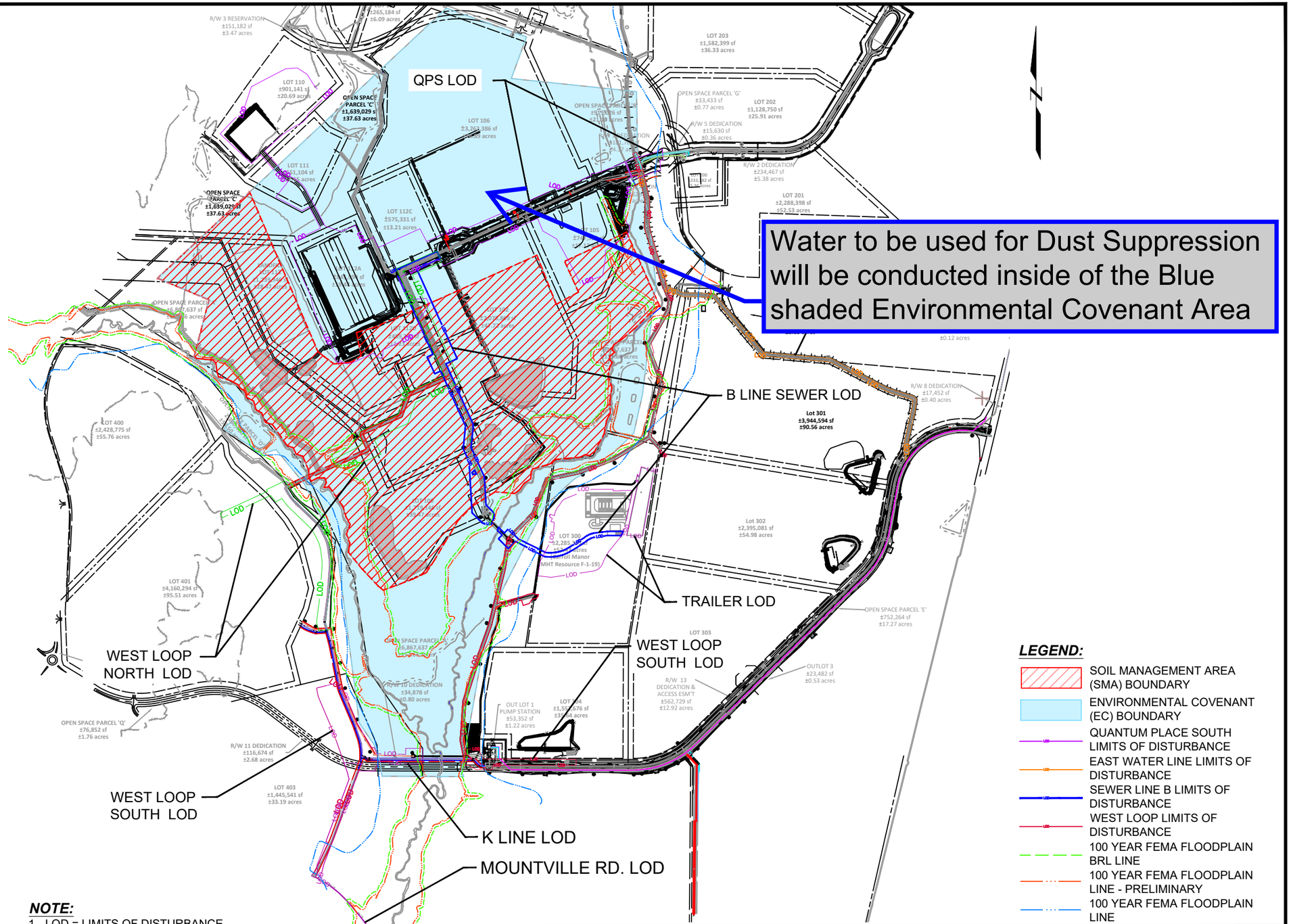

NOTE:
1. LOD = LIMITS OF DISTURBANCE.

Stormwater Pollution Prevention Plan (SWPPP) - B Line Sewer Quantum Loophole Frederick, MD	GEI Consultants	STORMWATER POLLUTION PREVENTION PLAN SITE PLAN
Quantum Maryland Austin, TX	Project 2302756	May 2024 Fig. 4

MORTON, TIMOTHY B:\Working\STRUCTURE TONE\2302756 STO Mission Critical - Frederick\00_CAD\Figures\Stormwater Pollution Prevention Plan - SWPPP\B Line Sewer - SWPPP\Fig 4_SWPPP -B Line Sewer.dwg - 6/5/2024

Ross Frac Tanks for Dust Control
R-SV222212, R-50305, R-257704
June 11 2025

Specific Method	CAS#	Matrix	Analyte	Results Basis	MD LRP Cleanup Stds_Tbl 1_GWs Aquifers_Oct2018	USEPA Aquatic_FreshWater_Acute_2024	USEPA RSLs THQ 0.1_MCLs_Nov2024	410-223726-1 QM-R-SV222212-20250522			410-224230-3 QM-R-50305-052725			410-225317-2 QM-R-257704-060325		
								Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier
8260D_LL	71-55-6	Water	1,1,1-Trichloroethane	Total	200		200	<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-34-5	Water	**1,1,2,2-Tetrachloroethane**	Total	**0.076**			**<0.10**	ug/L		**<0.10**	ug/L		**<0.10**	ug/L	
8260D_LL	79-00-5	Water	1,1,2-Trichloroethane	Total	5		5	<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8260D_LL	76-13-1	Water	1,1,2-Trichlorotrifluoroethane	Total				<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-34-3	Water	1,1-Dichloroethane	Total	2.8			<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-35-4	Water	1,1-Dichloroethene	Total	7		7	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	120-82-1	Water	1,2,4-Trichlorobenzene	Total	70		70	<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
8260D_LL	96-12-8	Water	1,2-Dibromo-3-Chloropropane	Total	0.2		0.2	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	95-50-1	Water	1,2-Dichlorobenzene	Total	600		600	<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
8260D_LL	107-06-2	Water	1,2-Dichloroethane	Total	5		5	<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-87-5	Water	1,2-Dichloropropane	Total	5		5	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	541-73-1	Water	1,3-Dichlorobenzene	Total				<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
8260D_LL	106-46-7	Water	1,4-Dichlorobenzene	Total	75		75	<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-93-3	Water	2-Butanone	Total	560			<1.0	ug/L		<1.0	ug/L		<1.0	ug/L	
8260D_LL	591-78-6	Water	2-Hexanone	Total				<2.0	ug/L		<2.0	ug/L		<2.0	ug/L	
8260D_LL	108-10-1	Water	4-Methyl-2-pentanone	Total	630			<1.0	ug/L		<1.0	ug/L		<1.0	ug/L	
8270D_SIM	83-32-9	Water	Acenaphthene	Total	53			<0.011	ug/L		<0.011	ug/L		<0.010	ug/L	
8270D_SIM	208-96-8	Water	Acenaphthylene	Total				<0.011	ug/L		<0.011	ug/L		<0.010	ug/L	
8260D_LL	67-64-1	Water	Acetone	Total	1400			<1.5	ug/L		<1.5	ug/L		**3.0**	ug/L	J
6020B	7429-90-5	Water	**Aluminum**	Total Recoverable	**2000**	**1100**		**330**	ug/L		**71**	ug/L		**48**	ug/L	
8270D_SIM	120-12-7	Water	Anthracene	Total	180			<0.011	ug/L		<0.011	ug/L		<0.010	ug/L	
6020B	7440-36-0	Water	Antimony	Total Recoverable	6		6	<0.20	ug/L		<0.20	ug/L		**0.24**	ug/L	J
6020B	7440-38-2	Water	Arsenic	Total Recoverable	10	340	10	<0.68	ug/L		<0.68	ug/L		<0.68	ug/L	
6020B	7440-39-3	Water	Barium	Total Recoverable	2000		2000	**28**	ug/L		**23**	ug/L		**21**	ug/L	
8260D_LL	71-43-2	Water	Benzene	Total	5		5	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270D_SIM	56-55-3	Water	Benzo[a]anthracene	Total	0.03			<0.011	ug/L		<0.011	ug/L		<0.010	ug/L	
8270D_SIM	50-32-8	Water	Benzo[a]pyrene	Total	0.2		0.2	<0.011	ug/L		<0.011	ug/L		<0.010	ug/L	
8270D_SIM	205-99-2	Water	Benzo[b]fluoranthene	Total	0.25			<0.051	ug/L		<0.050	ug/L		<0.049	ug/L	
8270D_SIM	191-24-2	Water	Benzo[g,h,i]perylene	Total				<0.011	ug/L		<0.011	ug/L	*1	<0.010	ug/L	
8270D_SIM	207-08-9	Water	Benzo[k]fluoranthene	Total	2.5			<0.011	ug/L		<0.011	ug/L		<0.010	ug/L	
6020B	7440-41-7	Water	Beryllium	Total Recoverable	4		4	<0.12	ug/L		<0.12	ug/L		<0.12	ug/L	
8260D_LL	75-27-4	Water	Bromodichloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-25-2	Water	Bromoform	Total	80		80	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8260D_LL	74-83-9	Water	Bromomethane	Total	0.75			<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
6020B	7440-43-9	Water	Cadmium	Total Recoverable	5	1.8	5	**0.47**	ug/L	J	<0.15	ug/L		<0.15	ug/L	
6020B	7440-70-2	Water	Calcium	Total Recoverable				**120000**	ug/L		**97000**	ug/L		**81000**	ug/L	
8260D_LL	75-15-0	Water	Carbon disulfide	Total	81			<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	56-23-5	Water	Carbon tetrachloride	Total	5		5	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	108-90-7	Water	Chlorobenzene	Total	100		100	<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
8260D_LL	75-00-3	Water	Chloroethane	Total	2100			<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	67-66-3	Water	Chloroform	Total	80		80	<0.090	ug/L		<0.090	ug/L		<0.090	ug/L	
8260D_LL	74-87-3	Water	Chloromethane	Total	19			<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
6020B	7440-47-3	Water	Chromium	Total Recoverable	100		100	**1.0**	ug/L	J	**0.96**	ug/L	J	**1.1**	ug/L	J
8270D_SIM	218-01-9	Water	Chrysene	Total	25			<0.027	ug/L		<0.026	ug/L		<0.026	ug/L	
8260D_LL	156-59-2	Water	cis-1,2-Dichloroethene	Total	70		70	**0.22**	ug/L	J	**0.082**	ug/L	J	<0.080	ug/L	
8260D_LL	10061-01-5	Water	cis-1,3-Dichloropropene	Total				<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
6020B	7440-48-4	Water	Cobalt	Total Recoverable				**0.50**	ug/L		**0.49**	ug/L	J	**0.40**	ug/L	J B
6020B	7440-50-8	Water	Copper	Total Recoverable	1300		1300	<0.85	ug/L		**1.1**	ug/L		<0.85	ug/L	
9040C	N/A	Water	Corrosivity	Total				**no**	NONE	HF	**No**	NONE	HF	**NO**	NONE	HF
1677_Free	N/A	Water	Cyanide, Free	Total	0.2	0.022	0.2	<0.0050	mg/L		<0.0050	mg/L		<0.0050	mg/L	
8260D_LL	110-82-7	Water	Cyclohexane	Total				<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270D_SIM	53-70-3	Water	Dibenz(a,h)anthracene	Total	0.025			<0.022	ug/L		<0.021	ug/L	*1	<0.021	ug/L	
8260D_LL	124-48-1	Water	Dibromochloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-71-8	Water	Dichlorodifluoromethane	Total				<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8015D_DRO	N/A	Water	**DRO (C10-C28)**	Total	**47**			<45	ug/L		<46	ug/L	*1	**<48**	ug/L	
8260D_LL	100-41-4	Water	Ethylbenzene	Total	700		700	<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8011	106-93-4	Water	Ethylene Dibromide	Total	0.05		0.05	<0.0094	ug/L		<0.0094	ug/L		<0.0095	ug/L	
8270D_SIM	206-44-0	Water	Fluoranthene	Total	80			<0.025	ug/L		<0.024	ug/L		<0.024	ug/L	
8270D_SIM	86-73-7	Water	Fluorene	Total	29			<0.011	ug/L		<0.011	ug/L		<0.010	ug/L	
300_ORGFM_28D	16984-48-8	Water	**Fluoride**	Total			**4**	**1.7**	mg/L		**3.5**	mg/L		**3.1**	mg/L	F1
8015D_GRO	N/A	Water	GRO	Total	47			<23	ug/L		<23	ug/L		<23	ug/L	
8270D_SIM	193-39-5	Water	Indeno[1,2,3-cd]pyrene	Total	0.25			<0.022	ug/L		<0.021	ug/L	*1	<0.021	ug/L	
6020B	7439-89-6	Water	**Iron**	Total Recoverable	**1400**	See Reg		**260**	ug/L		**100**	ug/L		**280**	ug/L	
8260D_LL	98-82-8	Water	Isopropylbenzene	Total	45			<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
6020B	7439-92-1	Water	Lead	Total Recoverable	15	65	10	**0.18**	ug/L	J	**0.13**	ug/L	J	<0.12	ug/L	
6020B	7439-95-4	Water	Magnesium	Total Recoverable				**22000**	ug/L		**16000**	ug/L		**12000**	ug/L	
6020B	7439-96-5	Water	**Manganese**	Total Recoverable	**43**			**300**	ug/L		**130**	ug/L		**94**	ug/L	^2
7470A	7439-97-6	Water	Mercury	Total	2	1.4	2	<0.087	ug/L		<0.087	ug/L	*+	<0.087	ug/L	
8260D_LL	79-20-9	Water	Methyl acetate	Total				<0.20	ug/L		<0.20	ug/L		<0.20	ug/L	
8260D_LL	1634-04-4	Water	Methyl tertiary butyl ether	Total	20			<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	

Ross Frac Tanks for Dust Control
R-SV222212, R-50305, R-257704
June 11 2025

Specific Method	CAS#	Matrix	Analyte	Results Basis	MD LRP Cleanup Stds_Tbl 1_GWs Aquifers_Oct2018	USEPA Aquatic_FreshWater_Acute_2024	USEPA RSLs THQ 0.1_MCLs_Nov2024	410-223726-1 QM-R-SV222212-20250522			410-224230-3 QM-R-50305-052725			410-225317-2 QM-R-257704-060325		
								Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier
8260D_LL	108-87-2	Water	Methylcyclohexane	Total				<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-09-2	Water	Methylene Chloride	Total	5		5	<0.20	ug/L		<0.20	ug/L		<0.20	ug/L	
8270D_SIM	91-20-3	Water	**Naphthalene**	Total	**0.17**			**0.60**	ug/L	B *+	<0.072	ug/L		<0.070	ug/L	
6020B	7440-02-0	Water	Nickel	Total Recoverable	39	470		**1.1**	ug/L		**1.0**	ug/L		**0.97**	ug/L	J
8082A_LL	12674-11-2	Water	PCB-1016	Total	0.14	0.014*	0.5**	<0.0077	ug/L		<0.0078	ug/L		<0.0081	ug/L	
8082A_LL	11104-28-2	Water	**PCB-1221**	Total	**0.0047**	0.014*	0.5**	**<0.0077**	ug/L		**<0.0078**	ug/L		**<0.0081**	ug/L	
8082A_LL	11141-16-5	Water	**PCB-1232**	Total	**0.0047**	0.014*	0.5**	**<0.0077**	ug/L		**<0.0078**	ug/L		**<0.0081**	ug/L	
8082A_LL	53469-21-9	Water	**PCB-1242**	Total	**0.0078**	0.014*	0.5**	<0.0077	ug/L		<0.0078	ug/L		**<0.0081**	ug/L	
8082A_LL	12672-29-6	Water	**PCB-1248**	Total	**0.0078**	0.014*	0.5**	<0.0077	ug/L		<0.0078	ug/L		**<0.0081**	ug/L	
8082A_LL	11097-69-1	Water	PCB-1254	Total	0.0078	0.014*	0.5**	<0.0048	ug/L		<0.0049	ug/L		<0.0050	ug/L	
8082A_LL	11096-82-5	Water	PCB-1260	Total	0.0078	0.014*	0.5**	<0.0048	ug/L		<0.0049	ug/L		<0.0050	ug/L	
9040C	N/A	Water	pH	Total		See Reg		**6.9**	S.U.	HF	**7.8**	S.U.	HF	**7.8**	S.U.	HF
8270D_SIM	85-01-8	Water	Phenanthrene	Total	12			<0.033	ug/L		<0.032	ug/L		<0.031	ug/L	
Total_PCB	1336-36-3	Water	Polychlorinated biphenyls, Total	Total	0.5		0.5	<0.0077	ug/L		<0.0078	ug/L		<0.0081	ug/L	
6020B	7440-09-7	Water	Potassium	Total Recoverable				**3000**	ug/L		**3900**	ug/L		**4200**	ug/L	
8270D_SIM	129-00-0	Water	Pyrene	Total	12			<0.023	ug/L		<0.022	ug/L		<0.022	ug/L	
6020B	7782-49-2	Water	Selenium	Total Recoverable	50	See Reg	50	**0.77**	ug/L	J	**0.72**	ug/L	J	**0.93**	ug/L	J
6020B	7440-22-4	Water	Silver	Total Recoverable	9.4	3.2		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
6020B	7440-23-5	Water	Sodium	Total Recoverable				**110000**	ug/L		**95000**	ug/L		**86000**	ug/L	^2
8260D_LL	100-42-5	Water	Styrene	Total	100		100	<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
9040C	N/A	Water	Temperature	Total				**21.5**	Degrees C	HF	**20.1**	Degrees C	HF	**20.9**	Degrees C	HF
8260D_LL	127-18-4	Water	Tetrachloroethene	Total	5		5	**0.95**	ug/L		**0.46**	ug/L	J	**0.38**	ug/L	J
6020B	7440-28-0	Water	Thallium	Total Recoverable	2		2	<0.13	ug/L		<0.13	ug/L		<0.13	ug/L	
8260D_LL	108-88-3	Water	Toluene	Total	1000		1000	<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8260D_LL	156-60-5	Water	trans-1,2-Dichloroethene	Total	100		100	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	10061-02-6	Water	trans-1,3-Dichloropropene	Total				<0.080	ug/L		<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-01-6	Water	Trichloroethene	Total	5		5	**0.51**	ug/L		**0.23**	ug/L	J	**0.19**	ug/L	J
8260D_LL	75-69-4	Water	Trichlorofluoromethane	Total				<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
6020B	7440-62-2	Water	Vanadium	Total Recoverable	8.6			<0.79	ug/L		<0.79	ug/L		<0.79	ug/L	
8260D_LL	75-01-4	Water	Vinyl chloride	Total	2		2	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8260D_LL	1330-20-7	Water	Xylenes, Total	Total	10000		10000	<0.070	ug/L		<0.070	ug/L		<0.070	ug/L	
6020B	7440-66-6	Water	**Zinc**	Total Recoverable	600	**120**		**25**	ug/L		**170**	ug/L		**36**	ug/L	

*0.014 ug/L is the aquatic life - chronic criteria for Total PCBs
**0.5 ug/L is the drinking water MCL for Total PCBs.
Results first compared to MCLs, then AWQCFA and MD LRP Cleanup Criteria if MCLs are not available.
Per the soil management plan, free cyanide would also be compared to the chronic AWQ criteria of 0.0052 ug/L, if discharging directly to surface water.
This table presents combined standards as specified by both MDE LMA and WSA. For LMA, results are compared to MCL and where there is no MCL to GWCS. For WSA, results are compared to lower of MCL and acute FW.
Orange shaded cells indicates exceedance of one or more criteria
Gray shaded cells indicate non-detections where the laboratory reporting limit is greater than the MDGW standard where the MDGW standard is the only standard available.
MDGW - Maryland Groundwater Cleanup Standards
MCL - Maryland state (or federal) maximum contaminat level (MCL) for drinking water
NC- no criteria available for the given analyte.
U - not detected at a concentration above laboratory detection limits.
HF - sample was analyzed outside of holding time at contractor's request.
J - estimated concentration; concentration is greater than the MDL but less than the RL.
B - possible laboratory blank bias; analye found in the laboratory blank and in the sample.
for the noted analytes were recovered above the upper control limit. This affected the non-detect results.
*1 - LCS/LCSD exceeds allowable Relative percent difference

EPA Identification Number	NPDES Permit Number	Facility Name
		Quantum Frederick

OMB No. 2040-0004
Expires 07/31/2026

Form 2C NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
QM-R-50305	Ground surface in EC	Multiple - see map	Multiple - see map

SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☐ Yes

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** R-50305

Operations Contributing to Flow

Operation	Average Flow
Quantum Place South EMP-2	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** R-50305

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☑ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))

Intermittent Flows

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))

Applicable ELGs

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation

Production-Based Limitations

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure

5.5 Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements

6.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No ➔ SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

6.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? *(optional item)*

☐ Yes ☐ No ☑ Not applicable

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Pollutants

7.1 Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.

Outfall number _____ Outfall number _____ Outfall number _____

☐ I am requesting a waiver for some pollutants at all outfalls.

☐ I am requesting a waiver for all pollutants at all outfalls ➔ SKIP to Item 7.4.

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☐ Yes

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C–3? (See end of instructions for exhibit.)

☐ Yes ☑ No ➔ SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ Yes

Effluent and Intake Characteristics Continued

7.6 List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C–3.

Primary Industry Category	Required GC/MS Fraction(s) (check applicable boxes)
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide

7.7 Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6?

☐ Yes

7.8 Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required?

☐ Yes

7.9 Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge?

☐ Yes

7.10 Does the applicant qualify for a small business exemption under the criteria specified in the instructions?

☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No

7.11 Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge?

☑ Yes

Table C. Certain Conventional and Non-Conventional Pollutants

7.12 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls?

☑ Yes

7.13 Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent."

☐ Yes ☑ Not applicable

7.14 Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"?

☑ Yes

Table D. Certain Hazardous Substances and Asbestos

7.15 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls?

☑ Yes

7.16 Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available?

☑ Yes ☐ No

Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)

7.17 Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent?

☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.

7.18 Have you completed Table E by reporting *qualitative* data for TCDD?

☐ Yes

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics

8.1 Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct?

☐ Yes ☑ No ➔ SKIP to Section 9.

8.2 List the pollutants below. Attach additional sheets, if necessary.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge?

☐ Yes ☑ No ➔ SKIP to Section 10.

9.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 11.

10.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
Laboratory address	2425 New Holland Pike, Lancaster, PA		
Phone number	(412) 525-0071		
Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))

Additional Information

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No ➔ SKIP to Section 12.

11.2 List the information requested and attach it to this application.

1.	4.
2.	5.
3.	6.

