matrix: Water
Analysis Batch: 527538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		01/31/20 08:17	02/01/20 01:21	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		01/31/20 08:17	02/01/20 01:21	1
Acenaphthene	<0.25		0.80	0.25	ug/L		01/31/20 08:17	02/01/20 01:21	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		01/31/20 08:17	02/01/20 01:21	1
Anthracene	<0.27		0.80	0.27	ug/L		01/31/20 08:17	02/01/20 01:21	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		01/31/20 08:17	02/01/20 01:21	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		01/31/20 08:17	02/01/20 01:21	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		01/31/20 08:17	02/01/20 01:21	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		01/31/20 08:17	02/01/20 01:21	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		01/31/20 08:17	02/01/20 01:21	1
Chrysene	<0.055		0.16	0.055	ug/L		01/31/20 08:17	02/01/20 01:21	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		01/31/20 08:17	02/01/20 01:21	1
Fluoranthene	<0.36		0.80	0.36	ug/L		01/31/20 08:17	02/01/20 01:21	1
Fluorene	<0.20		0.80	0.20	ug/L		01/31/20 08:17	02/01/20 01:21	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		01/31/20 08:17	02/01/20 01:21	1
Naphthalene	<0.25		0.80	0.25	ug/L		01/31/20 08:17	02/01/20 01:21	1
Phenanthrene	<0.24		0.80	0.24	ug/L		01/31/20 08:17	02/01/20 01:21	1
Pyrene	<0.34		0.80	0.34	ug/L		01/31/20 08:17	02/01/20 01:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*34 - 110*	*01/31/20 08:17*	*02/01/20 01:21*	*1*
Nitrobenzene-d5 (Surr)	*111*		*36 - 120*	*01/31/20 08:17*	*02/01/20 01:21*	*1*
Terphenyl-d14 (Surr)	*122*		*40 - 145*	*01/31/20 08:17*	*02/01/20 01:21*	*1*

Lab Sample ID: LCS 500-527422/2-A
Matrix: Water
Analysis Batch: 527538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527422

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	32.0	22.9		ug/L		72	38 - 110
2-Methylnaphthalene	32.0	23.5		ug/L		73	34 - 110
Acenaphthene	32.0	24.4		ug/L		76	46 - 110
Acenaphthylene	32.0	26.3		ug/L		82	47 - 113
Anthracene	32.0	30.6		ug/L		96	67 - 118
Benzo[a]anthracene	32.0	33.4		ug/L		104	70 - 126
Benzo[a]pyrene	32.0	37.1		ug/L		116	70 - 135
Benzo[b]fluoranthene	32.0	37.2		ug/L		116	69 - 136
Benzo[g,h,i]perylene	32.0	40.1		ug/L		125	70 - 135
Benzo[k]fluoranthene	32.0	36.8		ug/L		115	70 - 133
Chrysene	32.0	32.3		ug/L		101	68 - 129
Dibenz(a,h)anthracene	32.0	38.7		ug/L		121	70 - 134
Fluoranthene	32.0	32.7		ug/L		102	68 - 126
Fluorene	32.0	25.7		ug/L		80	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	32.1		ug/L		100	65 - 133
Naphthalene	32.0	20.9		ug/L		65	36 - 110
Phenanthrene	32.0	30.4		ug/L		95	65 - 120
Pyrene	32.0	29.9		ug/L		93	70 - 126

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

Lab Sample ID: LCS 500-527422/2-A
Matrix: Water
Analysis Batch: 527538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527422

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	77		34 - 110
Nitrobenzene-d5 (Surr)	102		36 - 120
Terphenyl-d14 (Surr)	116		40 - 145

Lab Sample ID: LCSD 500-527422/3-A
Matrix: Water
Analysis Batch: 527538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527422

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene			32.0	21.4		ug/L		67	38 - 110	7	20
2-Methylnaphthalene			32.0	21.1		ug/L		66	34 - 110	10	20
Acenaphthene			32.0	25.1		ug/L		79	46 - 110	3	20
Acenaphthylene			32.0	28.3		ug/L		88	47 - 113	7	20
Anthracene			32.0	30.1		ug/L		94	67 - 118	2	20
Benzo[a]anthracene			32.0	33.6		ug/L		105	70 - 126	1	20
Benzo[a]pyrene			32.0	37.7		ug/L		118	70 - 135	2	20
Benzo[b]fluoranthene			32.0	34.4		ug/L		108	69 - 136	8	20
Benzo[g,h,i]perylene			32.0	37.3		ug/L		117	70 - 135	7	20
Benzo[k]fluoranthene			32.0	31.6		ug/L		99	70 - 133	15	20
Chrysene			32.0	36.0		ug/L		113	68 - 129	11	20
Dibenz(a,h)anthracene			32.0	42.1		ug/L		132	70 - 134	8	20
Fluoranthene			32.0	31.4		ug/L		98	68 - 126	4	20
Fluorene			32.0	28.1		ug/L		88	53 - 120	9	20
Indeno[1,2,3-cd]pyrene			32.0	33.4		ug/L		104	65 - 133	4	20
Naphthalene			32.0	21.6		ug/L		68	36 - 110	3	20
Phenanthrene			32.0	29.5		ug/L		92	65 - 120	3	20
Pyrene			32.0	36.4		ug/L		114	70 - 126	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	80		34 - 110
Nitrobenzene-d5 (Surr)	101		36 - 120
Terphenyl-d14 (Surr)	121		40 - 145

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: MW-102
Date Collected: 01/28/20 12:45
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528050	02/05/20 11:57	JLC	TAL CHI
Total/NA	Prep	3510C			527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	527538	02/01/20 03:36	NRJ	TAL CHI

Client Sample ID: P-103
Date Collected: 01/28/20 13:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528050	02/05/20 13:32	JLC	TAL CHI
Total/NA	Prep	3510C			527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	527538	02/01/20 04:03	NRJ	TAL CHI

Client Sample ID: MW-104
Date Collected: 01/28/20 13:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528050	02/05/20 13:56	JLC	TAL CHI
Total/NA	Prep	3510C			527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	527538	02/01/20 04:30	NRJ	TAL CHI

Client Sample ID: MW-105
Date Collected: 01/28/20 13:45
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528050	02/05/20 14:20	JLC	TAL CHI
Total/NA	Prep	3510C			527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	527538	02/01/20 04:57	NRJ	TAL CHI

Client Sample ID: P-121
Date Collected: 01/28/20 14:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528050	02/05/20 14:44	JLC	TAL CHI
Total/NA	Prep	3510C			527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	527538	02/01/20 05:24	NRJ	TAL CHI

Client Sample ID: P-110
Date Collected: 01/28/20 14:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	528050	02/05/20 17:55	JLC	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Client Sample ID: P-110
Date Collected: 01/28/20 14:20
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	200	528050	02/05/20 18:19	JLC	TAL CHI
Total/NA	Prep	3510C			527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D		20	528420	02/07/20 03:28	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	500	528955	02/11/20 00:56	NRJ	TAL CHI

Client Sample ID: MW-111
Date Collected: 01/28/20 14:40
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528050	02/05/20 15:08	JLC	TAL CHI
Total/NA	Prep	3510C			527422	01/31/20 08:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	527538	02/01/20 06:18	NRJ	TAL CHI

Client Sample ID: Trip Blank-1
Date Collected: 01/28/20 00:00
Date Received: 01/30/20 10:30

Lab Sample ID: 500-177096-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528050	02/05/20 15:32	JLC	TAL CHI

Laboratory References:
TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177096-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins

Client Information
Client Contact: Mr. Mike Noel
Company: Tetra Tech GEO
Address: 175 N Corporate Drive Suite 100
City: Brookfield
State, Zip: WI 53045
Phone: 262-792 1282(Tel)
Email: mike.noel@tetratech.com
Project Name: Beaver Oak Creek
Site:

500-177096 COC

Sampler: Connor Lavzon
Phone: (262) 203-1294
Lab PM: Fredrick, Sandie
E-Mail: sandie.fredrick@testamericainc.com
Carrier Tracking No(s):
COC No: 500-78795-36366.1
Page: Page 1 of 4
Job #: 500-177096

Due Date Requested: Standard
TAT Requested (days):
PO #: NEEDED
WO #:
Project #: 50007176
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)	8270D - PAH	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
1 MW-107	1/28/20	12:45	G	Water	N				5	
2 P-103		13:00		Water	N				5	
3 MW-104		13:20		Water	N				5	
4 MW-105		13:45		Water	N				5	
5 P-121		14:00		Water	N				5	
6 P-110		14:20		Water	N				5	
7 MW-111		14 40		Water	N				5	
8 Trip Blank-1				Water						Lab prepared
Temp. Blank				Water						Lab prepared
				Water						
				Water						

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: 1/29/20 8:00	Company: Tetra Tech	Received by: Date/Time: 1/29/20 1100 Company: TA
Relinquished by	Date/Time: 1/29/20 1600	Company: TA	Received by: Date/Time: 1/30/20 1030 Company: TA-CHI
Relinquished by	Date/Time	Company	Received by: Date/Time Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.4

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-177096-1

Login Number: 177096
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	3.4
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, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-177224-1
Client Project/Site: Beazer Oak Creek

For:
Tetra Tech GEO
175 N Corporate Drive
Suite 100
Brookfield, Wisconsin 53045

Attn: Mr. Mike Noel

Sandie Fredrick

Authorized for release by:
2/17/2020 4:12:21 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-177224-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-177224-1

Comments
No additional comments.

Receipt
The samples were received on 2/1/2020 7:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

GC/MS VOA
Methods 624, 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-117 (500-177224-2), MW-125 (500-177224-5), MW-123 (500-177224-12) and MW-122 (500-177224-13). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to the abundance of target and non-target analytes: MW-117 (500-177224-2) and MW-125 (500-177224-5). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: MW-117 (500-177224-2), MW-125 (500-177224-5), MW-123 (500-177224-12) and MW-122 (500-177224-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-108 — Lab Sample ID: 500-177224-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.089	J	1.6	0.053	ug/L	1		8270D	Total/NA
Naphthalene	0.97		0.81	0.25	ug/L	1		8270D	Total/NA

Client Sample ID: MW-117 — Lab Sample ID: 500-177224-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	440		20	7.2	ug/L	20		8260B	Total/NA
1,3,5-Trimethylbenzene	180		20	5.1	ug/L	20		8260B	Total/NA
Benzene	3200		10	2.9	ug/L	20		8260B	Total/NA
Ethylbenzene	340		10	3.7	ug/L	20		8260B	Total/NA
Isopropylbenzene	20		20	7.7	ug/L	20		8260B	Total/NA
N-Propylbenzene	9.5	J	20	8.3	ug/L	20		8260B	Total/NA
Toluene	2800		10	3.0	ug/L	20		8260B	Total/NA
Xylenes, Total	1800		20	4.4	ug/L	20		8260B	Total/NA
Naphthalene - DL	36000		200	67	ug/L	200		8260B	Total/NA
1-Methylnaphthalene	780		160	25	ug/L	100		8270D	Total/NA
2-Methylnaphthalene	1700		160	5.4	ug/L	100		8270D	Total/NA
Acenaphthene	250		82	25	ug/L	100		8270D	Total/NA
Acenaphthylene	32	J	82	22	ug/L	100		8270D	Total/NA
Benzo[a]anthracene	5.6	J	16	4.7	ug/L	100		8270D	Total/NA
Fluorene	140		82	20	ug/L	100		8270D	Total/NA
Phenanthrene	110		82	25	ug/L	100		8270D	Total/NA
Naphthalene - DL	12000		820	250	ug/L	1000		8270D	Total/NA

Client Sample ID: P-120 — Lab Sample ID: 500-177224-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.8		1.0	0.34	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	0.41	J	1.5	0.23	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	0.79	J	1.5	0.050	ug/L	1		8270D	Total/NA
Acenaphthene	0.39	J	0.77	0.24	ug/L	1		8270D	Total/NA
Anthracene	0.30	J	0.77	0.26	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.32		0.15	0.044	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.27		0.15	0.076	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.15	0.062	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.14	J	0.15	0.049	ug/L	1		8270D	Total/NA
Chrysene	0.20		0.15	0.052	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.041	J	0.23	0.039	ug/L	1		8270D	Total/NA
Fluoranthene	0.67	J	0.77	0.35	ug/L	1		8270D	Total/NA
Fluorene	0.54	J	0.77	0.19	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.15	0.058	ug/L	1		8270D	Total/NA
Naphthalene	3.0		0.77	0.24	ug/L	1		8270D	Total/NA
Phenanthrene	1.5		0.77	0.23	ug/L	1		8270D	Total/NA
Pyrene	0.52	J	0.77	0.33	ug/L	1		8270D	Total/NA

Client Sample ID: MW-115 — Lab Sample ID: 500-177224-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.35	J	1.8	0.058	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.060	J	0.18	0.050	ug/L	1		8270D	Total/NA
Naphthalene	5.0		0.89	0.27	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-125 — Lab Sample ID: 500-177224-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	99		10	3.6	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	40		10	2.5	ug/L	10		8260B	Total/NA
Benzene	270		5.0	1.5	ug/L	10		8260B	Total/NA
Ethylbenzene	91		5.0	1.8	ug/L	10		8260B	Total/NA
Isopropylbenzene	5.1	J	10	3.9	ug/L	10		8260B	Total/NA
Toluene	160		5.0	1.5	ug/L	10		8260B	Total/NA
Xylenes, Total	430		10	2.2	ug/L	10		8260B	Total/NA
Naphthalene - DL	11000		100	34	ug/L	100		8260B	Total/NA
1-Methylnaphthalene	64		8.3	1.3	ug/L	5		8270D	Total/NA
2-Methylnaphthalene	84		8.3	0.27	ug/L	5		8270D	Total/NA
Acenaphthene	60		4.2	1.3	ug/L	5		8270D	Total/NA
Acenaphthylene	4.5		4.2	1.1	ug/L	5		8270D	Total/NA
Anthracene	4.5		4.2	1.4	ug/L	5		8270D	Total/NA
Benzo[a]anthracene	0.96		0.83	0.24	ug/L	5		8270D	Total/NA
Benzo[a]pyrene	0.93		0.83	0.41	ug/L	5		8270D	Total/NA
Benzo[b]fluoranthene	0.67	J	0.83	0.34	ug/L	5		8270D	Total/NA
Benzo[k]fluoranthene	0.28	J	0.83	0.27	ug/L	5		8270D	Total/NA
Chrysene	0.88		0.83	0.28	ug/L	5		8270D	Total/NA
Fluoranthene	7.6		4.2	1.9	ug/L	5		8270D	Total/NA
Fluorene	32		4.2	1.0	ug/L	5		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.34	J	0.83	0.31	ug/L	5		8270D	Total/NA
Phenanthrene	32		4.2	1.3	ug/L	5		8270D	Total/NA
Pyrene	6.2		4.2	1.8	ug/L	5		8270D	Total/NA
Naphthalene - DL	2500		42	13	ug/L	50		8270D	Total/NA

Client Sample ID: MW-116 — Lab Sample ID: 500-177224-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.73	J	1.7	0.25	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	0.20	J	1.7	0.055	ug/L	1		8270D	Total/NA
Acenaphthene	0.85		0.84	0.26	ug/L	1		8270D	Total/NA
Anthracene	0.92		0.84	0.28	ug/L	1		8270D	Total/NA
Fluorene	0.34	J	0.84	0.21	ug/L	1		8270D	Total/NA
Naphthalene	0.73	J	0.84	0.26	ug/L	1		8270D	Total/NA
Phenanthrene	0.29	J	0.84	0.25	ug/L	1		8270D	Total/NA

Client Sample ID: P-113 — Lab Sample ID: 500-177224-7

No Detections.

Client Sample ID: P-113 DUP — Lab Sample ID: 500-177224-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.82		0.82	0.25	ug/L	1		8270D	Total/NA
Anthracene	0.95		0.82	0.27	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.42		0.16	0.046	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.52		0.16	0.081	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.65		0.16	0.066	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.55	J	0.82	0.31	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.16	0.053	ug/L	1		8270D	Total/NA
Chrysene	0.53		0.16	0.056	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.17	J	0.25	0.042	ug/L	1		8270D	Total/NA
Fluoranthene	1.5		0.82	0.37	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-113 DUP (Continued) — Lab Sample ID: 500-177224-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.31	J	0.82	0.20	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.37		0.16	0.061	ug/L	1		8270D	Total/NA
Naphthalene	0.67	J	0.82	0.25	ug/L	1		8270D	Total/NA
Phenanthrene	1.4		0.82	0.25	ug/L	1		8270D	Total/NA
Pyrene	1.2		0.82	0.35	ug/L	1		8270D	Total/NA

Client Sample ID: MW-112 — Lab Sample ID: 500-177224-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.96		0.89	0.30	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.10	J	0.18	0.051	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.22		0.18	0.088	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.15	J	0.18	0.072	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.085	J	0.18	0.057	ug/L	1		8270D	Total/NA
Chrysene	0.13	J	0.18	0.061	ug/L	1		8270D	Total/NA
Fluoranthene	0.52	J	0.89	0.40	ug/L	1		8270D	Total/NA
Naphthalene	0.79	J	0.89	0.28	ug/L	1		8270D	Total/NA
Phenanthrene	0.45	J	0.89	0.27	ug/L	1		8270D	Total/NA
Pyrene	0.77	J	0.89	0.38	ug/L	1		8270D	Total/NA

Client Sample ID: MW-118 — Lab Sample ID: 500-177224-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.95		0.84	0.28	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.14	J	0.17	0.047	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.34		0.17	0.083	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.17	0.068	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.43	J	0.84	0.31	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.13	J	0.17	0.054	ug/L	1		8270D	Total/NA
Chrysene	0.24		0.17	0.057	ug/L	1		8270D	Total/NA
Fluoranthene	0.86		0.84	0.38	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.25		0.17	0.063	ug/L	1		8270D	Total/NA
Phenanthrene	0.68	J	0.84	0.25	ug/L	1		8270D	Total/NA
Pyrene	0.89		0.84	0.36	ug/L	1		8270D	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 500-177224-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.85		0.78	0.26	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.12	J	0.16	0.044	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.23		0.16	0.077	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.16	0.063	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.34	J	0.78	0.29	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.14	J	0.16	0.050	ug/L	1		8270D	Total/NA
Chrysene	0.15	J	0.16	0.053	ug/L	1		8270D	Total/NA
Fluoranthene	0.47	J	0.78	0.35	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.16	0.058	ug/L	1		8270D	Total/NA
Phenanthrene	0.37	J	0.78	0.23	ug/L	1		8270D	Total/NA
Pyrene	0.66	J	0.78	0.33	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-123 — Lab Sample ID: 500-177224-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	110		10	3.6	ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	34		10	2.5	ug/L	10		8260B	Total/NA
Benzene	310		5.0	1.5	ug/L	10		8260B	Total/NA
Ethylbenzene	66		5.0	1.8	ug/L	10		8260B	Total/NA
Isopropylbenzene	8.8	J	10	3.9	ug/L	10		8260B	Total/NA
N-Propylbenzene	4.7	J	10	4.1	ug/L	10		8260B	Total/NA
Toluene	69		5.0	1.5	ug/L	10		8260B	Total/NA
Xylenes, Total	150		10	2.2	ug/L	10		8260B	Total/NA
Naphthalene - DL	9800		100	34	ug/L	100		8260B	Total/NA
Acenaphthylene	9.2		0.83	0.22	ug/L	1		8270D	Total/NA
Anthracene	7.5		0.83	0.28	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.66		0.17	0.047	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.75		0.17	0.082	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.81		0.17	0.067	ug/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.46	J	0.83	0.31	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.32		0.17	0.053	ug/L	1		8270D	Total/NA
Chrysene	0.73		0.17	0.057	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.070	J	0.25	0.042	ug/L	1		8270D	Total/NA
Fluoranthene	9.2		0.83	0.38	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.35		0.17	0.062	ug/L	1		8270D	Total/NA
Pyrene	4.2		0.83	0.36	ug/L	1		8270D	Total/NA
1-Methylnaphthalene - DL	210		17	2.5	ug/L	10		8270D	Total/NA
2-Methylnaphthalene - DL	200		17	0.54	ug/L	10		8270D	Total/NA
Acenaphthene - DL	150		8.3	2.6	ug/L	10		8270D	Total/NA
Fluorene - DL	85		8.3	2.0	ug/L	10		8270D	Total/NA
Phenanthrene - DL	65		8.3	2.5	ug/L	10		8270D	Total/NA
Naphthalene - DL2	3200		83	26	ug/L	100		8270D	Total/NA

Client Sample ID: MW-122 — Lab Sample ID: 500-177224-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	12		2.0	0.72	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene	6.6		2.0	0.51	ug/L	2		8260B	Total/NA
Benzene	18		1.0	0.29	ug/L	2		8260B	Total/NA
Ethylbenzene	51		1.0	0.37	ug/L	2		8260B	Total/NA
Isopropylbenzene	5.3		2.0	0.77	ug/L	2		8260B	Total/NA
Toluene	2.5		1.0	0.30	ug/L	2		8260B	Total/NA
Xylenes, Total	14		2.0	0.44	ug/L	2		8260B	Total/NA
Naphthalene - DL	890		5.0	1.7	ug/L	5		8260B	Total/NA
2-Methylnaphthalene	3.5		1.8	0.058	ug/L	1		8270D	Total/NA
Acenaphthylene	2.0		0.89	0.24	ug/L	1		8270D	Total/NA
Anthracene	3.0		0.89	0.30	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.13	J	0.18	0.050	ug/L	1		8270D	Total/NA
Chrysene	0.14	J	0.18	0.060	ug/L	1		8270D	Total/NA
Fluoranthene	2.6		0.89	0.40	ug/L	1		8270D	Total/NA
Fluorene	29		0.89	0.22	ug/L	1		8270D	Total/NA
Phenanthrene	22		0.89	0.27	ug/L	1		8270D	Total/NA
Pyrene	1.2		0.89	0.38	ug/L	1		8270D	Total/NA
1-Methylnaphthalene - DL	59		18	2.7	ug/L	10		8270D	Total/NA
Acenaphthene - DL	63		8.9	2.7	ug/L	10		8270D	Total/NA
Naphthalene - DL2	660		89	27	ug/L	100		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: Trip Blank-2 **Lab Sample ID: 500-177224-14**

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177224-1	MW-108	Water	01/29/20 13:25	02/01/20 07:50	
500-177224-2	MW-117	Water	01/29/20 12:45	02/01/20 07:50	
500-177224-3	P-120	Water	01/29/20 12:55	02/01/20 07:50	
500-177224-4	MW-115	Water	01/29/20 13:45	02/01/20 07:50	
500-177224-5	MW-125	Water	01/29/20 14:15	02/01/20 07:50	
500-177224-6	MW-116	Water	01/29/20 13:10	02/01/20 07:50	
500-177224-7	P-113	Water	01/30/20 10:55	02/01/20 07:50	
500-177224-8	P-113 DUP	Water	01/30/20 11:00	02/01/20 07:50	
500-177224-9	MW-112	Water	01/30/20 11:15	02/01/20 07:50	
500-177224-10	MW-118	Water	01/30/20 11:35	02/01/20 07:50	
500-177224-11	MW-1	Water	01/30/20 12:10	02/01/20 07:50	
500-177224-12	MW-123	Water	01/30/20 12:25	02/01/20 07:50	
500-177224-13	MW-122	Water	01/30/20 12:45	02/01/20 07:50	
500-177224-14	Trip Blank-2	Water	01/29/20 00:00	02/01/20 07:50	

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-108
Date Collected: 01/29/20 13:25
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-1
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	<0.46		1.0	0.46	ug/L			02/06/20 10:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 10:59	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 10:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 10:59	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 10:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 10:59	1
1,2,3-Trichlorobenzene	<0.46	F2	1.0	0.46	ug/L			02/06/20 10:59	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 10:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 10:59	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 10:59	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 10:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 10:59	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 10:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 10:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:59	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 10:59	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 10:59	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 10:59	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 10:59	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:59	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 10:59	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 10:59	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 10:59	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 10:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 10:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 10:59	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 10:59	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 10:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 10:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 10:59	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 10:59	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 10:59	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 10:59	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 10:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 10:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 10:59	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 10:59	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 10:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 10:59	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 10:59	1

Client Sample ID: MW-108
Date Collected: 01/29/20 13:25
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:59	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 10:59	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:59	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 10:59	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 10:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 10:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 10:59	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 10:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 10:59	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 10:59	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*		*02/06/20 10:59*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*02/06/20 10:59*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*02/06/20 10:59*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*02/06/20 10:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.6	0.25	ug/L		02/03/20 17:42	02/05/20 03:53	1
2-Methylnaphthalene	**0.089**	**J**	1.6	0.053	ug/L		02/03/20 17:42	02/05/20 03:53	1
Acenaphthene	<0.25		0.81	0.25	ug/L		02/03/20 17:42	02/05/20 03:53	1
Acenaphthylene	<0.22		0.81	0.22	ug/L		02/03/20 17:42	02/05/20 03:53	1
Anthracene	<0.27		0.81	0.27	ug/L		02/03/20 17:42	02/05/20 03:53	1
Benzo[a]anthracene	<0.046		0.16	0.046	ug/L		02/03/20 17:42	02/05/20 03:53	1
Benzo[a]pyrene	<0.080		0.16	0.080	ug/L		02/03/20 17:42	02/05/20 03:53	1
Benzo[b]fluoranthene	<0.066		0.16	0.066	ug/L		02/03/20 17:42	02/05/20 03:53	1
Benzo[g,h,i]perylene	<0.31		0.81	0.31	ug/L		02/03/20 17:42	02/05/20 03:53	1
Benzo[k]fluoranthene	<0.052		0.16	0.052	ug/L		02/03/20 17:42	02/05/20 03:53	1
Chrysene	<0.055		0.16	0.055	ug/L		02/03/20 17:42	02/05/20 03:53	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		02/03/20 17:42	02/05/20 03:53	1
Fluoranthene	<0.37		0.81	0.37	ug/L		02/03/20 17:42	02/05/20 03:53	1
Fluorene	<0.20		0.81	0.20	ug/L		02/03/20 17:42	02/05/20 03:53	1
Indeno[1,2,3-cd]pyrene	<0.061		0.16	0.061	ug/L		02/03/20 17:42	02/05/20 03:53	1
Naphthalene	**0.97**		0.81	0.25	ug/L		02/03/20 17:42	02/05/20 03:53	1
Phenanthrene	<0.25		0.81	0.25	ug/L		02/03/20 17:42	02/05/20 03:53	1
Pyrene	<0.35		0.81	0.35	ug/L		02/03/20 17:42	02/05/20 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*34 - 110*	*02/03/20 17:42*	*02/05/20 03:53*	*1*
Nitrobenzene-d5 (Surr)	*91*		*36 - 120*	*02/03/20 17:42*	*02/05/20 03:53*	*1*
Terphenyl-d14 (Surr)	*111*		*40 - 145*	*02/03/20 17:42*	*02/05/20 03:53*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-117
Date Collected: 01/29/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-2
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	<9.2		20	9.2	ug/L			02/06/20 13:59	20
1,1,1-Trichloroethane	<7.6		20	7.6	ug/L			02/06/20 13:59	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			02/06/20 13:59	20
1,1,2-Trichloroethane	<7.0		20	7.0	ug/L			02/06/20 13:59	20
1,1-Dichloroethane	<8.2		20	8.2	ug/L			02/06/20 13:59	20
1,1-Dichloroethene	<7.8		20	7.8	ug/L			02/06/20 13:59	20
1,1-Dichloropropene	<5.9		20	5.9	ug/L			02/06/20 13:59	20
1,2,3-Trichlorobenzene	<9.2		20	9.2	ug/L			02/06/20 13:59	20
1,2,3-Trichloropropane	<8.3		40	8.3	ug/L			02/06/20 13:59	20
1,2,4-Trichlorobenzene	<6.8		20	6.8	ug/L			02/06/20 13:59	20
1,2,4-Trimethylbenzene	**440**		20	7.2	ug/L			02/06/20 13:59	20
1,2-Dibromo-3-Chloropropane	<40		100	40	ug/L			02/06/20 13:59	20
1,2-Dibromoethane	<7.7		20	7.7	ug/L			02/06/20 13:59	20
1,2-Dichlorobenzene	<6.7		20	6.7	ug/L			02/06/20 13:59	20
1,2-Dichloroethane	<7.8		20	7.8	ug/L			02/06/20 13:59	20
1,2-Dichloropropane	<8.6		20	8.6	ug/L			02/06/20 13:59	20
1,3,5-Trimethylbenzene	**180**		20	5.1	ug/L			02/06/20 13:59	20
1,3-Dichlorobenzene	<8.0		20	8.0	ug/L			02/06/20 13:59	20
1,3-Dichloropropane	<7.2		20	7.2	ug/L			02/06/20 13:59	20
1,4-Dichlorobenzene	<7.3		20	7.3	ug/L			02/06/20 13:59	20
2,2-Dichloropropane	<8.9		20	8.9	ug/L			02/06/20 13:59	20
2-Chlorotoluene	<6.3		20	6.3	ug/L			02/06/20 13:59	20
4-Chlorotoluene	<7.0		20	7.0	ug/L			02/06/20 13:59	20
Benzene	**3200**		10	2.9	ug/L			02/06/20 13:59	20
Bromobenzene	<7.1		20	7.1	ug/L			02/06/20 13:59	20
Bromochloromethane	<8.6		20	8.6	ug/L			02/06/20 13:59	20
Bromodichloromethane	<7.4		20	7.4	ug/L			02/06/20 13:59	20
Bromoform	<9.7		20	9.7	ug/L			02/06/20 13:59	20
Bromomethane	<16		60	16	ug/L			02/06/20 13:59	20
Carbon tetrachloride	<7.7		20	7.7	ug/L			02/06/20 13:59	20
Chlorobenzene	<7.7		20	7.7	ug/L			02/06/20 13:59	20
Chloroethane	<10		20	10	ug/L			02/06/20 13:59	20
Chloroform	<7.4		40	7.4	ug/L			02/06/20 13:59	20
Chloromethane	<6.4		20	6.4	ug/L			02/06/20 13:59	20
cis-1,2-Dichloroethene	<8.2		20	8.2	ug/L			02/06/20 13:59	20
cis-1,3-Dichloropropene	<8.3		20	8.3	ug/L			02/06/20 13:59	20
Dibromochloromethane	<9.8		20	9.8	ug/L			02/06/20 13:59	20
Dibromomethane	<5.4		20	5.4	ug/L			02/06/20 13:59	20
Dichlorodifluoromethane	<13		60	13	ug/L			02/06/20 13:59	20
Ethylbenzene	**340**		10	3.7	ug/L			02/06/20 13:59	20
Hexachlorobutadiene	<8.9		20	8.9	ug/L			02/06/20 13:59	20
Isopropyl ether	<5.5		20	5.5	ug/L			02/06/20 13:59	20
Isopropylbenzene	**20**		20	7.7	ug/L			02/06/20 13:59	20
Methyl tert-butyl ether	<7.9		20	7.9	ug/L			02/06/20 13:59	20
Methylene Chloride	<33		100	33	ug/L			02/06/20 13:59	20
n-Butylbenzene	<7.8		20	7.8	ug/L			02/06/20 13:59	20
N-Propylbenzene	**9.5**	**J**	20	8.3	ug/L			02/06/20 13:59	20
p-Isopropyltoluene	<7.2		20	7.2	ug/L			02/06/20 13:59	20
sec-Butylbenzene	<8.0		20	8.0	ug/L			02/06/20 13:59	20

Client Sample ID: MW-117

Date Collected: 01/29/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<7.7		20	7.7	ug/L			02/06/20 13:59	20
tert-Butylbenzene	<8.0		20	8.0	ug/L			02/06/20 13:59	20
Tetrachloroethene	<7.4		20	7.4	ug/L			02/06/20 13:59	20
Toluene	**2800**		10	3.0	ug/L			02/06/20 13:59	20
trans-1,2-Dichloroethene	<7.0		20	7.0	ug/L			02/06/20 13:59	20
trans-1,3-Dichloropropene	<7.2		20	7.2	ug/L			02/06/20 13:59	20
Trichloroethene	<3.3		10	3.3	ug/L			02/06/20 13:59	20
Trichlorofluoromethane	<8.5		20	8.5	ug/L			02/06/20 13:59	20
Vinyl chloride	<4.1		20	4.1	ug/L			02/06/20 13:59	20
Xylenes, Total	**1800**		20	4.4	ug/L			02/06/20 13:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*02/06/20 13:59*	*20*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*02/06/20 13:59*	*20*
Dibromofluoromethane	*92*		*75 - 120*		*02/06/20 13:59*	*20*
Toluene-d8 (Surr)	*101*		*75 - 120*		*02/06/20 13:59*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**36000**		200	67	ug/L			02/06/20 14:24	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*02/06/20 14:24*	*200*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*02/06/20 14:24*	*200*
Dibromofluoromethane	*91*		*75 - 120*		*02/06/20 14:24*	*200*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/06/20 14:24*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**780**		160	25	ug/L		02/03/20 17:42	02/10/20 22:41	100
2-Methylnaphthalene	**1700**		160	5.4	ug/L		02/03/20 17:42	02/10/20 22:41	100
Acenaphthene	**250**		82	25	ug/L		02/03/20 17:42	02/10/20 22:41	100
Acenaphthylene	**32**	**J**	82	22	ug/L		02/03/20 17:42	02/10/20 22:41	100
Anthracene	<27		82	27	ug/L		02/03/20 17:42	02/10/20 22:41	100
Benzo[a]anthracene	**5.6**	**J**	16	4.7	ug/L		02/03/20 17:42	02/10/20 22:41	100
Benzo[a]pyrene	<8.1		16	8.1	ug/L		02/03/20 17:42	02/10/20 22:41	100
Benzo[b]fluoranthene	<6.6		16	6.6	ug/L		02/03/20 17:42	02/10/20 22:41	100
Benzo[g,h,i]perylene	<31		82	31	ug/L		02/03/20 17:42	02/10/20 22:41	100
Benzo[k]fluoranthene	<5.3		16	5.3	ug/L		02/03/20 17:42	02/10/20 22:41	100
Chrysene	<5.6		16	5.6	ug/L		02/03/20 17:42	02/10/20 22:41	100
Dibenz(a,h)anthracene	<4.2		25	4.2	ug/L		02/03/20 17:42	02/10/20 22:41	100
Fluoranthene	<37		82	37	ug/L		02/03/20 17:42	02/10/20 22:41	100
Fluorene	**140**		82	20	ug/L		02/03/20 17:42	02/10/20 22:41	100
Indeno[1,2,3-cd]pyrene	<6.1		16	6.1	ug/L		02/03/20 17:42	02/10/20 22:41	100
Phenanthrene	**110**		82	25	ug/L		02/03/20 17:42	02/10/20 22:41	100
Pyrene	<35		82	35	ug/L		02/03/20 17:42	02/10/20 22:41	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*34 - 110*	*02/03/20 17:42*	*02/10/20 22:41*	*100*
Nitrobenzene-d5 (Surr)	*0*	*D*	*36 - 120*	*02/03/20 17:42*	*02/10/20 22:41*	*100*
Terphenyl-d14 (Surr)	*0*	*D*	*40 - 145*	*02/03/20 17:42*	*02/10/20 22:41*	*100*

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-117
Date Collected: 01/29/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	12000		820	250	ug/L		02/03/20 17:42	02/14/20 17:59	1000

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: P-120
Date Collected: 01/29/20 12:55
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-3
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	<0.46		1.0	0.46	ug/L			02/07/20 11:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 11:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 11:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 11:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 11:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 11:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 11:20	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 11:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 11:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 11:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 11:20	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 11:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 11:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 11:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 11:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 11:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 11:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 11:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 11:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 11:20	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 11:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 11:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 11:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 11:20	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 11:20	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 11:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 11:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 11:20	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 11:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 11:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 11:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 11:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 11:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 11:20	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 11:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 11:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 11:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 11:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 11:20	1
Naphthalene	**1.8**		1.0	0.34	ug/L			02/07/20 11:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 11:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 11:20	1

Client Sample ID: P-120
Date Collected: 01/29/20 12:55
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 11:20	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 11:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 11:20	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 11:20	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 11:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 11:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 11:20	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 11:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 11:20	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 11:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*02/07/20 11:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/07/20 11:20*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*02/07/20 11:20*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/07/20 11:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**0.41**	**J**	1.5	0.23	ug/L		02/03/20 17:42	02/05/20 04:20	1
2-Methylnaphthalene	**0.79**	**J**	1.5	0.050	ug/L		02/03/20 17:42	02/05/20 04:20	1
Acenaphthene	**0.39**	**J**	0.77	0.24	ug/L		02/03/20 17:42	02/05/20 04:20	1
Acenaphthylene	<0.21		0.77	0.21	ug/L		02/03/20 17:42	02/05/20 04:20	1
Anthracene	**0.30**	**J**	0.77	0.26	ug/L		02/03/20 17:42	02/05/20 04:20	1
Benzo[a]anthracene	**0.32**		0.15	0.044	ug/L		02/03/20 17:42	02/05/20 04:20	1
Benzo[a]pyrene	**0.27**		0.15	0.076	ug/L		02/03/20 17:42	02/05/20 04:20	1
Benzo[b]fluoranthene	**0.27**		0.15	0.062	ug/L		02/03/20 17:42	02/05/20 04:20	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		02/03/20 17:42	02/05/20 04:20	1
Benzo[k]fluoranthene	**0.14**	**J**	0.15	0.049	ug/L		02/03/20 17:42	02/05/20 04:20	1
Chrysene	**0.20**		0.15	0.052	ug/L		02/03/20 17:42	02/05/20 04:20	1
Dibenz(a,h)anthracene	**0.041**	**J**	0.23	0.039	ug/L		02/03/20 17:42	02/05/20 04:20	1
Fluoranthene	**0.67**	**J**	0.77	0.35	ug/L		02/03/20 17:42	02/05/20 04:20	1
Fluorene	**0.54**	**J**	0.77	0.19	ug/L		02/03/20 17:42	02/05/20 04:20	1
Indeno[1,2,3-cd]pyrene	**0.15**		0.15	0.058	ug/L		02/03/20 17:42	02/05/20 04:20	1
Naphthalene	**3.0**		0.77	0.24	ug/L		02/03/20 17:42	02/05/20 04:20	1
Phenanthrene	**1.5**		0.77	0.23	ug/L		02/03/20 17:42	02/05/20 04:20	1
Pyrene	**0.52**	**J**	0.77	0.33	ug/L		02/03/20 17:42	02/05/20 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 110*	*02/03/20 17:42*	*02/05/20 04:20*	*1*
Nitrobenzene-d5 (Surr)	*95*		*36 - 120*	*02/03/20 17:42*	*02/05/20 04:20*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 145*	*02/03/20 17:42*	*02/05/20 04:20*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-115
Date Collected: 01/29/20 13:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-4
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	<0.46		1.0	0.46	ug/L			02/06/20 11:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 11:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 11:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 11:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 11:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 11:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 11:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 11:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 11:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 11:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 11:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 11:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 11:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 11:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 11:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 11:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 11:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 11:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 11:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 11:25	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 11:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 11:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 11:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 11:25	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 11:25	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 11:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 11:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 11:25	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 11:25	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 11:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 11:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 11:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 11:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 11:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 11:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 11:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 11:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 11:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 11:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 11:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 11:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 11:25	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-115