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

Checklist and Certification Statement

12.1 In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2	
☑ Section 1: Outfall Location	☑ w/ attachments	
☐ Section 2: Line Drawing	☐ w/ line drawing	☐ w/ additional attachments
☐ Section 3: Average Flows and Treatment	☐ w/ attachments	☐ w/ list of each user of privately owned treatment works
☐ Section 4: Intermittent Flows	☐ w/ attachments	
☐ Section 5: Production	☐ w/ attachments	
☐ Section 6: Improvements	☐ w/ attachments	☐ w/ optional additional sheets describing any additional pollution control plans
☑ Section 7: Effluent and Intake Characteristics	☑ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☑ w/ Table A ☑ w/ Table C ☑ w/ Table E	☐ w/ explanation for identical outfalls ☐ w/ other attachments ☑ w/ Table B ☑ w/ Table D ☑ w/ analytical results as an attachment
☐ Section 8: Used or Manufactured Toxics	☐ w/ attachments	
☐ Section 9: Biological Toxicity Tests	☐ w/ attachments	
☑ Section 10: Contract Analyses	☐ w/ attachments	
☐ Section 11: Additional Information	☐ w/ attachments	
☑ Section 12: Checklist and Certification Statement	☐ w/ attachments	

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement

12.2 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (print or type first and last name)	Official title
Joshua Mullis	Project Manager
Signature	Date signed
	6/11/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-50305

OMB No. 2040-0004
Expires 07/31/2026

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) [1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent				Intake (optional)	
					Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☑	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration							
			Mass							
2.	Chemical oxygen demand (COD)	☐	Concentration							
			Mass							
3.	Total organic carbon (TOC)	☐	Concentration							
			Mass							
4.	Total suspended solids (TSS)	☐	Concentration							
			Mass							
5.	Ammonia (as N)	☐	Concentration							
			Mass							
6.	Flow	☐	Rate							
7.	Temperature (winter)	☐	°C	°C						
	Temperature (summer)	☑	°C	°C	20.1					
8.	pH (minimum)	☑	Standard units	s.u.	7.8					
	pH (maximum)	☑	Standard units	s.u.	7.8					

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-50305

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	☐	☐	☑	Concentration	ug/L	0.20 U					
					Mass							
1.2	Arsenic, total (7440-38-2)	☐	☐	☑	Concentration	ug/L	0.68 U					
					Mass							
1.3	Beryllium, total (7440-41-7)	☐	☐	☑	Concentration	ug/L	< 0.12 U					
					Mass							
1.4	Cadmium, total (7440-43-9)	☑	☐	☑	Concentration	ug/L	0.15 U					
					Mass							
1.5	Chromium, total (7440-47-3)	☑	☑	☐	Concentration	ug/L	0.96 J					
					Mass							
1.6	Copper, total (7440-50-8)	☐	☑	☐	Concentration	ug/L	1.1					
					Mass							
1.7	Lead, total (7439-92-1)	☑	☑	☐	Concentration	ug/L	0.13					
					Mass							
1.8	Mercury, total (7439-97-6)	☐	☐	☑	Concentration	ug/L	< 0.087 U					
					Mass							
1.9	Nickel, total (7440-02-0)	☑	☑	☐	Concentration	ug/L	1.0					
					Mass							
1.10	Selenium, total (7782-49-2)	☐	☑	☐	Concentration	ug/L	0.72					
					Mass							
1.11	Silver, total (7440-22-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☐	☐	☑	Concentration	ug/L	< 0.13 U					
					Mass							
1.13	Zinc, total (7440-66-6)	☐	☑	☐	Concentration	ug/L	170					
					Mass							
1.14	Cyanide, total (57-12-5)	☑	☐	☑	Concentration	mg/L	< 0.005 U	free cyanide				
					Mass							
1.15	Phenols, total	☐	☐	☑	Concentration							
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☐	☐	☑	Concentration							
					Mass							
2.2	Acrylonitrile (107-13-1)	☐	☐	☑	Concentration							
					Mass							
2.3	Benzene (71-43-2)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.4	Bromoform (75-25-2)	☐	☐	☑	Concentration							
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.6	Chlorobenzene (108-90-7)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☐	☐	☑	Concentration							
					Mass							
2.8	Chloroethane (75-00-3)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☐	☐	☑	Concentration							
					Mass							
2.10	Chloroform (67-66-3)	☐	☐	☑	Concentration	ug/L	< 0.09 U					
					Mass							
2.11	Dichlorobromomethane (75-27-4)	☐	☐	☑	Concentration							
					Mass							
2.12	1,1-dichloroethane (75-34-3)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.13	1,2-dichloroethane (107-06-2)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.15	1,2-dichloropropane (78-87-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	☐	☐	☑	Concentration							
					Mass							
2.17	Ethylbenzene (100-41-4)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.18	Methyl bromide (74-83-9)	☐	☐	☑	Concentration							
					Mass							
2.19	Methyl chloride (74-87-3)	☐	☐	☑	Concentration							
					Mass							
2.20	Methylene chloride (75-09-2)	☐	☐	☑	Concentration	ug/L	< 0.2 U					
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☑	☑	☐	Concentration	ug/L	0.46					
					Mass							
2.23	Toluene (108-88-3)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	☐	☐	☑	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.27	Trichloroethylene (79-01-6)	☐	☐	☑	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☐	☐	☑	Concentration							
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	☐	☐	☑	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	☐	☐	☑	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	☐	☐	☑	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☐	☐	☑	Concentration							
					Mass							
3.7	4-nitrophenol (100-02-7)	☐	☐	☑	Concentration							
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	☐	☐	☑	Concentration							
					Mass							
3.9	Pentachlorophenol (87-86-5)	☐	☐	☑	Concentration							
					Mass							
3.10	Phenol (108-95-2)	☐	☐	☑	Concentration							
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	☐	☐	☑	Concentration							
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.2	Acenaphthylene (208-96-8)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.3	Anthracene (120-12-7)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.4	Benzidine (92-87-5)	☐	☐	☑	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☐	☐	☑	Concentration							
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☐	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☑	Concentration							
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☑	Concentration							
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☑	Concentration							
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☑	Concentration							
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☑	Concentration							
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	☐	☐	☑	Concentration							
					Mass							
4.16	2-chloronaphthalene (91-58-7)	☐	☐	☑	Concentration							
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☑	Concentration							
					Mass							
4.18	Chrysene (218-01-9)	☑	☐	☑	Concentration	ug/L	< 0.026 U					
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☑	Concentration	ug/L	< 0.021 U					
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☑	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	☐	☐	☑	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☑	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☑	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☑	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☑	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☑	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☑	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	☐	☐	☑	Concentration	ug/L	< 0.024 U					
					Mass							
4.32	Fluorene (86-73-7)	☐	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☐	☐	☑	Concentration							
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☐	☐	☑	Concentration							
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☑	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	☐	☐	☑	Concentration							
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☑	Concentration	ug/L	< 0.021 U					
					Mass							
4.38	Isophorone (78-59-1)	☐	☐	☑	Concentration							
					Mass							
4.39	Naphthalene (91-20-3)	☑	☐	☑	Concentration	ug/L	0.072 U					
					Mass							
4.40	Nitrobenzene (98-95-3)	☐	☐	☑	Concentration							
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☐	☐	☑	Concentration							
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☑	Concentration							
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	☑	Concentration							
					Mass							
4.44	Phenanthrene (85-01-8)	☐	☐	☑	Concentration	ug/L	< 0.032 U					
					Mass							
4.45	Pyrene (129-00-0)	☐	☐	☑	Concentration	ug/L	< 0.022 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☐	☐	☑	Concentration							
					Mass							
5.2	α-BHC (319-84-6)	☐	☐	☑	Concentration							
					Mass							
5.3	β-BHC (319-85-7)	☐	☐	☑	Concentration							
					Mass							
5.4	γ-BHC (58-89-9)	☐	☐	☑	Concentration							
					Mass							
5.5	δ-BHC (319-86-8)	☐	☐	☑	Concentration							
					Mass							
5.6	Chlordane (57-74-9)	☐	☐	☑	Concentration							
					Mass							
5.7	4,4'-DDT (50-29-3)	☐	☐	☑	Concentration							
					Mass							
5.8	4,4'-DDE (72-55-9)	☐	☐	☑	Concentration							
					Mass							
5.9	4,4'-DDD (72-54-8)	☐	☐	☑	Concentration							
					Mass							
5.10	Dieldrin (60-57-1)	☐	☐	☑	Concentration							
					Mass							
5.11	α-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☑	Concentration							
					Mass							
5.14	Endrin (72-20-8)	☐	☐	☑	Concentration							
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☑	Concentration							
					Mass							
5.16	Heptachlor (76-44-8)	☐	☐	☑	Concentration							
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☑	Concentration							
					Mass							
5.18	PCB-1242 (53469-21-9)	☑	☐	☑	Concentration	ug/L	< 0.0078 U					
					Mass							
5.19	PCB-1254 (11097-69-1)	☑	☐	☑	Concentration	ug/L	< 0.0049 U					
					Mass							
5.20	PCB-1221 (11104-28-2)	☑	☐	☑	Concentration	ug/L	< 0.0078 U					
					Mass							
5.21	PCB-1232 (11141-16-5)	☑	☐	☑	Concentration	ug/L	< 0.0078 U					
					Mass							
5.22	PCB-1248 (12672-29-6)	☑	☐	☑	Concentration	ug/L	< 0.0078 U					
					Mass							
5.23	PCB-1260 (11096-82-5)	☑	☐	☑	Concentration	ug/L	< 0.0049 U					
					Mass							
5.24	PCB-1016 (12674-11-2)	☑	☐	☑	Concentration	ug/L	< 0.0078 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☑	Concentration							
					Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you believe all pollutants in Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
☐	Check here if you believe all pollutants in Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
1.	Bromide (24959-67-9)	☐	☑	Concentration							
				Mass							
2.	Chlorine, total residual	☐	☑	Concentration							
				Mass							
3.	Color	☐	☑	Concentration							
				Mass							
4.	Fecal coliform	☐	☑	Concentration							
				Mass							
5.	Fluoride (16984-48-8)	☑	☐	Concentration	mg/L	3.5					
				Mass							
6	Nitrate-nitrite	☐	☑	Concentration							
				Mass							
7.	Nitrogen, total organic (as N)	☐	☑	Concentration							
				Mass							
8.	Oil and grease	☐	☑	Concentration							
				Mass							
9.	Phosphorus (as P), total (7723-14-0)	☐	☑	Concentration							
				Mass							
10.	Sulfate (as SO_4) (14808-79-8)	☐	☑	Concentration							
				Mass							
11.	Sulfide (as S)	☐	☑	Concentration							
				Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO_3) (14265-45-3)	☐	☑	Concentration							
				Mass							
13.	Surfactants	☐	☑	Concentration							
				Mass							
14.	Aluminum, total (7429-90-5)	☑	☐	Concentration	ug/L	71					
				Mass							
15.	Barium, total (7440-39-3)	☑	☐	Concentration	ug/L	23					
				Mass							
16.	Boron, total (7440-42-8)	☐	☑	Concentration							
				Mass							
17.	Cobalt, total (7440-48-4)	☑	☐	Concentration	ug/L	0.49					
				Mass							
18.	Iron, total (7439-89-6)	☑	☐	Concentration	ug/L	100					
				Mass							
19.	Magnesium, total (7439-95-4)	☑	☐	Concentration	ug/L	16000					
				Mass							
20.	Molybdenum, total (7439-98-7)	☐	☑	Concentration							
				Mass							
21.	Manganese, total (7439-96-5)	☑	☐	Concentration	ug/L	130					
				Mass							
22.	Tin, total (7440-31-5)	☐	☑	Concentration							
				Mass							
23.	Titanium, total (7440-32-6)	☐	☑	Concentration							
				Mass							

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24.	**Radioactivity**										
	Alpha, total	☐	☑	Concentration							
				Mass							
	Beta, total	☐	☑	Concentration							
				Mass							
	Radium, total	☐	☑	Concentration							
				Mass							
	Radium 226, total	☐	☑	Concentration							
				Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		0.1 ug/L U

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic acid	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		< 0.07 ug/L U
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		
76.	Vanadium	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		
79.	Xylenol	☐	☑		
80.	Zirconium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☑	

EPA Identification Number	NPDES Permit Number	Facility Name
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Form 2C NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
QM-R-257704	Ground surface in EC	Multiple - see map	Multiple - see map

SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☐ Yes

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** R-257704

Operations Contributing to Flow

Operation	Average Flow
Quantum Place South EMP-2	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☑ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))

Intermittent Flows

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))

Applicable ELGs

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation

Production-Based Limitations

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure

5.5 Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements

6.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No ➔ SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

6.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? *(optional item)*

☐ Yes ☐ No ☑ Not applicable

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Pollutants

7.1 Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.

Outfall number _____ Outfall number _____ Outfall number _____

☐ I am requesting a waiver for some pollutants at all outfalls.

☐ I am requesting a waiver for all pollutants at all outfalls ➔ SKIP to Item 7.4.

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☐ Yes

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C–3? (See end of instructions for exhibit.)

☐ Yes ☑ No ➔ SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ Yes

Effluent and Intake Characteristics Continued

7.6 List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C–3.

Primary Industry Category	Required GC/MS Fraction(s) (check applicable boxes)
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide

7.7 Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6?

☐ Yes

7.8 Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required?

☐ Yes

7.9 Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge?

☐ Yes

7.10 Does the applicant qualify for a small business exemption under the criteria specified in the instructions?

☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No

7.11 Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge?

☑ Yes

Table C. Certain Conventional and Non-Conventional Pollutants

7.12 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls?

☑ Yes

7.13 Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent."

☐ Yes ☑ Not applicable

7.14 Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"?

☑ Yes

Table D. Certain Hazardous Substances and Asbestos

7.15 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls?

☑ Yes

7.16 Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available?

☑ Yes ☐ No

Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)

7.17 Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent?

☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.

7.18 Have you completed Table E by reporting *qualitative* data for TCDD?

☐ Yes

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics

8.1 Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct?

☐ Yes ☑ No ➔ SKIP to Section 9.

8.2 List the pollutants below. Attach additional sheets, if necessary.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge?

☐ Yes ☑ No ➔ SKIP to Section 10.

9.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 11.

10.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
Laboratory address	2425 New Holland Pike, Lancaster, PA		
Phone number	(412) 525-0071		
Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))

Additional Information

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No ➔ SKIP to Section 12.

11.2 List the information requested and attach it to this application.

1.	4.
2.	5.
3.	6.

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

Checklist and Certification Statement

12.1 In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2	
☑ Section 1: Outfall Location	☑ w/ attachments	
☐ Section 2: Line Drawing	☐ w/ line drawing	☐ w/ additional attachments
☐ Section 3: Average Flows and Treatment	☐ w/ attachments	☐ w/ list of each user of privately owned treatment works
☐ Section 4: Intermittent Flows	☐ w/ attachments	
☐ Section 5: Production	☐ w/ attachments	
☐ Section 6: Improvements	☐ w/ attachments	☐ w/ optional additional sheets describing any additional pollution control plans
☑ Section 7: Effluent and Intake Characteristics	☑ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☑ w/ Table A ☑ w/ Table C ☑ w/ Table E	☐ w/ explanation for identical outfalls ☐ w/ other attachments ☑ w/ Table B ☑ w/ Table D ☑ w/ analytical results as an attachment
☐ Section 8: Used or Manufactured Toxics	☐ w/ attachments	
☐ Section 9: Biological Toxicity Tests	☐ w/ attachments	
☑ Section 10: Contract Analyses	☐ w/ attachments	
☐ Section 11: Additional Information	☐ w/ attachments	
☑ Section 12: Checklist and Certification Statement	☐ w/ attachments	

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement

12.2 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (print or type first and last name)	Official title
Joshua Mullis	Project Manager
Signature	Date signed
	6/11/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-257704

OMB No. 2040-0004
Expires 07/31/2026

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) [1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent				Intake (optional)	
					Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☑	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration							
			Mass							
2.	Chemical oxygen demand (COD)	☐	Concentration							
			Mass							
3.	Total organic carbon (TOC)	☐	Concentration							
			Mass							
4.	Total suspended solids (TSS)	☐	Concentration							
			Mass							
5.	Ammonia (as N)	☐	Concentration							
			Mass							
6.	Flow	☐	Rate							
7.	Temperature (winter)	☐	°C	°C						
	Temperature (summer)	☑	°C	°C	20.9					
8.	pH (minimum)	☑	Standard units	s.u.	7.8					
	pH (maximum)	☑	Standard units	s.u.	7.8					

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	☐	☐	☑	Concentration	ug/L	0.24 J					
					Mass							
1.2	Arsenic, total (7440-38-2)	☐	☐	☑	Concentration	ug/L	0.68 U					
					Mass							
1.3	Beryllium, total (7440-41-7)	☐	☐	☑	Concentration	ug/L	< 0.12 U					
					Mass							
1.4	Cadmium, total (7440-43-9)	☑	☐	☑	Concentration	ug/L	< 0.15 U					
					Mass							
1.5	Chromium, total (7440-47-3)	☑	☑	☐	Concentration	ug/L	1.1					
					Mass							
1.6	Copper, total (7440-50-8)	☐	☐	☑	Concentration	ug/L	0.85 U					
					Mass							
1.7	Lead, total (7439-92-1)	☑	☐	☑	Concentration	ug/L	<0.12 U					
					Mass							
1.8	Mercury, total (7439-97-6)	☐	☐	☑	Concentration	ug/L	< 0.087 U					
					Mass							
1.9	Nickel, total (7440-02-0)	☑	☑	☐	Concentration	ug/L	0.97					
					Mass							
1.10	Selenium, total (7782-49-2)	☐	☑	☐	Concentration	ug/L	0.93 J					
					Mass							
1.11	Silver, total (7440-22-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☐	☐	☑	Concentration	ug/L	< 0.13 U					
					Mass							
1.13	Zinc, total (7440-66-6)	☐	☑	☐	Concentration	ug/L	36.0					
					Mass							
1.14	Cyanide, total (57-12-5)	☑	☐	☑	Concentration	mg/L	< 0.005 U	free cyanide				
					Mass							
1.15	Phenols, total	☐	☐	☑	Concentration							
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☐	☐	☑	Concentration							
					Mass							
2.2	Acrylonitrile (107-13-1)	☐	☐	☑	Concentration							
					Mass							
2.3	Benzene (71-43-2)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.4	Bromoform (75-25-2)	☐	☐	☑	Concentration							
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.6	Chlorobenzene (108-90-7)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☐	☐	☑	Concentration							
					Mass							
2.8	Chloroethane (75-00-3)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☐	☐	☑	Concentration							
					Mass							
2.10	Chloroform (67-66-3)	☐	☐	☑	Concentration	ug/L	< 0.09 U					
					Mass							
2.11	Dichlorobromomethane (75-27-4)	☐	☐	☑	Concentration							
					Mass							
2.12	1,1-dichloroethane (75-34-3)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.13	1,2-dichloroethane (107-06-2)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.15	1,2-dichloropropane (78-87-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	☐	☐	☑	Concentration							
					Mass							
2.17	Ethylbenzene (100-41-4)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.18	Methyl bromide (74-83-9)	☐	☐	☑	Concentration							
					Mass							
2.19	Methyl chloride (74-87-3)	☐	☐	☑	Concentration							
					Mass							
2.20	Methylene chloride (75-09-2)	☐	☐	☑	Concentration	ug/L	< 0.2 U					
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☑	☑	☐	Concentration		0.38 J					
					Mass							
2.23	Toluene (108-88-3)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	☐	☐	☑	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.27	Trichloroethylene (79-01-6)	☐	☐	☑	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☐	☐	☑	Concentration							
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	☐	☐	☑	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	☐	☐	☑	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	☐	☐	☑	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☐	☐	☑	Concentration							
					Mass							
3.7	4-nitrophenol (100-02-7)	☐	☐	☑	Concentration							
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	☐	☐	☑	Concentration							
					Mass							
3.9	Pentachlorophenol (87-86-5)	☐	☐	☑	Concentration							
					Mass							
3.10	Phenol (108-95-2)	☐	☐	☑	Concentration							
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	☐	☐	☑	Concentration							
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	☑	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							
4.2	Acenaphthylene (208-96-8)	☑	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							
4.3	Anthracene (120-12-7)	☑	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							
4.4	Benzidine (92-87-5)	☐	☐	☑	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	☑	☐	☐	Concentration	ug/L	< 0.01 U					
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	☑	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☐	☐	☑	Concentration							
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☐	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☑	Concentration							
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☑	Concentration							
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☑	Concentration							
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☑	Concentration							
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☑	Concentration							
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	☐	☐	☑	Concentration							
					Mass							
4.16	2-chloronaphthalene (91-58-7)	☐	☐	☑	Concentration							
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☑	Concentration							
					Mass							
4.18	Chrysene (218-01-9)	☑	☐	☑	Concentration	ug/L	< 0.026 U					
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☑	Concentration	ug/L	< 0.021 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☑	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	☐	☐	☑	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☑	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☑	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☑	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☑	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☑	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☑	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	☐	☐	☑	Concentration	ug/L	< 0.024 U					
					Mass							
4.32	Fluorene (86-73-7)	☐	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☐	☐	☑	Concentration							
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☐	☐	☑	Concentration							
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☑	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	☐	☐	☑	Concentration							
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☑	Concentration	ug/L	< 0.021 U					
					Mass							
4.38	Isophorone (78-59-1)	☐	☐	☑	Concentration							
					Mass							
4.39	Naphthalene (91-20-3)	☑	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.40	Nitrobenzene (98-95-3)	☐	☐	☑	Concentration							
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☐	☐	☑	Concentration							
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☑	Concentration							
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	☑	Concentration							
					Mass							
4.44	Phenanthrene (85-01-8)	☐	☐	☑	Concentration	ug/L	< 0.031 U					
					Mass							
4.45	Pyrene (129-00-0)	☐	☐	☑	Concentration	ug/L	< 0.022 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☐	☐	☑	Concentration							
					Mass							
5.2	α-BHC (319-84-6)	☐	☐	☑	Concentration							
					Mass							
5.3	β-BHC (319-85-7)	☐	☐	☑	Concentration							
					Mass							
5.4	γ-BHC (58-89-9)	☐	☐	☑	Concentration							
					Mass							
5.5	δ-BHC (319-86-8)	☐	☐	☑	Concentration							
					Mass							
5.6	Chlordane (57-74-9)	☐	☐	☑	Concentration							
					Mass							
5.7	4,4'-DDT (50-29-3)	☐	☐	☑	Concentration							
					Mass							
5.8	4,4'-DDE (72-55-9)	☐	☐	☑	Concentration							
					Mass							
5.9	4,4'-DDD (72-54-8)	☐	☐	☑	Concentration							
					Mass							
5.10	Dieldrin (60-57-1)	☐	☐	☑	Concentration							
					Mass							
5.11	α-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☑	Concentration							
					Mass							
5.14	Endrin (72-20-8)	☐	☐	☑	Concentration							
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☑	Concentration							
					Mass							
5.16	Heptachlor (76-44-8)	☐	☐	☑	Concentration							
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☑	Concentration							
					Mass							
5.18	PCB-1242 (53469-21-9)	☑	☐	☑	Concentration	ug/L	< 0.0081 U					
					Mass							
5.19	PCB-1254 (11097-69-1)	☑	☐	☑	Concentration	ug/L	< 0.0081 U					
					Mass							
5.20	PCB-1221 (11104-28-2)	☑	☐	☑	Concentration	ug/L	< 0.0081 U					
					Mass							
5.21	PCB-1232 (11141-16-5)	☑	☐	☑	Concentration	ug/L	< 0.0081 U					
					Mass							
5.22	PCB-1248 (12672-29-6)	☑	☐	☑	Concentration	ug/L	< 0.0081 U					
					Mass							
5.23	PCB-1260 (11096-82-5)	☑	☐	☑	Concentration	ug/L	< 0.0081 U					
					Mass							
5.24	PCB-1016 (12674-11-2)	☑	☐	☑	Concentration	ug/L	< 0.0081 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☑	Concentration							
					Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you believe all pollutants in Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
☐	Check here if you believe all pollutants in Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
1.	Bromide (24959-67-9)	☐	☑	Concentration							
				Mass							
2.	Chlorine, total residual	☐	☑	Concentration							
				Mass							
3.	Color	☐	☑	Concentration							
				Mass							
4.	Fecal coliform	☐	☑	Concentration							
				Mass							
5.	Fluoride (16984-48-8)	☑	☐	Concentration	mg/L	3.1					
				Mass							
6	Nitrate-nitrite	☐	☑	Concentration							
				Mass							
7.	Nitrogen, total organic (as N)	☐	☑	Concentration							
				Mass							
8.	Oil and grease	☐	☑	Concentration							
				Mass							
9.	Phosphorus (as P), total (7723-14-0)	☐	☑	Concentration							
				Mass							
10.	Sulfate (as SO_4) (14808-79-8)	☐	☑	Concentration							
				Mass							
11.	Sulfide (as S)	☐	☑	Concentration							
				Mass							

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO_3) (14265-45-3)	☐	☑	Concentration							
				Mass							
13.	Surfactants	☐	☑	Concentration							
				Mass							
14.	Aluminum, total (7429-90-5)	☑	☐	Concentration	ug/L	48					
				Mass							
15.	Barium, total (7440-39-3)	☑	☐	Concentration	ug/L	21					
				Mass							
16.	Boron, total (7440-42-8)	☐	☑	Concentration							
				Mass							
17.	Cobalt, total (7440-48-4)	☑	☐	Concentration	ug/L	0.40 J					
				Mass							
18.	Iron, total (7439-89-6)	☑	☐	Concentration	ug/L	280					
				Mass							
19.	Magnesium, total (7439-95-4)	☑	☐	Concentration	ug/L	12000					
				Mass							
20.	Molybdenum, total (7439-98-7)	☐	☑	Concentration							
				Mass							
21.	Manganese, total (7439-96-5)	☑	☐	Concentration	ug/L	94					
				Mass							
22.	Tin, total (7440-31-5)	☐	☑	Concentration							
				Mass							
23.	Titanium, total (7440-32-6)	☐	☑	Concentration							
				Mass							

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24.	**Radioactivity**										
	Alpha, total	☐	☑	Concentration							
				Mass							
	Beta, total	☐	☑	Concentration							
				Mass							
	Radium, total	☐	☑	Concentration							
				Mass							
	Radium 226, total	☐	☑	Concentration							
				Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		0.1 ug/L U

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic acid	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		< 0.07 ug/L U
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		
76.	Vanadium	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		
79.	Xylenol	☐	☑		
80.	Zirconium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☑	

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Form 2C NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
R-SV222212	Ground surface in EC	Multiple - see map	Multiple - see map

SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☐ Yes

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** R-SV222212

Operations Contributing to Flow

Operation	Average Flow
Quantum Place South EMP-2	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☑ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))

Intermittent Flows

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))

Applicable ELGs

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation

Production-Based Limitations

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure

5.5 Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements

6.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No ➔ SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

6.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? *(optional item)*

☐ Yes ☐ No ☑ Not applicable

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Pollutants

7.1 Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.

Outfall number _____ Outfall number _____ Outfall number _____

☐ I am requesting a waiver for some pollutants at all outfalls.

☐ I am requesting a waiver for all pollutants at all outfalls ➔ SKIP to Item 7.4.

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☐ Yes

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C–3? (See end of instructions for exhibit.)

☐ Yes ☑ No ➔ SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ Yes

Effluent and Intake Characteristics Continued

7.6 List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C–3.

Primary Industry Category	Required GC/MS Fraction(s) (check applicable boxes)
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide

7.7 Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6?

☐ Yes

7.8 Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required?

☐ Yes

7.9 Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge?

☐ Yes

7.10 Does the applicant qualify for a small business exemption under the criteria specified in the instructions?

☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No

7.11 Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge?

☑ Yes

Table C. Certain Conventional and Non-Conventional Pollutants

7.12 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls?

☑ Yes

7.13 Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent."

☐ Yes ☑ Not applicable

7.14 Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"?

☑ Yes

Table D. Certain Hazardous Substances and Asbestos

7.15 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls?

☑ Yes

7.16 Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available?

☑ Yes ☐ No

Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)

7.17 Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent?

☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.

7.18 Have you completed Table E by reporting *qualitative* data for TCDD?

☐ Yes

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics

8.1 Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct?

☐ Yes ☑ No ➔ SKIP to Section 9.

8.2 List the pollutants below. Attach additional sheets, if necessary.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge?

☐ Yes ☑ No ➔ SKIP to Section 10.

9.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 11.

10.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
Laboratory address	2425 New Holland Pike, Lancaster, PA		
Phone number	(412) 525-0071		
Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))

Additional Information

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No ➔ SKIP to Section 12.

11.2 List the information requested and attach it to this application.

1.	4.
2.	5.
3.	6.

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

Checklist and Certification Statement

12.1 In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2	
☑ Section 1: Outfall Location	☑ w/ attachments	
☐ Section 2: Line Drawing	☐ w/ line drawing	☐ w/ additional attachments
☐ Section 3: Average Flows and Treatment	☐ w/ attachments	☐ w/ list of each user of privately owned treatment works
☐ Section 4: Intermittent Flows	☐ w/ attachments	
☐ Section 5: Production	☐ w/ attachments	
☐ Section 6: Improvements	☐ w/ attachments	☐ w/ optional additional sheets describing any additional pollution control plans
☑ Section 7: Effluent and Intake Characteristics	☑ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☑ w/ Table A ☑ w/ Table C ☑ w/ Table E	☐ w/ explanation for identical outfalls ☐ w/ other attachments ☑ w/ Table B ☑ w/ Table D ☑ w/ analytical results as an attachment
☐ Section 8: Used or Manufactured Toxics	☐ w/ attachments	
☐ Section 9: Biological Toxicity Tests	☐ w/ attachments	
☑ Section 10: Contract Analyses	☐ w/ attachments	
☐ Section 11: Additional Information	☐ w/ attachments	
☑ Section 12: Checklist and Certification Statement	☐ w/ attachments	

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement

12.2 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (print or type first and last name)	Official title
Joshua Mullis	Project Manager
Signature	Date signed
	6/11/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-SV222212

OMB No. 2040-0004
Expires 07/31/2026

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) [1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent				Intake (optional)	
					Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☑	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration							
			Mass							
2.	Chemical oxygen demand (COD)	☐	Concentration							
			Mass							
3.	Total organic carbon (TOC)	☐	Concentration							
			Mass							
4.	Total suspended solids (TSS)	☐	Concentration							
			Mass							
5.	Ammonia (as N)	☐	Concentration							
			Mass							
6.	Flow	☐	Rate							
7.	Temperature (winter)	☐	°C	°C						
	Temperature (summer)	☑	°C	°C	21.5					
8.	pH (minimum)	☑	Standard units	s.u.	6.9					
	pH (maximum)	☑	Standard units	s.u.	6.9					

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-SV222212

OMB No. 2040-0004
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	☐	☐	☑	Concentration	ug/L	0.20 U					
					Mass							
1.2	Arsenic, total (7440-38-2)	☐	☐	☑	Concentration	ug/L	0.68 U					
					Mass							
1.3	Beryllium, total (7440-41-7)	☐	☐	☑	Concentration	ug/L	< 0.12 U					
					Mass							
1.4	Cadmium, total (7440-43-9)	☑	☑	☐	Concentration	ug/L	0.47 J					
					Mass							
1.5	Chromium, total (7440-47-3)	☑	☑	☐	Concentration	ug/L	1.0 J					
					Mass							
1.6	Copper, total (7440-50-8)	☐	☐	☑	Concentration	ug/L	0.85 U					
					Mass							
1.7	Lead, total (7439-92-1)	☑	☑	☐	Concentration	ug/L	0.18					
					Mass							
1.8	Mercury, total (7439-97-6)	☐	☐	☑	Concentration	ug/L	< 0.087 U					
					Mass							
1.9	Nickel, total (7440-02-0)	☑	☑	☐	Concentration	ug/L	1.1					
					Mass							
1.10	Selenium, total (7782-49-2)	☐	☑	☐	Concentration	ug/L	0.77					
					Mass							
1.11	Silver, total (7440-22-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☐	☐	☑	Concentration	ug/L	< 0.13 U					
					Mass							
1.13	Zinc, total (7440-66-6)	☐	☑	☐	Concentration	ug/L	25.0					
					Mass							
1.14	Cyanide, total (57-12-5)	☑	☐	☑	Concentration	mg/L	< 0.005 U	free cyanide				
					Mass							
1.15	Phenols, total	☐	☐	☑	Concentration							
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☐	☐	☑	Concentration							
					Mass							
2.2	Acrylonitrile (107-13-1)	☐	☐	☑	Concentration							
					Mass							
2.3	Benzene (71-43-2)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.4	Bromoform (75-25-2)	☐	☐	☑	Concentration							
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.6	Chlorobenzene (108-90-7)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☐	☐	☑	Concentration							
					Mass							
2.8	Chloroethane (75-00-3)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☐	☐	☑	Concentration							
					Mass							
2.10	Chloroform (67-66-3)	☐	☐	☑	Concentration	ug/L	< 0.09 U					
					Mass							
2.11	Dichlorobromomethane (75-27-4)	☐	☐	☑	Concentration							
					Mass							
2.12	1,1-dichloroethane (75-34-3)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.13	1,2-dichloroethane (107-06-2)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.15	1,2-dichloropropane (78-87-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	☐	☐	☑	Concentration							
					Mass							
2.17	Ethylbenzene (100-41-4)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.18	Methyl bromide (74-83-9)	☐	☐	☑	Concentration							
					Mass							
2.19	Methyl chloride (74-87-3)	☐	☐	☑	Concentration							
					Mass							
2.20	Methylene chloride (75-09-2)	☐	☐	☑	Concentration	ug/L	< 0.2 U					
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☑	☑	☐	Concentration		0.95					
					Mass							
2.23	Toluene (108-88-3)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	☐	☐	☑	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	☐	☐	☑	Concentration	ug/L	< 0.08 U					
					Mass							
2.27	Trichloroethylene (79-01-6)	☐	☐	☑	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	☐	☐	☑	Concentration	ug/L	< 0.1 U					
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☐	☐	☑	Concentration							
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	☐	☐	☑	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	☐	☐	☑	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	☐	☐	☑	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration							
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☐	☐	☑	Concentration							
					Mass							
3.7	4-nitrophenol (100-02-7)	☐	☐	☑	Concentration							
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	☐	☐	☑	Concentration							
					Mass							
3.9	Pentachlorophenol (87-86-5)	☐	☐	☑	Concentration							
					Mass							
3.10	Phenol (108-95-2)	☐	☐	☑	Concentration							
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	☐	☐	☑	Concentration							
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	☑	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							
4.2	Acenaphthylene (208-96-8)	☑	☐	☑	Concentration	ug/L	< 0.01 U					
					Mass							
4.3	Anthracene (120-12-7)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.4	Benzidine (92-87-5)	☐	☐	☑	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	☑	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☐	☐	☑	Concentration							
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☐	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☑	Concentration							
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☑	Concentration							
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☑	Concentration							
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☑	Concentration							
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☑	Concentration							
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	☐	☐	☑	Concentration							
					Mass							
4.16	2-chloronaphthalene (91-58-7)	☐	☐	☑	Concentration							
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☑	Concentration							
					Mass							
4.18	Chrysene (218-01-9)	☑	☐	☑	Concentration	ug/L	< 0.027 U					
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☑	Concentration	ug/L	< 0.022 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☑	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	☐	☐	☑	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☑	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☑	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☑	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☑	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☑	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☑	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	☐	☐	☑	Concentration	ug/L	< 0.025 U					
					Mass							
4.32	Fluorene (86-73-7)	☐	☐	☑	Concentration	ug/L	< 0.011 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☐	☐	☑	Concentration							
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☐	☐	☑	Concentration							
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☑	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	☐	☐	☑	Concentration							
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☑	Concentration	ug/L	< 0.022 U					
					Mass							
4.38	Isophorone (78-59-1)	☐	☐	☑	Concentration							
					Mass							
4.39	Naphthalene (91-20-3)	☑	☑	☐	Concentration	ug/L	0.60 B+					
					Mass							
4.40	Nitrobenzene (98-95-3)	☐	☐	☑	Concentration							
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☐	☐	☑	Concentration							
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☑	Concentration							
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	☑	Concentration							
					Mass							
4.44	Phenanthrene (85-01-8)	☐	☐	☑	Concentration	ug/L	< 0.033 U					
					Mass							
4.45	Pyrene (129-00-0)	☐	☐	☑	Concentration	ug/L	< 0.023 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☑	Concentration	ug/L	< 0.07 U					
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☐	☐	☑	Concentration							
					Mass							
5.2	α-BHC (319-84-6)	☐	☐	☑	Concentration							
					Mass							
5.3	β-BHC (319-85-7)	☐	☐	☑	Concentration							
					Mass							
5.4	γ-BHC (58-89-9)	☐	☐	☑	Concentration							
					Mass							
5.5	δ-BHC (319-86-8)	☐	☐	☑	Concentration							
					Mass							
5.6	Chlordane (57-74-9)	☐	☐	☑	Concentration							
					Mass							
5.7	4,4'-DDT (50-29-3)	☐	☐	☑	Concentration							
					Mass							
5.8	4,4'-DDE (72-55-9)	☐	☐	☑	Concentration							
					Mass							
5.9	4,4'-DDD (72-54-8)	☐	☐	☑	Concentration							
					Mass							
5.10	Dieldrin (60-57-1)	☐	☐	☑	Concentration							
					Mass							
5.11	α-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☐	☐	☑	Concentration							
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☑	Concentration							
					Mass							
5.14	Endrin (72-20-8)	☐	☐	☑	Concentration							
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☑	Concentration							
					Mass							
5.16	Heptachlor (76-44-8)	☐	☐	☑	Concentration							
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☑	Concentration							
					Mass							
5.18	PCB-1242 (53469-21-9)	☑	☐	☑	Concentration	ug/L	< 0.0077 U					
					Mass							
5.19	PCB-1254 (11097-69-1)	☑	☐	☑	Concentration	ug/L	< 0.0048 U					
					Mass							
5.20	PCB-1221 (11104-28-2)	☑	☐	☑	Concentration	ug/L	< 0.0077 U					
					Mass							
5.21	PCB-1232 (11141-16-5)	☑	☐	☑	Concentration	ug/L	< 0.0077 U					
					Mass							
5.22	PCB-1248 (12672-29-6)	☑	☐	☑	Concentration	ug/L	< 0.0077 U					
					Mass							
5.23	PCB-1260 (11096-82-5)	☑	☐	☑	Concentration	ug/L	< 0.0048 U					
					Mass							
5.24	PCB-1016 (12674-11-2)	☑	☐	☑	Concentration	ug/L	< 0.0077 U					
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☑	Concentration							
					Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you believe all pollutants in Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
☐	Check here if you believe all pollutants in Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
1.	Bromide (24959-67-9)	☐	☑	Concentration							
				Mass							
2.	Chlorine, total residual	☐	☑	Concentration							
				Mass							
3.	Color	☐	☑	Concentration							
				Mass							
4.	Fecal coliform	☐	☑	Concentration							
				Mass							
5.	Fluoride (16984-48-8)	☑	☐	Concentration	mg/L	1.7					
				Mass							
6	Nitrate-nitrite	☐	☑	Concentration							
				Mass							
7.	Nitrogen, total organic (as N)	☐	☑	Concentration							
				Mass							
8.	Oil and grease	☐	☑	Concentration							
				Mass							
9.	Phosphorus (as P), total (7723-14-0)	☐	☑	Concentration							
				Mass							
10.	Sulfate (as SO_4) (14808-79-8)	☐	☑	Concentration							
				Mass							
11.	Sulfide (as S)	☐	☑	Concentration							
				Mass							

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO_3) (14265-45-3)	☐	☑	Concentration							
				Mass							
13.	Surfactants	☐	☑	Concentration							
				Mass							
14.	Aluminum, total (7429-90-5)	☑	☐	Concentration	ug/L	330					
				Mass							
15.	Barium, total (7440-39-3)	☑	☐	Concentration	ug/L	28					
				Mass							
16.	Boron, total (7440-42-8)	☐	☑	Concentration							
				Mass							
17.	Cobalt, total (7440-48-4)	☑	☐	Concentration	ug/L	0.50					
				Mass							
18.	Iron, total (7439-89-6)	☑	☐	Concentration	ug/L	260					
				Mass							
19.	Magnesium, total (7439-95-4)	☑	☐	Concentration	ug/L	22000					
				Mass							
20.	Molybdenum, total (7439-98-7)	☐	☑	Concentration							
				Mass							
21.	Manganese, total (7439-96-5)	☑	☐	Concentration	ug/L	300					
				Mass							
22.	Tin, total (7440-31-5)	☐	☑	Concentration							
				Mass							
23.	Titanium, total (7440-32-6)	☐	☑	Concentration							
				Mass							

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24.	**Radioactivity**										
	Alpha, total	☐	☑	Concentration							
				Mass							
	Beta, total	☐	☑	Concentration							
				Mass							
	Radium, total	☐	☑	Concentration							
				Mass							
	Radium 226, total	☐	☑	Concentration							
				Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		0.1 ug/L U

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic acid	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		< 0.07 ug/L U
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		
76.	Vanadium	☐	☑		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		
79.	Xylenol	☐	☑		
80.	Zirconium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-SV222212

OMB No. 2040-0004
Expires 07/31/2026

TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☑	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 6/6/2025 10:44:09 AM

JOB DESCRIPTION

Soil and Water Analysis - QL Frederick

JOB NUMBER

410-223364-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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6/6/2025 10:44:09 AM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job Narrative
410-223364-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/21/2025 4:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.6°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Date. This does not meet regulatory requirements.

The following sample was received at the laboratory without a sample collection date documented on the chain of custody: QM-P-254571-052125 (410-223364-2). Collection date entered per the container labels.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): QM-P-254571-052125 (410-223364-2). The container labels list QM-P-254571-052125, while the COC lists QM-P-254571. Sampler reached out via telephone and asked SA to update the ID to match the container labels.

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-648123 recovered above the upper control limit for 2-Butanone, 2-Hexanone and 4-Methyl-2-pentanone. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

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

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

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

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

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

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

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

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

Detection Summary

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: TB-052125 — Lab Sample ID: 410-223364-1

No Detections.

Client Sample ID: QM-P-254571-052125 — Lab Sample ID: 410-223364-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	4.3		2.0	1.0	mg/L	10		EPA 300.0 R2.1	Total/NA
Aluminum	43		25	12	ug/L	1		6020B	Total Recoverable
Antimony	0.22	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Barium	27		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	78000		120	50	ug/L	1		6020B	Total Recoverable
Cobalt	0.52		0.50	0.16	ug/L	1		6020B	Total Recoverable
Iron	730		50	20	ug/L	1		6020B	Total Recoverable
Magnesium	16000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	120		2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	1.3		1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	4600		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.83	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	62000		200	90	ug/L	1		6020B	Total Recoverable
pH	7.7	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.5	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	no	HF	0.01	0.01	NONE	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: TB-052125
Lab Sample ID: 410-223364-1

Date Collected: 05/21/25 07:00
Matrix: Water
Date Received: 05/21/25 16:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 12:12	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 12:12	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/23/25 12:12	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 12:12	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 12:12	1
2-Butanone	<1.0	cn	5.0	1.0	ug/L			05/23/25 12:12	1
2-Hexanone	<2.0	cn	5.0	2.0	ug/L			05/23/25 12:12	1
4-Methyl-2-pentanone	<1.0	cn	5.0	1.0	ug/L			05/23/25 12:12	1
Acetone	<1.5		5.0	1.5	ug/L			05/23/25 12:12	1
Benzene	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
Bromoform	<0.30		1.0	0.30	ug/L			05/23/25 12:12	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/23/25 12:12	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 12:12	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Chloroform	<0.090		0.50	0.090	ug/L			05/23/25 12:12	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/23/25 12:12	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/23/25 12:12	1
Styrene	<0.070		0.50	0.070	ug/L			05/23/25 12:12	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/23/25 12:12	1
Toluene	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/23/25 12:12	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/23/25 12:12	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/23/25 12:12	1

Client Sample ID: TB-052125
Lab Sample ID: 410-223364-1

Date Collected: 05/21/25 07:00
Matrix: Water
Date Received: 05/21/25 16:56

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*05/23/25 12:12*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/23/25 12:12*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*05/23/25 12:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/23/25 12:12*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/23/25 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*103*		*63 - 135*		*05/23/25 12:54*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		05/26/25 23:28	05/28/25 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*100*		*46 - 136*	*05/26/25 23:28*	*05/28/25 13:12*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*102*		*46 - 136*	*05/26/25 23:28*	*05/28/25 13:12*	*1*

Client Sample ID: QM-P-254571-052125
Lab Sample ID: 410-223364-2

Date Collected: 05/21/25 09:15
Matrix: Water
Date Received: 05/21/25 16:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 16:18	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 16:18	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/23/25 16:18	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 16:18	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 16:18	1
2-Butanone	<1.0	cn	5.0	1.0	ug/L			05/23/25 16:18	1
2-Hexanone	<2.0	cn	5.0	2.0	ug/L			05/23/25 16:18	1
4-Methyl-2-pentanone	<1.0	cn	5.0	1.0	ug/L			05/23/25 16:18	1
Acetone	<1.5		5.0	1.5	ug/L			05/23/25 16:18	1
Benzene	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
Bromoform	<0.30		1.0	0.30	ug/L			05/23/25 16:18	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/23/25 16:18	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 16:18	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1

Client Sample ID: QM-P-254571-052125
Lab Sample ID: 410-223364-2

Date Collected: 05/21/25 09:15
Matrix: Water
Date Received: 05/21/25 16:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090		0.50	0.090	ug/L			05/23/25 16:18	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/23/25 16:18	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/23/25 16:18	1
Styrene	<0.070		0.50	0.070	ug/L			05/23/25 16:18	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/23/25 16:18	1
Toluene	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/23/25 16:18	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/23/25 16:18	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/23/25 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*05/23/25 16:18*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*05/23/25 16:18*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*05/23/25 16:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/23/25 16:18*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Acenaphthylene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Anthracene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Benzo[a]anthracene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Benzo[a]pyrene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Benzo[b]fluoranthene	<0.048		0.051	0.048	ug/L		05/27/25 20:53	05/29/25 10:37	1
Benzo[g,h,i]perylene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Benzo[k]fluoranthene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Chrysene	<0.026		0.051	0.026	ug/L		05/27/25 20:53	05/29/25 10:37	1
Dibenz(a,h)anthracene	<0.021		0.051	0.021	ug/L		05/27/25 20:53	05/29/25 10:37	1
Fluoranthene	<0.024		0.051	0.024	ug/L		05/27/25 20:53	05/29/25 10:37	1
Fluorene	<0.010		0.051	0.010	ug/L		05/27/25 20:53	05/29/25 10:37	1
Indeno[1,2,3-cd]pyrene	<0.021		0.051	0.021	ug/L		05/27/25 20:53	05/29/25 10:37	1
Naphthalene	<0.070		0.072	0.070	ug/L		05/27/25 20:53	05/29/25 10:37	1
Phenanthrene	<0.031		0.072	0.031	ug/L		05/27/25 20:53	05/29/25 10:37	1
Pyrene	<0.022		0.051	0.022	ug/L		05/27/25 20:53	05/29/25 10:37	1