Date Collected: 01/29/20 13:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 11:25	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 11:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 11:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 11:25	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 11:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 11:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 11:25	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 11:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 11:25	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 11:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*02/06/20 11:25*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*02/06/20 11:25*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*02/06/20 11:25*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/06/20 11:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.27		1.8	0.27	ug/L		02/03/20 17:42	02/10/20 23:08	1
2-Methylnaphthalene	**0.35**	**J**	1.8	0.058	ug/L		02/03/20 17:42	02/10/20 23:08	1
Acenaphthene	<0.27		0.89	0.27	ug/L		02/03/20 17:42	02/10/20 23:08	1
Acenaphthylene	<0.24		0.89	0.24	ug/L		02/03/20 17:42	02/10/20 23:08	1
Anthracene	<0.30		0.89	0.30	ug/L		02/03/20 17:42	02/10/20 23:08	1
Benzo[a]anthracene	**0.060**	**J**	0.18	0.050	ug/L		02/03/20 17:42	02/10/20 23:08	1
Benzo[a]pyrene	<0.088		0.18	0.088	ug/L		02/03/20 17:42	02/10/20 23:08	1
Benzo[b]fluoranthene	<0.071		0.18	0.071	ug/L		02/03/20 17:42	02/10/20 23:08	1
Benzo[g,h,i]perylene	<0.33		0.89	0.33	ug/L		02/03/20 17:42	02/10/20 23:08	1
Benzo[k]fluoranthene	<0.057		0.18	0.057	ug/L		02/03/20 17:42	02/10/20 23:08	1
Chrysene	<0.060		0.18	0.060	ug/L		02/03/20 17:42	02/10/20 23:08	1
Dibenz(a,h)anthracene	<0.045		0.27	0.045	ug/L		02/03/20 17:42	02/10/20 23:08	1
Fluoranthene	<0.40		0.89	0.40	ug/L		02/03/20 17:42	02/10/20 23:08	1
Fluorene	<0.22		0.89	0.22	ug/L		02/03/20 17:42	02/10/20 23:08	1
Indeno[1,2,3-cd]pyrene	<0.066		0.18	0.066	ug/L		02/03/20 17:42	02/10/20 23:08	1
Naphthalene	**5.0**		0.89	0.27	ug/L		02/03/20 17:42	02/10/20 23:08	1
Phenanthrene	<0.27		0.89	0.27	ug/L		02/03/20 17:42	02/10/20 23:08	1
Pyrene	<0.38		0.89	0.38	ug/L		02/03/20 17:42	02/10/20 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*34 - 110*	*02/03/20 17:42*	*02/10/20 23:08*	*1*
Nitrobenzene-d5 (Surr)	*101*		*36 - 120*	*02/03/20 17:42*	*02/10/20 23:08*	*1*
Terphenyl-d14 (Surr)	*117*		*40 - 145*	*02/03/20 17:42*	*02/10/20 23:08*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-125

Date Collected: 01/29/20 14:15
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-5

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	<4.6		10	4.6	ug/L			02/06/20 15:42	10
1,1,1-Trichloroethane	<3.8		10	3.8	ug/L			02/06/20 15:42	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			02/06/20 15:42	10
1,1,2-Trichloroethane	<3.5		10	3.5	ug/L			02/06/20 15:42	10
1,1-Dichloroethane	<4.1		10	4.1	ug/L			02/06/20 15:42	10
1,1-Dichloroethene	<3.9		10	3.9	ug/L			02/06/20 15:42	10
1,1-Dichloropropene	<3.0		10	3.0	ug/L			02/06/20 15:42	10
1,2,3-Trichlorobenzene	<4.6		10	4.6	ug/L			02/06/20 15:42	10
1,2,3-Trichloropropane	<4.1		20	4.1	ug/L			02/06/20 15:42	10
1,2,4-Trichlorobenzene	<3.4		10	3.4	ug/L			02/06/20 15:42	10
1,2,4-Trimethylbenzene	**99**		10	3.6	ug/L			02/06/20 15:42	10
1,2-Dibromo-3-Chloropropane	<20		50	20	ug/L			02/06/20 15:42	10
1,2-Dibromoethane	<3.9		10	3.9	ug/L			02/06/20 15:42	10
1,2-Dichlorobenzene	<3.3		10	3.3	ug/L			02/06/20 15:42	10
1,2-Dichloroethane	<3.9		10	3.9	ug/L			02/06/20 15:42	10
1,2-Dichloropropane	<4.3		10	4.3	ug/L			02/06/20 15:42	10
1,3,5-Trimethylbenzene	**40**		10	2.5	ug/L			02/06/20 15:42	10
1,3-Dichlorobenzene	<4.0		10	4.0	ug/L			02/06/20 15:42	10
1,3-Dichloropropane	<3.6		10	3.6	ug/L			02/06/20 15:42	10
1,4-Dichlorobenzene	<3.6		10	3.6	ug/L			02/06/20 15:42	10
2,2-Dichloropropane	<4.4		10	4.4	ug/L			02/06/20 15:42	10
2-Chlorotoluene	<3.1		10	3.1	ug/L			02/06/20 15:42	10
4-Chlorotoluene	<3.5		10	3.5	ug/L			02/06/20 15:42	10
Benzene	**270**		5.0	1.5	ug/L			02/06/20 15:42	10
Bromobenzene	<3.6		10	3.6	ug/L			02/06/20 15:42	10
Bromochloromethane	<4.3		10	4.3	ug/L			02/06/20 15:42	10
Bromodichloromethane	<3.7		10	3.7	ug/L			02/06/20 15:42	10
Bromoform	<4.8		10	4.8	ug/L			02/06/20 15:42	10
Bromomethane	<8.0		30	8.0	ug/L			02/06/20 15:42	10
Carbon tetrachloride	<3.8		10	3.8	ug/L			02/06/20 15:42	10
Chlorobenzene	<3.9		10	3.9	ug/L			02/06/20 15:42	10
Chloroethane	<5.1		10	5.1	ug/L			02/06/20 15:42	10
Chloroform	<3.7		20	3.7	ug/L			02/06/20 15:42	10
Chloromethane	<3.2		10	3.2	ug/L			02/06/20 15:42	10
cis-1,2-Dichloroethene	<4.1		10	4.1	ug/L			02/06/20 15:42	10
cis-1,3-Dichloropropene	<4.2		10	4.2	ug/L			02/06/20 15:42	10
Dibromochloromethane	<4.9		10	4.9	ug/L			02/06/20 15:42	10
Dibromomethane	<2.7		10	2.7	ug/L			02/06/20 15:42	10
Dichlorodifluoromethane	<6.7		30	6.7	ug/L			02/06/20 15:42	10
Ethylbenzene	**91**		5.0	1.8	ug/L			02/06/20 15:42	10
Hexachlorobutadiene	<4.5		10	4.5	ug/L			02/06/20 15:42	10
Isopropyl ether	<2.8		10	2.8	ug/L			02/06/20 15:42	10
Isopropylbenzene	**5.1**	**J**	10	3.9	ug/L			02/06/20 15:42	10
Methyl tert-butyl ether	<3.9		10	3.9	ug/L			02/06/20 15:42	10
Methylene Chloride	<16		50	16	ug/L			02/06/20 15:42	10
n-Butylbenzene	<3.9		10	3.9	ug/L			02/06/20 15:42	10
N-Propylbenzene	<4.1		10	4.1	ug/L			02/06/20 15:42	10
p-Isopropyltoluene	<3.6		10	3.6	ug/L			02/06/20 15:42	10
sec-Butylbenzene	<4.0		10	4.0	ug/L			02/06/20 15:42	10

Client Sample ID: MW-125

Date Collected: 01/29/20 14:15
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<3.9		10	3.9	ug/L			02/06/20 15:42	10
tert-Butylbenzene	<4.0		10	4.0	ug/L			02/06/20 15:42	10
Tetrachloroethene	<3.7		10	3.7	ug/L			02/06/20 15:42	10
Toluene	**160**		5.0	1.5	ug/L			02/06/20 15:42	10
trans-1,2-Dichloroethene	<3.5		10	3.5	ug/L			02/06/20 15:42	10
trans-1,3-Dichloropropene	<3.6		10	3.6	ug/L			02/06/20 15:42	10
Trichloroethene	<1.6		5.0	1.6	ug/L			02/06/20 15:42	10
Trichlorofluoromethane	<4.3		10	4.3	ug/L			02/06/20 15:42	10
Vinyl chloride	<2.0		10	2.0	ug/L			02/06/20 15:42	10
Xylenes, Total	**430**		10	2.2	ug/L			02/06/20 15:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/06/20 15:42*	*10*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*02/06/20 15:42*	*10*
Dibromofluoromethane	*91*		*75 - 120*		*02/06/20 15:42*	*10*
Toluene-d8 (Surr)	*101*		*75 - 120*		*02/06/20 15:42*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**11000**		100	34	ug/L			02/06/20 16:07	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*02/06/20 16:07*	*100*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*02/06/20 16:07*	*100*
Dibromofluoromethane	*93*		*75 - 120*		*02/06/20 16:07*	*100*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/06/20 16:07*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**64**		8.3	1.3	ug/L		02/03/20 17:42	02/11/20 01:23	5
2-Methylnaphthalene	**84**		8.3	0.27	ug/L		02/03/20 17:42	02/11/20 01:23	5
Acenaphthene	**60**		4.2	1.3	ug/L		02/03/20 17:42	02/11/20 01:23	5
Acenaphthylene	**4.5**		4.2	1.1	ug/L		02/03/20 17:42	02/11/20 01:23	5
Anthracene	**4.5**		4.2	1.4	ug/L		02/03/20 17:42	02/11/20 01:23	5
Benzo[a]anthracene	**0.96**		0.83	0.24	ug/L		02/03/20 17:42	02/11/20 01:23	5
Benzo[a]pyrene	**0.93**		0.83	0.41	ug/L		02/03/20 17:42	02/11/20 01:23	5
Benzo[b]fluoranthene	**0.67**	**J**	0.83	0.34	ug/L		02/03/20 17:42	02/11/20 01:23	5
Benzo[g,h,i]perylene	<1.6		4.2	1.6	ug/L		02/03/20 17:42	02/11/20 01:23	5
Benzo[k]fluoranthene	**0.28**	**J**	0.83	0.27	ug/L		02/03/20 17:42	02/11/20 01:23	5
Chrysene	**0.88**		0.83	0.28	ug/L		02/03/20 17:42	02/11/20 01:23	5
Dibenz(a,h)anthracene	<0.21		1.2	0.21	ug/L		02/03/20 17:42	02/11/20 01:23	5
Fluoranthene	**7.6**		4.2	1.9	ug/L		02/03/20 17:42	02/11/20 01:23	5
Fluorene	**32**		4.2	1.0	ug/L		02/03/20 17:42	02/11/20 01:23	5
Indeno[1,2,3-cd]pyrene	**0.34**	**J**	0.83	0.31	ug/L		02/03/20 17:42	02/11/20 01:23	5
Phenanthrene	**32**		4.2	1.3	ug/L		02/03/20 17:42	02/11/20 01:23	5
Pyrene	**6.2**		4.2	1.8	ug/L		02/03/20 17:42	02/11/20 01:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*38*		*34 - 110*	*02/03/20 17:42*	*02/11/20 01:23*	*5*
Nitrobenzene-d5 (Surr)	*52*		*36 - 120*	*02/03/20 17:42*	*02/11/20 01:23*	*5*
Terphenyl-d14 (Surr)	*65*		*40 - 145*	*02/03/20 17:42*	*02/11/20 01:23*	*5*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-125
Date Collected: 01/29/20 14:15
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2500		42	13	ug/L		02/03/20 17:42	02/11/20 01:50	50

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-116
Date Collected: 01/29/20 13:10
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-6
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	<0.46		1.0	0.46	ug/L			02/07/20 11:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 11:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 11:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 11:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 11:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 11:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 11:46	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 11:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 11:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 11:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 11:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 11:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 11:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 11:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 11:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 11:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 11:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 11:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 11:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 11:46	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 11:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 11:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 11:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 11:46	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 11:46	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 11:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 11:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 11:46	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 11:46	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 11:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 11:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 11:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 11:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 11:46	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 11:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 11:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 11:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 11:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 11:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 11:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 11:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 11:46	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-116
Date Collected: 01/29/20 13:10
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 11:46	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 11:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 11:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 11:46	1
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 11:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 11:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 11:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 11:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 11:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 11:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/07/20 11:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*02/07/20 11:46*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*02/07/20 11:46*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*02/07/20 11:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**0.73**	**J**	1.7	0.25	ug/L		02/03/20 17:42	02/10/20 16:42	1
2-Methylnaphthalene	**0.20**	**J**	1.7	0.055	ug/L		02/03/20 17:42	02/10/20 16:42	1
Acenaphthene	**0.85**		0.84	0.26	ug/L		02/03/20 17:42	02/10/20 16:42	1
Acenaphthylene	<0.23		0.84	0.23	ug/L		02/03/20 17:42	02/10/20 16:42	1
Anthracene	**0.92**		0.84	0.28	ug/L		02/03/20 17:42	02/10/20 16:42	1
Benzo[a]anthracene	<0.048		0.17	0.048	ug/L		02/03/20 17:42	02/10/20 16:42	1
Benzo[a]pyrene	<0.083		0.17	0.083	ug/L		02/03/20 17:42	02/10/20 16:42	1
Benzo[b]fluoranthene	<0.068		0.17	0.068	ug/L		02/03/20 17:42	02/10/20 16:42	1
Benzo[g,h,i]perylene	<0.32		0.84	0.32	ug/L		02/03/20 17:42	02/10/20 16:42	1
Benzo[k]fluoranthene	<0.054		0.17	0.054	ug/L		02/03/20 17:42	02/10/20 16:42	1
Chrysene	<0.057		0.17	0.057	ug/L		02/03/20 17:42	02/10/20 16:42	1
Dibenz(a,h)anthracene	<0.043		0.25	0.043	ug/L		02/03/20 17:42	02/10/20 16:42	1
Fluoranthene	<0.38		0.84	0.38	ug/L		02/03/20 17:42	02/10/20 16:42	1
Fluorene	**0.34**	**J**	0.84	0.21	ug/L		02/03/20 17:42	02/10/20 16:42	1
Indeno[1,2,3-cd]pyrene	<0.063		0.17	0.063	ug/L		02/03/20 17:42	02/10/20 16:42	1
Naphthalene	**0.73**	**J**	0.84	0.26	ug/L		02/03/20 17:42	02/10/20 16:42	1
Phenanthrene	**0.29**	**J**	0.84	0.25	ug/L		02/03/20 17:42	02/10/20 16:42	1
Pyrene	<0.36		0.84	0.36	ug/L		02/03/20 17:42	02/10/20 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*34 - 110*	*02/03/20 17:42*	*02/10/20 16:42*	*1*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*02/03/20 17:42*	*02/10/20 16:42*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 145*	*02/03/20 17:42*	*02/10/20 16:42*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: P-113
Date Collected: 01/30/20 10:55
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-7
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	<0.46		1.0	0.46	ug/L			02/06/20 11:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 11:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 11:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 11:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 11:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 11:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 11:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 11:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 11:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 11:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 11:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 11:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 11:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 11:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 11:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 11:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 11:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 11:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 11:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 11:50	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 11:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 11:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 11:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 11:50	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 11:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 11:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 11:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 11:50	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 11:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 11:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 11:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 11:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 11:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 11:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 11:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 11:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 11:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 11:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 11:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 11:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 11:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 11:50	1

Client Sample ID: P-113
Date Collected: 01/30/20 10:55
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 11:50	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 11:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 11:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 11:50	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 11:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 11:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 11:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 11:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 11:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 11:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*02/06/20 11:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/06/20 11:50*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*02/06/20 11:50*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*02/06/20 11:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.26		1.7	0.26	ug/L		02/03/20 17:42	02/10/20 17:11	1
2-Methylnaphthalene	<0.056		1.7	0.056	ug/L		02/03/20 17:42	02/10/20 17:11	1
Acenaphthene	<0.26		0.85	0.26	ug/L		02/03/20 17:42	02/10/20 17:11	1
Acenaphthylene	<0.23		0.85	0.23	ug/L		02/03/20 17:42	02/10/20 17:11	1
Anthracene	<0.28		0.85	0.28	ug/L		02/03/20 17:42	02/10/20 17:11	1
Benzo[a]anthracene	<0.048		0.17	0.048	ug/L		02/03/20 17:42	02/10/20 17:11	1
Benzo[a]pyrene	<0.084		0.17	0.084	ug/L		02/03/20 17:42	02/10/20 17:11	1
Benzo[b]fluoranthene	<0.069		0.17	0.069	ug/L		02/03/20 17:42	02/10/20 17:11	1
Benzo[g,h,i]perylene	<0.32		0.85	0.32	ug/L		02/03/20 17:42	02/10/20 17:11	1
Benzo[k]fluoranthene	<0.055		0.17	0.055	ug/L		02/03/20 17:42	02/10/20 17:11	1
Chrysene	<0.058		0.17	0.058	ug/L		02/03/20 17:42	02/10/20 17:11	1
Dibenz(a,h)anthracene	<0.043		0.26	0.043	ug/L		02/03/20 17:42	02/10/20 17:11	1
Fluoranthene	<0.39		0.85	0.39	ug/L		02/03/20 17:42	02/10/20 17:11	1
Fluorene	<0.21		0.85	0.21	ug/L		02/03/20 17:42	02/10/20 17:11	1
Indeno[1,2,3-cd]pyrene	<0.064		0.17	0.064	ug/L		02/03/20 17:42	02/10/20 17:11	1
Naphthalene	<0.26		0.85	0.26	ug/L		02/03/20 17:42	02/10/20 17:11	1
Phenanthrene	<0.26		0.85	0.26	ug/L		02/03/20 17:42	02/10/20 17:11	1
Pyrene	<0.36		0.85	0.36	ug/L		02/03/20 17:42	02/10/20 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 110*	*02/03/20 17:42*	*02/10/20 17:11*	*1*
Nitrobenzene-d5 (Surr)	*90*		*36 - 120*	*02/03/20 17:42*	*02/10/20 17:11*	*1*
Terphenyl-d14 (Surr)	*118*		*40 - 145*	*02/03/20 17:42*	*02/10/20 17:11*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: P-113 DUP
Date Collected: 01/30/20 11:00
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-8
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	<0.46		1.0	0.46	ug/L			02/06/20 12:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 12:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 12:16	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 12:16	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 12:16	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 12:16	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 12:16	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 12:16	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 12:16	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 12:16	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 12:16	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 12:16	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 12:16	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 12:16	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 12:16	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 12:16	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 12:16	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 12:16	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 12:16	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 12:16	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 12:16	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 12:16	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 12:16	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 12:16	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 12:16	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 12:16	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 12:16	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 12:16	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 12:16	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 12:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 12:16	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 12:16	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 12:16	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 12:16	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 12:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 12:16	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 12:16	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 12:16	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 12:16	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 12:16	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 12:16	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 12:16	1