Client Sample ID: QM-P-254571-052125
Lab Sample ID: 410-223364-2

Date Collected: 05/21/25 09:15
Matrix: Water
Date Received: 05/21/25 16:56

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*56*		*10 - 121*	*05/27/25 20:53*	*05/29/25 10:37*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*30 - 127*	*05/27/25 20:53*	*05/29/25 10:37*	*1*
Fluoranthene-d10 (Surr)	*107*		*34 - 130*	*05/27/25 20:53*	*05/29/25 10:37*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/23/25 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*104*		*63 - 135*		*05/23/25 14:36*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		05/26/25 23:28	05/28/25 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*99*		*46 - 136*	*05/26/25 23:28*	*05/28/25 13:29*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*98*		*46 - 136*	*05/26/25 23:28*	*05/28/25 13:29*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<47		110	47	ug/L		05/27/25 21:31	05/29/25 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*77*		*32 - 125*	*05/27/25 21:31*	*05/29/25 14:07*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0078		0.0097	0.0078	ug/L		06/05/25 08:42	06/05/25 19:55	1
PCB-1221 (1C)	<0.0078		0.0097	0.0078	ug/L		06/05/25 08:42	06/05/25 19:55	1
PCB-1232 (1C)	<0.0078		0.0097	0.0078	ug/L		06/05/25 08:42	06/05/25 19:55	1
PCB-1242 (1C)	<0.0078		0.0097	0.0078	ug/L		06/05/25 08:42	06/05/25 19:55	1
PCB-1248 (1C)	<0.0078		0.0097	0.0078	ug/L		06/05/25 08:42	06/05/25 19:55	1
PCB-1254 (1C)	<0.0048		0.0097	0.0048	ug/L		06/05/25 08:42	06/05/25 19:55	1
PCB-1260 (1C)	<0.0048		0.0097	0.0048	ug/L		06/05/25 08:42	06/05/25 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*120*		*46 - 161*	*06/05/25 08:42*	*06/05/25 19:55*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*104*		*46 - 161*	*06/05/25 08:42*	*06/05/25 19:55*	*1*
Tetrachloro-m-xylene (1C)	*79*		*41 - 146*	*06/05/25 08:42*	*06/05/25 19:55*	*1*
Tetrachloro-m-xylene (2C)	*73*		*41 - 146*	*06/05/25 08:42*	*06/05/25 19:55*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0078		0.0097	0.0078	ug/L			06/05/25 19:55	1
PCB-1221	<0.0078		0.0097	0.0078	ug/L			06/05/25 19:55	1
PCB-1232	<0.0078		0.0097	0.0078	ug/L			06/05/25 19:55	1
PCB-1242	<0.0078		0.0097	0.0078	ug/L			06/05/25 19:55	1
PCB-1248	<0.0078		0.0097	0.0078	ug/L			06/05/25 19:55	1
PCB-1254	<0.0048		0.0097	0.0048	ug/L			06/05/25 19:55	1
PCB-1260	<0.0048		0.0097	0.0048	ug/L			06/05/25 19:55	1
Polychlorinated biphenyls, Total	<0.0078		0.0097	0.0078	ug/L			06/05/25 19:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223364-1

Client Sample ID: QM-P-254571-052125

Lab Sample ID: 410-223364-2

Date Collected: 05/21/25 09:15
Date Received: 05/21/25 16:56

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**4.3**		2.0	1.0	mg/L			05/23/25 19:16	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**43**		25	12	ug/L		05/23/25 21:00	05/27/25 23:04	1
Antimony	**0.22**	**J**	1.0	0.20	ug/L		05/23/25 21:00	05/27/25 23:04	1
Arsenic	<0.68		2.0	0.68	ug/L		05/23/25 21:00	05/27/25 23:04	1
Barium	**27**		2.0	0.75	ug/L		05/23/25 21:00	05/27/25 23:04	1
Beryllium	<0.12		0.50	0.12	ug/L		05/23/25 21:00	05/27/25 23:04	1
Cadmium	<0.15		0.50	0.15	ug/L		05/23/25 21:00	05/27/25 23:04	1
Calcium	**78000**		120	50	ug/L		05/23/25 21:00	05/27/25 23:04	1
Chromium	<0.55		2.0	0.55	ug/L		05/23/25 21:00	05/27/25 23:04	1
Cobalt	**0.52**		0.50	0.16	ug/L		05/23/25 21:00	05/27/25 23:04	1
Copper	<0.85		1.0	0.85	ug/L		05/23/25 21:00	05/27/25 23:04	1
Iron	**730**		50	20	ug/L		05/23/25 21:00	05/27/25 23:04	1
Lead	<0.12		0.50	0.12	ug/L		05/23/25 21:00	05/27/25 23:04	1
Magnesium	**16000**		50	16	ug/L		05/23/25 21:00	05/27/25 23:04	1
Manganese	**120**		2.0	0.95	ug/L		05/23/25 21:00	05/27/25 23:04	1
Nickel	**1.3**		1.0	0.40	ug/L		05/23/25 21:00	05/27/25 23:04	1
Potassium	**4600**		200	65	ug/L		05/23/25 21:00	05/27/25 23:04	1
Selenium	**0.83**	**J**	1.0	0.28	ug/L		05/23/25 21:00	05/27/25 23:04	1
Silver	<0.10		0.50	0.10	ug/L		05/23/25 21:00	05/27/25 23:04	1
Sodium	**62000**		200	90	ug/L		05/23/25 21:00	05/27/25 23:04	1
Thallium	<0.13		0.50	0.13	ug/L		05/23/25 21:00	05/27/25 23:04	1
Zinc	<4.0		10	4.0	ug/L		05/23/25 21:00	05/27/25 23:04	1
Vanadium	<0.79		4.0	0.79	ug/L		05/23/25 21:00	05/27/25 23:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		05/24/25 21:45	05/27/25 23:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**7.7**	**HF**	0.01	0.01	S.U.			05/28/25 18:24	1
Temperature (SW846 9040C)	**21.5**	**HF**	0.01	0.01	Degrees C			05/28/25 18:24	1
Corrosivity (SW846 9040C)	**no**	**HF**	0.01	0.01	NONE			05/28/25 18:24	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			05/23/25 11:54	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223364-1

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-223364-1	TB-052125	110	84	110	99
410-223364-2	QM-P-254571-052125	106	87	109	101
LCS 410-648123/4	Lab Control Sample	104	94	105	104
LCSD 410-648123/5	Lab Control Sample Dup	109	94	105	104
MB 410-648123/7	Method Blank	107	88	109	101

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	MNPd10	FLN10
Lab Sample ID	Client Sample ID	(10-121)	(30-127)	(34-130)
410-223364-2	QM-P-254571-052125	56	77	107
LCS 410-649376/2-A	Lab Control Sample	82	63	63
LCSD 410-649376/3-A	Lab Control Sample Dup	67	56	83
MB 410-649376/1-A	Method Blank	81	71	104

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-223364-1	TB-052125	103
410-223364-2	QM-P-254571-052125	104
LCS 410-648164/6	Lab Control Sample	94
LCSD 410-648164/7	Lab Control Sample Dup	94
MB 410-648164/5	Method Blank	103

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1	1122TCA2
Lab Sample ID	Client Sample ID	(46-136)	(46-136)
410-223364-1	TB-052125	100	102
410-223364-2	QM-P-254571-052125	99	98
LCS 410-648875/2-A	Lab Control Sample	94	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

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

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
LCSD 410-648875/3-A	Lab Control Sample Dup	96	100
MB 410-648875/1-A	Method Blank	95	99

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

Lab Sample ID	Client Sample ID	OTP (32-125)
410-223364-2	QM-P-254571-052125	77
LCS 410-649391/2-A	Lab Control Sample	75
LCSD 410-649391/3-A	Lab Control Sample Dup	82
MB 410-649391/1-A	Method Blank	79

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

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

Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-223364-2	QM-P-254571-052125	120	104	79	73
LCS 410-653244/2-A	Lab Control Sample	126	110	79	74
MB 410-653244/1-A	Method Blank	125	114	76	71

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-648123/7
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 648123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 11:28	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 11:28	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/23/25 11:28	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 11:28	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 11:28	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/23/25 11:28	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/23/25 11:28	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/23/25 11:28	1
Acetone	<1.5		5.0	1.5	ug/L			05/23/25 11:28	1
Benzene	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
Bromoform	<0.30		1.0	0.30	ug/L			05/23/25 11:28	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/23/25 11:28	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/23/25 11:28	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Chloroform	<0.090		0.50	0.090	ug/L			05/23/25 11:28	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/23/25 11:28	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/23/25 11:28	1
Styrene	<0.070		0.50	0.070	ug/L			05/23/25 11:28	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/23/25 11:28	1
Toluene	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/23/25 11:28	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/23/25 11:28	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/23/25 11:28	1

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

Lab Sample ID: MB 410-648123/7
Matrix: Water
Analysis Batch: 648123

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		05/23/25 11:28	1
4-Bromofluorobenzene (Surr)	88		80 - 120		05/23/25 11:28	1
Dibromofluoromethane (Surr)	109		80 - 120		05/23/25 11:28	1
Toluene-d8 (Surr)	101		80 - 120		05/23/25 11:28	1

Lab Sample ID: LCS 410-648123/4
Matrix: Water
Analysis Batch: 648123

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-Trichloroethane	5.00	5.08		ug/L		102	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.56		ug/L		111	75 - 123
1,1,2-Trichloroethane	5.00	5.54		ug/L		111	80 - 120
1,1-Dichloroethane	5.00	5.20		ug/L		104	74 - 120
1,1-Dichloroethene	5.00	6.01		ug/L		120	80 - 131
1,2,4-Trichlorobenzene	5.00	4.41		ug/L		88	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.71		ug/L		94	75 - 124
1,2-Dibromoethane	5.00	5.43		ug/L		109	80 - 120
1,2-Dichlorobenzene	5.00	5.16		ug/L		103	80 - 120
1,2-Dichloroethane	5.00	5.34		ug/L		107	69 - 122
1,2-Dichloropropane	5.00	5.31		ug/L		106	80 - 120
1,3-Dichlorobenzene	5.00	4.95		ug/L		99	80 - 120
1,4-Dichlorobenzene	5.00	5.09		ug/L		102	80 - 120
2-Butanone	62.5	74.9		ug/L		120	59 - 141
2-Hexanone	62.5	77.8		ug/L		124	52 - 140
4-Methyl-2-pentanone	62.5	74.4		ug/L		119	55 - 140
Acetone	62.5	69.7		ug/L		112	60 - 146
Benzene	5.00	5.17		ug/L		103	80 - 120
Bromodichloromethane	5.00	5.29		ug/L		106	80 - 123
Bromoform	5.00	4.84		ug/L		97	75 - 126
Bromomethane	5.00	5.28		ug/L		106	63 - 120
Carbon disulfide	5.00	4.58		ug/L		92	67 - 130
Carbon tetrachloride	5.00	5.06		ug/L		101	64 - 141
Chlorobenzene	5.00	5.35		ug/L		107	80 - 120
Chloroethane	5.00	5.23		ug/L		105	63 - 120
Chloroform	5.00	5.21		ug/L		104	80 - 120
Chloromethane	5.00	4.84		ug/L		97	56 - 124
cis-1,2-Dichloroethene	5.00	5.18		ug/L		104	80 - 122
cis-1,3-Dichloropropene	5.00	4.73		ug/L		95	67 - 121
Cyclohexane	5.00	4.63		ug/L		93	69 - 120
Dibromochloromethane	5.00	5.34		ug/L		107	80 - 123
Dichlorodifluoromethane	5.00	4.67		ug/L		93	43 - 123
Ethylbenzene	5.00	5.29		ug/L		106	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	5.31		ug/L		106	67 - 124
Isopropylbenzene	5.00	5.64		ug/L		113	80 - 120
Methyl acetate	5.00	4.81		ug/L		96	59 - 143
Methyl tertiary butyl ether	5.00	4.59		ug/L		92	69 - 120
Methylcyclohexane	5.00	4.69		ug/L		94	80 - 120

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

Lab Sample ID: LCS 410-648123/4
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 648123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	5.38		ug/L		108	80 - 120
Styrene	5.00	5.10		ug/L		102	80 - 120
Tetrachloroethene	5.00	4.72		ug/L		94	80 - 120
Toluene	5.00	5.23		ug/L		105	80 - 120
trans-1,2-Dichloroethene	5.00	5.16		ug/L		103	80 - 122
trans-1,3-Dichloropropene	5.00	5.06		ug/L		101	61 - 129
Trichloroethene	5.00	5.07		ug/L		101	80 - 120
Trichlorofluoromethane	5.00	5.22		ug/L		104	53 - 136
Vinyl chloride	5.00	5.06		ug/L		101	60 - 125
Xylenes, Total	15.0	15.4		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 410-648123/5
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 648123

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.00	5.08		ug/L		102	78 - 126	0	30
1,1,2,2-Tetrachloroethane	5.00	5.56		ug/L		111	75 - 123	0	30
1,1,2-Trichloroethane	5.00	5.47		ug/L		109	80 - 120	1	30
1,1-Dichloroethane	5.00	5.18		ug/L		104	74 - 120	0	30
1,1-Dichloroethene	5.00	5.92		ug/L		118	80 - 131	1	30
1,2,4-Trichlorobenzene	5.00	4.32		ug/L		86	68 - 122	2	30
1,2-Dibromo-3-Chloropropane	5.00	4.38		ug/L		88	75 - 124	7	30
1,2-Dibromoethane	5.00	5.36		ug/L		107	80 - 120	1	30
1,2-Dichlorobenzene	5.00	5.00		ug/L		100	80 - 120	3	30
1,2-Dichloroethane	5.00	4.87		ug/L		97	69 - 122	9	30
1,2-Dichloropropane	5.00	5.21		ug/L		104	80 - 120	2	30
1,3-Dichlorobenzene	5.00	5.01		ug/L		100	80 - 120	1	30
1,4-Dichlorobenzene	5.00	5.06		ug/L		101	80 - 120	1	30
2-Butanone	62.5	74.6		ug/L		119	59 - 141	0	30
2-Hexanone	62.5	77.2		ug/L		124	52 - 140	1	30
4-Methyl-2-pentanone	62.5	73.9		ug/L		118	55 - 140	1	30
Acetone	62.5	68.3		ug/L		109	60 - 146	2	30
Benzene	5.00	5.06		ug/L		101	80 - 120	2	30
Bromodichloromethane	5.00	5.18		ug/L		104	80 - 123	2	30
Bromoform	5.00	4.76		ug/L		95	75 - 126	2	30
Bromomethane	5.00	5.17		ug/L		103	63 - 120	2	30
Carbon disulfide	5.00	4.59		ug/L		92	67 - 130	0	30
Carbon tetrachloride	5.00	4.95		ug/L		99	64 - 141	2	30
Chlorobenzene	5.00	5.25		ug/L		105	80 - 120	2	30
Chloroethane	5.00	5.25		ug/L		105	63 - 120	0	30
Chloroform	5.00	5.07		ug/L		101	80 - 120	3	30

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

Lab Sample ID: LCSD 410-648123/5
Matrix: Water
Analysis Batch: 648123

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			5.00	4.81		ug/L		96	56 - 124	1	30
cis-1,2-Dichloroethene			5.00	5.14		ug/L		103	80 - 122	1	30
cis-1,3-Dichloropropene			5.00	4.63		ug/L		93	67 - 121	2	30
Cyclohexane			5.00	4.59		ug/L		92	69 - 120	1	30
Dibromochloromethane			5.00	5.21		ug/L		104	80 - 123	3	30
Dichlorodifluoromethane			5.00	4.63		ug/L		93	43 - 123	1	30
Ethylbenzene			5.00	5.25		ug/L		105	80 - 120	1	30
1,1,2-Trichlorotrifluoroethane			5.00	5.26		ug/L		105	67 - 124	1	30
Isopropylbenzene			5.00	5.61		ug/L		112	80 - 120	0	30
Methyl acetate			5.00	4.74		ug/L		95	59 - 143	2	30
Methyl tertiary butyl ether			5.00	4.55		ug/L		91	69 - 120	1	30
Methylcyclohexane			5.00	4.66		ug/L		93	80 - 120	1	30
Methylene Chloride			5.00	5.30		ug/L		106	80 - 120	1	30
Styrene			5.00	5.06		ug/L		101	80 - 120	1	30
Tetrachloroethene			5.00	4.69		ug/L		94	80 - 120	1	30
Toluene			5.00	5.11		ug/L		102	80 - 120	2	30
trans-1,2-Dichloroethene			5.00	5.12		ug/L		102	80 - 122	1	30
trans-1,3-Dichloropropene			5.00	4.91		ug/L		98	61 - 129	3	30
Trichloroethene			5.00	4.97		ug/L		99	80 - 120	2	30
Trichlorofluoromethane			5.00	5.10		ug/L		102	53 - 136	2	30
Vinyl chloride			5.00	4.85		ug/L		97	60 - 125	4	30
Xylenes, Total			15.0	15.4		ug/L		102	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: MB 410-649376/1-A
Matrix: Water
Analysis Batch: 650031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Acenaphthylene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Anthracene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Benzo[a]anthracene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Benzo[a]pyrene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Benzo[b]fluoranthene	<0.050		0.054	0.050	ug/L		05/27/25 20:53	05/29/25 09:33	1
Benzo[g,h,i]perylene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Benzo[k]fluoranthene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Chrysene	<0.027		0.054	0.027	ug/L		05/27/25 20:53	05/29/25 09:33	1
Dibenz(a,h)anthracene	<0.021		0.054	0.021	ug/L		05/27/25 20:53	05/29/25 09:33	1
Fluoranthene	<0.025		0.054	0.025	ug/L		05/27/25 20:53	05/29/25 09:33	1
Fluorene	<0.011		0.054	0.011	ug/L		05/27/25 20:53	05/29/25 09:33	1
Indeno[1,2,3-cd]pyrene	<0.021		0.054	0.021	ug/L		05/27/25 20:53	05/29/25 09:33	1

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

Lab Sample ID: MB 410-649376/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 650031 — **Prep Batch: 649376**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.073		0.075	0.073	ug/L		05/27/25 20:53	05/29/25 09:33	1
Phenanthrene	<0.032		0.075	0.032	ug/L		05/27/25 20:53	05/29/25 09:33	1
Pyrene	<0.022		0.054	0.022	ug/L		05/27/25 20:53	05/29/25 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*81*		*10 - 121*	*05/27/25 20:53*	*05/29/25 09:33*	*1*
1-Methylnaphthalene-d10 (Surr)	*71*		*30 - 127*	*05/27/25 20:53*	*05/29/25 09:33*	*1*
Fluoranthene-d10 (Surr)	*104*		*34 - 130*	*05/27/25 20:53*	*05/29/25 09:33*	*1*

Lab Sample ID: LCS 410-649376/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 650031 — **Prep Batch: 649376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.06	0.822		ug/L		77	33 - 122
Acenaphthylene	1.06	0.900		ug/L		85	35 - 123
Anthracene	1.06	0.974		ug/L		92	40 - 127
Benzo[a]anthracene	1.06	0.930		ug/L		88	34 - 128
Benzo[a]pyrene	1.06	0.943		ug/L		89	38 - 134
Benzo[b]fluoranthene	1.06	0.956		ug/L		90	35 - 131
Benzo[g,h,i]perylene	1.06	0.867		ug/L		82	31 - 139
Benzo[k]fluoranthene	1.06	1.02		ug/L		96	42 - 146
Chrysene	1.06	0.859		ug/L		81	34 - 134
Dibenz(a,h)anthracene	1.06	0.851		ug/L		80	29 - 136
Fluoranthene	1.06	0.691		ug/L		65	36 - 129
Fluorene	1.06	0.927		ug/L		87	35 - 124
Indeno[1,2,3-cd]pyrene	1.06	0.885		ug/L		83	28 - 137
Naphthalene	1.06	0.697		ug/L		66	26 - 120
Phenanthrene	1.06	0.869		ug/L		82	37 - 125
Pyrene	1.06	0.735		ug/L		69	34 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*82*		*10 - 121*
1-Methylnaphthalene-d10 (Surr)	*63*		*30 - 127*
Fluoranthene-d10 (Surr)	*63*		*34 - 130*

Lab Sample ID: LCSD 410-649376/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 650031 — **Prep Batch: 649376**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	1.08	0.697		ug/L		64	33 - 122	17	30
Acenaphthylene	1.08	0.768		ug/L		71	35 - 123	16	30
Anthracene	1.08	0.789		ug/L		73	40 - 127	21	30
Benzo[a]anthracene	1.08	0.762		ug/L		70	34 - 128	20	30
Benzo[a]pyrene	1.08	0.799		ug/L		74	38 - 134	17	30
Benzo[b]fluoranthene	1.08	0.782		ug/L		72	35 - 131	20	30
Benzo[g,h,i]perylene	1.08	0.740		ug/L		68	31 - 139	16	30

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

Lab Sample ID: LCSD 410-649376/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 650031 — **Prep Batch: 649376**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[k]fluoranthene			1.08	0.809		ug/L		75	42 - 146	23	30
Chrysene			1.08	0.716		ug/L		66	34 - 134	18	30
Dibenz(a,h)anthracene			1.08	0.709		ug/L		65	29 - 136	18	30
Fluoranthene			1.08	0.860		ug/L		79	36 - 129	22	30
Fluorene			1.08	0.764		ug/L		71	35 - 124	19	30
Indeno[1,2,3-cd]pyrene			1.08	0.728		ug/L		67	28 - 137	19	30
Naphthalene			1.08	0.594		ug/L		55	26 - 120	16	30
Phenanthrene			1.08	0.733		ug/L		68	37 - 125	17	30
Pyrene			1.08	0.606		ug/L		56	34 - 129	19	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*67*		*10 - 121*
1-Methylnaphthalene-d10 (Surr)	*56*		*30 - 127*
Fluoranthene-d10 (Surr)	*83*		*34 - 130*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-648164/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/23/25 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*103*		*63 - 135*		*05/23/25 11:11*	*1*

Lab Sample ID: LCS 410-648164/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648164

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline (Unleaded) (1C)			1100	1090		ug/L		99	66 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*94*		*63 - 135*

Lab Sample ID: LCSD 410-648164/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648164

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline (Unleaded) (1C)			1100	1120		ug/L		102	66 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*94*		*63 - 135*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-648875/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649534 — **Prep Batch: 648875**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.010		0.020	0.010	ug/L		05/26/25 23:28	05/28/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*95*		*46 - 136*	*05/26/25 23:28*	*05/28/25 11:14*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*99*		*46 - 136*	*05/26/25 23:28*	*05/28/25 11:14*	*1*

Lab Sample ID: LCS 410-648875/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649534 — **Prep Batch: 648875**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (1C)			0.129	0.113		ug/L		87	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*94*		*46 - 136*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*100*		*46 - 136*

Lab Sample ID: LCSD 410-648875/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649534 — **Prep Batch: 648875**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (1C)			0.129	0.115		ug/L		89	60 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*96*		*46 - 136*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*100*		*46 - 136*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-649391/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 650236 — **Prep Batch: 649391**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<49		110	49	ug/L		05/27/25 21:31	05/29/25 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*79*		*32 - 125*	*05/27/25 21:31*	*05/29/25 12:36*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 410-649391/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 650236 — **Prep Batch: 649391**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (C10-C28)	651	524		ug/L		80	20 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr)	*75*		*32 - 125*

Lab Sample ID: LCSD 410-649391/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 650236 — **Prep Batch: 649391**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)	636	555		ug/L		87	20 - 115	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o- terphenyl (Surr)	*82*		*32 - 125*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-653244/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653727 — **Prep Batch: 653244**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*125*		*46 - 161*	*06/05/25 08:42*	*06/05/25 18:50*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*114*		*46 - 161*	*06/05/25 08:42*	*06/05/25 18:50*	*1*
Tetrachloro-m-xylene (1C)	*76*		*41 - 146*	*06/05/25 08:42*	*06/05/25 18:50*	*1*
Tetrachloro-m-xylene (2C)	*71*		*41 - 146*	*06/05/25 08:42*	*06/05/25 18:50*	*1*

Lab Sample ID: LCS 410-653244/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653727 — **Prep Batch: 653244**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016 (1C)	0.500	0.399		ug/L		80	60 - 117
PCB-1260 (1C)	0.500	0.477		ug/L		95	81 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*126*		*46 - 161*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 410-653244/2-A
Matrix: Water
Analysis Batch: 653727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653244

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (2C)	*110*		*46 - 161*
Tetrachloro-m-xylene (1C)	*79*		*41 - 146*
Tetrachloro-m-xylene (2C)	*74*		*41 - 146*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-648385/5
Matrix: Water
Analysis Batch: 648385

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			05/23/25 16:15	1

Lab Sample ID: LCS 410-648385/3
Matrix: Water
Analysis Batch: 648385

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.739		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-648385/4
Matrix: Water
Analysis Batch: 648385

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.737		mg/L		98	90 - 110	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-645322/1-A
Matrix: Water
Analysis Batch: 649424

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		05/23/25 21:00	05/27/25 22:01	1
Antimony	<0.20		1.0	0.20	ug/L		05/23/25 21:00	05/27/25 22:01	1
Arsenic	<0.68		2.0	0.68	ug/L		05/23/25 21:00	05/27/25 22:01	1
Barium	<0.75		2.0	0.75	ug/L		05/23/25 21:00	05/27/25 22:01	1
Beryllium	<0.12		0.50	0.12	ug/L		05/23/25 21:00	05/27/25 22:01	1
Cadmium	<0.15		0.50	0.15	ug/L		05/23/25 21:00	05/27/25 22:01	1
Calcium	<50		120	50	ug/L		05/23/25 21:00	05/27/25 22:01	1
Chromium	<0.55		2.0	0.55	ug/L		05/23/25 21:00	05/27/25 22:01	1
Cobalt	<0.16		0.50	0.16	ug/L		05/23/25 21:00	05/27/25 22:01	1
Copper	<0.85		1.0	0.85	ug/L		05/23/25 21:00	05/27/25 22:01	1
Iron	<20		50	20	ug/L		05/23/25 21:00	05/27/25 22:01	1
Lead	<0.12		0.50	0.12	ug/L		05/23/25 21:00	05/27/25 22:01	1
Magnesium	<16		50	16	ug/L		05/23/25 21:00	05/27/25 22:01	1
Manganese	<0.95		2.0	0.95	ug/L		05/23/25 21:00	05/27/25 22:01	1
Nickel	<0.40		1.0	0.40	ug/L		05/23/25 21:00	05/27/25 22:01	1

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

Lab Sample ID: MB 410-645322/1-A
Matrix: Water
Analysis Batch: 649424

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<65		200	65	ug/L		05/23/25 21:00	05/27/25 22:01	1
Selenium	<0.28		1.0	0.28	ug/L		05/23/25 21:00	05/27/25 22:01	1
Silver	<0.10		0.50	0.10	ug/L		05/23/25 21:00	05/27/25 22:01	1
Sodium	<90		200	90	ug/L		05/23/25 21:00	05/27/25 22:01	1
Thallium	<0.13		0.50	0.13	ug/L		05/23/25 21:00	05/27/25 22:01	1
Zinc	<4.0		10	4.0	ug/L		05/23/25 21:00	05/27/25 22:01	1
Vanadium	<0.79		4.0	0.79	ug/L		05/23/25 21:00	05/27/25 22:01	1

Lab Sample ID: LCS 410-645322/2-A
Matrix: Water
Analysis Batch: 649424

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5160		ug/L		103	90 - 110
Antimony	100	107		ug/L		107	90 - 115
Arsenic	500	497		ug/L		99	90 - 109
Barium	500	538		ug/L		108	90 - 113
Beryllium	50.0	51.8		ug/L		104	82 - 120
Cadmium	50.0	54.3		ug/L		109	90 - 112
Calcium	5000	5150		ug/L		103	90 - 112
Chromium	500	504		ug/L		101	90 - 110
Cobalt	500	525		ug/L		105	90 - 110
Copper	500	507		ug/L		101	90 - 110
Iron	5000	5300		ug/L		106	90 - 111
Lead	50.0	52.1		ug/L		104	90 - 110
Magnesium	5000	5160		ug/L		103	90 - 110
Manganese	500	517		ug/L		103	90 - 111
Nickel	500	525		ug/L		105	90 - 109
Potassium	5000	5080		ug/L		102	90 - 110
Selenium	100	101		ug/L		101	90 - 110
Silver	50.0	55.3		ug/L		111	90 - 112
Sodium	5000	4950		ug/L		99	89 - 114
Thallium	100	103		ug/L		103	90 - 110
Zinc	500	508		ug/L		102	90 - 112
Vanadium	500	522		ug/L		104	90 - 109

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-648625/1-A
Matrix: Water
Analysis Batch: 649427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		05/24/25 21:45	05/27/25 23:29	1

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

Lab Sample ID: LCS 410-648625/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649427 — **Prep Batch: 648625**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.870		ug/L		87	80 - 118

Lab Sample ID: LCSD 410-648625/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649427 — **Prep Batch: 648625**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.00	0.843		ug/L		84	80 - 118	3	20

Method: 9040C - pH

Lab Sample ID: LCS 410-649923/1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		99	95 - 105

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-648330/53 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			05/23/25 11:14	1

Lab Sample ID: LCS 410-648330/52 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0479		mg/L		96	82 - 132

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223364-1

GC/MS VOA

Analysis Batch: 648123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-1	TB-052125	Total/NA	Water	8260D	
410-223364-2	QM-P-254571-052125	Total/NA	Water	8260D	
MB 410-648123/7	Method Blank	Total/NA	Water	8260D	
LCS 410-648123/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-648123/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 649376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	3510C	
MB 410-649376/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-649376/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-649376/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 650031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	8270D SIM	649376
MB 410-649376/1-A	Method Blank	Total/NA	Water	8270D SIM	649376
LCS 410-649376/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	649376
LCSD 410-649376/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	649376

GC VOA

Analysis Batch: 648164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-1	TB-052125	Total/NA	Water	8015D	
410-223364-2	QM-P-254571-052125	Total/NA	Water	8015D	
MB 410-648164/5	Method Blank	Total/NA	Water	8015D	
LCS 410-648164/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-648164/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 648875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-1	TB-052125	Total/NA	Water	8011	
410-223364-2	QM-P-254571-052125	Total/NA	Water	8011	
MB 410-648875/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-648875/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-648875/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 649391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	3510C	
MB 410-649391/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-649391/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-649391/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 649534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-1	TB-052125	Total/NA	Water	8011	648875

GC Semi VOA (Continued)

Analysis Batch: 649534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	8011	648875
MB 410-648875/1-A	Method Blank	Total/NA	Water	8011	648875
LCS 410-648875/2-A	Lab Control Sample	Total/NA	Water	8011	648875
LCSD 410-648875/3-A	Lab Control Sample Dup	Total/NA	Water	8011	648875

Analysis Batch: 650236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	8015D	649391
MB 410-649391/1-A	Method Blank	Total/NA	Water	8015D	649391
LCS 410-649391/2-A	Lab Control Sample	Total/NA	Water	8015D	649391
LCSD 410-649391/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	649391

Prep Batch: 653244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	3510C	
MB 410-653244/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-653244/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 653727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	8082A	653244
MB 410-653244/1-A	Method Blank	Total/NA	Water	8082A	653244
LCS 410-653244/2-A	Lab Control Sample	Total/NA	Water	8082A	653244

Analysis Batch: 654003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	PCB	

HPLC/IC

Analysis Batch: 648385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	EPA 300.0 R2.1	
MB 410-648385/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-648385/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-648385/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 645322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total Recoverable	Water	3005A	
MB 410-645322/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-645322/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 648625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	7470A	
MB 410-648625/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-648625/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 410-648625/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

QC Association Summary

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Metals

Analysis Batch: 649424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total Recoverable	Water	6020B	645322
MB 410-645322/1-A	Method Blank	Total Recoverable	Water	6020B	645322
LCS 410-645322/2-A	Lab Control Sample	Total Recoverable	Water	6020B	645322

Analysis Batch: 649427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	7470A	648625
MB 410-648625/1-A	Method Blank	Total/NA	Water	7470A	648625
LCS 410-648625/2-A	Lab Control Sample	Total/NA	Water	7470A	648625
LCSD 410-648625/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	648625

General Chemistry

Analysis Batch: 648330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	OIA-1677	
MB 410-648330/53	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-648330/52	Lab Control Sample	Total/NA	Water	OIA-1677	

Analysis Batch: 649923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223364-2	QM-P-254571-052125	Total/NA	Water	9040C	
LCS 410-649923/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: TB-052125
Lab Sample ID: 410-223364-1

Date Collected: 05/21/25 07:00
Matrix: Water
Date Received: 05/21/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	648123	N7YK	ELLE	05/23/25 12:12
Total/NA	Analysis	8015D		1	648164	P5AM	ELLE	05/23/25 12:54
Total/NA	Prep	8011			648875	USL7	ELLE	05/26/25 23:28
Total/NA	Analysis	8011		1	649534	URS0	ELLE	05/28/25 13:12

Client Sample ID: QM-P-254571-052125
Lab Sample ID: 410-223364-2

Date Collected: 05/21/25 09:15
Matrix: Water
Date Received: 05/21/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	648123	N7YK	ELLE	05/23/25 16:18
Total/NA	Prep	3510C			649376	L2FU	ELLE	05/27/25 20:53
Total/NA	Analysis	8270D SIM		1	650031	TB8M	ELLE	05/29/25 10:37
Total/NA	Analysis	8015D		1	648164	P5AM	ELLE	05/23/25 14:36
Total/NA	Prep	8011			648875	USL7	ELLE	05/26/25 23:28
Total/NA	Analysis	8011		1	649534	URS0	ELLE	05/28/25 13:29
Total/NA	Prep	3510C			649391	T9CY	ELLE	05/27/25 21:31
Total/NA	Analysis	8015D		1	650236	KP5X	ELLE	05/29/25 14:07
Total/NA	Prep	3510C			653244	ZFS6	ELLE	06/05/25 08:42
Total/NA	Analysis	8082A		1	653727	URS0	ELLE	06/05/25 19:55
Total/NA	Analysis	PCB		1	654003	URS0	ELLE	06/05/25 19:55
Total/NA	Analysis	EPA 300.0 R2.1		10	648385	L4QM	ELLE	05/23/25 19:16
Total Recoverable	Prep	3005A			645322	UAMX	ELLE	05/23/25 21:00
Total Recoverable	Analysis	6020B		1	649424	LHF4	ELLE	05/27/25 23:04
Total/NA	Prep	7470A			648625	UAMX	ELLE	05/24/25 21:45
Total/NA	Analysis	7470A		1	649427	IJ3I	ELLE	05/27/25 23:55
Total/NA	Analysis	9040C		1	649923	RTF5	ELLE	05/28/25 18:24
Total/NA	Analysis	OIA-1677		1	648330	Q3HN	ELLE	05/23/25 11:54

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223364-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc
Job ID: 410-223364-1
Project/Site: Soil and Water Analysis - QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-223364-1	TB-052125	Water	05/21/25 07:00	05/21/25 16:56
410-223364-2	QM-P-254571-052125	Water	05/21/25 09:15	05/21/25 16:56

nvironme

Chain of Custody Record

eurofins | Environment Testing

410-223364 Chain of Custody

Sampler: Walt Payton	Lab PM: Gordon, Stephen J	Carrier Tracking No(s): Lab	COC No: 410-152448-41887.1
Phone: 301 991-3914	E-Mail: Stephen.Gordon@el.eurofinsus.com	State of Origin: Maryland	Page: Page 1 of 1

Amy McGivney

Company: Tetra Tech Inc

PWSID:

Job #:

Address: 20251 Century Blvd Suite 200

City: Germantown

State, Zip: MD, 20874

Phone: 301-528-3004(Tel) 301-528-3000(Fax)

Email: amy.mcgivney@tetratech.com

Project Name: Soil and Water Analysis - QL Frederick

Site: Quantum Maryland

Due Date Requested:

TAT Requested (days): 5 day TAT

Compliance Project: Δ Yes Δ No

PO #: 1209358

WO #:

Project #: 41018786

SSOW#:

Analysis Requested

Preservation Codes: A - HCL; D - HNO3; N - None; B - NaOH

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)	8260D_LL - TCL VOCs 4.3	8011 - Ethylene Dibromide	6020B, 7470A	8270D_SIM - 16 PAHs	8082A_LL - Standard PCB List	8015D_DRO - Diesel Range Organics (C10-C-28)	8015D_GRO - (MOD) Gasoline Range Organics	300_ORGFM_28D - Fluoride	1677_Free - Free Cyanide	9040C - pH, Temperature, Corrosivity				Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	D	N	N	A	A	N	B	N					
TB-052125	5/21/25	0700	G	Water			X	X	-	-	-	-	X	-	-	-				6	
QM-P-254571		0915		Water			X	X	X	X	X	X	X	X	X	X				19	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water			* 5 day TAT *														

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
Walt P	5/21/25 1330	TT		5/21/25 13:30	ELL
	5/21/25 16:56	ELL			
				5/21/25 1656	ELL

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

Cooler Temperature(s) °C and Other Remarks: R: 10.5 C: 10.6

Ver: 05/06/2024

6/6/2025

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-223364-1

Login Number: 223364
List Number: 1
Creator: McDonald, Teigan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 6/6/2025 10:44:18 AM

JOB DESCRIPTION

Soil and Water Analysis - QL Frederick

JOB NUMBER

410-223726-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
6/6/2025 10:44:18 AM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job Narrative
410-223726-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/22/2025 6:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.5°C and 1.5°C.

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-649517 recovered outside acceptance criteria, low biased, for Acetone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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_SIM: Naphthalene was detected above the reporting limit (RL) in the method blank associated with preparation batch 410-650430 and analytical batch 410-651352 as well as in the following samples: QM-R-SV222212-20250522 (410-223726-1) and QM-P-257300-20250522 (410-223726-2). The associated samples were re-extracted and/or re-analyzed outside of holding time. The initial in-hold sample and quality control data are reported.

Method 8270D_SIM: The laboratory control sample (LCS) for preparation batch 410-650430 and analytical batch 410-651352 recovered outside control limits for the following analytes: Naphthalene. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. The initial in-hold sample and quality control data are reported.

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

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

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

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

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

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

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

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

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223726-1

Client Sample ID: QM-R-SV222212-20250522 — Lab Sample ID: 410-223726-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.95		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.51		0.50	0.080	ug/L	1		8260D	Total/NA
Naphthalene	0.60	B *+ cn	0.076	0.074	ug/L	1		8270D SIM	Total/NA
Fluoride	1.7		0.20	0.10	mg/L	1		EPA 300.0 R2.1	Total/NA
Aluminum	330		25	12	ug/L	1		6020B	Total Recoverable
Barium	28		2.0	0.75	ug/L	1		6020B	Total Recoverable
Cadmium	0.47	J	0.50	0.15	ug/L	1		6020B	Total Recoverable
Calcium	120000		120	50	ug/L	1		6020B	Total Recoverable
Chromium	1.0	J	2.0	0.55	ug/L	1		6020B	Total Recoverable
Cobalt	0.50		0.50	0.16	ug/L	1		6020B	Total Recoverable
Iron	260		50	20	ug/L	1		6020B	Total Recoverable
Lead	0.18	J	0.50	0.12	ug/L	1		6020B	Total Recoverable
Magnesium	22000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	300		2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	1.1		1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	3000		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.77	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	110000		200	90	ug/L	1		6020B	Total Recoverable
Zinc	25		10	4.0	ug/L	1		6020B	Total Recoverable
pH	6.9	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.5	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	no	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-P-257300-20250522 — Lab Sample ID: 410-223726-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.47	B *+ cn	0.071	0.069	ug/L	1		8270D SIM	Total/NA
Fluoride	5.7		2.0	1.0	mg/L	10		EPA 300.0 R2.1	Total/NA
Aluminum	2500		25	12	ug/L	1		6020B	Total Recoverable
Arsenic	0.69	J	2.0	0.68	ug/L	1		6020B	Total Recoverable
Barium	38		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	83000		120	50	ug/L	1		6020B	Total Recoverable
Chromium	4.5		2.0	0.55	ug/L	1		6020B	Total Recoverable
Cobalt	1.0		0.50	0.16	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-P-257300-20250522 (Continued) — Lab Sample ID: 410-223726-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.5		1.0	0.85	ug/L	1		6020B	Total Recoverable
Iron	1700		50	20	ug/L	1		6020B	Total Recoverable
Lead	1.1		0.50	0.12	ug/L	1		6020B	Total Recoverable
Magnesium	17000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	39		2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	3.3		1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	5000		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.87	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	65000		200	90	ug/L	1		6020B	Total Recoverable
Zinc	5.1	J	10	4.0	ug/L	1		6020B	Total Recoverable
Vanadium	3.4	J	4.0	0.79	ug/L	1		6020B	Total Recoverable
pH	7.6	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.6	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	no	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: TB1-052225 — Lab Sample ID: 410-223726-3

No Detections.

Client Sample ID: TB2-052225 — Lab Sample ID: 410-223726-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.084	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223726-1

Client Sample ID: QM-R-SV222212-20250522

Lab Sample ID: 410-223726-1

Date Collected: 05/22/25 11:30
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 12:43	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 12:43	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/28/25 12:43	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 12:43	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 12:43	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/28/25 12:43	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/28/25 12:43	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/28/25 12:43	1
Acetone	<1.5	cn	5.0	1.5	ug/L			05/28/25 12:43	1
Benzene	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
Bromoform	<0.30		1.0	0.30	ug/L			05/28/25 12:43	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/28/25 12:43	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 12:43	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Chloroform	<0.090		0.50	0.090	ug/L			05/28/25 12:43	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
cis-1,2-Dichloroethene	**0.22**	**J**	0.50	0.080	ug/L			05/28/25 12:43	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/28/25 12:43	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/28/25 12:43	1
Styrene	<0.070		0.50	0.070	ug/L			05/28/25 12:43	1
Tetrachloroethene	**0.95**		0.50	0.20	ug/L			05/28/25 12:43	1
Toluene	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/28/25 12:43	1
Trichloroethene	**0.51**		0.50	0.080	ug/L			05/28/25 12:43	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/28/25 12:43	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/28/25 12:43	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223726-1

Client Sample ID: QM-R-SV222212-20250522

Lab Sample ID: 410-223726-1

Date Collected: 05/22/25 11:30
Matrix: Water
Date Received: 05/22/25 18:24

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*05/28/25 12:43*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/28/25 12:43*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*05/28/25 12:43*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/28/25 12:43*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Acenaphthylene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Anthracene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Benzo[a]anthracene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Benzo[a]pyrene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Benzo[b]fluoranthene	<0.051		0.054	0.051	ug/L		05/29/25 15:38	05/31/25 01:14	1
Benzo[g,h,i]perylene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Benzo[k]fluoranthene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Chrysene	<0.027		0.054	0.027	ug/L		05/29/25 15:38	05/31/25 01:14	1
Dibenz(a,h)anthracene	<0.022		0.054	0.022	ug/L		05/29/25 15:38	05/31/25 01:14	1
Fluoranthene	<0.025		0.054	0.025	ug/L		05/29/25 15:38	05/31/25 01:14	1
Fluorene	<0.011		0.054	0.011	ug/L		05/29/25 15:38	05/31/25 01:14	1
Indeno[1,2,3-cd]pyrene	<0.022		0.054	0.022	ug/L		05/29/25 15:38	05/31/25 01:14	1
Naphthalene	**0.60**	**B *+ cn**	0.076	0.074	ug/L		05/29/25 15:38	06/02/25 13:19	1
Phenanthrene	<0.033		0.076	0.033	ug/L		05/29/25 15:38	05/31/25 01:14	1
Pyrene	<0.023		0.054	0.023	ug/L		05/29/25 15:38	05/31/25 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*38*		*10 - 121*	*05/29/25 15:38*	*05/31/25 01:14*	*1*
Benzo(a)pyrene-d12 (Surr)	*36*		*10 - 121*	*05/29/25 15:38*	*06/02/25 13:19*	*1*
1-Methylnaphthalene-d10 (Surr)	*85*		*30 - 127*	*05/29/25 15:38*	*05/31/25 01:14*	*1*
1-Methylnaphthalene-d10 (Surr)	*86*		*30 - 127*	*05/29/25 15:38*	*06/02/25 13:19*	*1*
Fluoranthene-d10 (Surr)	*88*		*34 - 130*	*05/29/25 15:38*	*05/31/25 01:14*	*1*
Fluoranthene-d10 (Surr)	*102*		*34 - 130*	*05/29/25 15:38*	*06/02/25 13:19*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/24/25 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*102*		*63 - 135*		*05/24/25 19:16*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		05/26/25 23:28	05/28/25 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*118*		*46 - 136*	*05/26/25 23:28*	*05/28/25 13:46*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*124*		*46 - 136*	*05/26/25 23:28*	*05/28/25 13:46*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		05/27/25 21:31	05/29/25 14:29	1