Client Sample ID: P-113 DUP
Date Collected: 01/30/20 11:00
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 12:16	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 12:16	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 12:16	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 12:16	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 12:16	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 12:16	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 12:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 12:16	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 12:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 12:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*02/06/20 12:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*02/06/20 12:16*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*02/06/20 12:16*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*02/06/20 12:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.6	0.25	ug/L		02/03/20 17:42	02/10/20 17:40	1
2-Methylnaphthalene	<0.053		1.6	0.053	ug/L		02/03/20 17:42	02/10/20 17:40	1
Acenaphthene	**0.82**		0.82	0.25	ug/L		02/03/20 17:42	02/10/20 17:40	1
Acenaphthylene	<0.22		0.82	0.22	ug/L		02/03/20 17:42	02/10/20 17:40	1
Anthracene	**0.95**		0.82	0.27	ug/L		02/03/20 17:42	02/10/20 17:40	1
Benzo[a]anthracene	**0.42**		0.16	0.046	ug/L		02/03/20 17:42	02/10/20 17:40	1
Benzo[a]pyrene	**0.52**		0.16	0.081	ug/L		02/03/20 17:42	02/10/20 17:40	1
Benzo[b]fluoranthene	**0.65**		0.16	0.066	ug/L		02/03/20 17:42	02/10/20 17:40	1
Benzo[g,h,i]perylene	**0.55**	**J**	0.82	0.31	ug/L		02/03/20 17:42	02/10/20 17:40	1
Benzo[k]fluoranthene	**0.27**		0.16	0.053	ug/L		02/03/20 17:42	02/10/20 17:40	1
Chrysene	**0.53**		0.16	0.056	ug/L		02/03/20 17:42	02/10/20 17:40	1
Dibenz(a,h)anthracene	**0.17**	**J**	0.25	0.042	ug/L		02/03/20 17:42	02/10/20 17:40	1
Fluoranthene	**1.5**		0.82	0.37	ug/L		02/03/20 17:42	02/10/20 17:40	1
Fluorene	**0.31**	**J**	0.82	0.20	ug/L		02/03/20 17:42	02/10/20 17:40	1
Indeno[1,2,3-cd]pyrene	**0.37**		0.16	0.061	ug/L		02/03/20 17:42	02/10/20 17:40	1
Naphthalene	**0.67**	**J**	0.82	0.25	ug/L		02/03/20 17:42	02/10/20 17:40	1
Phenanthrene	**1.4**		0.82	0.25	ug/L		02/03/20 17:42	02/10/20 17:40	1
Pyrene	**1.2**		0.82	0.35	ug/L		02/03/20 17:42	02/10/20 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 110*	*02/03/20 17:42*	*02/10/20 17:40*	*1*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*	*02/03/20 17:42*	*02/10/20 17:40*	*1*
Terphenyl-d14 (Surr)	*103*		*40 - 145*	*02/03/20 17:42*	*02/10/20 17:40*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-112
Date Collected: 01/30/20 11:15
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-9
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	<0.46		1.0	0.46	ug/L			02/06/20 12:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 12:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 12:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 12:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 12:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 12:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 12:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 12:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 12:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 12:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 12:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 12:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 12:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 12:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 12:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 12:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 12:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 12:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 12:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 12:42	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 12:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 12:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 12:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 12:42	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 12:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 12:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 12:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 12:42	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 12:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 12:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 12:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 12:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 12:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 12:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 12:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 12:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 12:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 12:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 12:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 12:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 12:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 12:42	1

Client Sample ID: MW-112
Date Collected: 01/30/20 11:15
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 12:42	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 12:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 12:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 12:42	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 12:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 12:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 12:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 12:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 12:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 12:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/06/20 12:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/06/20 12:42*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*02/06/20 12:42*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/06/20 12:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.27		1.8	0.27	ug/L		02/03/20 17:42	02/10/20 18:08	1
2-Methylnaphthalene	<0.058		1.8	0.058	ug/L		02/03/20 17:42	02/10/20 18:08	1
Acenaphthene	<0.28		0.89	0.28	ug/L		02/03/20 17:42	02/10/20 18:08	1
Acenaphthylene	<0.24		0.89	0.24	ug/L		02/03/20 17:42	02/10/20 18:08	1
Anthracene	**0.96**		0.89	0.30	ug/L		02/03/20 17:42	02/10/20 18:08	1
Benzo[a]anthracene	**0.10**	**J**	0.18	0.051	ug/L		02/03/20 17:42	02/10/20 18:08	1
Benzo[a]pyrene	**0.22**		0.18	0.088	ug/L		02/03/20 17:42	02/10/20 18:08	1
Benzo[b]fluoranthene	**0.15**	**J**	0.18	0.072	ug/L		02/03/20 17:42	02/10/20 18:08	1
Benzo[g,h,i]perylene	<0.33		0.89	0.33	ug/L		02/03/20 17:42	02/10/20 18:08	1
Benzo[k]fluoranthene	**0.085**	**J**	0.18	0.057	ug/L		02/03/20 17:42	02/10/20 18:08	1
Chrysene	**0.13**	**J**	0.18	0.061	ug/L		02/03/20 17:42	02/10/20 18:08	1
Dibenz(a,h)anthracene	<0.045		0.27	0.045	ug/L		02/03/20 17:42	02/10/20 18:08	1
Fluoranthene	**0.52**	**J**	0.89	0.40	ug/L		02/03/20 17:42	02/10/20 18:08	1
Fluorene	<0.22		0.89	0.22	ug/L		02/03/20 17:42	02/10/20 18:08	1
Indeno[1,2,3-cd]pyrene	<0.067		0.18	0.067	ug/L		02/03/20 17:42	02/10/20 18:08	1
Naphthalene	**0.79**	**J**	0.89	0.28	ug/L		02/03/20 17:42	02/10/20 18:08	1
Phenanthrene	**0.45**	**J**	0.89	0.27	ug/L		02/03/20 17:42	02/10/20 18:08	1
Pyrene	**0.77**	**J**	0.89	0.38	ug/L		02/03/20 17:42	02/10/20 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*34 - 110*	*02/03/20 17:42*	*02/10/20 18:08*	*1*
Nitrobenzene-d5 (Surr)	*51*		*36 - 120*	*02/03/20 17:42*	*02/10/20 18:08*	*1*
Terphenyl-d14 (Surr)	*105*		*40 - 145*	*02/03/20 17:42*	*02/10/20 18:08*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-118
Date Collected: 01/30/20 11:35
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-10
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	<0.46		1.0	0.46	ug/L			02/06/20 13:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 13:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 13:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 13:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 13:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 13:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 13:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 13:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 13:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 13:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 13:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 13:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 13:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 13:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 13:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 13:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 13:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 13:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 13:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 13:07	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 13:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 13:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 13:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 13:07	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 13:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 13:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 13:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 13:07	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 13:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 13:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 13:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 13:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 13:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 13:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 13:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 13:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 13:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 13:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 13:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 13:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 13:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 13:07	1

Client Sample ID: MW-118
Date Collected: 01/30/20 11:35
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 13:07	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 13:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 13:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 13:07	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 13:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 13:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 13:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 13:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 13:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 13:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*02/06/20 13:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*02/06/20 13:07*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*02/06/20 13:07*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/06/20 13:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		02/03/20 17:42	02/10/20 18:37	1
2-Methylnaphthalene	<0.055		1.7	0.055	ug/L		02/03/20 17:42	02/10/20 18:37	1
Acenaphthene	<0.26		0.84	0.26	ug/L		02/03/20 17:42	02/10/20 18:37	1
Acenaphthylene	<0.22		0.84	0.22	ug/L		02/03/20 17:42	02/10/20 18:37	1
Anthracene	**0.95**		0.84	0.28	ug/L		02/03/20 17:42	02/10/20 18:37	1
Benzo[a]anthracene	**0.14**	**J**	0.17	0.047	ug/L		02/03/20 17:42	02/10/20 18:37	1
Benzo[a]pyrene	**0.34**		0.17	0.083	ug/L		02/03/20 17:42	02/10/20 18:37	1
Benzo[b]fluoranthene	**0.31**		0.17	0.068	ug/L		02/03/20 17:42	02/10/20 18:37	1
Benzo[g,h,i]perylene	**0.43**	**J**	0.84	0.31	ug/L		02/03/20 17:42	02/10/20 18:37	1
Benzo[k]fluoranthene	**0.13**	**J**	0.17	0.054	ug/L		02/03/20 17:42	02/10/20 18:37	1
Chrysene	**0.24**		0.17	0.057	ug/L		02/03/20 17:42	02/10/20 18:37	1
Dibenz(a,h)anthracene	<0.043		0.25	0.043	ug/L		02/03/20 17:42	02/10/20 18:37	1
Fluoranthene	**0.86**		0.84	0.38	ug/L		02/03/20 17:42	02/10/20 18:37	1
Fluorene	<0.20		0.84	0.20	ug/L		02/03/20 17:42	02/10/20 18:37	1
Indeno[1,2,3-cd]pyrene	**0.25**		0.17	0.063	ug/L		02/03/20 17:42	02/10/20 18:37	1
Naphthalene	<0.26		0.84	0.26	ug/L		02/03/20 17:42	02/10/20 18:37	1
Phenanthrene	**0.68**	**J**	0.84	0.25	ug/L		02/03/20 17:42	02/10/20 18:37	1
Pyrene	**0.89**		0.84	0.36	ug/L		02/03/20 17:42	02/10/20 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 110*	*02/03/20 17:42*	*02/10/20 18:37*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*02/03/20 17:42*	*02/10/20 18:37*	*1*
Terphenyl-d14 (Surr)	*121*		*40 - 145*	*02/03/20 17:42*	*02/10/20 18:37*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-1
Date Collected: 01/30/20 12:10
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-11
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	<0.46		1.0	0.46	ug/L			02/06/20 13:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 13:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 13:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 13:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 13:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 13:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 13:33	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 13:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 13:33	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 13:33	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 13:33	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 13:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 13:33	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 13:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 13:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 13:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 13:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 13:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 13:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 13:33	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 13:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 13:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 13:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 13:33	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 13:33	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 13:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 13:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 13:33	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 13:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 13:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 13:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 13:33	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 13:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 13:33	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 13:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 13:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 13:33	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 13:33	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 13:33	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 13:33	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 13:33	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 13:33	1

Client Sample ID: MW-1
Date Collected: 01/30/20 12:10
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 13:33	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 13:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 13:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 13:33	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 13:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 13:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 13:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 13:33	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 13:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 13:33	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/06/20 13:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/06/20 13:33*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*02/06/20 13:33*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/06/20 13:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.6	0.23	ug/L		02/03/20 17:42	02/10/20 19:05	1
2-Methylnaphthalene	<0.051		1.6	0.051	ug/L		02/03/20 17:42	02/10/20 19:05	1
Acenaphthene	<0.24		0.78	0.24	ug/L		02/03/20 17:42	02/10/20 19:05	1
Acenaphthylene	<0.21		0.78	0.21	ug/L		02/03/20 17:42	02/10/20 19:05	1
Anthracene	**0.85**		0.78	0.26	ug/L		02/03/20 17:42	02/10/20 19:05	1
Benzo[a]anthracene	**0.12**	**J**	0.16	0.044	ug/L		02/03/20 17:42	02/10/20 19:05	1
Benzo[a]pyrene	**0.23**		0.16	0.077	ug/L		02/03/20 17:42	02/10/20 19:05	1
Benzo[b]fluoranthene	**0.20**		0.16	0.063	ug/L		02/03/20 17:42	02/10/20 19:05	1
Benzo[g,h,i]perylene	**0.34**	**J**	0.78	0.29	ug/L		02/03/20 17:42	02/10/20 19:05	1
Benzo[k]fluoranthene	**0.14**	**J**	0.16	0.050	ug/L		02/03/20 17:42	02/10/20 19:05	1
Chrysene	**0.15**	**J**	0.16	0.053	ug/L		02/03/20 17:42	02/10/20 19:05	1
Dibenz(a,h)anthracene	<0.040		0.23	0.040	ug/L		02/03/20 17:42	02/10/20 19:05	1
Fluoranthene	**0.47**	**J**	0.78	0.35	ug/L		02/03/20 17:42	02/10/20 19:05	1
Fluorene	<0.19		0.78	0.19	ug/L		02/03/20 17:42	02/10/20 19:05	1
Indeno[1,2,3-cd]pyrene	**0.18**		0.16	0.058	ug/L		02/03/20 17:42	02/10/20 19:05	1
Naphthalene	<0.24		0.78	0.24	ug/L		02/03/20 17:42	02/10/20 19:05	1
Phenanthrene	**0.37**	**J**	0.78	0.23	ug/L		02/03/20 17:42	02/10/20 19:05	1
Pyrene	**0.66**	**J**	0.78	0.33	ug/L		02/03/20 17:42	02/10/20 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*34 - 110*	*02/03/20 17:42*	*02/10/20 19:05*	*1*
Nitrobenzene-d5 (Surr)	*83*		*36 - 120*	*02/03/20 17:42*	*02/10/20 19:05*	*1*
Terphenyl-d14 (Surr)	*99*		*40 - 145*	*02/03/20 17:42*	*02/10/20 19:05*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-123
Date Collected: 01/30/20 12:25
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-12
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	<4.6		10	4.6	ug/L			02/06/20 17:25	10
1,1,1-Trichloroethane	<3.8		10	3.8	ug/L			02/06/20 17:25	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			02/06/20 17:25	10
1,1,2-Trichloroethane	<3.5		10	3.5	ug/L			02/06/20 17:25	10
1,1-Dichloroethane	<4.1		10	4.1	ug/L			02/06/20 17:25	10
1,1-Dichloroethene	<3.9		10	3.9	ug/L			02/06/20 17:25	10
1,1-Dichloropropene	<3.0		10	3.0	ug/L			02/06/20 17:25	10
1,2,3-Trichlorobenzene	<4.6		10	4.6	ug/L			02/06/20 17:25	10
1,2,3-Trichloropropane	<4.1		20	4.1	ug/L			02/06/20 17:25	10
1,2,4-Trichlorobenzene	<3.4		10	3.4	ug/L			02/06/20 17:25	10
1,2,4-Trimethylbenzene	**110**		10	3.6	ug/L			02/06/20 17:25	10
1,2-Dibromo-3-Chloropropane	<20		50	20	ug/L			02/06/20 17:25	10
1,2-Dibromoethane	<3.9		10	3.9	ug/L			02/06/20 17:25	10
1,2-Dichlorobenzene	<3.3		10	3.3	ug/L			02/06/20 17:25	10
1,2-Dichloroethane	<3.9		10	3.9	ug/L			02/06/20 17:25	10
1,2-Dichloropropane	<4.3		10	4.3	ug/L			02/06/20 17:25	10
1,3,5-Trimethylbenzene	**34**		10	2.5	ug/L			02/06/20 17:25	10
1,3-Dichlorobenzene	<4.0		10	4.0	ug/L			02/06/20 17:25	10
1,3-Dichloropropane	<3.6		10	3.6	ug/L			02/06/20 17:25	10
1,4-Dichlorobenzene	<3.6		10	3.6	ug/L			02/06/20 17:25	10
2,2-Dichloropropane	<4.4		10	4.4	ug/L			02/06/20 17:25	10
2-Chlorotoluene	<3.1		10	3.1	ug/L			02/06/20 17:25	10
4-Chlorotoluene	<3.5		10	3.5	ug/L			02/06/20 17:25	10
Benzene	**310**		5.0	1.5	ug/L			02/06/20 17:25	10
Bromobenzene	<3.6		10	3.6	ug/L			02/06/20 17:25	10
Bromochloromethane	<4.3		10	4.3	ug/L			02/06/20 17:25	10
Bromodichloromethane	<3.7		10	3.7	ug/L			02/06/20 17:25	10
Bromoform	<4.8		10	4.8	ug/L			02/06/20 17:25	10
Bromomethane	<8.0		30	8.0	ug/L			02/06/20 17:25	10
Carbon tetrachloride	<3.8		10	3.8	ug/L			02/06/20 17:25	10
Chlorobenzene	<3.9		10	3.9	ug/L			02/06/20 17:25	10
Chloroethane	<5.1		10	5.1	ug/L			02/06/20 17:25	10
Chloroform	<3.7		20	3.7	ug/L			02/06/20 17:25	10
Chloromethane	<3.2		10	3.2	ug/L			02/06/20 17:25	10
cis-1,2-Dichloroethene	<4.1		10	4.1	ug/L			02/06/20 17:25	10
cis-1,3-Dichloropropene	<4.2		10	4.2	ug/L			02/06/20 17:25	10
Dibromochloromethane	<4.9		10	4.9	ug/L			02/06/20 17:25	10
Dibromomethane	<2.7		10	2.7	ug/L			02/06/20 17:25	10
Dichlorodifluoromethane	<6.7		30	6.7	ug/L			02/06/20 17:25	10
Ethylbenzene	**66**		5.0	1.8	ug/L			02/06/20 17:25	10
Hexachlorobutadiene	<4.5		10	4.5	ug/L			02/06/20 17:25	10
Isopropyl ether	<2.8		10	2.8	ug/L			02/06/20 17:25	10
Isopropylbenzene	**8.8**	**J**	10	3.9	ug/L			02/06/20 17:25	10
Methyl tert-butyl ether	<3.9		10	3.9	ug/L			02/06/20 17:25	10
Methylene Chloride	<16		50	16	ug/L			02/06/20 17:25	10
n-Butylbenzene	<3.9		10	3.9	ug/L			02/06/20 17:25	10
N-Propylbenzene	**4.7**	**J**	10	4.1	ug/L			02/06/20 17:25	10
p-Isopropyltoluene	<3.6		10	3.6	ug/L			02/06/20 17:25	10
sec-Butylbenzene	<4.0		10	4.0	ug/L			02/06/20 17:25	10

Client Sample ID: MW-123

Date Collected: 01/30/20 12:25
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<3.9		10	3.9	ug/L			02/06/20 17:25	10
tert-Butylbenzene	<4.0		10	4.0	ug/L			02/06/20 17:25	10
Tetrachloroethene	<3.7		10	3.7	ug/L			02/06/20 17:25	10
Toluene	**69**		5.0	1.5	ug/L			02/06/20 17:25	10
trans-1,2-Dichloroethene	<3.5		10	3.5	ug/L			02/06/20 17:25	10
trans-1,3-Dichloropropene	<3.6		10	3.6	ug/L			02/06/20 17:25	10
Trichloroethene	<1.6		5.0	1.6	ug/L			02/06/20 17:25	10
Trichlorofluoromethane	<4.3		10	4.3	ug/L			02/06/20 17:25	10
Vinyl chloride	<2.0		10	2.0	ug/L			02/06/20 17:25	10
Xylenes, Total	**150**		10	2.2	ug/L			02/06/20 17:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*02/06/20 17:25*	*10*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/06/20 17:25*	*10*
Dibromofluoromethane	*92*		*75 - 120*		*02/06/20 17:25*	*10*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/06/20 17:25*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**9800**		100	34	ug/L			02/06/20 17:51	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/06/20 17:51*	*100*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/06/20 17:51*	*100*
Dibromofluoromethane	*94*		*75 - 120*		*02/06/20 17:51*	*100*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/06/20 17:51*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**9.2**		0.83	0.22	ug/L		02/03/20 17:42	02/10/20 19:34	1
Anthracene	**7.5**		0.83	0.28	ug/L		02/03/20 17:42	02/10/20 19:34	1
Benzo[a]anthracene	**0.66**		0.17	0.047	ug/L		02/03/20 17:42	02/10/20 19:34	1
Benzo[a]pyrene	**0.75**		0.17	0.082	ug/L		02/03/20 17:42	02/10/20 19:34	1
Benzo[b]fluoranthene	**0.81**		0.17	0.067	ug/L		02/03/20 17:42	02/10/20 19:34	1
Benzo[g,h,i]perylene	**0.46**	**J**	0.83	0.31	ug/L		02/03/20 17:42	02/10/20 19:34	1
Benzo[k]fluoranthene	**0.32**		0.17	0.053	ug/L		02/03/20 17:42	02/10/20 19:34	1
Chrysene	**0.73**		0.17	0.057	ug/L		02/03/20 17:42	02/10/20 19:34	1
Dibenz(a,h)anthracene	**0.070**	**J**	0.25	0.042	ug/L		02/03/20 17:42	02/10/20 19:34	1
Fluoranthene	**9.2**		0.83	0.38	ug/L		02/03/20 17:42	02/10/20 19:34	1
Indeno[1,2,3-cd]pyrene	**0.35**		0.17	0.062	ug/L		02/03/20 17:42	02/10/20 19:34	1
Pyrene	**4.2**		0.83	0.36	ug/L		02/03/20 17:42	02/10/20 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*34 - 110*	*02/03/20 17:42*	*02/10/20 19:34*	*1*
Nitrobenzene-d5 (Surr)	*86*		*36 - 120*	*02/03/20 17:42*	*02/10/20 19:34*	*1*
Terphenyl-d14 (Surr)	*104*		*40 - 145*	*02/03/20 17:42*	*02/10/20 19:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**210**		17	2.5	ug/L		02/03/20 17:42	02/14/20 18:23	10
2-Methylnaphthalene	**200**		17	0.54	ug/L		02/03/20 17:42	02/14/20 18:23	10