Client Sample ID: QM-R-SV222212-20250522
Lab Sample ID: 410-223726-1

Date Collected: 05/22/25 11:30
Matrix: Water
Date Received: 05/22/25 18:24

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*77*		*32 - 125*	*05/27/25 21:31*	*05/29/25 14:29*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0077		0.0097	0.0077	ug/L		06/05/25 08:42	06/05/25 20:08	1
PCB-1221 (1C)	<0.0077		0.0097	0.0077	ug/L		06/05/25 08:42	06/05/25 20:08	1
PCB-1232 (1C)	<0.0077		0.0097	0.0077	ug/L		06/05/25 08:42	06/05/25 20:08	1
PCB-1242 (1C)	<0.0077		0.0097	0.0077	ug/L		06/05/25 08:42	06/05/25 20:08	1
PCB-1248 (1C)	<0.0077		0.0097	0.0077	ug/L		06/05/25 08:42	06/05/25 20:08	1
PCB-1254 (1C)	<0.0048		0.0097	0.0048	ug/L		06/05/25 08:42	06/05/25 20:08	1
PCB-1260 (1C)	<0.0048		0.0097	0.0048	ug/L		06/05/25 08:42	06/05/25 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*111*		*46 - 161*	*06/05/25 08:42*	*06/05/25 20:08*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*99*		*46 - 161*	*06/05/25 08:42*	*06/05/25 20:08*	*1*
Tetrachloro-m-xylene (1C)	*78*		*41 - 146*	*06/05/25 08:42*	*06/05/25 20:08*	*1*
Tetrachloro-m-xylene (2C)	*74*		*41 - 146*	*06/05/25 08:42*	*06/05/25 20:08*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0077		0.0097	0.0077	ug/L			06/05/25 20:08	1
PCB-1221	<0.0077		0.0097	0.0077	ug/L			06/05/25 20:08	1
PCB-1232	<0.0077		0.0097	0.0077	ug/L			06/05/25 20:08	1
PCB-1242	<0.0077		0.0097	0.0077	ug/L			06/05/25 20:08	1
PCB-1248	<0.0077		0.0097	0.0077	ug/L			06/05/25 20:08	1
PCB-1254	<0.0048		0.0097	0.0048	ug/L			06/05/25 20:08	1
PCB-1260	<0.0048		0.0097	0.0048	ug/L			06/05/25 20:08	1
Polychlorinated biphenyls, Total	<0.0077		0.0097	0.0077	ug/L			06/05/25 20:08	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.7**		0.20	0.10	mg/L			05/28/25 13:03	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**330**		25	12	ug/L		05/29/25 22:30	05/30/25 11:01	1
Antimony	<0.20		1.0	0.20	ug/L		05/29/25 22:30	05/30/25 11:01	1
Arsenic	<0.68		2.0	0.68	ug/L		05/29/25 22:30	05/30/25 11:01	1
Barium	**28**		2.0	0.75	ug/L		05/29/25 22:30	05/30/25 11:01	1
Beryllium	<0.12		0.50	0.12	ug/L		05/29/25 22:30	05/30/25 11:01	1
Cadmium	**0.47**	**J**	0.50	0.15	ug/L		05/29/25 22:30	05/30/25 11:01	1
Calcium	**120000**		120	50	ug/L		05/29/25 22:30	05/30/25 11:01	1
Chromium	**1.0**	**J**	2.0	0.55	ug/L		05/29/25 22:30	05/30/25 11:01	1
Cobalt	**0.50**		0.50	0.16	ug/L		05/29/25 22:30	05/30/25 11:01	1
Copper	<0.85		1.0	0.85	ug/L		05/29/25 22:30	05/30/25 11:01	1
Iron	**260**		50	20	ug/L		05/29/25 22:30	05/30/25 11:01	1
Lead	**0.18**	**J**	0.50	0.12	ug/L		05/29/25 22:30	05/30/25 11:01	1
Magnesium	**22000**		50	16	ug/L		05/29/25 22:30	05/30/25 11:01	1
Manganese	**300**		2.0	0.95	ug/L		05/29/25 22:30	05/30/25 11:01	1
Nickel	**1.1**		1.0	0.40	ug/L		05/29/25 22:30	05/30/25 11:01	1
Potassium	**3000**		200	65	ug/L		05/29/25 22:30	05/30/25 11:01	1

Client Sample ID: QM-R-SV222212-20250522
Lab Sample ID: 410-223726-1

Date Collected: 05/22/25 11:30
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.77**	**J**	1.0	0.28	ug/L		05/29/25 22:30	05/30/25 11:01	1
Silver	<0.10		0.50	0.10	ug/L		05/29/25 22:30	05/30/25 11:01	1
Sodium	**110000**		200	90	ug/L		05/29/25 22:30	05/30/25 11:01	1
Thallium	<0.13		0.50	0.13	ug/L		05/29/25 22:30	05/30/25 11:01	1
Zinc	**25**		10	4.0	ug/L		05/29/25 22:30	05/30/25 11:01	1
Vanadium	<0.79		4.0	0.79	ug/L		05/29/25 22:30	05/30/25 11:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		05/31/25 01:40	06/02/25 20:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**6.9**	**HF**	0.01	0.01	S.U.			05/28/25 18:24	1
Temperature (SW846 9040C)	**21.5**	**HF**	0.01	0.01	Degrees C			05/28/25 18:24	1
Corrosivity (SW846 9040C)	**no**	**HF**	0.01	0.01	NONE			05/28/25 18:24	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			05/24/25 12:02	1

Client Sample ID: QM-P-257300-20250522
Lab Sample ID: 410-223726-2

Date Collected: 05/22/25 12:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 13:04	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 13:04	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/28/25 13:04	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 13:04	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 13:04	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/28/25 13:04	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/28/25 13:04	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/28/25 13:04	1
Acetone	<1.5	cn	5.0	1.5	ug/L			05/28/25 13:04	1
Benzene	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
Bromoform	<0.30		1.0	0.30	ug/L			05/28/25 13:04	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/28/25 13:04	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 13:04	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Chloroform	<0.090		0.50	0.090	ug/L			05/28/25 13:04	1

Client Sample ID: QM-P-257300-20250522
Lab Sample ID: 410-223726-2

Date Collected: 05/22/25 12:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/28/25 13:04	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/28/25 13:04	1
Styrene	<0.070		0.50	0.070	ug/L			05/28/25 13:04	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/28/25 13:04	1
Toluene	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/28/25 13:04	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/28/25 13:04	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/28/25 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*05/28/25 13:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/28/25 13:04*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*05/28/25 13:04*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/28/25 13:04*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Acenaphthylene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Anthracene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Benzo[a]anthracene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Benzo[a]pyrene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Benzo[b]fluoranthene	<0.048		0.051	0.048	ug/L		05/29/25 15:38	05/31/25 01:36	1
Benzo[g,h,i]perylene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Benzo[k]fluoranthene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Chrysene	<0.025		0.051	0.025	ug/L		05/29/25 15:38	05/31/25 01:36	1
Dibenz(a,h)anthracene	<0.020		0.051	0.020	ug/L		05/29/25 15:38	05/31/25 01:36	1
Fluoranthene	<0.023		0.051	0.023	ug/L		05/29/25 15:38	05/31/25 01:36	1
Fluorene	<0.010		0.051	0.010	ug/L		05/29/25 15:38	05/31/25 01:36	1
Indeno[1,2,3-cd]pyrene	<0.020		0.051	0.020	ug/L		05/29/25 15:38	05/31/25 01:36	1
Naphthalene	**0.47**	**B *+ cn**	0.071	0.069	ug/L		05/29/25 15:38	06/02/25 13:40	1
Phenanthrene	<0.030		0.071	0.030	ug/L		05/29/25 15:38	05/31/25 01:36	1
Pyrene	<0.021		0.051	0.021	ug/L		05/29/25 15:38	05/31/25 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*58*		*10 - 121*	*05/29/25 15:38*	*05/31/25 01:36*	*1*

Client Sample ID: QM-P-257300-20250522
Lab Sample ID: 410-223726-2

Date Collected: 05/22/25 12:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	54		10 - 121	05/29/25 15:38	06/02/25 13:40	1
1-Methylnaphthalene-d10 (Surr)	86		30 - 127	05/29/25 15:38	05/31/25 01:36	1
1-Methylnaphthalene-d10 (Surr)	92		30 - 127	05/29/25 15:38	06/02/25 13:40	1
Fluoranthene-d10 (Surr)	96		34 - 130	05/29/25 15:38	05/31/25 01:36	1
Fluoranthene-d10 (Surr)	109		34 - 130	05/29/25 15:38	06/02/25 13:40	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/24/25 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	102		63 - 135		05/24/25 19:41	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		05/26/25 23:28	05/28/25 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	103		46 - 136	05/26/25 23:28	05/28/25 14:37	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	102		46 - 136	05/26/25 23:28	05/28/25 14:37	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		05/27/25 21:31	05/29/25 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	85		32 - 125	05/27/25 21:31	05/29/25 14:52	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0075		0.0094	0.0075	ug/L		06/05/25 08:42	06/05/25 20:21	1
PCB-1221 (1C)	<0.0075		0.0094	0.0075	ug/L		06/05/25 08:42	06/05/25 20:21	1
PCB-1232 (1C)	<0.0075		0.0094	0.0075	ug/L		06/05/25 08:42	06/05/25 20:21	1
PCB-1242 (1C)	<0.0075		0.0094	0.0075	ug/L		06/05/25 08:42	06/05/25 20:21	1
PCB-1248 (1C)	<0.0075		0.0094	0.0075	ug/L		06/05/25 08:42	06/05/25 20:21	1
PCB-1254 (1C)	<0.0047		0.0094	0.0047	ug/L		06/05/25 08:42	06/05/25 20:21	1
PCB-1260 (1C)	<0.0047		0.0094	0.0047	ug/L		06/05/25 08:42	06/05/25 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	88		46 - 161	06/05/25 08:42	06/05/25 20:21	1
DCB Decachlorobiphenyl (Surr) (2C)	83		46 - 161	06/05/25 08:42	06/05/25 20:21	1
Tetrachloro-m-xylene (1C)	78		41 - 146	06/05/25 08:42	06/05/25 20:21	1
Tetrachloro-m-xylene (2C)	74		41 - 146	06/05/25 08:42	06/05/25 20:21	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0075		0.0094	0.0075	ug/L			06/05/25 20:21	1
PCB-1221	<0.0075		0.0094	0.0075	ug/L			06/05/25 20:21	1
PCB-1232	<0.0075		0.0094	0.0075	ug/L			06/05/25 20:21	1
PCB-1242	<0.0075		0.0094	0.0075	ug/L			06/05/25 20:21	1
PCB-1248	<0.0075		0.0094	0.0075	ug/L			06/05/25 20:21	1

Client Sample ID: QM-P-257300-20250522
Lab Sample ID: 410-223726-2

Date Collected: 05/22/25 12:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: TAL SOP PCB - Total PCB Calculation (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.0047		0.0094	0.0047	ug/L			06/05/25 20:21	1
PCB-1260	<0.0047		0.0094	0.0047	ug/L			06/05/25 20:21	1
Polychlorinated biphenyls, Total	<0.0075		0.0094	0.0075	ug/L			06/05/25 20:21	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**5.7**		2.0	1.0	mg/L			05/28/25 13:12	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2500**		25	12	ug/L		05/29/25 23:00	05/30/25 11:53	1
Antimony	<0.20		1.0	0.20	ug/L		05/29/25 23:00	05/30/25 11:53	1
Arsenic	**0.69**	**J**	2.0	0.68	ug/L		05/29/25 23:00	05/30/25 11:53	1
Barium	**38**		2.0	0.75	ug/L		05/29/25 23:00	05/30/25 11:53	1
Beryllium	<0.12		0.50	0.12	ug/L		05/29/25 23:00	05/30/25 11:53	1
Cadmium	<0.15		0.50	0.15	ug/L		05/29/25 23:00	05/30/25 11:53	1
Calcium	**83000**		120	50	ug/L		05/29/25 23:00	05/30/25 11:53	1
Chromium	**4.5**		2.0	0.55	ug/L		05/29/25 23:00	05/30/25 11:53	1
Cobalt	**1.0**		0.50	0.16	ug/L		05/29/25 23:00	05/30/25 11:53	1
Copper	**1.5**		1.0	0.85	ug/L		05/29/25 23:00	05/30/25 11:53	1
Iron	**1700**		50	20	ug/L		05/29/25 23:00	05/30/25 11:53	1
Lead	**1.1**		0.50	0.12	ug/L		05/29/25 23:00	05/30/25 11:53	1
Magnesium	**17000**		50	16	ug/L		05/29/25 23:00	05/30/25 11:53	1
Manganese	**39**		2.0	0.95	ug/L		05/29/25 23:00	05/30/25 11:53	1
Nickel	**3.3**		1.0	0.40	ug/L		05/29/25 23:00	05/30/25 11:53	1
Potassium	**5000**		200	65	ug/L		05/29/25 23:00	05/30/25 11:53	1
Selenium	**0.87**	**J**	1.0	0.28	ug/L		05/29/25 23:00	05/30/25 11:53	1
Silver	<0.10		0.50	0.10	ug/L		05/29/25 23:00	05/30/25 11:53	1
Sodium	**65000**		200	90	ug/L		05/29/25 23:00	05/30/25 11:53	1
Thallium	<0.13		0.50	0.13	ug/L		05/29/25 23:00	05/30/25 11:53	1
Zinc	**5.1**	**J**	10	4.0	ug/L		05/29/25 23:00	05/30/25 11:53	1
Vanadium	**3.4**	**J**	4.0	0.79	ug/L		05/29/25 23:00	05/30/25 11:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		05/31/25 01:40	06/02/25 20:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**7.6**	**HF**	0.01	0.01	S.U.			05/28/25 18:24	1
Temperature (SW846 9040C)	**21.6**	**HF**	0.01	0.01	Degrees C			05/28/25 18:24	1
Corrosivity (SW846 9040C)	**no**	**HF**	0.01	0.01	NONE			05/28/25 18:24	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			05/24/25 12:05	1

Client Sample ID: TB1-052225
Lab Sample ID: 410-223726-3

Date Collected: 05/22/25 07:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1

Client Sample ID: TB1-052225
Lab Sample ID: 410-223726-3

Date Collected: 05/22/25 07:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:47	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:47	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/27/25 12:47	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:47	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:47	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/27/25 12:47	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/27/25 12:47	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/27/25 12:47	1
Acetone	<1.5		5.0	1.5	ug/L			05/27/25 12:47	1
Benzene	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
Bromoform	<0.30		1.0	0.30	ug/L			05/27/25 12:47	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/27/25 12:47	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:47	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Chloroform	<0.090		0.50	0.090	ug/L			05/27/25 12:47	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
Dichlorodifluoromethane	<0.10	*+	0.50	0.10	ug/L			05/27/25 12:47	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/27/25 12:47	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/27/25 12:47	1
Styrene	<0.070		0.50	0.070	ug/L			05/27/25 12:47	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/27/25 12:47	1
Toluene	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/27/25 12:47	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/27/25 12:47	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/27/25 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*05/27/25 12:47*	*1*

Client Sample ID: TB1-052225
Lab Sample ID: 410-223726-3

Date Collected: 05/22/25 07:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*05/27/25 12:47*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/27/25 12:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/27/25 12:47*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/24/25 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*102*		*63 - 135*		*05/24/25 13:22*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		05/26/25 23:28	05/28/25 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*100*		*46 - 136*	*05/26/25 23:28*	*05/28/25 14:54*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*102*		*46 - 136*	*05/26/25 23:28*	*05/28/25 14:54*	*1*

Client Sample ID: TB2-052225
Lab Sample ID: 410-223726-4

Date Collected: 05/22/25 08:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 13:10	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 13:10	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/27/25 13:10	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 13:10	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 13:10	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/27/25 13:10	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/27/25 13:10	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/27/25 13:10	1
Acetone	<1.5		5.0	1.5	ug/L			05/27/25 13:10	1
Benzene	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
Bromoform	<0.30		1.0	0.30	ug/L			05/27/25 13:10	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/27/25 13:10	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 13:10	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1

Client Sample ID: TB2-052225
Lab Sample ID: 410-223726-4

Date Collected: 05/22/25 08:00
Matrix: Water
Date Received: 05/22/25 18:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090		0.50	0.090	ug/L			05/27/25 13:10	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
Dichlorodifluoromethane	<0.10	*+	0.50	0.10	ug/L			05/27/25 13:10	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/27/25 13:10	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/27/25 13:10	1
Styrene	<0.070		0.50	0.070	ug/L			05/27/25 13:10	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/27/25 13:10	1
Toluene	**0.084**	**J**	0.50	0.080	ug/L			05/27/25 13:10	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/27/25 13:10	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/27/25 13:10	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/27/25 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*05/27/25 13:10*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*05/27/25 13:10*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*05/27/25 13:10*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/27/25 13:10*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/24/25 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*102*		*63 - 135*		*05/24/25 13:47*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		05/26/25 23:28	05/28/25 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*100*		*46 - 136*	*05/26/25 23:28*	*05/28/25 15:11*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*102*		*46 - 136*	*05/26/25 23:28*	*05/28/25 15:11*	*1*

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223726-1

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-223726-1	QM-R-SV222212-20250522	102	98	95	94
410-223726-2	QM-P-257300-20250522	102	97	95	94
410-223726-3	TB1-052225	106	85	108	100
410-223726-4	TB2-052225	106	88	110	101
LCS 410-649034/5	Lab Control Sample	104	95	105	104
LCS 410-649517/5	Lab Control Sample	101	102	93	97
MB 410-649034/8	Method Blank	105	87	107	100
MB 410-649517/7	Method Blank	102	97	94	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	MNPd10	FLN10
Lab Sample ID	Client Sample ID	(10-121)	(30-127)	(34-130)
410-223726-1	QM-R-SV222212-20250522	38	85	88
410-223726-1	QM-R-SV222212-20250522	36	86	102
410-223726-2	QM-P-257300-20250522	58	86	96
410-223726-2	QM-P-257300-20250522	54	92	109
LCS 410-650430/2-A	Lab Control Sample	78	79	82
MB 410-650430/1-A	Method Blank	73	78	79

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-223726-1	QM-R-SV222212-20250522	102
410-223726-2	QM-P-257300-20250522	102
410-223726-3	TB1-052225	102
410-223726-4	TB2-052225	102
LCS 410-648666/6	Lab Control Sample	93
LCSD 410-648666/7	Lab Control Sample Dup	94
MB 410-648666/5	Method Blank	102

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-223726-1	QM-R-SV222212-20250522	118	124
410-223726-2	QM-P-257300-20250522	103	102
410-223726-3	TB1-052225	100	102
410-223726-4	TB2-052225	100	102
LCS 410-648875/2-A	Lab Control Sample	94	100
LCSD 410-648875/3-A	Lab Control Sample Dup	96	100
MB 410-648875/1-A	Method Blank	95	99

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTP (32-125)
410-223726-1	QM-R-SV222212-20250522	77
410-223726-2	QM-P-257300-20250522	85
LCS 410-649391/2-A	Lab Control Sample	75
LCSD 410-649391/3-A	Lab Control Sample Dup	82
MB 410-649391/1-A	Method Blank	79

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-223726-1	QM-R-SV222212-20250522	111	99	78	74
410-223726-2	QM-P-257300-20250522	88	83	78	74
LCS 410-653244/2-A	Lab Control Sample	126	110	79	74
MB 410-653244/1-A	Method Blank	125	114	76	71

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-649034/8
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:25	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:25	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/27/25 12:25	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:25	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:25	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/27/25 12:25	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/27/25 12:25	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/27/25 12:25	1
Acetone	<1.5		5.0	1.5	ug/L			05/27/25 12:25	1
Benzene	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
Bromoform	<0.30		1.0	0.30	ug/L			05/27/25 12:25	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/27/25 12:25	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/27/25 12:25	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Chloroform	<0.090		0.50	0.090	ug/L			05/27/25 12:25	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/27/25 12:25	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/27/25 12:25	1
Styrene	<0.070		0.50	0.070	ug/L			05/27/25 12:25	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/27/25 12:25	1
Toluene	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/27/25 12:25	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/27/25 12:25	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/27/25 12:25	1

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

Lab Sample ID: MB 410-649034/8
Matrix: Water
Analysis Batch: 649034

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		05/27/25 12:25	1
4-Bromofluorobenzene (Surr)	87		80 - 120		05/27/25 12:25	1
Dibromofluoromethane (Surr)	107		80 - 120		05/27/25 12:25	1
Toluene-d8 (Surr)	100		80 - 120		05/27/25 12:25	1

Lab Sample ID: LCS 410-649034/5
Matrix: Water
Analysis Batch: 649034

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-Trichloroethane	5.00	5.27		ug/L		105	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.52		ug/L		110	75 - 123
1,1,2-Trichloroethane	5.00	5.47		ug/L		109	80 - 120
1,1-Dichloroethane	5.00	5.39		ug/L		108	74 - 120
1,1-Dichloroethene	5.00	6.14		ug/L		123	80 - 131
1,2,4-Trichlorobenzene	5.00	4.18		ug/L		84	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.45		ug/L		89	75 - 124
1,2-Dibromoethane	5.00	5.28		ug/L		106	80 - 120
1,2-Dichlorobenzene	5.00	5.15		ug/L		103	80 - 120
1,2-Dichloroethane	5.00	5.53		ug/L		111	69 - 122
1,2-Dichloropropane	5.00	5.35		ug/L		107	80 - 120
1,3-Dichlorobenzene	5.00	5.07		ug/L		101	80 - 120
1,4-Dichlorobenzene	5.00	5.08		ug/L		102	80 - 120
2-Butanone	62.5	74.2		ug/L		119	59 - 141
2-Hexanone	62.5	78.4		ug/L		126	52 - 140
4-Methyl-2-pentanone	62.5	77.2		ug/L		124	55 - 140
Acetone	62.5	67.9		ug/L		109	60 - 146
Benzene	5.00	5.21		ug/L		104	80 - 120
Bromodichloromethane	5.00	5.26		ug/L		105	80 - 123
Bromoform	5.00	4.85		ug/L		97	75 - 126
Bromomethane	5.00	5.80		ug/L		116	63 - 120
Carbon disulfide	5.00	4.85		ug/L		97	67 - 130
Carbon tetrachloride	5.00	5.15		ug/L		103	64 - 141
Chlorobenzene	5.00	5.37		ug/L		107	80 - 120
Chloroethane	5.00	5.83		ug/L		117	63 - 120
Chloroform	5.00	5.25		ug/L		105	80 - 120
Chloromethane	5.00	5.73		ug/L		115	56 - 124
cis-1,2-Dichloroethene	5.00	5.17		ug/L		103	80 - 122
cis-1,3-Dichloropropene	5.00	4.78		ug/L		96	67 - 121
Cyclohexane	5.00	5.12		ug/L		102	69 - 120
Dibromochloromethane	5.00	5.32		ug/L		106	80 - 123
Dichlorodifluoromethane	5.00	6.37	*+	ug/L		127	43 - 123
Ethylbenzene	5.00	5.36		ug/L		107	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	5.61		ug/L		112	67 - 124
Isopropylbenzene	5.00	5.79		ug/L		116	80 - 120
Methyl acetate	5.00	4.96		ug/L		99	59 - 143
Methyl tertiary butyl ether	5.00	4.72		ug/L		94	69 - 120
Methylcyclohexane	5.00	5.07		ug/L		101	80 - 120

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

Lab Sample ID: LCS 410-649034/5
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	5.41		ug/L		108	80 - 120
Styrene	5.00	5.16		ug/L		103	80 - 120
Tetrachloroethene	5.00	4.76		ug/L		95	80 - 120
Toluene	5.00	5.20		ug/L		104	80 - 120
trans-1,2-Dichloroethene	5.00	5.16		ug/L		103	80 - 122
trans-1,3-Dichloropropene	5.00	5.08		ug/L		102	61 - 129
Trichloroethene	5.00	5.01		ug/L		100	80 - 120
Trichlorofluoromethane	5.00	5.93		ug/L		119	53 - 136
Vinyl chloride	5.00	5.79		ug/L		116	60 - 125
Xylenes, Total	15.0	15.8		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 410-649517/7
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 11:17	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 11:17	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/28/25 11:17	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 11:17	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 11:17	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/28/25 11:17	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/28/25 11:17	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/28/25 11:17	1
Acetone	<1.5		5.0	1.5	ug/L			05/28/25 11:17	1
Benzene	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
Bromoform	<0.30		1.0	0.30	ug/L			05/28/25 11:17	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/28/25 11:17	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/28/25 11:17	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Chloroform	<0.090		0.50	0.090	ug/L			05/28/25 11:17	1

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

Lab Sample ID: MB 410-649517/7
Matrix: Water
Analysis Batch: 649517

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/28/25 11:17	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/28/25 11:17	1
Styrene	<0.070		0.50	0.070	ug/L			05/28/25 11:17	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/28/25 11:17	1
Toluene	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/28/25 11:17	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/28/25 11:17	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/28/25 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*05/28/25 11:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/28/25 11:17*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*05/28/25 11:17*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/28/25 11:17*	*1*

Lab Sample ID: LCS 410-649517/5
Matrix: Water
Analysis Batch: 649517

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-Trichloroethane	5.00	4.87		ug/L		97	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.26		ug/L		85	75 - 123
1,1,2-Trichloroethane	5.00	4.81		ug/L		96	80 - 120
1,1-Dichloroethane	5.00	5.14		ug/L		103	74 - 120
1,1-Dichloroethene	5.00	5.41		ug/L		108	80 - 131
1,2,4-Trichlorobenzene	5.00	5.62		ug/L		112	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.15		ug/L		83	75 - 124
1,2-Dibromoethane	5.00	4.70		ug/L		94	80 - 120
1,2-Dichlorobenzene	5.00	4.98		ug/L		100	80 - 120
1,2-Dichloroethane	5.00	4.47		ug/L		89	69 - 122
1,2-Dichloropropane	5.00	4.99		ug/L		100	80 - 120
1,3-Dichlorobenzene	5.00	5.01		ug/L		100	80 - 120
1,4-Dichlorobenzene	5.00	4.79		ug/L		96	80 - 120
2-Butanone	62.5	59.7		ug/L		95	59 - 141

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

Lab Sample ID: LCS 410-649517/5
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	62.5	59.1		ug/L		95	52 - 140
4-Methyl-2-pentanone	62.5	57.0		ug/L		91	55 - 140
Acetone	62.5	48.8		ug/L		78	60 - 146
Benzene	5.00	5.08		ug/L		102	80 - 120
Bromodichloromethane	5.00	4.38		ug/L		88	80 - 123
Bromoform	5.00	4.16		ug/L		83	75 - 126
Bromomethane	5.00	4.17		ug/L		83	63 - 120
Carbon disulfide	5.00	4.51		ug/L		90	67 - 130
Carbon tetrachloride	5.00	4.66		ug/L		93	64 - 141
Chlorobenzene	5.00	4.84		ug/L		97	80 - 120
Chloroethane	5.00	4.42		ug/L		88	63 - 120
Chloroform	5.00	4.76		ug/L		95	80 - 120
Chloromethane	5.00	4.31		ug/L		86	56 - 124
cis-1,2-Dichloroethene	5.00	5.41		ug/L		108	80 - 122
cis-1,3-Dichloropropene	5.00	5.01		ug/L		100	67 - 121
Cyclohexane	5.00	5.31		ug/L		106	69 - 120
Dibromochloromethane	5.00	4.12		ug/L		82	80 - 123
Dichlorodifluoromethane	5.00	5.18		ug/L		104	43 - 123
Ethylbenzene	5.00	4.95		ug/L		99	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	4.65		ug/L		93	67 - 124
Isopropylbenzene	5.00	5.82		ug/L		116	80 - 120
Methyl acetate	5.00	4.49		ug/L		90	59 - 143
Methyl tertiary butyl ether	5.00	5.06		ug/L		101	69 - 120
Methylcyclohexane	5.00	5.26		ug/L		105	80 - 120
Methylene Chloride	5.00	5.16		ug/L		103	80 - 120
Styrene	5.00	5.44		ug/L		109	80 - 120
Tetrachloroethene	5.00	4.89		ug/L		98	80 - 120
Toluene	5.00	5.00		ug/L		100	80 - 120
trans-1,2-Dichloroethene	5.00	5.36		ug/L		107	80 - 122
trans-1,3-Dichloropropene	5.00	4.71		ug/L		94	61 - 129
Trichloroethene	5.00	4.90		ug/L		98	80 - 120
Trichlorofluoromethane	5.00	4.69		ug/L		94	53 - 136
Vinyl chloride	5.00	4.84		ug/L		97	60 - 125
Xylenes, Total	15.0	15.5		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: MB 410-650430/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 651075
Prep Batch: 650430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1

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

Lab Sample ID: MB 410-650430/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 651075
Prep Batch: 650430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.010		0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1
Anthracene	<0.010		0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1
Benzo[a]anthracene	0.0101	J	0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1
Benzo[a]pyrene	0.0105	J	0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1
Benzo[b]fluoranthene	<0.047		0.050	0.047	ug/L		05/29/25 15:38	05/30/25 22:40	1
Benzo[g,h,i]perylene	<0.010		0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1
Benzo[k]fluoranthene	0.0283	J	0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1
Chrysene	<0.025		0.050	0.025	ug/L		05/29/25 15:38	05/30/25 22:40	1
Dibenz(a,h)anthracene	<0.020		0.050	0.020	ug/L		05/29/25 15:38	05/30/25 22:40	1
Fluoranthene	<0.023		0.050	0.023	ug/L		05/29/25 15:38	05/30/25 22:40	1
Fluorene	<0.010		0.050	0.010	ug/L		05/29/25 15:38	05/30/25 22:40	1
Indeno[1,2,3-cd]pyrene	0.0254	J	0.050	0.020	ug/L		05/29/25 15:38	05/30/25 22:40	1
Naphthalene	0.145		0.070	0.068	ug/L		05/29/25 15:38	05/30/25 22:40	1
Phenanthrene	<0.030		0.070	0.030	ug/L		05/29/25 15:38	05/30/25 22:40	1
Pyrene	<0.021		0.050	0.021	ug/L		05/29/25 15:38	05/30/25 22:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 121*	*05/29/25 15:38*	*05/30/25 22:40*	*1*
1-Methylnaphthalene-d10 (Surr)	*78*		*30 - 127*	*05/29/25 15:38*	*05/30/25 22:40*	*1*
Fluoranthene-d10 (Surr)	*79*		*34 - 130*	*05/29/25 15:38*	*05/30/25 22:40*	*1*

Lab Sample ID: LCS 410-650430/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 651075
Prep Batch: 650430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.00	0.740		ug/L		74	33 - 122
Acenaphthylene	1.00	0.754		ug/L		75	35 - 123
Anthracene	1.00	0.766		ug/L		77	40 - 127
Benzo[a]anthracene	1.00	0.749		ug/L		75	34 - 128
Benzo[a]pyrene	1.00	0.830		ug/L		83	38 - 134
Benzo[b]fluoranthene	1.00	0.732		ug/L		73	35 - 131
Benzo[g,h,i]perylene	1.00	0.893		ug/L		89	31 - 139
Benzo[k]fluoranthene	1.00	0.912		ug/L		91	42 - 146
Chrysene	1.00	0.758		ug/L		76	34 - 134
Dibenz(a,h)anthracene	1.00	0.754		ug/L		75	29 - 136
Fluoranthene	1.00	0.763		ug/L		76	36 - 129
Fluorene	1.00	0.760		ug/L		76	35 - 124
Indeno[1,2,3-cd]pyrene	1.00	0.741		ug/L		74	28 - 137
Naphthalene	1.00	2.55	*+	ug/L		255	26 - 120
Phenanthrene	1.00	0.754		ug/L		75	37 - 125
Pyrene	1.00	0.715		ug/L		71	34 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 121*
1-Methylnaphthalene-d10 (Surr)	*79*		*30 - 127*
Fluoranthene-d10 (Surr)	*82*		*34 - 130*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-648666/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/24/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*102*		*63 - 135*		*05/24/25 11:15*	*1*

Lab Sample ID: LCS 410-648666/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline (Unleaded) (1C)	1100	1080		ug/L		98	66 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*93*		*63 - 135*

Lab Sample ID: LCSD 410-648666/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648666

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline (Unleaded) (1C)	1100	1090		ug/L		99	66 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*94*		*63 - 135*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-648875/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649534 — **Prep Batch: 648875**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.010		0.020	0.010	ug/L		05/26/25 23:28	05/28/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*95*		*46 - 136*	*05/26/25 23:28*	*05/28/25 11:14*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*99*		*46 - 136*	*05/26/25 23:28*	*05/28/25 11:14*	*1*

Lab Sample ID: LCS 410-648875/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649534 — **Prep Batch: 648875**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (1C)	0.129	0.113		ug/L		87	60 - 140

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 410-648875/2-A
Matrix: Water
Analysis Batch: 649534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648875

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*94*		*46 - 136*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*100*		*46 - 136*

Lab Sample ID: LCSD 410-648875/3-A
Matrix: Water
Analysis Batch: 649534

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648875

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (1C)			0.129	0.115		ug/L		89	60 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*96*		*46 - 136*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*100*		*46 - 136*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-649391/1-A
Matrix: Water
Analysis Batch: 650236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<49		110	49	ug/L		05/27/25 21:31	05/29/25 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*79*		*32 - 125*	*05/27/25 21:31*	*05/29/25 12:36*	*1*

Lab Sample ID: LCS 410-649391/2-A
Matrix: Water
Analysis Batch: 650236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28)			651	524		ug/L		80	20 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr)	*75*		*32 - 125*

Lab Sample ID: LCSD 410-649391/3-A
Matrix: Water
Analysis Batch: 650236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649391

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)			636	555		ug/L		87	20 - 115	6	20

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 410-649391/3-A
Matrix: Water
Analysis Batch: 650236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649391

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o- terphenyl (Surr)	82		32 - 125

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-653244/1-A
Matrix: Water
Analysis Batch: 653727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 653244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 18:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	125		46 - 161	06/05/25 08:42	06/05/25 18:50	1
DCB Decachlorobiphenyl (Surr) (2C)	114		46 - 161	06/05/25 08:42	06/05/25 18:50	1
Tetrachloro-m-xylene (1C)	76		41 - 146	06/05/25 08:42	06/05/25 18:50	1
Tetrachloro-m-xylene (2C)	71		41 - 146	06/05/25 08:42	06/05/25 18:50	1

Lab Sample ID: LCS 410-653244/2-A
Matrix: Water
Analysis Batch: 653727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016 (1C)	0.500	0.399		ug/L		80	60 - 117
PCB-1260 (1C)	0.500	0.477		ug/L		95	81 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	126		46 - 161
DCB Decachlorobiphenyl (Surr) (2C)	110		46 - 161
Tetrachloro-m-xylene (1C)	79		41 - 146
Tetrachloro-m-xylene (2C)	74		41 - 146

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-650176/5
Matrix: Water
Analysis Batch: 650176

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			05/28/25 09:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-650176/3
Matrix: Water
Analysis Batch: 650176

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.770		mg/L		103	90 - 110

Lab Sample ID: LCSD 410-650176/4
Matrix: Water
Analysis Batch: 650176

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.772		mg/L		103	90 - 110	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-650590/1-A
Matrix: Water
Analysis Batch: 650942

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 650590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		05/29/25 22:30	05/30/25 10:04	1
Antimony	<0.20		1.0	0.20	ug/L		05/29/25 22:30	05/30/25 10:04	1
Arsenic	<0.68		2.0	0.68	ug/L		05/29/25 22:30	05/30/25 10:04	1
Barium	<0.75		2.0	0.75	ug/L		05/29/25 22:30	05/30/25 10:04	1
Beryllium	<0.12		0.50	0.12	ug/L		05/29/25 22:30	05/30/25 10:04	1
Cadmium	<0.15		0.50	0.15	ug/L		05/29/25 22:30	05/30/25 10:04	1
Calcium	<50		120	50	ug/L		05/29/25 22:30	05/30/25 10:04	1
Chromium	<0.55		2.0	0.55	ug/L		05/29/25 22:30	05/30/25 10:04	1
Cobalt	<0.16		0.50	0.16	ug/L		05/29/25 22:30	05/30/25 10:04	1
Copper	<0.85		1.0	0.85	ug/L		05/29/25 22:30	05/30/25 10:04	1
Iron	<20		50	20	ug/L		05/29/25 22:30	05/30/25 10:04	1
Lead	<0.12		0.50	0.12	ug/L		05/29/25 22:30	05/30/25 10:04	1
Magnesium	<16		50	16	ug/L		05/29/25 22:30	05/30/25 10:04	1
Manganese	<0.95		2.0	0.95	ug/L		05/29/25 22:30	05/30/25 10:04	1
Nickel	<0.40		1.0	0.40	ug/L		05/29/25 22:30	05/30/25 10:04	1
Potassium	<65		200	65	ug/L		05/29/25 22:30	05/30/25 10:04	1
Selenium	<0.28		1.0	0.28	ug/L		05/29/25 22:30	05/30/25 10:04	1
Silver	<0.10		0.50	0.10	ug/L		05/29/25 22:30	05/30/25 10:04	1
Sodium	<90		200	90	ug/L		05/29/25 22:30	05/30/25 10:04	1
Thallium	<0.13		0.50	0.13	ug/L		05/29/25 22:30	05/30/25 10:04	1
Zinc	<4.0		10	4.0	ug/L		05/29/25 22:30	05/30/25 10:04	1
Vanadium	<0.79		4.0	0.79	ug/L		05/29/25 22:30	05/30/25 10:04	1

Lab Sample ID: LCS 410-650590/2-A
Matrix: Water
Analysis Batch: 650942

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 650590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4950		ug/L		99	90 - 110
Antimony	100	99.7		ug/L		100	90 - 115
Arsenic	500	502		ug/L		100	90 - 109
Barium	500	505		ug/L		101	90 - 113
Beryllium	50.0	49.8		ug/L		100	82 - 120

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

Lab Sample ID: LCS 410-650590/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 650942
Prep Batch: 650590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	50.0	49.6		ug/L		99	90 - 112
Calcium	5000	4820		ug/L		96	90 - 112
Chromium	500	462		ug/L		92	90 - 110
Cobalt	500	507		ug/L		101	90 - 110
Copper	500	494		ug/L		99	90 - 110
Iron	5000	5000		ug/L		100	90 - 111
Lead	50.0	51.7		ug/L		103	90 - 110
Magnesium	5000	4960		ug/L		99	90 - 110
Manganese	500	491		ug/L		98	90 - 111
Nickel	500	483		ug/L		97	90 - 109
Potassium	5000	4990		ug/L		100	90 - 110
Selenium	100	98.1		ug/L		98	90 - 110
Silver	50.0	50.0		ug/L		100	90 - 112
Sodium	5000	4890		ug/L		98	89 - 114
Thallium	100	101		ug/L		101	90 - 110
Zinc	500	503		ug/L		101	90 - 112
Vanadium	500	494		ug/L		99	90 - 109

Lab Sample ID: LCSD 410-650590/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 650942
Prep Batch: 650590

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5000	4900		ug/L		98	90 - 110	1	20
Antimony	100	103		ug/L		103	90 - 115	3	20
Arsenic	500	501		ug/L		100	90 - 109	0	20
Barium	500	511		ug/L		102	90 - 113	1	20
Beryllium	50.0	50.5		ug/L		101	82 - 120	1	20
Cadmium	50.0	49.3		ug/L		99	90 - 112	1	20
Calcium	5000	4830		ug/L		97	90 - 112	0	20
Chromium	500	461		ug/L		92	90 - 110	0	20
Cobalt	500	505		ug/L		101	90 - 110	0	20
Copper	500	495		ug/L		99	90 - 110	0	20
Iron	5000	4990		ug/L		100	90 - 111	0	20
Lead	50.0	52.3		ug/L		105	90 - 110	1	20
Magnesium	5000	4940		ug/L		99	90 - 110	0	20
Manganese	500	494		ug/L		99	90 - 111	1	20
Nickel	500	482		ug/L		96	90 - 109	0	20
Potassium	5000	5010		ug/L		100	90 - 110	0	20
Selenium	100	99.0		ug/L		99	90 - 110	1	20
Silver	50.0	51.1		ug/L		102	90 - 112	2	20
Sodium	5000	4880		ug/L		98	89 - 114	0	20
Thallium	100	102		ug/L		102	90 - 110	1	20
Zinc	500	506		ug/L		101	90 - 112	1	20
Vanadium	500	494		ug/L		99	90 - 109	0	20

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

Lab Sample ID: MB 410-650594/1-A
Matrix: Water
Analysis Batch: 650942

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 650594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		05/29/25 23:00	05/30/25 11:13	1
Antimony	<0.20		1.0	0.20	ug/L		05/29/25 23:00	05/30/25 11:13	1
Arsenic	<0.68		2.0	0.68	ug/L		05/29/25 23:00	05/30/25 11:13	1
Barium	<0.75		2.0	0.75	ug/L		05/29/25 23:00	05/30/25 11:13	1
Beryllium	<0.12		0.50	0.12	ug/L		05/29/25 23:00	05/30/25 11:13	1
Cadmium	<0.15		0.50	0.15	ug/L		05/29/25 23:00	05/30/25 11:13	1
Calcium	<50		120	50	ug/L		05/29/25 23:00	05/30/25 11:13	1
Chromium	<0.55		2.0	0.55	ug/L		05/29/25 23:00	05/30/25 11:13	1
Cobalt	<0.16		0.50	0.16	ug/L		05/29/25 23:00	05/30/25 11:13	1
Copper	<0.85		1.0	0.85	ug/L		05/29/25 23:00	05/30/25 11:13	1
Iron	<20		50	20	ug/L		05/29/25 23:00	05/30/25 11:13	1
Lead	<0.12		0.50	0.12	ug/L		05/29/25 23:00	05/30/25 11:13	1
Lead	<0.12		0.50	0.12	ug/L		05/29/25 23:00	05/30/25 11:13	1
Lead	<0.12		0.50	0.12	ug/L		05/29/25 23:00	05/30/25 11:13	1
Magnesium	<16		50	16	ug/L		05/29/25 23:00	05/30/25 11:13	1
Manganese	<0.95		2.0	0.95	ug/L		05/29/25 23:00	05/30/25 11:13	1
Nickel	<0.40		1.0	0.40	ug/L		05/29/25 23:00	05/30/25 11:13	1
Potassium	<65		200	65	ug/L		05/29/25 23:00	05/30/25 11:13	1
Selenium	<0.28		1.0	0.28	ug/L		05/29/25 23:00	05/30/25 11:13	1
Silver	<0.10		0.50	0.10	ug/L		05/29/25 23:00	05/30/25 11:13	1
Sodium	<90		200	90	ug/L		05/29/25 23:00	05/30/25 11:13	1
Thallium	<0.13		0.50	0.13	ug/L		05/29/25 23:00	05/30/25 11:13	1
Zinc	<4.0		10	4.0	ug/L		05/29/25 23:00	05/30/25 11:13	1
Vanadium	<0.79		4.0	0.79	ug/L		05/29/25 23:00	05/30/25 11:13	1

Lab Sample ID: LCS 410-650594/2-A
Matrix: Water
Analysis Batch: 650942

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 650594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5240		ug/L		105	90 - 110
Antimony	100	105		ug/L		105	90 - 115
Arsenic	500	526		ug/L		105	90 - 109
Barium	500	539		ug/L		108	90 - 113
Beryllium	50.0	51.9		ug/L		104	82 - 120
Cadmium	50.0	52.5		ug/L		105	90 - 112
Calcium	5000	5410		ug/L		108	90 - 112
Chromium	500	467		ug/L		93	90 - 110
Cobalt	500	534		ug/L		107	90 - 110
Copper	500	535		ug/L		107	90 - 110
Iron	5000	5350		ug/L		107	90 - 111
Lead	50.0	50.6		ug/L		101	90 - 110
Lead	50.0	54.7		ug/L		109	90 - 110
Lead	50.0	52.9		ug/L		106	90 - 110
Magnesium	5000	5220		ug/L		104	90 - 110
Manganese	500	524		ug/L		105	90 - 111
Nickel	500	487		ug/L		97	90 - 109
Potassium	5000	5340		ug/L		107	90 - 110
Selenium	100	103		ug/L		103	90 - 110

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

Lab Sample ID: LCS 410-650594/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 650942 — **Prep Batch: 650594**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	50.0	52.8		ug/L		106	90 - 112
Sodium	5000	5200		ug/L		104	89 - 114
Thallium	100	106		ug/L		106	90 - 110
Zinc	500	533		ug/L		107	90 - 112
Vanadium	500	523		ug/L		105	90 - 109

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-651139/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 651956 — **Prep Batch: 651139**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		05/31/25 01:40	06/02/25 20:27	1

Lab Sample ID: LCS 410-651139/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 651956 — **Prep Batch: 651139**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.12		ug/L		112	80 - 118

Method: 9040C - pH

Lab Sample ID: LCS 410-649923/1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 649923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		99	95 - 105

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-648694/17 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			05/24/25 11:47	1

Lab Sample ID: LCS 410-648694/16 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 648694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0490		mg/L		98	82 - 132

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223726-1

GC/MS VOA

Analysis Batch: 649034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-3	TB1-052225	Total/NA	Water	8260D	
410-223726-4	TB2-052225	Total/NA	Water	8260D	
MB 410-649034/8	Method Blank	Total/NA	Water	8260D	
LCS 410-649034/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 649517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8260D	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8260D	
MB 410-649517/7	Method Blank	Total/NA	Water	8260D	
LCS 410-649517/5	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 650430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	3510C	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	3510C	
MB 410-650430/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-650430/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 651075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8270D SIM	650430
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8270D SIM	650430
MB 410-650430/1-A	Method Blank	Total/NA	Water	8270D SIM	650430
LCS 410-650430/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	650430

Analysis Batch: 651352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8270D SIM	650430
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8270D SIM	650430

GC VOA

Analysis Batch: 648666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8015D	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8015D	
410-223726-3	TB1-052225	Total/NA	Water	8015D	
410-223726-4	TB2-052225	Total/NA	Water	8015D	
MB 410-648666/5	Method Blank	Total/NA	Water	8015D	
LCS 410-648666/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-648666/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 648875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8011	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8011	
410-223726-3	TB1-052225	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 648875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-4	TB2-052225	Total/NA	Water	8011	
MB 410-648875/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-648875/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-648875/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 649391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	3510C	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	3510C	
MB 410-649391/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-649391/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-649391/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 649534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8011	648875
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8011	648875
410-223726-3	TB1-052225	Total/NA	Water	8011	648875
410-223726-4	TB2-052225	Total/NA	Water	8011	648875
MB 410-648875/1-A	Method Blank	Total/NA	Water	8011	648875
LCS 410-648875/2-A	Lab Control Sample	Total/NA	Water	8011	648875
LCSD 410-648875/3-A	Lab Control Sample Dup	Total/NA	Water	8011	648875

Analysis Batch: 650236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8015D	649391
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8015D	649391
MB 410-649391/1-A	Method Blank	Total/NA	Water	8015D	649391
LCS 410-649391/2-A	Lab Control Sample	Total/NA	Water	8015D	649391
LCSD 410-649391/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	649391

Prep Batch: 653244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	3510C	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	3510C	
MB 410-653244/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-653244/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 653727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	8082A	653244
410-223726-2	QM-P-257300-20250522	Total/NA	Water	8082A	653244
MB 410-653244/1-A	Method Blank	Total/NA	Water	8082A	653244
LCS 410-653244/2-A	Lab Control Sample	Total/NA	Water	8082A	653244