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-123
Date Collected: 01/30/20 12:25
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150		8.3	2.6	ug/L		02/03/20 17:42	02/14/20 18:23	10
Fluorene	85		8.3	2.0	ug/L		02/03/20 17:42	02/14/20 18:23	10
Phenanthrene	65		8.3	2.5	ug/L		02/03/20 17:42	02/14/20 18:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 110*	*02/03/20 17:42*	*02/14/20 18:23*	*10*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*	*02/03/20 17:42*	*02/14/20 18:23*	*10*
Terphenyl-d14 (Surr)	*107*		*40 - 145*	*02/03/20 17:42*	*02/14/20 18:23*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	3200		83	26	ug/L		02/03/20 17:42	02/14/20 18:47	100

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-122
Date Collected: 01/30/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-13
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	<0.92		2.0	0.92	ug/L			02/07/20 16:55	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			02/07/20 16:55	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			02/07/20 16:55	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			02/07/20 16:55	2
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			02/07/20 16:55	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			02/07/20 16:55	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			02/07/20 16:55	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			02/07/20 16:55	2
1,2,3-Trichloropropane	<0.83		4.0	0.83	ug/L			02/07/20 16:55	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			02/07/20 16:55	2
1,2,4-Trimethylbenzene	**12**		2.0	0.72	ug/L			02/07/20 16:55	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			02/07/20 16:55	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			02/07/20 16:55	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			02/07/20 16:55	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			02/07/20 16:55	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			02/07/20 16:55	2
1,3,5-Trimethylbenzene	**6.6**		2.0	0.51	ug/L			02/07/20 16:55	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			02/07/20 16:55	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			02/07/20 16:55	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			02/07/20 16:55	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			02/07/20 16:55	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			02/07/20 16:55	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			02/07/20 16:55	2
Benzene	**18**		1.0	0.29	ug/L			02/07/20 16:55	2
Bromobenzene	<0.71		2.0	0.71	ug/L			02/07/20 16:55	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			02/07/20 16:55	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			02/07/20 16:55	2
Bromoform	<0.97		2.0	0.97	ug/L			02/07/20 16:55	2
Bromomethane	<1.6		6.0	1.6	ug/L			02/07/20 16:55	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			02/07/20 16:55	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			02/07/20 16:55	2
Chloroethane	<1.0		2.0	1.0	ug/L			02/07/20 16:55	2
Chloroform	<0.74		4.0	0.74	ug/L			02/07/20 16:55	2
Chloromethane	<0.64		2.0	0.64	ug/L			02/07/20 16:55	2
cis-1,2-Dichloroethene	<0.82		2.0	0.82	ug/L			02/07/20 16:55	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			02/07/20 16:55	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			02/07/20 16:55	2
Dibromomethane	<0.54		2.0	0.54	ug/L			02/07/20 16:55	2
Dichlorodifluoromethane	<1.3		6.0	1.3	ug/L			02/07/20 16:55	2
Ethylbenzene	**51**		1.0	0.37	ug/L			02/07/20 16:55	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			02/07/20 16:55	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			02/07/20 16:55	2
Isopropylbenzene	**5.3**		2.0	0.77	ug/L			02/07/20 16:55	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			02/07/20 16:55	2
Methylene Chloride	<3.3		10	3.3	ug/L			02/07/20 16:55	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			02/07/20 16:55	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			02/07/20 16:55	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			02/07/20 16:55	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			02/07/20 16:55	2

Client Sample ID: MW-122

Date Collected: 01/30/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.77		2.0	0.77	ug/L			02/07/20 16:55	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			02/07/20 16:55	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			02/07/20 16:55	2
Toluene	**2.5**		1.0	0.30	ug/L			02/07/20 16:55	2
trans-1,2-Dichloroethene	<0.70		2.0	0.70	ug/L			02/07/20 16:55	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			02/07/20 16:55	2
Trichloroethene	<0.33		1.0	0.33	ug/L			02/07/20 16:55	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			02/07/20 16:55	2
Vinyl chloride	<0.41		2.0	0.41	ug/L			02/07/20 16:55	2
Xylenes, Total	**14**		2.0	0.44	ug/L			02/07/20 16:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*02/07/20 16:55*	*2*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*02/07/20 16:55*	*2*
Dibromofluoromethane	*92*		*75 - 120*		*02/07/20 16:55*	*2*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/07/20 16:55*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**890**		5.0	1.7	ug/L			02/06/20 18:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*02/06/20 18:16*	*5*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*02/06/20 18:16*	*5*
Dibromofluoromethane	*92*		*75 - 120*		*02/06/20 18:16*	*5*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/06/20 18:16*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**3.5**		1.8	0.058	ug/L		02/03/20 17:42	02/10/20 20:03	1
Acenaphthylene	**2.0**		0.89	0.24	ug/L		02/03/20 17:42	02/10/20 20:03	1
Anthracene	**3.0**		0.89	0.30	ug/L		02/03/20 17:42	02/10/20 20:03	1
Benzo[a]anthracene	**0.13**	**J**	0.18	0.050	ug/L		02/03/20 17:42	02/10/20 20:03	1
Benzo[a]pyrene	<0.088		0.18	0.088	ug/L		02/03/20 17:42	02/10/20 20:03	1
Benzo[b]fluoranthene	<0.071		0.18	0.071	ug/L		02/03/20 17:42	02/10/20 20:03	1
Benzo[g,h,i]perylene	<0.33		0.89	0.33	ug/L		02/03/20 17:42	02/10/20 20:03	1
Benzo[k]fluoranthene	<0.057		0.18	0.057	ug/L		02/03/20 17:42	02/10/20 20:03	1
Chrysene	**0.14**	**J**	0.18	0.060	ug/L		02/03/20 17:42	02/10/20 20:03	1
Dibenz(a,h)anthracene	<0.045		0.27	0.045	ug/L		02/03/20 17:42	02/10/20 20:03	1
Fluoranthene	**2.6**		0.89	0.40	ug/L		02/03/20 17:42	02/10/20 20:03	1
Fluorene	**29**		0.89	0.22	ug/L		02/03/20 17:42	02/10/20 20:03	1
Indeno[1,2,3-cd]pyrene	<0.066		0.18	0.066	ug/L		02/03/20 17:42	02/10/20 20:03	1
Phenanthrene	**22**		0.89	0.27	ug/L		02/03/20 17:42	02/10/20 20:03	1
Pyrene	**1.2**		0.89	0.38	ug/L		02/03/20 17:42	02/10/20 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 110*	*02/03/20 17:42*	*02/10/20 20:03*	*1*
Nitrobenzene-d5 (Surr)	*55*		*36 - 120*	*02/03/20 17:42*	*02/10/20 20:03*	*1*
Terphenyl-d14 (Surr)	*100*		*40 - 145*	*02/03/20 17:42*	*02/10/20 20:03*	*1*

Client Sample ID: MW-122

Date Collected: 01/30/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	59		18	2.7	ug/L		02/03/20 17:42	02/14/20 19:11	10
Acenaphthene	63		8.9	2.7	ug/L		02/03/20 17:42	02/14/20 19:11	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	660		89	27	ug/L		02/03/20 17:42	02/16/20 20:14	100

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: Trip Blank-2

Date Collected: 01/29/20 00:00
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-14

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	<0.46		1.0	0.46	ug/L			02/06/20 10:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 10:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 10:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 10:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 10:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 10:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 10:33	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 10:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 10:33	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:33	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 10:33	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 10:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 10:33	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 10:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 10:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 10:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 10:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 10:33	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 10:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 10:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 10:33	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 10:33	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 10:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 10:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 10:33	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 10:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 10:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 10:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 10:33	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 10:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 10:33	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 10:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 10:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 10:33	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 10:33	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 10:33	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 10:33	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 10:33	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 10:33	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: Trip Blank-2
Date Collected: 01/29/20 00:00
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:33	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 10:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 10:33	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 10:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 10:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 10:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 10:33	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 10:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 10:33	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*		*02/06/20 10:33*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*02/06/20 10:33*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*02/06/20 10:33*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*02/06/20 10:33*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
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)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

GC/MS VOA

Analysis Batch: 528254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-1	MW-108	Total/NA	Water	8260B	
500-177224-2	MW-117	Total/NA	Water	8260B	
500-177224-2 - DL	MW-117	Total/NA	Water	8260B	
500-177224-4	MW-115	Total/NA	Water	8260B	
500-177224-5	MW-125	Total/NA	Water	8260B	
500-177224-5 - DL	MW-125	Total/NA	Water	8260B	
500-177224-7	P-113	Total/NA	Water	8260B	
500-177224-8	P-113 DUP	Total/NA	Water	8260B	
500-177224-9	MW-112	Total/NA	Water	8260B	
500-177224-10	MW-118	Total/NA	Water	8260B	
500-177224-11	MW-1	Total/NA	Water	8260B	
500-177224-12	MW-123	Total/NA	Water	8260B	
500-177224-12 - DL	MW-123	Total/NA	Water	8260B	
500-177224-13 - DL	MW-122	Total/NA	Water	8260B	
500-177224-14	Trip Blank-2	Total/NA	Water	8260B	
MB 500-528254/6	Method Blank	Total/NA	Water	8260B	
LCS 500-528254/4	Lab Control Sample	Total/NA	Water	8260B	
500-177224-1 MS	MW-108	Total/NA	Water	8260B	
500-177224-1 MSD	MW-108	Total/NA	Water	8260B	

Analysis Batch: 528465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-3	P-120	Total/NA	Water	8260B	
500-177224-6	MW-116	Total/NA	Water	8260B	
500-177224-13	MW-122	Total/NA	Water	8260B	
MB 500-528465/6	Method Blank	Total/NA	Water	8260B	
LCS 500-528465/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 527800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-1	MW-108	Total/NA	Water	3510C	
500-177224-2	MW-117	Total/NA	Water	3510C	
500-177224-2 - DL	MW-117	Total/NA	Water	3510C	
500-177224-3	P-120	Total/NA	Water	3510C	
500-177224-4	MW-115	Total/NA	Water	3510C	
500-177224-5	MW-125	Total/NA	Water	3510C	
500-177224-5 - DL	MW-125	Total/NA	Water	3510C	
500-177224-6	MW-116	Total/NA	Water	3510C	
500-177224-7	P-113	Total/NA	Water	3510C	
500-177224-8	P-113 DUP	Total/NA	Water	3510C	
500-177224-9	MW-112	Total/NA	Water	3510C	
500-177224-10	MW-118	Total/NA	Water	3510C	
500-177224-11	MW-1	Total/NA	Water	3510C	
500-177224-12	MW-123	Total/NA	Water	3510C	
500-177224-12 - DL	MW-123	Total/NA	Water	3510C	
500-177224-12 - DL2	MW-123	Total/NA	Water	3510C	
500-177224-13	MW-122	Total/NA	Water	3510C	
500-177224-13 - DL2	MW-122	Total/NA	Water	3510C	
500-177224-13 - DL	MW-122	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 527800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-527800/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-527800/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-527800/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 527946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-1	MW-108	Total/NA	Water	8270D	527800
500-177224-3	P-120	Total/NA	Water	8270D	527800
MB 500-527800/1-A	Method Blank	Total/NA	Water	8270D	527800
LCS 500-527800/2-A	Lab Control Sample	Total/NA	Water	8270D	527800
LCSD 500-527800/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	527800

Analysis Batch: 528866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-6	MW-116	Total/NA	Water	8270D	527800
500-177224-7	P-113	Total/NA	Water	8270D	527800
500-177224-8	P-113 DUP	Total/NA	Water	8270D	527800
500-177224-9	MW-112	Total/NA	Water	8270D	527800
500-177224-10	MW-118	Total/NA	Water	8270D	527800
500-177224-11	MW-1	Total/NA	Water	8270D	527800
500-177224-12	MW-123	Total/NA	Water	8270D	527800
500-177224-13	MW-122	Total/NA	Water	8270D	527800

Analysis Batch: 528955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-2	MW-117	Total/NA	Water	8270D	527800
500-177224-4	MW-115	Total/NA	Water	8270D	527800
500-177224-5	MW-125	Total/NA	Water	8270D	527800
500-177224-5 - DL	MW-125	Total/NA	Water	8270D	527800

Analysis Batch: 529726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-2 - DL	MW-117	Total/NA	Water	8270D	527800
500-177224-12 - DL	MW-123	Total/NA	Water	8270D	527800
500-177224-12 - DL2	MW-123	Total/NA	Water	8270D	527800
500-177224-13 - DL	MW-122	Total/NA	Water	8270D	527800

Analysis Batch: 529887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177224-13 - DL2	MW-122	Total/NA	Water	8270D	527800

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-177224-1	MW-108	82	101	90	105
500-177224-1 MS	MW-108	85	100	92	102
500-177224-1 MSD	MW-108	84	99	92	102
500-177224-2	MW-117	84	98	92	101
500-177224-2 - DL	MW-117	83	97	91	103
500-177224-3	P-120	83	100	91	104
500-177224-4	MW-115	83	102	92	103
500-177224-5	MW-125	86	97	91	101
500-177224-5 - DL	MW-125	88	102	93	103
500-177224-6	MW-116	86	97	93	102
500-177224-7	P-113	84	100	89	105
500-177224-8	P-113 DUP	87	102	93	102
500-177224-9	MW-112	86	100	94	104
500-177224-10	MW-118	85	101	94	104
500-177224-11	MW-1	86	100	95	103
500-177224-12	MW-123	85	100	92	103
500-177224-12 - DL	MW-123	86	100	94	104
500-177224-13 - DL	MW-122	87	100	92	103
500-177224-13	MW-122	83	98	92	100
500-177224-14	Trip Blank-2	82	101	88	105
LCS 500-528254/4	Lab Control Sample	82	98	90	103
LCS 500-528465/4	Lab Control Sample	83	99	91	101
MB 500-528254/6	Method Blank	82	104	89	105
MB 500-528465/6	Method Blank	84	101	88	104

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (34-110)	NBZ (36-120)	TPHL (40-145)
500-177224-1	MW-108	66	91	111
500-177224-2	MW-117	0 D	0 D	0 D
500-177224-2 - DL	MW-117	0	0	0
500-177224-3	P-120	67	95	113
500-177224-4	MW-115	60	101	117
500-177224-5	MW-125	38	52	65
500-177224-5 - DL	MW-125	0 D	0 D	0 D
500-177224-6	MW-116	60	68	113
500-177224-7	P-113	72	90	118
500-177224-8	P-113 DUP	67	84	103
500-177224-9	MW-112	55	51	105
500-177224-10	MW-118	72	81	121
500-177224-11	MW-1	75	83	99

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-177224-12	MW-123	61	86	104
500-177224-12 - DL	MW-123	63	70	107
500-177224-12 - DL2	MW-123	0 D	0 D	0 D
500-177224-13	MW-122	65	55	100
500-177224-13 - DL	MW-122	63	69	110
500-177224-13 - DL2	MW-122	0 D	0 D	0 D
LCS 500-527800/2-A	Lab Control Sample	83	113	121
LCSD 500-527800/3-A	Lab Control Sample Dup	85	104	119
MB 500-527800/1-A	Method Blank	69	100	126

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-528254/6
Matrix: Water
Analysis Batch: 528254

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	<0.46		1.0	0.46	ug/L			02/06/20 10:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/06/20 10:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/06/20 10:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/06/20 10:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/06/20 10:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/06/20 10:06	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/06/20 10:06	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/06/20 10:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/06/20 10:06	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:06	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/06/20 10:06	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/06/20 10:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/06/20 10:06	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/06/20 10:06	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:06	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/06/20 10:06	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:06	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/06/20 10:06	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/06/20 10:06	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/06/20 10:06	1
Benzene	<0.15		0.50	0.15	ug/L			02/06/20 10:06	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/06/20 10:06	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/06/20 10:06	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/06/20 10:06	1
Bromoform	<0.48		1.0	0.48	ug/L			02/06/20 10:06	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/06/20 10:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/06/20 10:06	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/06/20 10:06	1
Chloroform	<0.37		2.0	0.37	ug/L			02/06/20 10:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/06/20 10:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/06/20 10:06	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/06/20 10:06	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/06/20 10:06	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/06/20 10:06	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/06/20 10:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/06/20 10:06	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/06/20 10:06	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/06/20 10:06	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/06/20 10:06	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/06/20 10:06	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/06/20 10:06	1

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

Lab Sample ID: MB 500-528254/6
Matrix: Water
Analysis Batch: 528254

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/06/20 10:06	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:06	1
Styrene	<0.39		1.0	0.39	ug/L			02/06/20 10:06	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/06/20 10:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/06/20 10:06	1
Toluene	<0.15		0.50	0.15	ug/L			02/06/20 10:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/06/20 10:06	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/06/20 10:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/06/20 10:06	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/06/20 10:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/06/20 10:06	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/06/20 10:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*		*02/06/20 10:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*02/06/20 10:06*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*02/06/20 10:06*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*02/06/20 10:06*	*1*

Lab Sample ID: LCS 500-528254/4
Matrix: Water
Analysis Batch: 528254

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	50.0	46.6		ug/L		93	70 - 125
1,1,1-Trichloroethane	50.0	47.3		ug/L		95	70 - 125
1,1,2,2-Tetrachloroethane	50.0	56.0		ug/L		112	62 - 140
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	71 - 130
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 125
1,1-Dichloroethene	50.0	51.9		ug/L		104	67 - 122
1,1-Dichloropropene	50.0	49.3		ug/L		99	70 - 121
1,2,3-Trichlorobenzene	50.0	40.0		ug/L		80	51 - 145
1,2,3-Trichloropropane	50.0	53.6		ug/L		107	50 - 133
1,2,4-Trichlorobenzene	50.0	45.5		ug/L		91	57 - 137
1,2,4-Trimethylbenzene	50.0	54.8		ug/L		110	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	38.2		ug/L		76	56 - 123
1,2-Dibromoethane	50.0	51.7		ug/L		103	70 - 125
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 125
1,2-Dichloroethane	50.0	41.7		ug/L		83	68 - 127
1,2-Dichloropropane	50.0	53.3		ug/L		107	67 - 130
1,3,5-Trimethylbenzene	50.0	55.2		ug/L		110	70 - 123
1,3-Dichlorobenzene	50.0	53.5		ug/L		107	70 - 125
1,3-Dichloropropane	50.0	50.5		ug/L		101	62 - 136
1,4-Dichlorobenzene	50.0	52.9		ug/L		106	70 - 120
2,2-Dichloropropane	50.0	45.7		ug/L		91	58 - 139
2-Chlorotoluene	50.0	54.6		ug/L		109	70 - 125
4-Chlorotoluene	50.0	54.4		ug/L		109	68 - 124
Benzene	50.0	52.9		ug/L		106	70 - 120

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

Lab Sample ID: LCS 500-528254/4
Matrix: Water
Analysis Batch: 528254

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	53.4		ug/L		107	70 - 122
Bromochloromethane	50.0	49.3		ug/L		99	65 - 122
Bromodichloromethane	50.0	48.4		ug/L		97	69 - 120
Bromoform	50.0	46.1		ug/L		92	56 - 132
Bromomethane	50.0	64.8		ug/L		130	40 - 152
Carbon tetrachloride	50.0	46.0		ug/L		92	59 - 133
Chlorobenzene	50.0	51.5		ug/L		103	70 - 120
Chloroethane	50.0	56.9		ug/L		114	48 - 136
Chloroform	50.0	46.7		ug/L		93	70 - 120
Chloromethane	50.0	61.7		ug/L		123	56 - 152
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 125
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	64 - 127
Dibromochloromethane	50.0	49.0		ug/L		98	68 - 125
Dibromomethane	50.0	49.2		ug/L		98	70 - 120
Dichlorodifluoromethane	50.0	59.6		ug/L		119	40 - 159
Ethylbenzene	50.0	54.8		ug/L		110	70 - 123
Hexachlorobutadiene	50.0	43.7		ug/L		87	51 - 150
Isopropylbenzene	50.0	57.9		ug/L		116	70 - 126
Methyl tert-butyl ether	50.0	41.6		ug/L		83	55 - 123
Methylene Chloride	50.0	52.5		ug/L		105	69 - 125
Naphthalene	50.0	41.1		ug/L		82	53 - 144
n-Butylbenzene	50.0	56.7		ug/L		113	68 - 125
N-Propylbenzene	50.0	57.3		ug/L		115	69 - 127
p-Isopropyltoluene	50.0	53.9		ug/L		108	70 - 125
sec-Butylbenzene	50.0	56.8		ug/L		114	70 - 123
Styrene	50.0	53.9		ug/L		108	70 - 120
tert-Butylbenzene	50.0	53.0		ug/L		106	70 - 121
Tetrachloroethene	50.0	52.6		ug/L		105	70 - 128
Toluene	50.0	55.5		ug/L		111	70 - 125
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 125
trans-1,3-Dichloropropene	50.0	46.0		ug/L		92	62 - 128
Trichloroethene	50.0	50.7		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	50.0		ug/L		100	55 - 128
Vinyl chloride	50.0	59.1		ug/L		118	64 - 126
Xylenes, Total	100	102		ug/L		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane	*90*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: 500-177224-1 MS
Matrix: Water
Analysis Batch: 528254

Client Sample ID: MW-108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	46.7		ug/L		93	70 - 125

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

Lab Sample ID: 500-177224-1 MS
Matrix: Water
Analysis Batch: 528254

Client Sample ID: MW-108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<0.38		50.0	44.8		ug/L		90	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	58.6		ug/L		117	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	53.5		ug/L		107	71 - 130
1,1-Dichloroethane	<0.41		50.0	47.7		ug/L		95	70 - 125
1,1-Dichloroethene	<0.39		50.0	49.1		ug/L		98	67 - 122
1,1-Dichloropropene	<0.30		50.0	47.2		ug/L		94	70 - 121
1,2,3-Trichlorobenzene	<0.46	F2	50.0	41.2		ug/L		82	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	53.8		ug/L		108	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	43.4		ug/L		87	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	53.0		ug/L		106	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	39.2		ug/L		78	56 - 123
1,2-Dibromoethane	<0.39		50.0	51.9		ug/L		104	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	51.2		ug/L		102	70 - 125
1,2-Dichloroethane	<0.39		50.0	42.8		ug/L		86	68 - 127
1,2-Dichloropropane	<0.43		50.0	51.7		ug/L		103	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	52.9		ug/L		106	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	51.6		ug/L		103	70 - 125
1,3-Dichloropropane	<0.36		50.0	50.9		ug/L		102	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	50.5		ug/L		101	70 - 120
2,2-Dichloropropane	<0.44		50.0	40.7		ug/L		81	58 - 139
2-Chlorotoluene	<0.31		50.0	52.5		ug/L		105	70 - 125
4-Chlorotoluene	<0.35		50.0	52.2		ug/L		104	68 - 124
Benzene	<0.15		50.0	51.4		ug/L		103	70 - 120
Bromobenzene	<0.36		50.0	52.5		ug/L		105	70 - 122
Bromochloromethane	<0.43		50.0	48.0		ug/L		96	65 - 122
Bromodichloromethane	<0.37		50.0	48.4		ug/L		97	69 - 120
Bromoform	<0.48		50.0	47.3		ug/L		95	56 - 132
Bromomethane	<0.80		50.0	69.0		ug/L		138	40 - 152
Carbon tetrachloride	<0.38		50.0	43.7		ug/L		87	59 - 133
Chlorobenzene	<0.39		50.0	50.0		ug/L		100	70 - 120
Chloroethane	<0.51		50.0	60.5		ug/L		121	48 - 136
Chloroform	<0.37		50.0	45.0		ug/L		90	70 - 120
Chloromethane	<0.32		50.0	66.7		ug/L		133	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	48.8		ug/L		98	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	47.4		ug/L		95	64 - 127
Dibromochloromethane	<0.49		50.0	48.3		ug/L		97	68 - 125
Dibromomethane	<0.27		50.0	48.9		ug/L		98	70 - 120
Dichlorodifluoromethane	<0.67		50.0	60.5		ug/L		121	40 - 159
Ethylbenzene	<0.18		50.0	52.6		ug/L		105	70 - 123
Hexachlorobutadiene	<0.45		50.0	41.9		ug/L		84	51 - 150
Isopropylbenzene	<0.39		50.0	55.4		ug/L		111	70 - 126
Methyl tert-butyl ether	<0.39		50.0	41.7		ug/L		83	55 - 123
Methylene Chloride	<1.6		50.0	50.4		ug/L		101	69 - 125
Naphthalene	<0.34		50.0	46.8		ug/L		94	53 - 144
n-Butylbenzene	<0.39		50.0	52.8		ug/L		106	68 - 125
N-Propylbenzene	<0.41		50.0	54.4		ug/L		109	69 - 127
p-Isopropyltoluene	<0.36		50.0	51.5		ug/L		103	70 - 125
sec-Butylbenzene	<0.40		50.0	54.4		ug/L		109	70 - 123
Styrene	<0.39		50.0	52.0		ug/L		104	70 - 120

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

Lab Sample ID: 500-177224-1 MS
Matrix: Water
Analysis Batch: 528254

Client Sample ID: MW-108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	<0.40		50.0	50.6		ug/L		101	70 - 121
Tetrachloroethene	<0.37		50.0	48.8		ug/L		98	70 - 128
Toluene	<0.15		50.0	52.3		ug/L		105	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	49.9		ug/L		100	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	44.8		ug/L		90	62 - 128
Trichloroethene	<0.16		50.0	49.5		ug/L		99	70 - 125
Trichlorofluoromethane	<0.43		50.0	53.5		ug/L		107	55 - 128
Vinyl chloride	<0.20		50.0	62.6		ug/L		125	64 - 126
Xylenes, Total	<0.22		100	98.1		ug/L		98	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: 500-177224-1 MSD
Matrix: Water
Analysis Batch: 528254

Client Sample ID: MW-108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46		50.0	47.5		ug/L		95	70 - 125	2	20
1,1,1-Trichloroethane	<0.38		50.0	45.5		ug/L		91	70 - 125	1	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	59.9		ug/L		120	62 - 140	2	20
1,1,2-Trichloroethane	<0.35		50.0	54.3		ug/L		109	71 - 130	1	20
1,1-Dichloroethane	<0.41		50.0	48.2		ug/L		96	70 - 125	1	20
1,1-Dichloroethene	<0.39		50.0	50.0		ug/L		100	67 - 122	2	20
1,1-Dichloropropene	<0.30		50.0	47.8		ug/L		96	70 - 121	1	20
1,2,3-Trichlorobenzene	<0.46	F2	50.0	51.1	F2	ug/L		102	51 - 145	21	20
1,2,3-Trichloropropane	<0.41		50.0	56.3		ug/L		113	50 - 133	5	20
1,2,4-Trichlorobenzene	<0.34		50.0	47.8		ug/L		96	57 - 137	10	20
1,2,4-Trimethylbenzene	<0.36		50.0	53.7		ug/L		107	70 - 123	1	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.6		ug/L		81	56 - 123	3	20
1,2-Dibromoethane	<0.39		50.0	51.8		ug/L		104	70 - 125	0	20
1,2-Dichlorobenzene	<0.33		50.0	52.8		ug/L		106	70 - 125	3	20
1,2-Dichloroethane	<0.39		50.0	43.2		ug/L		86	68 - 127	1	20
1,2-Dichloropropane	<0.43		50.0	53.3		ug/L		107	67 - 130	3	20
1,3,5-Trimethylbenzene	<0.25		50.0	53.6		ug/L		107	70 - 123	1	20
1,3-Dichlorobenzene	<0.40		50.0	52.0		ug/L		104	70 - 125	1	20
1,3-Dichloropropane	<0.36		50.0	50.6		ug/L		101	62 - 136	1	20
1,4-Dichlorobenzene	<0.36		50.0	51.6		ug/L		103	70 - 120	2	20
2,2-Dichloropropane	<0.44		50.0	41.5		ug/L		83	58 - 139	2	20
2-Chlorotoluene	<0.31		50.0	53.3		ug/L		107	70 - 125	2	20
4-Chlorotoluene	<0.35		50.0	53.2		ug/L		106	68 - 124	2	20
Benzene	<0.15		50.0	52.4		ug/L		105	70 - 120	2	20
Bromobenzene	<0.36		50.0	53.6		ug/L		107	70 - 122	2	20
Bromochloromethane	<0.43		50.0	48.8		ug/L		98	65 - 122	2	20
Bromodichloromethane	<0.37		50.0	48.7		ug/L		97	69 - 120	1	20

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

Lab Sample ID: 500-177224-1 MSD
Matrix: Water
Analysis Batch: 528254

Client Sample ID: MW-108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	<0.48		50.0	48.4		ug/L		97	56 - 132	2	20
Bromomethane	<0.80		50.0	60.8		ug/L		122	40 - 152	13	20
Carbon tetrachloride	<0.38		50.0	45.2		ug/L		90	59 - 133	3	20
Chlorobenzene	<0.39		50.0	49.9		ug/L		100	70 - 120	0	20
Chloroethane	<0.51		50.0	53.3		ug/L		107	48 - 136	13	20
Chloroform	<0.37		50.0	45.5		ug/L		91	70 - 120	1	20
Chloromethane	<0.32		50.0	58.1		ug/L		116	56 - 152	14	20
cis-1,2-Dichloroethene	<0.41		50.0	49.9		ug/L		100	70 - 125	2	20
cis-1,3-Dichloropropene	<0.42		50.0	48.4		ug/L		97	64 - 127	2	20
Dibromochloromethane	<0.49		50.0	49.6		ug/L		99	68 - 125	3	20
Dibromomethane	<0.27		50.0	48.6		ug/L		97	70 - 120	1	20
Dichlorodifluoromethane	<0.67		50.0	55.0		ug/L		110	40 - 159	10	20
Ethylbenzene	<0.18		50.0	53.1		ug/L		106	70 - 123	1	20
Hexachlorobutadiene	<0.45		50.0	44.7		ug/L		89	51 - 150	7	20
Isopropylbenzene	<0.39		50.0	56.5		ug/L		113	70 - 126	2	20
Methyl tert-butyl ether	<0.39		50.0	42.8		ug/L		86	55 - 123	3	20
Methylene Chloride	<1.6		50.0	52.6		ug/L		105	69 - 125	4	20
Naphthalene	<0.34		50.0	52.9		ug/L		106	53 - 144	12	20
n-Butylbenzene	<0.39		50.0	53.4		ug/L		107	68 - 125	1	20
N-Propylbenzene	<0.41		50.0	56.1		ug/L		112	69 - 127	3	20
p-Isopropyltoluene	<0.36		50.0	51.5		ug/L		103	70 - 125	0	20
sec-Butylbenzene	<0.40		50.0	55.4		ug/L		111	70 - 123	2	20
Styrene	<0.39		50.0	52.6		ug/L		105	70 - 120	1	20
tert-Butylbenzene	<0.40		50.0	51.8		ug/L		104	70 - 121	2	20
Tetrachloroethene	<0.37		50.0	49.4		ug/L		99	70 - 128	1	20
Toluene	<0.15		50.0	53.5		ug/L		107	70 - 125	2	20
trans-1,2-Dichloroethene	<0.35		50.0	50.6		ug/L		101	70 - 125	1	20
trans-1,3-Dichloropropene	<0.36		50.0	45.1		ug/L		90	62 - 128	0	20
Trichloroethene	<0.16		50.0	49.5		ug/L		99	70 - 125	0	20
Trichlorofluoromethane	<0.43		50.0	47.3		ug/L		95	55 - 128	12	20
Vinyl chloride	<0.20		50.0	54.4		ug/L		109	64 - 126	14	20
Xylenes, Total	<0.22		100	99.0		ug/L		99	70 - 125	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: MB 500-528465/6
Matrix: Water
Analysis Batch: 528465

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	<0.46		1.0	0.46	ug/L			02/07/20 10:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/07/20 10:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/07/20 10:29	1

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

Lab Sample ID: MB 500-528465/6
Matrix: Water
Analysis Batch: 528465

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/07/20 10:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/07/20 10:29	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/07/20 10:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/07/20 10:29	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/07/20 10:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/07/20 10:29	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/07/20 10:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/07/20 10:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/07/20 10:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/07/20 10:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/07/20 10:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/07/20 10:29	1
Benzene	<0.15		0.50	0.15	ug/L			02/07/20 10:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/07/20 10:29	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/07/20 10:29	1
Bromoform	<0.48		1.0	0.48	ug/L			02/07/20 10:29	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/07/20 10:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/07/20 10:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/07/20 10:29	1
Chloroform	<0.37		2.0	0.37	ug/L			02/07/20 10:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/07/20 10:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/07/20 10:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/07/20 10:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/07/20 10:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/07/20 10:29	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/07/20 10:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/07/20 10:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/07/20 10:29	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/07/20 10:29	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/07/20 10:29	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/07/20 10:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/07/20 10:29	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
Styrene	<0.39		1.0	0.39	ug/L			02/07/20 10:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/07/20 10:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/07/20 10:29	1

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

Lab Sample ID: MB 500-528465/6
Matrix: Water
Analysis Batch: 528465

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			02/07/20 10:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/07/20 10:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/07/20 10:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/07/20 10:29	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/07/20 10:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/07/20 10:29	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/07/20 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*02/07/20 10:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*02/07/20 10:29*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*02/07/20 10:29*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*02/07/20 10:29*	*1*

Lab Sample ID: LCS 500-528465/4
Matrix: Water
Analysis Batch: 528465

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	50.0	41.4		ug/L		83	70 - 125
1,1,1-Trichloroethane	50.0	42.1		ug/L		84	70 - 125
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	62 - 140
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	71 - 130
1,1-Dichloroethane	50.0	44.4		ug/L		89	70 - 125
1,1-Dichloroethene	50.0	47.4		ug/L		95	67 - 122
1,1-Dichloropropene	50.0	44.0		ug/L		88	70 - 121
1,2,3-Trichlorobenzene	50.0	33.0		ug/L		66	51 - 145
1,2,3-Trichloropropane	50.0	48.7		ug/L		97	50 - 133
1,2,4-Trichlorobenzene	50.0	37.9		ug/L		76	57 - 137
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	31.3		ug/L		63	56 - 123
1,2-Dibromoethane	50.0	46.4		ug/L		93	70 - 125
1,2-Dichlorobenzene	50.0	45.8		ug/L		92	70 - 125
1,2-Dichloroethane	50.0	37.5		ug/L		75	68 - 127
1,2-Dichloropropane	50.0	48.4		ug/L		97	67 - 130
1,3,5-Trimethylbenzene	50.0	49.1		ug/L		98	70 - 123
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	45.2		ug/L		90	62 - 136
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 120
2,2-Dichloropropane	50.0	39.8		ug/L		80	58 - 139
2-Chlorotoluene	50.0	48.3		ug/L		97	70 - 125
4-Chlorotoluene	50.0	48.4		ug/L		97	68 - 124
Benzene	50.0	47.9		ug/L		96	70 - 120
Bromobenzene	50.0	47.9		ug/L		96	70 - 122
Bromochloromethane	50.0	43.7		ug/L		87	65 - 122
Bromodichloromethane	50.0	43.6		ug/L		87	69 - 120
Bromoform	50.0	41.0		ug/L		82	56 - 132
Bromomethane	50.0	44.1		ug/L		88	40 - 152

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

Lab Sample ID: LCS 500-528465/4
Matrix: Water
Analysis Batch: 528465

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	40.8		ug/L		82	59 - 133
Chlorobenzene	50.0	46.0		ug/L		92	70 - 120
Chloroethane	50.0	47.7		ug/L		95	48 - 136
Chloroform	50.0	41.2		ug/L		82	70 - 120
Chloromethane	50.0	49.7		ug/L		99	56 - 152
cis-1,2-Dichloroethene	50.0	45.8		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	44.2		ug/L		88	64 - 127
Dibromochloromethane	50.0	42.9		ug/L		86	68 - 125
Dibromomethane	50.0	44.2		ug/L		88	70 - 120
Dichlorodifluoromethane	50.0	41.6		ug/L		83	40 - 159
Ethylbenzene	50.0	48.9		ug/L		98	70 - 123
Hexachlorobutadiene	50.0	38.0		ug/L		76	51 - 150
Isopropylbenzene	50.0	51.1		ug/L		102	70 - 126
Methyl tert-butyl ether	50.0	37.6		ug/L		75	55 - 123
Methylene Chloride	50.0	47.4		ug/L		95	69 - 125
Naphthalene	50.0	34.2		ug/L		68	53 - 144
n-Butylbenzene	50.0	50.2		ug/L		100	68 - 125
N-Propylbenzene	50.0	50.7		ug/L		101	69 - 127
p-Isopropyltoluene	50.0	47.8		ug/L		96	70 - 125
sec-Butylbenzene	50.0	50.0		ug/L		100	70 - 123
Styrene	50.0	47.4		ug/L		95	70 - 120
tert-Butylbenzene	50.0	46.6		ug/L		93	70 - 121
Tetrachloroethene	50.0	46.3		ug/L		93	70 - 128
Toluene	50.0	49.1		ug/L		98	70 - 125
trans-1,2-Dichloroethene	50.0	46.0		ug/L		92	70 - 125
trans-1,3-Dichloropropene	50.0	41.1		ug/L		82	62 - 128
Trichloroethene	50.0	45.8		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	43.6		ug/L		87	55 - 128
Vinyl chloride	50.0	48.9		ug/L		98	64 - 126
Xylenes, Total	100	90.2		ug/L		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*91*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

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

Lab Sample ID: MB 500-527800/1-A
Matrix: Water
Analysis Batch: 527946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		02/03/20 17:42	02/04/20 20:40	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		02/03/20 17:42	02/04/20 20:40	1
Acenaphthene	<0.25		0.80	0.25	ug/L		02/03/20 17:42	02/04/20 20:40	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		02/03/20 17:42	02/04/20 20:40	1
Anthracene	<0.27		0.80	0.27	ug/L		02/03/20 17:42	02/04/20 20:40	1

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

Lab Sample ID: MB 500-527800/1-A
Matrix: Water
Analysis Batch: 527946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		02/03/20 17:42	02/04/20 20:40	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		02/03/20 17:42	02/04/20 20:40	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		02/03/20 17:42	02/04/20 20:40	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		02/03/20 17:42	02/04/20 20:40	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		02/03/20 17:42	02/04/20 20:40	1
Chrysene	<0.055		0.16	0.055	ug/L		02/03/20 17:42	02/04/20 20:40	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		02/03/20 17:42	02/04/20 20:40	1
Fluoranthene	<0.36		0.80	0.36	ug/L		02/03/20 17:42	02/04/20 20:40	1
Fluorene	<0.20		0.80	0.20	ug/L		02/03/20 17:42	02/04/20 20:40	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		02/03/20 17:42	02/04/20 20:40	1
Naphthalene	<0.25		0.80	0.25	ug/L		02/03/20 17:42	02/04/20 20:40	1
Phenanthrene	<0.24		0.80	0.24	ug/L		02/03/20 17:42	02/04/20 20:40	1
Pyrene	<0.34		0.80	0.34	ug/L		02/03/20 17:42	02/04/20 20:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 110*	*02/03/20 17:42*	*02/04/20 20:40*	*1*
Nitrobenzene-d5 (Surr)	*100*		*36 - 120*	*02/03/20 17:42*	*02/04/20 20:40*	*1*
Terphenyl-d14 (Surr)	*126*		*40 - 145*	*02/03/20 17:42*	*02/04/20 20:40*	*1*

Lab Sample ID: LCS 500-527800/2-A
Matrix: Water
Analysis Batch: 527946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	32.0	23.3		ug/L		73	38 - 110
2-Methylnaphthalene	32.0	31.8		ug/L		99	34 - 110
Acenaphthene	32.0	28.0		ug/L		88	46 - 110
Acenaphthylene	32.0	31.6		ug/L		99	47 - 113
Anthracene	32.0	31.5		ug/L		99	67 - 118
Benzo[a]anthracene	32.0	34.7		ug/L		108	70 - 126
Benzo[a]pyrene	32.0	36.0		ug/L		112	70 - 135
Benzo[b]fluoranthene	32.0	35.5		ug/L		111	69 - 136
Benzo[g,h,i]perylene	32.0	37.4		ug/L		117	70 - 135
Benzo[k]fluoranthene	32.0	32.6		ug/L		102	70 - 133
Chrysene	32.0	33.8		ug/L		106	68 - 129
Dibenz(a,h)anthracene	32.0	39.3		ug/L		123	70 - 134
Fluoranthene	32.0	33.0		ug/L		103	68 - 126
Fluorene	32.0	29.7		ug/L		93	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	39.1		ug/L		122	65 - 133
Naphthalene	32.0	24.0		ug/L		75	36 - 110
Phenanthrene	32.0	30.1		ug/L		94	65 - 120
Pyrene	32.0	35.4		ug/L		111	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*34 - 110*
Nitrobenzene-d5 (Surr)	*113*		*36 - 120*
Terphenyl-d14 (Surr)	*121*		*40 - 145*

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

Lab Sample ID: LCSD 500-527800/3-A
Matrix: Water
Analysis Batch: 527946

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527800

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene			32.0	21.8		ug/L		68	38 - 110	7	20
2-Methylnaphthalene			32.0	30.5		ug/L		95	34 - 110	4	20
Acenaphthene			32.0	26.8		ug/L		84	46 - 110	4	20
Acenaphthylene			32.0	30.0		ug/L		94	47 - 113	5	20
Anthracene			32.0	34.1		ug/L		107	67 - 118	8	20
Benzo[a]anthracene			32.0	33.9		ug/L		106	70 - 126	2	20
Benzo[a]pyrene			32.0	35.6		ug/L		111	70 - 135	1	20
Benzo[b]fluoranthene			32.0	32.9		ug/L		103	69 - 136	8	20
Benzo[g,h,i]perylene			32.0	37.3		ug/L		116	70 - 135	0	20
Benzo[k]fluoranthene			32.0	33.2		ug/L		104	70 - 133	2	20
Chrysene			32.0	32.4		ug/L		101	68 - 129	4	20
Dibenz(a,h)anthracene			32.0	38.3		ug/L		120	70 - 134	3	20
Fluoranthene			32.0	32.2		ug/L		101	68 - 126	3	20
Fluorene			32.0	30.1		ug/L		94	53 - 120	1	20
Indeno[1,2,3-cd]pyrene			32.0	38.3		ug/L		120	65 - 133	2	20
Naphthalene			32.0	23.3		ug/L		73	36 - 110	3	20
Phenanthrene			32.0	32.2		ug/L		101	65 - 120	6	20
Pyrene			32.0	34.4		ug/L		108	70 - 126	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*34 - 110*
Nitrobenzene-d5 (Surr)	*104*		*36 - 120*
Terphenyl-d14 (Surr)	*119*		*40 - 145*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-108
Date Collected: 01/29/20 13:25
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 10:59	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	527946	02/05/20 03:53	NRJ	TAL CHI

Client Sample ID: MW-117
Date Collected: 01/29/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	528254	02/06/20 13:59	JDD	TAL CHI
Total/NA	Analysis	8260B	DL	200	528254	02/06/20 14:24	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		100	528955	02/10/20 22:41	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D	DL	1000	529726	02/14/20 17:59	NRJ	TAL CHI

Client Sample ID: P-120
Date Collected: 01/29/20 12:55
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 11:20	PMF	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	527946	02/05/20 04:20	NRJ	TAL CHI

Client Sample ID: MW-115
Date Collected: 01/29/20 13:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 11:25	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528955	02/10/20 23:08	NRJ	TAL CHI

Client Sample ID: MW-125
Date Collected: 01/29/20 14:15
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	528254	02/06/20 15:42	JDD	TAL CHI
Total/NA	Analysis	8260B	DL	100	528254	02/06/20 16:07	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		5	528955	02/11/20 01:23	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D	DL	50	528955	02/11/20 01:50	NRJ	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-116
Date Collected: 01/29/20 13:10
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528465	02/07/20 11:46	PMF	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 16:42	NRJ	TAL CHI

Client Sample ID: P-113
Date Collected: 01/30/20 10:55
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 11:50	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 17:11	NRJ	TAL CHI

Client Sample ID: P-113 DUP
Date Collected: 01/30/20 11:00
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 12:16	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 17:40	NRJ	TAL CHI

Client Sample ID: MW-112
Date Collected: 01/30/20 11:15
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 12:42	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 18:08	NRJ	TAL CHI

Client Sample ID: MW-118
Date Collected: 01/30/20 11:35
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 13:07	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 18:37	NRJ	TAL CHI

Client Sample ID: MW-1
Date Collected: 01/30/20 12:10
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 13:33	JDD	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Client Sample ID: MW-1
Date Collected: 01/30/20 12:10
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 19:05	NRJ	TAL CHI

Client Sample ID: MW-123
Date Collected: 01/30/20 12:25
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	528254	02/06/20 17:25	JDD	TAL CHI
Total/NA	Analysis	8260B	DL	100	528254	02/06/20 17:51	JDD	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 19:34	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D	DL	10	529726	02/14/20 18:23	NRJ	TAL CHI
Total/NA	Prep	3510C	DL2		527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D	DL2	100	529726	02/14/20 18:47	NRJ	TAL CHI

Client Sample ID: MW-122
Date Collected: 01/30/20 12:45
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	5	528254	02/06/20 18:16	JDD	TAL CHI
Total/NA	Analysis	8260B		2	528465	02/07/20 16:55	PMF	TAL CHI
Total/NA	Prep	3510C			527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D		1	528866	02/10/20 20:03	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D	DL	10	529726	02/14/20 19:11	NRJ	TAL CHI
Total/NA	Prep	3510C	DL2		527800	02/03/20 17:42	CMC	TAL CHI
Total/NA	Analysis	8270D	DL2	100	529887	02/16/20 20:14	NRJ	TAL CHI

Client Sample ID: Trip Blank-2
Date Collected: 01/29/20 00:00
Date Received: 02/01/20 07:50

Lab Sample ID: 500-177224-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528254	02/06/20 10:33	JDD	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-177224-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

Eurofins

Client Information	Sampler: Connor Lavzon	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-78795-36366.3
Client Contact: Mr. Mike Noel	Phone: (262) 203-1294	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 2
Company: Tetra Tech GEO			Analysis Requested	Job #: 500-177224
Address: 175 N Corporate Drive Suite 100	Due Date Requested: Standard			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 - Na2S2O5, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53045	PO #: NEEDED			
Phone: 262-792-1282(Tel)	WO #:			Other:
Email: mike.noel@tetratech.com	Project #: 50007176			
Project Name: Beazer Oak Creek	SSOW#:			
Site:				

500-177224 COC

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)	8270D - PAH	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
1 MW-108	1/29/20	13:25	G	Water	N	N	X	X	5	
2 MW-117	1/29/20	12:45	G	Water	N	N	X	X	5	
3 P-120	1/29/20	12:55	G	Water	N	N	X	X	5	
4 MW-115	1/29/20	13:45	G	Water	N	N	X	X	5	
5 MW-125	1/29/20	14:15	G	Water	N	N	X	X	5	
6 MW-116	1/29/20	13:10	G	Water	N	N	X	X	5	
7 P-113	1/30/20	10:55	G	Water	N	N	X	X	5	
8 P-113 DUP	1/30/20	11:00	G	Water	N	N	X	X	5	
9 MW-112	1/30/20	11:15	G	Water	N	N	X	X	5	
10 MW-118	1/30/20	11:35	G	Water	N	N	X	X	5	
11 MW-1	1/30/20	12:10	G	Water	N	N	X	X	5	

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
	1/31/20 8:00	Tetra Tech		1/31/20 1120	TA
	1/31/20 1900			2/1/20 0750	TA-CHI

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks: 4.0

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Connor Lauzon	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-78795-36366.2
Client Contact: Mr. Mike Noel	Phone: (262)203-1294	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 2 of 2
Company: Tetra Tech GEO		Analysis Requested		Job #: 500-177224
Address: 175 N Corporate Drive, Suite 100	Due Date Requested: Standard			Preservation Codes:
City: Brookfield	TAT Requested (days):			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)
State, Zip: WI, 53045				
Phone: 262-792-1282(Tel)	PO #: NEEDED			Other:
Email: mike.noel@tetratech.com	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
Site:	SSOW#:			

	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)	8270D - PAH	8260B - VOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:		N	N	N	A		
12	MW-123	1/30/20	12:25	G	Water	N	N	X	X	5	
13	MW-122	1/30/20	12:45	G	Water	N	N	X	X	5	
14	Trip Blank-2				Water						Lab prepared
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						

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
Connor Lauzon	1/30/20 8:00	Tetra Tech		1-31-20 1120	TT
	1/31/20 1900			2/1/20 0750	TT-CHI

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

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-177224-1

Login Number: 177224
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	4.0
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	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-178639-1
Client Project/Site: Beazer Oak Creek

For:
Tetra Tech GEO
175 N Corporate Drive
Suite 100
Brookfield, Wisconsin 53045

Attn: Mr. Mike Noel

Authorized for release by:
3/6/2020 10:27:43 AM
Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

Job ID: 500-178639-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-178639-1

Comments
No additional comments.

Receipt
The sample was received on 3/3/2020 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 532660 contained Naphthalene above the Method detection limit (MDL) but below reporting limit (RL). Naphthalene was non-detect in the sample: therefore, no re-analysis was done and the data has been reported.

Method 8260B: The laboratory control sample (LCS) for 532660 recovered outside control limits for the following analyte: Dichlordifluoromethane. This analyte was biased low in the LCS and was not detected in the associated sample; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 532660 were outside control limits for Chloroethane and Dichlorodifluoromethane. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was outside acceptance limits for Dichlorodifluoromethane.

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

GC/MS Semi VOA
Method 8270D: The following sample contained one base surrogate outside acceptance limits: (MB 500-532370/1-A). The laboratory's SOP allows one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

Client Sample ID: MW-136

Lab Sample ID: 500-178639-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.47	J	0.50	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-178639-1	MW-136	Ground Water	03/02/20 13:00	03/03/20 09:40	

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

Client Sample ID: MW-136
Date Collected: 03/02/20 13:00
Date Received: 03/03/20 09:40

Lab Sample ID: 500-178639-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/05/20 20:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/05/20 20:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/05/20 20:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/05/20 20:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/05/20 20:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/05/20 20:43	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/05/20 20:43	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/05/20 20:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/05/20 20:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/05/20 20:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/05/20 20:43	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/05/20 20:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/05/20 20:43	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/05/20 20:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/05/20 20:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/05/20 20:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/05/20 20:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/05/20 20:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/05/20 20:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/05/20 20:43	1
Benzene	**0.47**	**J**	0.50	0.15	ug/L			03/05/20 20:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/05/20 20:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/05/20 20:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/05/20 20:43	1
Bromoform	<0.48		1.0	0.48	ug/L			03/05/20 20:43	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/05/20 20:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/05/20 20:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
Chloroethane	<0.51	F1	1.0	0.51	ug/L			03/05/20 20:43	1
Chloroform	<0.37		2.0	0.37	ug/L			03/05/20 20:43	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/05/20 20:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/05/20 20:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/05/20 20:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/05/20 20:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/05/20 20:43	1
Dichlorodifluoromethane	<0.67	* F1	3.0	0.67	ug/L			03/05/20 20:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/05/20 20:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/05/20 20:43	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/05/20 20:43	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/05/20 20:43	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/05/20 20:43	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/05/20 20:43	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/05/20 20:43	1

Client Sample ID: MW-136
Date Collected: 03/02/20 13:00
Date Received: 03/03/20 09:40

Lab Sample ID: 500-178639-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/05/20 20:43	1
Styrene	<0.39		1.0	0.39	ug/L			03/05/20 20:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/05/20 20:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/05/20 20:43	1
Toluene	<0.15		0.50	0.15	ug/L			03/05/20 20:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/05/20 20:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/05/20 20:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/05/20 20:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/05/20 20:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/05/20 20:43	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/05/20 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*03/05/20 20:43*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*03/05/20 20:43*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*03/05/20 20:43*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*03/05/20 20:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		03/03/20 17:20	03/04/20 19:05	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		03/03/20 17:20	03/04/20 19:05	1
Acenaphthene	<0.24		0.76	0.24	ug/L		03/03/20 17:20	03/04/20 19:05	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		03/03/20 17:20	03/04/20 19:05	1
Anthracene	<0.25		0.76	0.25	ug/L		03/03/20 17:20	03/04/20 19:05	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		03/03/20 17:20	03/04/20 19:05	1
Benzo[a]pyrene	<0.076		0.15	0.076	ug/L		03/03/20 17:20	03/04/20 19:05	1
Benzo[b]fluoranthene	<0.062		0.15	0.062	ug/L		03/03/20 17:20	03/04/20 19:05	1
Benzo[g,h,i]perylene	<0.29		0.76	0.29	ug/L		03/03/20 17:20	03/04/20 19:05	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		03/03/20 17:20	03/04/20 19:05	1
Chrysene	<0.052		0.15	0.052	ug/L		03/03/20 17:20	03/04/20 19:05	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		03/03/20 17:20	03/04/20 19:05	1
Fluoranthene	<0.35		0.76	0.35	ug/L		03/03/20 17:20	03/04/20 19:05	1
Fluorene	<0.19		0.76	0.19	ug/L		03/03/20 17:20	03/04/20 19:05	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		03/03/20 17:20	03/04/20 19:05	1
Naphthalene	<0.24		0.76	0.24	ug/L		03/03/20 17:20	03/04/20 19:05	1
Phenanthrene	<0.23		0.76	0.23	ug/L		03/03/20 17:20	03/04/20 19:05	1
Pyrene	<0.33		0.76	0.33	ug/L		03/03/20 17:20	03/04/20 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*34 - 110*	*03/03/20 17:20*	*03/04/20 19:05*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*03/03/20 17:20*	*03/04/20 19:05*	*1*
Terphenyl-d14 (Surr)	*143*		*40 - 145*	*03/03/20 17:20*	*03/04/20 19:05*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

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)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

GC/MS VOA

Analysis Batch: 532660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-178639-1	MW-136	Total/NA	Ground Water	8260B	
MB 500-532660/6	Method Blank	Total/NA	Water	8260B	
LCS 500-532660/4	Lab Control Sample	Total/NA	Water	8260B	
500-178639-1 MS	MW-136	Total/NA	Ground Water	8260B	
500-178639-1 MSD	MW-136	Total/NA	Ground Water	8260B	

GC/MS Semi VOA

Prep Batch: 532370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-178639-1	MW-136	Total/NA	Ground Water	3510C	
MB 500-532370/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-532370/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 532441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-178639-1	MW-136	Total/NA	Ground Water	8270D	532370

Analysis Batch: 532520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-532370/1-A	Method Blank	Total/NA	Water	8270D	532370
LCS 500-532370/2-A	Lab Control Sample	Total/NA	Water	8270D	532370

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-178639-1	MW-136	98	91	101	96
500-178639-1 MS	MW-136	94	89	97	98
500-178639-1 MSD	MW-136	94	90	98	98

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
LCS 500-532660/4	Lab Control Sample	92	90	97	97
MB 500-532660/6	Method Blank	95	91	96	96

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-178639-1	MW-136	77	81	143

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
LCS 500-532370/2-A	Lab Control Sample	99	96	141
MB 500-532370/1-A	Method Blank	84	86	149 X

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

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

Lab Sample ID: MB 500-532660/6
Matrix: Water
Analysis Batch: 532660

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	<0.46		1.0	0.46	ug/L			03/05/20 14:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/05/20 14:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/05/20 14:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/05/20 14:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/05/20 14:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/05/20 14:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/05/20 14:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/05/20 14:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/05/20 14:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/05/20 14:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/05/20 14:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/05/20 14:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/05/20 14:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/05/20 14:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/05/20 14:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/05/20 14:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/05/20 14:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/05/20 14:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/05/20 14:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/05/20 14:51	1
Benzene	<0.15		0.50	0.15	ug/L			03/05/20 14:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/05/20 14:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/05/20 14:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/05/20 14:51	1
Bromoform	<0.48		1.0	0.48	ug/L			03/05/20 14:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/05/20 14:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/05/20 14:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/05/20 14:51	1
Chloroform	<0.37		2.0	0.37	ug/L			03/05/20 14:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/05/20 14:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/05/20 14:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/05/20 14:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/05/20 14:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/05/20 14:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/05/20 14:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/05/20 14:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/05/20 14:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/05/20 14:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/05/20 14:51	1
Naphthalene	0.383	J	1.0	0.34	ug/L			03/05/20 14:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/05/20 14:51	1

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

Lab Sample ID: MB 500-532660/6
Matrix: Water
Analysis Batch: 532660

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/05/20 14:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/05/20 14:51	1
Styrene	<0.39		1.0	0.39	ug/L			03/05/20 14:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/05/20 14:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/05/20 14:51	1
Toluene	<0.15		0.50	0.15	ug/L			03/05/20 14:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/05/20 14:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/05/20 14:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/05/20 14:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/05/20 14:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/05/20 14:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/05/20 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*03/05/20 14:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*03/05/20 14:51*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*03/05/20 14:51*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*03/05/20 14:51*	*1*

Lab Sample ID: LCS 500-532660/4
Matrix: Water
Analysis Batch: 532660

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	50.0	51.9		ug/L		104	70 - 125
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	70 - 125
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/L		105	62 - 140
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	71 - 130
1,1-Dichloroethane	50.0	54.9		ug/L		110	70 - 125
1,1-Dichloroethene	50.0	55.4		ug/L		111	67 - 122
1,1-Dichloropropene	50.0	51.7		ug/L		103	70 - 121
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	51 - 145
1,2,3-Trichloropropane	50.0	57.1		ug/L		114	50 - 133
1,2,4-Trichlorobenzene	50.0	49.5		ug/L		99	57 - 137
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/L		101	56 - 123
1,2-Dibromoethane	50.0	52.2		ug/L		104	70 - 125
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 125
1,2-Dichloroethane	50.0	50.6		ug/L		101	68 - 127
1,2-Dichloropropane	50.0	54.3		ug/L		109	67 - 130
1,3,5-Trimethylbenzene	50.0	50.6		ug/L		101	70 - 123
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 125
1,3-Dichloropropane	50.0	50.5		ug/L		101	62 - 136
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 120
2,2-Dichloropropane	50.0	49.1		ug/L		98	58 - 139
2-Chlorotoluene	50.0	49.2		ug/L		98	70 - 125
4-Chlorotoluene	50.0	48.5		ug/L		97	68 - 124
Benzene	50.0	50.6		ug/L		101	70 - 120

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

Lab Sample ID: LCS 500-532660/4
Matrix: Water
Analysis Batch: 532660

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	50.5		ug/L		101	70 - 122
Bromochloromethane	50.0	54.1		ug/L		108	65 - 122
Bromodichloromethane	50.0	47.9		ug/L		96	69 - 120
Bromoform	50.0	48.7		ug/L		97	56 - 132
Bromomethane	50.0	41.7		ug/L		83	40 - 152
Carbon tetrachloride	50.0	52.5		ug/L		105	59 - 133
Chlorobenzene	50.0	51.2		ug/L		102	70 - 120
Chloroethane	50.0	29.3		ug/L		59	48 - 136
Chloroform	50.0	48.6		ug/L		97	70 - 120
Chloromethane	50.0	32.2		ug/L		64	56 - 152
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 125
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	64 - 127
Dibromochloromethane	50.0	50.5		ug/L		101	68 - 125
Dibromomethane	50.0	51.6		ug/L		103	70 - 120
Dichlorodifluoromethane	50.0	13.5	*	ug/L		27	40 - 159
Ethylbenzene	50.0	48.2		ug/L		96	70 - 123
Hexachlorobutadiene	50.0	46.5		ug/L		93	51 - 150
Isopropylbenzene	50.0	51.4		ug/L		103	70 - 126
Methyl tert-butyl ether	50.0	48.0		ug/L		96	55 - 123
Methylene Chloride	50.0	50.9		ug/L		102	69 - 125
Naphthalene	50.0	53.3		ug/L		107	53 - 144
n-Butylbenzene	50.0	50.6		ug/L		101	68 - 125
N-Propylbenzene	50.0	50.6		ug/L		101	69 - 127
p-Isopropyltoluene	50.0	52.8		ug/L		106	70 - 125
sec-Butylbenzene	50.0	52.1		ug/L		104	70 - 123
Styrene	50.0	49.4		ug/L		99	70 - 120
tert-Butylbenzene	50.0	53.0		ug/L		106	70 - 121
Tetrachloroethene	50.0	51.8		ug/L		104	70 - 128
Toluene	50.0	49.8		ug/L		100	70 - 125
trans-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 125
trans-1,3-Dichloropropene	50.0	48.5		ug/L		97	62 - 128
Trichloroethene	50.0	54.3		ug/L		109	70 - 125
Trichlorofluoromethane	50.0	44.6		ug/L		89	55 - 128
Vinyl chloride	50.0	40.8		ug/L		82	64 - 126
Xylenes, Total	100	93.3		ug/L		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*
Dibromofluoromethane	*97*		*75 - 120*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Sample ID: 500-178639-1 MS
Matrix: Ground Water
Analysis Batch: 532660

Client Sample ID: MW-136
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	53.6		ug/L		107	70 - 125

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

Lab Sample ID: 500-178639-1 MS
Matrix: Ground Water
Analysis Batch: 532660

Client Sample ID: MW-136
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<0.38		50.0	49.8		ug/L		100	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	55.5		ug/L		111	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	52.2		ug/L		104	71 - 130
1,1-Dichloroethane	<0.41		50.0	55.2		ug/L		110	70 - 125
1,1-Dichloroethene	<0.39		50.0	53.3		ug/L		107	67 - 122
1,1-Dichloropropene	<0.30		50.0	49.5		ug/L		99	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	49.3		ug/L		99	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	60.6		ug/L		121	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	46.2		ug/L		92	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	49.9		ug/L		100	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	53.1		ug/L		106	56 - 123
1,2-Dibromoethane	<0.39		50.0	53.3		ug/L		107	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	52.1		ug/L		104	70 - 125
1,2-Dichloroethane	<0.39		50.0	51.2		ug/L		102	68 - 127
1,2-Dichloropropane	<0.43		50.0	54.7		ug/L		109	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	50.4		ug/L		101	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	50.1		ug/L		100	70 - 125
1,3-Dichloropropane	<0.36		50.0	51.0		ug/L		102	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	49.6		ug/L		99	70 - 120
2,2-Dichloropropane	<0.44		50.0	48.5		ug/L		97	58 - 139
2-Chlorotoluene	<0.31		50.0	49.4		ug/L		99	70 - 125
4-Chlorotoluene	<0.35		50.0	48.3		ug/L		97	68 - 124
Benzene	0.47	J	50.0	50.0		ug/L		99	70 - 120
Bromobenzene	<0.36		50.0	50.2		ug/L		100	70 - 122
Bromochloromethane	<0.43		50.0	54.4		ug/L		109	65 - 122
Bromodichloromethane	<0.37		50.0	48.8		ug/L		98	69 - 120
Bromoform	<0.48		50.0	49.9		ug/L		100	56 - 132
Bromomethane	<0.80		50.0	56.1		ug/L		112	40 - 152
Carbon tetrachloride	<0.38		50.0	50.8		ug/L		102	59 - 133
Chlorobenzene	<0.39		50.0	51.4		ug/L		103	70 - 120
Chloroethane	<0.51	F1	50.0	79.2	F1	ug/L		158	48 - 136
Chloroform	<0.37		50.0	49.1		ug/L		98	70 - 120
Chloromethane	<0.32		50.0	31.4		ug/L		63	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	49.9		ug/L		100	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	48.4		ug/L		97	64 - 127
Dibromochloromethane	<0.49		50.0	52.0		ug/L		104	68 - 125
Dibromomethane	<0.27		50.0	52.7		ug/L		105	70 - 120
Dichlorodifluoromethane	<0.67	* F1	50.0	13.0	F1	ug/L		26	40 - 159
Ethylbenzene	<0.18		50.0	47.8		ug/L		96	70 - 123
Hexachlorobutadiene	<0.45		50.0	45.4		ug/L		91	51 - 150
Isopropylbenzene	<0.39		50.0	51.1		ug/L		102	70 - 126
Methyl tert-butyl ether	<0.39		50.0	48.1		ug/L		96	55 - 123
Methylene Chloride	<1.6		50.0	51.6		ug/L		103	69 - 125
Naphthalene	<0.34		50.0	54.7		ug/L		109	53 - 144
n-Butylbenzene	<0.39		50.0	49.5		ug/L		99	68 - 125
N-Propylbenzene	<0.41		50.0	50.0		ug/L		100	69 - 127
p-Isopropyltoluene	<0.36		50.0	52.2		ug/L		104	70 - 125
sec-Butylbenzene	<0.40		50.0	52.0		ug/L		104	70 - 123
Styrene	<0.39		50.0	49.6		ug/L		99	70 - 120

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

Lab Sample ID: 500-178639-1 MS
Matrix: Ground Water
Analysis Batch: 532660

Client Sample ID: MW-136
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	<0.40		50.0	53.0		ug/L		106	70 - 121
Tetrachloroethene	<0.37		50.0	49.7		ug/L		99	70 - 128
Toluene	<0.15		50.0	49.7		ug/L		99	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	52.5		ug/L		105	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	47.9		ug/L		96	62 - 128
Trichloroethene	<0.16		50.0	52.9		ug/L		106	70 - 125
Trichlorofluoromethane	<0.43		50.0	43.7		ug/L		87	55 - 128
Vinyl chloride	<0.20		50.0	39.0		ug/L		78	64 - 126
Xylenes, Total	<0.22		100	92.7		ug/L		93	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane	*97*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: 500-178639-1 MSD
Matrix: Ground Water
Analysis Batch: 532660

Client Sample ID: MW-136
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46		50.0	51.7		ug/L		103	70 - 125	4	20
1,1,1-Trichloroethane	<0.38		50.0	48.2		ug/L		96	70 - 125	3	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	55.0		ug/L		110	62 - 140	1	20
1,1,2-Trichloroethane	<0.35		50.0	51.2		ug/L		102	71 - 130	2	20
1,1-Dichloroethane	<0.41		50.0	54.1		ug/L		108	70 - 125	2	20
1,1-Dichloroethene	<0.39		50.0	52.5		ug/L		105	67 - 122	1	20
1,1-Dichloropropene	<0.30		50.0	48.5		ug/L		97	70 - 121	2	20
1,2,3-Trichlorobenzene	<0.46		50.0	47.2		ug/L		94	51 - 145	4	20
1,2,3-Trichloropropane	<0.41		50.0	59.6		ug/L		119	50 - 133	2	20
1,2,4-Trichlorobenzene	<0.34		50.0	44.4		ug/L		89	57 - 137	4	20
1,2,4-Trimethylbenzene	<0.36		50.0	48.6		ug/L		97	70 - 123	3	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	52.0		ug/L		104	56 - 123	2	20
1,2-Dibromoethane	<0.39		50.0	52.2		ug/L		104	70 - 125	2	20
1,2-Dichlorobenzene	<0.33		50.0	50.8		ug/L		102	70 - 125	2	20
1,2-Dichloroethane	<0.39		50.0	50.1		ug/L		100	68 - 127	2	20
1,2-Dichloropropane	<0.43		50.0	54.3		ug/L		109	67 - 130	1	20
1,3,5-Trimethylbenzene	<0.25		50.0	49.7		ug/L		99	70 - 123	1	20
1,3-Dichlorobenzene	<0.40		50.0	49.0		ug/L		98	70 - 125	2	20
1,3-Dichloropropane	<0.36		50.0	50.4		ug/L		101	62 - 136	1	20
1,4-Dichlorobenzene	<0.36		50.0	48.2		ug/L		96	70 - 120	3	20
2,2-Dichloropropane	<0.44		50.0	46.2		ug/L		92	58 - 139	5	20
2-Chlorotoluene	<0.31		50.0	48.5		ug/L		97	70 - 125	2	20
4-Chlorotoluene	<0.35		50.0	47.8		ug/L		96	68 - 124	1	20
Benzene	0.47	J	50.0	49.1		ug/L		97	70 - 120	2	20
Bromobenzene	<0.36		50.0	50.1		ug/L		100	70 - 122	0	20
Bromochloromethane	<0.43		50.0	52.9		ug/L		106	65 - 122	3	20
Bromodichloromethane	<0.37		50.0	47.2		ug/L		94	69 - 120	3	20

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

Lab Sample ID: 500-178639-1 MSD
Matrix: Ground Water
Analysis Batch: 532660

Client Sample ID: MW-136
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	<0.48		50.0	49.1		ug/L		98	56 - 132	2	20
Bromomethane	<0.80		50.0	54.8		ug/L		110	40 - 152	2	20
Carbon tetrachloride	<0.38		50.0	49.8		ug/L		100	59 - 133	2	20
Chlorobenzene	<0.39		50.0	50.2		ug/L		100	70 - 120	2	20
Chloroethane	<0.51	F1	50.0	77.2	F1	ug/L		154	48 - 136	3	20
Chloroform	<0.37		50.0	47.9		ug/L		96	70 - 120	2	20
Chloromethane	<0.32		50.0	30.3		ug/L		61	56 - 152	3	20
cis-1,2-Dichloroethene	<0.41		50.0	48.9		ug/L		98	70 - 125	2	20
cis-1,3-Dichloropropene	<0.42		50.0	47.8		ug/L		96	64 - 127	1	20
Dibromochloromethane	<0.49		50.0	50.7		ug/L		101	68 - 125	3	20
Dibromomethane	<0.27		50.0	51.5		ug/L		103	70 - 120	2	20
Dichlorodifluoromethane	<0.67	* F1	50.0	12.5	F1	ug/L		25	40 - 159	4	20
Ethylbenzene	<0.18		50.0	46.7		ug/L		93	70 - 123	2	20
Hexachlorobutadiene	<0.45		50.0	43.0		ug/L		86	51 - 150	5	20
Isopropylbenzene	<0.39		50.0	50.3		ug/L		101	70 - 126	2	20
Methyl tert-butyl ether	<0.39		50.0	46.9		ug/L		94	55 - 123	3	20
Methylene Chloride	<1.6		50.0	50.6		ug/L		101	69 - 125	2	20
Naphthalene	<0.34		50.0	53.3		ug/L		107	53 - 144	3	20
n-Butylbenzene	<0.39		50.0	47.0		ug/L		94	68 - 125	5	20
N-Propylbenzene	<0.41		50.0	48.9		ug/L		98	69 - 127	2	20
p-Isopropyltoluene	<0.36		50.0	50.2		ug/L		100	70 - 125	4	20
sec-Butylbenzene	<0.40		50.0	50.5		ug/L		101	70 - 123	3	20
Styrene	<0.39		50.0	48.5		ug/L		97	70 - 120	2	20
tert-Butylbenzene	<0.40		50.0	52.0		ug/L		104	70 - 121	2	20
Tetrachloroethene	<0.37		50.0	48.2		ug/L		96	70 - 128	3	20
Toluene	<0.15		50.0	48.6		ug/L		97	70 - 125	2	20
trans-1,2-Dichloroethene	<0.35		50.0	51.3		ug/L		103	70 - 125	2	20
trans-1,3-Dichloropropene	<0.36		50.0	46.9		ug/L		94	62 - 128	2	20
Trichloroethene	<0.16		50.0	51.8		ug/L		104	70 - 125	2	20
Trichlorofluoromethane	<0.43		50.0	42.9		ug/L		86	55 - 128	2	20
Vinyl chloride	<0.20		50.0	38.0		ug/L		76	64 - 126	3	20
Xylenes, Total	<0.22		100	90.1		ug/L		90	70 - 125	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

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

Lab Sample ID: MB 500-532370/1-A
Matrix: Water
Analysis Batch: 532520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		03/03/20 17:20	03/04/20 19:52	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		03/03/20 17:20	03/04/20 19:52	1
Acenaphthene	<0.25		0.80	0.25	ug/L		03/03/20 17:20	03/04/20 19:52	1

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

Lab Sample ID: MB 500-532370/1-A
Matrix: Water
Analysis Batch: 532520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.21		0.80	0.21	ug/L		03/03/20 17:20	03/04/20 19:52	1
Anthracene	<0.27		0.80	0.27	ug/L		03/03/20 17:20	03/04/20 19:52	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		03/03/20 17:20	03/04/20 19:52	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		03/03/20 17:20	03/04/20 19:52	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		03/03/20 17:20	03/04/20 19:52	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		03/03/20 17:20	03/04/20 19:52	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		03/03/20 17:20	03/04/20 19:52	1
Chrysene	<0.055		0.16	0.055	ug/L		03/03/20 17:20	03/04/20 19:52	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		03/03/20 17:20	03/04/20 19:52	1
Fluoranthene	<0.36		0.80	0.36	ug/L		03/03/20 17:20	03/04/20 19:52	1
Fluorene	<0.20		0.80	0.20	ug/L		03/03/20 17:20	03/04/20 19:52	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		03/03/20 17:20	03/04/20 19:52	1
Naphthalene	<0.25		0.80	0.25	ug/L		03/03/20 17:20	03/04/20 19:52	1
Phenanthrene	<0.24		0.80	0.24	ug/L		03/03/20 17:20	03/04/20 19:52	1
Pyrene	<0.34		0.80	0.34	ug/L		03/03/20 17:20	03/04/20 19:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*34 - 110*	*03/03/20 17:20*	*03/04/20 19:52*	*1*
Nitrobenzene-d5 (Surr)	*86*		*36 - 120*	*03/03/20 17:20*	*03/04/20 19:52*	*1*
Terphenyl-d14 (Surr)	*149*	*X*	*40 - 145*	*03/03/20 17:20*	*03/04/20 19:52*	*1*

Lab Sample ID: LCS 500-532370/2-A
Matrix: Water
Analysis Batch: 532520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	32.0	18.1		ug/L		56	38 - 110
2-Methylnaphthalene	32.0	17.9		ug/L		56	34 - 110
Acenaphthene	32.0	24.0		ug/L		75	46 - 110
Acenaphthylene	32.0	24.1		ug/L		75	47 - 113
Anthracene	32.0	32.0		ug/L		100	67 - 118
Benzo[a]anthracene	32.0	30.8		ug/L		96	70 - 126
Benzo[a]pyrene	32.0	32.9		ug/L		103	70 - 135
Benzo[b]fluoranthene	32.0	31.6		ug/L		99	69 - 136
Benzo[g,h,i]perylene	32.0	33.3		ug/L		104	70 - 135
Benzo[k]fluoranthene	32.0	34.0		ug/L		106	70 - 133
Chrysene	32.0	31.3		ug/L		98	68 - 129
Dibenz(a,h)anthracene	32.0	36.5		ug/L		114	70 - 134
Fluoranthene	32.0	34.0		ug/L		106	68 - 126
Fluorene	32.0	29.3		ug/L		92	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.4		ug/L		111	65 - 133
Naphthalene	32.0	16.7		ug/L		52	36 - 110
Phenanthrene	32.0	30.9		ug/L		97	65 - 120
Pyrene	32.0	30.6		ug/L		96	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*99*		*34 - 110*
Nitrobenzene-d5 (Surr)	*96*		*36 - 120*

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

Lab Sample ID: LCS 500-532370/2-A
Matrix: Water
Analysis Batch: 532520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532370

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14 (Surr)	141		40 - 145

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

Client Sample ID: MW-136

Date Collected: 03/02/20 13:00
Date Received: 03/03/20 09:40

Lab Sample ID: 500-178639-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	532660	03/05/20 20:43	EMA	TAL CHI
Total/NA	Prep	3510C			532370	03/03/20 17:20	ACK	TAL CHI
Total/NA	Analysis	8270D		1	532441	03/04/20 19:05	DA1	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-178639-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-178639 COC

Chain of Custody Record

Lab Job #: 500-178639

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 5.9

(optional)

Report To
Contact: MIKE NOEL
Company: TETRA TECH
Address: 75 N. CARPENTER, SUITE 100
Address: BUCKLAND, WI 53045
Phone: (262) 792-1282
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME AS REPORT TO
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: TETRA TECH
Client Project #: 5000717S
Project Name: BEAVER CREEK
Project Location/State: OAK CREEK, WI
Lab Project #:
Sampler: TODD M. THOMSEN
Lab PM: SANDIE FREDRICK

Preservative: HCl | NONE

Parameter: VOC 8260B | PAH 8270D

Lab ID	MS/MSD	Sample ID	Sampling Date 20	Sampling Time	# of Containers	Matrix									
1		MW-13D	3-2	13:00	5	GW	3	2							
		* RUSH *													
		ASAP TURN-A-ROUND													

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Comments

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ASAP Other
Requested Due Date: ASAP

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TETRA TECH	3-2-20	14:50		TA	3-2-20	1450
	TA	3-2-20	1700		TA-CHI	3/3/20	0940

Lab Courier:
Shipped: Fed-X
Hand Delivered: TETRA TECH

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/6/2020

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-178639-1

Login Number: 178639
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	5.9
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	