Analysis Batch: 654003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	PCB	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	PCB	

QC Association Summary

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

HPLC/IC

Analysis Batch: 650176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	EPA 300.0 R2.1	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	EPA 300.0 R2.1	
MB 410-650176/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-650176/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-650176/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 650590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total Recoverable	Water	3005A	
MB 410-650590/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-650590/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 410-650590/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 650594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-2	QM-P-257300-20250522	Total Recoverable	Water	3005A	
MB 410-650594/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-650594/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 650942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total Recoverable	Water	6020B	650590
410-223726-2	QM-P-257300-20250522	Total Recoverable	Water	6020B	650594
MB 410-650590/1-A	Method Blank	Total Recoverable	Water	6020B	650590
MB 410-650594/1-A	Method Blank	Total Recoverable	Water	6020B	650594
LCS 410-650590/2-A	Lab Control Sample	Total Recoverable	Water	6020B	650590
LCS 410-650594/2-A	Lab Control Sample	Total Recoverable	Water	6020B	650594
LCSD 410-650590/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	650590

Prep Batch: 651139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	7470A	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	7470A	
MB 410-651139/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-651139/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 651956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	7470A	651139
410-223726-2	QM-P-257300-20250522	Total/NA	Water	7470A	651139
MB 410-651139/1-A	Method Blank	Total/NA	Water	7470A	651139
LCS 410-651139/2-A	Lab Control Sample	Total/NA	Water	7470A	651139

General Chemistry

Analysis Batch: 648694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	OIA-1677	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	OIA-1677	
MB 410-648694/17	Method Blank	Total/NA	Water	OIA-1677	

General Chemistry (Continued)

Analysis Batch: 648694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-648694/16	Lab Control Sample	Total/NA	Water	OIA-1677	

Analysis Batch: 649923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-223726-1	QM-R-SV222212-20250522	Total/NA	Water	9040C	
410-223726-2	QM-P-257300-20250522	Total/NA	Water	9040C	
LCS 410-649923/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223726-1

Client Sample ID: QM-R-SV222212-20250522

Lab Sample ID: 410-223726-1

Date Collected: 05/22/25 11:30
Matrix: Water
Date Received: 05/22/25 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	649517	N7YK	ELLE	05/28/25 12:43
Total/NA	Prep	3510C			650430	L2FU	ELLE	05/29/25 15:38
Total/NA	Analysis	8270D SIM		1	651075	UJM0	ELLE	05/31/25 01:14
Total/NA	Prep	3510C			650430	L2FU	ELLE	05/29/25 15:38
Total/NA	Analysis	8270D SIM		1	651352	TB8M	ELLE	06/02/25 13:19
Total/NA	Analysis	8015D		1	648666	P5AM	ELLE	05/24/25 19:16
Total/NA	Prep	8011			648875	USL7	ELLE	05/26/25 23:28
Total/NA	Analysis	8011		1	649534	URS0	ELLE	05/28/25 13:46
Total/NA	Prep	3510C			649391	T9CY	ELLE	05/27/25 21:31
Total/NA	Analysis	8015D		1	650236	KP5X	ELLE	05/29/25 14:29
Total/NA	Prep	3510C			653244	ZFS6	ELLE	06/05/25 08:42
Total/NA	Analysis	8082A		1	653727	URS0	ELLE	06/05/25 20:08
Total/NA	Analysis	PCB		1	654003	URS0	ELLE	06/05/25 20:08
Total/NA	Analysis	EPA 300.0 R2.1		1	650176	L4QM	ELLE	05/28/25 13:03
Total Recoverable	Prep	3005A			650590	UAMX	ELLE	05/29/25 22:30
Total Recoverable	Analysis	6020B		1	650942	F7JF	ELLE	05/30/25 11:01
Total/NA	Prep	7470A			651139	UAMX	ELLE	05/31/25 01:40
Total/NA	Analysis	7470A		1	651956	IJ3I	ELLE	06/02/25 20:42
Total/NA	Analysis	9040C		1	649923	RTF5	ELLE	05/28/25 18:24
Total/NA	Analysis	OIA-1677		1	648694	Q3HN	ELLE	05/24/25 12:02

Client Sample ID: QM-P-257300-20250522

Lab Sample ID: 410-223726-2

Date Collected: 05/22/25 12:00
Matrix: Water
Date Received: 05/22/25 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	649517	N7YK	ELLE	05/28/25 13:04
Total/NA	Prep	3510C			650430	L2FU	ELLE	05/29/25 15:38
Total/NA	Analysis	8270D SIM		1	651075	UJM0	ELLE	05/31/25 01:36
Total/NA	Prep	3510C			650430	L2FU	ELLE	05/29/25 15:38
Total/NA	Analysis	8270D SIM		1	651352	TB8M	ELLE	06/02/25 13:40
Total/NA	Analysis	8015D		1	648666	P5AM	ELLE	05/24/25 19:41
Total/NA	Prep	8011			648875	USL7	ELLE	05/26/25 23:28
Total/NA	Analysis	8011		1	649534	URS0	ELLE	05/28/25 14:37
Total/NA	Prep	3510C			649391	T9CY	ELLE	05/27/25 21:31
Total/NA	Analysis	8015D		1	650236	KP5X	ELLE	05/29/25 14:52
Total/NA	Prep	3510C			653244	ZFS6	ELLE	06/05/25 08:42
Total/NA	Analysis	8082A		1	653727	URS0	ELLE	06/05/25 20:21
Total/NA	Analysis	PCB		1	654003	URS0	ELLE	06/05/25 20:21
Total/NA	Analysis	EPA 300.0 R2.1		10	650176	L4QM	ELLE	05/28/25 13:12
Total Recoverable	Prep	3005A			650594	UAMX	ELLE	05/29/25 23:00
Total Recoverable	Analysis	6020B		1	650942	F7JF	ELLE	05/30/25 11:53

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-P-257300-20250522
Lab Sample ID: 410-223726-2

Date Collected: 05/22/25 12:00
Matrix: Water
Date Received: 05/22/25 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			651139	UAMX	ELLE	05/31/25 01:40
Total/NA	Analysis	7470A		1	651956	IJ3I	ELLE	06/02/25 20:52
Total/NA	Analysis	9040C		1	649923	RTF5	ELLE	05/28/25 18:24
Total/NA	Analysis	OIA-1677		1	648694	Q3HN	ELLE	05/24/25 12:05

Client Sample ID: TB1-052225
Lab Sample ID: 410-223726-3

Date Collected: 05/22/25 07:00
Matrix: Water
Date Received: 05/22/25 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	649034	N7YK	ELLE	05/27/25 12:47
Total/NA	Analysis	8015D		1	648666	P5AM	ELLE	05/24/25 13:22
Total/NA	Prep	8011			648875	USL7	ELLE	05/26/25 23:28
Total/NA	Analysis	8011		1	649534	URS0	ELLE	05/28/25 14:54

Client Sample ID: TB2-052225
Lab Sample ID: 410-223726-4

Date Collected: 05/22/25 08:00
Matrix: Water
Date Received: 05/22/25 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	649034	N7YK	ELLE	05/27/25 13:10
Total/NA	Analysis	8015D		1	648666	P5AM	ELLE	05/24/25 13:47
Total/NA	Prep	8011			648875	USL7	ELLE	05/26/25 23:28
Total/NA	Analysis	8011		1	649534	URS0	ELLE	05/28/25 15:11

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-223726-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc
Job ID: 410-223726-1
Project/Site: Soil and Water Analysis - QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-223726-1	QM-R-SV222212-20250522	Water	05/22/25 11:30	05/22/25 18:24
410-223726-2	QM-P-257300-20250522	Water	05/22/25 12:00	05/22/25 18:24
410-223726-3	TB1-052225	Water	05/22/25 07:00	05/22/25 18:24
410-223726-4	TB2-052225	Water	05/22/25 08:00	05/22/25 18:24

410-223726 Chain of Custody

ironme

Chain of Custody Record

eurofins | Environment Testing

Sampler: Amy McGivney	Lab PM: Gordon, Stephen J	Carrier Tracking No(s):	COC No: 410-152448-41887.1
Phone: 240-863-1720	E-Mail: Stephen.Gordon@et.eurofinsus.com	State of Origin: MD	Page: Page 1 of 1

Chain Contact: Amy McGivney

Company: Tetra Tech Inc | PWSID:

Job #:

Address: 20251 Century Blvd Suite 200

City: Germantown

State, Zip: MD, 20874

Phone: 301-528-3004(Tel) 301-528-3000(Fax)

Email: amy.mcgivney@tetratech.com

Project Name: Soil and Water Analysis - QL Frederick

Site: Quantum Frederick Frac Tank

Due Date Requested:

TAT Requested (days): 5-Day Rush

Compliance Project: Δ Yes Δ No

PO #: 1209358

WO #:

Project #: 41018786

SSOW#:

Preservation Codes: A - HCL; D - HNO3; N - None; B - NaOH

Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL - TCL VOCs 4.3	8011 - Ethylene Dibromide	6020B, 7470A	8270D_SIM - 16 PAHs	8082A_LL - Standard PCB List	8015D_DRO - Diesel Range Organics (C10-C28)	8015D_GRO - (MOD) Gasoline Range Organics	300_ORGFM_28D - Fluoride	1677_Free - Free Cyanide	9040C - pH, Temperature, Corrosivity				Total Number of containers	Special Instructions/Note:
				Preservation Code:			A	A	D	N	N	A	A	N	B	N					
QM-R-SV222212-20250522	5/22/25	11:30	G	Water	N	N	3	2	1	2	2	2	3	1	1	1					1 cooler / temp blank
QM-P-257300-20250522	5/22/25	12:00	G	Water	N	N	3	2	1	2	2	2	3	1	1	1					1 coolers / temp blank
TB1-052225	5/22/25	0700	—	Water	—	—	2	2	—	—	—	—	2	—	—	—					TB cooler 1
TB2-052225	5/22/25	0800	—	Water	—	—	2	2	—	—	—	—	2	—	—	—					TB cooler 2
				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: 5/22/25 AM | Time: 14:55 | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Amy McGivney	5/22/25 14:55	TT	[illegible]	5/22/25 1455	ELLE
[illegible]	5/22/25 1824	ELLE			
			[illegible]	5/22/25 1824	ELLE

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

Cooler Temperature(s) °C and Other Remarks: 12 1.7/1.7 Cl. 5/1.5

6/6/2025

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-223726-1

Login Number: 223726

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
The cooler's custody seal is 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers

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ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 6/10/2025 5:08:56 PM

JOB DESCRIPTION

Soil and Water Analysis - QL Frederick

JOB NUMBER

410-225317-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
6/10/2025 5:08:56 PM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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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.

GC Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-225317-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/3/2025 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

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

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

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

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

GC Semi VOA
Method 8011: The surrogate recovery for the blank associated with preparation batch 410-653819 and analytical batch 410-654000 was outside the upper control limits.

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

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

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

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

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

Detection Summary

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: TB-060325 — Lab Sample ID: 410-225317-1

No Detections.

Client Sample ID: QM-R-257704-060325 — Lab Sample ID: 410-225317-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	5.0	1.5	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.38	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.19	J	0.50	0.080	ug/L	1		8260D	Total/NA
Fluoride	3.1	F1	1.0	0.50	mg/L	5		EPA 300.0 R2.1	Total/NA
Aluminum	48		25	12	ug/L	1		6020B	Total Recoverable
Antimony	0.24	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Barium	21		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	81000		120	50	ug/L	1		6020B	Total Recoverable
Chromium	1.1	J	2.0	0.55	ug/L	1		6020B	Total Recoverable
Cobalt	0.40	J B	0.50	0.16	ug/L	1		6020B	Total Recoverable
Iron	280		50	20	ug/L	1		6020B	Total Recoverable
Magnesium	12000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	94	^2	2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	0.97	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	4200		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.93	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	86000	^2	200	90	ug/L	1		6020B	Total Recoverable
Zinc	36		10	4.0	ug/L	1		6020B	Total Recoverable
pH	7.8	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	20.9	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-R-259991-060325 — Lab Sample ID: 410-225317-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	1.2	J	5.0	1.0	ug/L	1		8260D	Total/NA
Acetone	3.0	J	5.0	1.5	ug/L	1		8260D	Total/NA
Acenaphthylene	0.017	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.013	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.010	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.010	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoride	4.2		1.0	0.50	mg/L	5		EPA 300.0 R2.1	Total/NA
Aluminum	91		25	12	ug/L	1		6020B	Total Recoverable
Antimony	0.23	J	1.0	0.20	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-R-259991-060325 (Continued) — Lab Sample ID: 410-225317-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	29		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	100000		120	50	ug/L	1		6020B	Total Recoverable
Cobalt	0.57	B	0.50	0.16	ug/L	1		6020B	Total Recoverable
Iron	150		50	20	ug/L	1		6020B	Total Recoverable
Lead	0.17	J	0.50	0.12	ug/L	1		6020B	Total Recoverable
Magnesium	17000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	210	^2	2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	1.2		1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	4900		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.78	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	75000	^2	200	90	ug/L	1		6020B	Total Recoverable
pH	7.7	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	20.8	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225317-1

Client Sample ID: TB-060325

Date Collected: 06/03/25 07:00
Date Received: 06/03/25 17:00

Lab Sample ID: 410-225317-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:47	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:47	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/06/25 13:47	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:47	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:47	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/06/25 13:47	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/06/25 13:47	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/06/25 13:47	1
Acetone	<1.5		5.0	1.5	ug/L			06/06/25 13:47	1
Benzene	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
Bromoform	<0.30		1.0	0.30	ug/L			06/06/25 13:47	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/06/25 13:47	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:47	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Chloroform	<0.090		0.50	0.090	ug/L			06/06/25 13:47	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/06/25 13:47	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/06/25 13:47	1
Styrene	<0.070		0.50	0.070	ug/L			06/06/25 13:47	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/06/25 13:47	1
Toluene	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/06/25 13:47	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/06/25 13:47	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/06/25 13:47	1

Client Sample ID: TB-060325
Lab Sample ID: 410-225317-1

Date Collected: 06/03/25 07:00
Matrix: Water
Date Received: 06/03/25 17:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*06/06/25 13:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/06/25 13:47*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/06/25 13:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/06/25 13:47*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/05/25 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*95*		*63 - 135*		*06/05/25 13:38*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094	cn	0.019	0.0094	ug/L		06/06/25 06:57	06/07/25 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*114*	*cn*	*46 - 136*	*06/06/25 06:57*	*06/07/25 01:21*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*110*	*cn*	*46 - 136*	*06/06/25 06:57*	*06/07/25 01:21*	*1*

Client Sample ID: QM-R-257704-060325
Lab Sample ID: 410-225317-2

Date Collected: 06/03/25 09:15
Matrix: Water
Date Received: 06/03/25 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:01	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:01	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/06/25 16:01	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:01	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:01	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/06/25 16:01	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/06/25 16:01	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/06/25 16:01	1
Acetone	**3.0**	**J**	5.0	1.5	ug/L			06/06/25 16:01	1
Benzene	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
Bromoform	<0.30		1.0	0.30	ug/L			06/06/25 16:01	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/06/25 16:01	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:01	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-R-257704-060325
Lab Sample ID: 410-225317-2
Date Collected: 06/03/25 09:15
Matrix: Water
Date Received: 06/03/25 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090		0.50	0.090	ug/L			06/06/25 16:01	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/06/25 16:01	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/06/25 16:01	1
Styrene	<0.070		0.50	0.070	ug/L			06/06/25 16:01	1
Tetrachloroethene	**0.38**	**J**	0.50	0.20	ug/L			06/06/25 16:01	1
Toluene	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/06/25 16:01	1
Trichloroethene	**0.19**	**J**	0.50	0.080	ug/L			06/06/25 16:01	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/06/25 16:01	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/06/25 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*06/06/25 16:01*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/06/25 16:01*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/06/25 16:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/06/25 16:01*	*1*

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Acenaphthylene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Anthracene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Benzo[a]anthracene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Benzo[a]pyrene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Benzo[b]fluoranthene	<0.049		0.052	0.049	ug/L		06/05/25 08:36	06/06/25 01:31	1
Benzo[g,h,i]perylene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Benzo[k]fluoranthene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Chrysene	<0.026		0.052	0.026	ug/L		06/05/25 08:36	06/06/25 01:31	1
Dibenz(a,h)anthracene	<0.021		0.052	0.021	ug/L		06/05/25 08:36	06/06/25 01:31	1
Fluoranthene	<0.024		0.052	0.024	ug/L		06/05/25 08:36	06/06/25 01:31	1
Fluorene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:31	1
Indeno[1,2,3-cd]pyrene	<0.021		0.052	0.021	ug/L		06/05/25 08:36	06/06/25 01:31	1
Naphthalene	<0.070		0.072	0.070	ug/L		06/05/25 08:36	06/06/25 01:31	1
Phenanthrene	<0.031		0.072	0.031	ug/L		06/05/25 08:36	06/06/25 01:31	1
Pyrene	<0.022		0.052	0.022	ug/L		06/05/25 08:36	06/06/25 01:31	1

Client Sample ID: QM-R-257704-060325
Lab Sample ID: 410-225317-2

Date Collected: 06/03/25 09:15
Matrix: Water
Date Received: 06/03/25 17:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*41*		*10 - 121*	*06/05/25 08:36*	*06/06/25 01:31*	*1*
1-Methylnaphthalene-d10 (Surr)	*90*		*30 - 127*	*06/05/25 08:36*	*06/06/25 01:31*	*1*
Fluoranthene-d10 (Surr)	*79*		*34 - 130*	*06/05/25 08:36*	*06/06/25 01:31*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*96*		*63 - 135*		*06/06/25 14:57*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095	cn	0.019	0.0095	ug/L		06/06/25 06:57	06/07/25 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*117*	*cn*	*46 - 136*	*06/06/25 06:57*	*06/07/25 01:38*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*116*	*cn*	*46 - 136*	*06/06/25 06:57*	*06/07/25 01:38*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<48		110	48	ug/L		06/05/25 08:51	06/06/25 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*97*		*32 - 125*	*06/05/25 08:51*	*06/06/25 00:53*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0081		0.010	0.0081	ug/L		06/05/25 08:42	06/05/25 21:26	1
PCB-1221 (1C)	<0.0081		0.010	0.0081	ug/L		06/05/25 08:42	06/05/25 21:26	1
PCB-1232 (1C)	<0.0081		0.010	0.0081	ug/L		06/05/25 08:42	06/05/25 21:26	1
PCB-1242 (1C)	<0.0081		0.010	0.0081	ug/L		06/05/25 08:42	06/05/25 21:26	1
PCB-1248 (1C)	<0.0081		0.010	0.0081	ug/L		06/05/25 08:42	06/05/25 21:26	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 21:26	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*125*		*46 - 161*	*06/05/25 08:42*	*06/05/25 21:26*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*114*		*46 - 161*	*06/05/25 08:42*	*06/05/25 21:26*	*1*
Tetrachloro-m-xylene (1C)	*78*		*41 - 146*	*06/05/25 08:42*	*06/05/25 21:26*	*1*
Tetrachloro-m-xylene (2C)	*75*		*41 - 146*	*06/05/25 08:42*	*06/05/25 21:26*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0081		0.010	0.0081	ug/L			06/05/25 21:26	1
PCB-1221	<0.0081		0.010	0.0081	ug/L			06/05/25 21:26	1
PCB-1232	<0.0081		0.010	0.0081	ug/L			06/05/25 21:26	1
PCB-1242	<0.0081		0.010	0.0081	ug/L			06/05/25 21:26	1
PCB-1248	<0.0081		0.010	0.0081	ug/L			06/05/25 21:26	1
PCB-1254	<0.0050		0.010	0.0050	ug/L			06/05/25 21:26	1
PCB-1260	<0.0050		0.010	0.0050	ug/L			06/05/25 21:26	1
Polychlorinated biphenyls, Total	<0.0081		0.010	0.0081	ug/L			06/05/25 21:26	1

Client Sample Results

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-R-257704-060325
Lab Sample ID: 410-225317-2

Date Collected: 06/03/25 09:15
Matrix: Water
Date Received: 06/03/25 17:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	3.1	F1	1.0	0.50	mg/L			06/06/25 23:53	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	48		25	12	ug/L		06/05/25 02:52	06/05/25 12:52	1
Antimony	0.24	J	1.0	0.20	ug/L		06/05/25 02:52	06/05/25 12:52	1
Arsenic	<0.68		2.0	0.68	ug/L		06/05/25 02:52	06/05/25 12:52	1
Barium	21		2.0	0.75	ug/L		06/05/25 02:52	06/05/25 12:52	1
Beryllium	<0.12		0.50	0.12	ug/L		06/05/25 02:52	06/05/25 12:52	1
Cadmium	<0.15		0.50	0.15	ug/L		06/05/25 02:52	06/05/25 12:52	1
Calcium	81000		120	50	ug/L		06/05/25 02:52	06/05/25 12:52	1
Chromium	1.1	J	2.0	0.55	ug/L		06/05/25 02:52	06/05/25 12:52	1
Cobalt	0.40	J B	0.50	0.16	ug/L		06/05/25 02:52	06/05/25 12:52	1
Copper	<0.85		1.0	0.85	ug/L		06/05/25 02:52	06/05/25 12:52	1
Iron	280		50	20	ug/L		06/05/25 02:52	06/05/25 12:52	1
Lead	<0.12		0.50	0.12	ug/L		06/05/25 02:52	06/05/25 12:52	1
Magnesium	12000		50	16	ug/L		06/05/25 02:52	06/05/25 12:52	1
Manganese	94	^2	2.0	0.95	ug/L		06/05/25 02:52	06/05/25 20:27	1
Nickel	0.97	J	1.0	0.40	ug/L		06/05/25 02:52	06/05/25 12:52	1
Potassium	4200		200	65	ug/L		06/05/25 02:52	06/05/25 12:52	1
Selenium	0.93	J	1.0	0.28	ug/L		06/05/25 02:52	06/05/25 12:52	1
Silver	<0.10		0.50	0.10	ug/L		06/05/25 02:52	06/05/25 12:52	1
Sodium	86000	^2	200	90	ug/L		06/05/25 02:52	06/05/25 20:27	1
Thallium	<0.13		0.50	0.13	ug/L		06/05/25 02:52	06/05/25 12:52	1
Zinc	36		10	4.0	ug/L		06/05/25 02:52	06/05/25 12:52	1
Vanadium	<0.79		4.0	0.79	ug/L		06/05/25 02:52	06/05/25 12:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/09/25 08:33	06/09/25 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.8	HF	0.01	0.01	S.U.			06/06/25 18:32	1
Temperature (SW846 9040C)	20.9	HF	0.01	0.01	Degrees C			06/06/25 18:32	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/06/25 18:32	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:26	1

Client Sample ID: QM-R-259991-060325
Lab Sample ID: 410-225317-3

Date Collected: 06/03/25 10:15
Matrix: Water
Date Received: 06/03/25 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:23	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1

Client Sample ID: QM-R-259991-060325
Lab Sample ID: 410-225317-3
Date Collected: 06/03/25 10:15
Matrix: Water
Date Received: 06/03/25 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:23	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/06/25 16:23	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:23	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:23	1
2-Butanone	**1.2**	**J**	5.0	1.0	ug/L			06/06/25 16:23	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/06/25 16:23	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/06/25 16:23	1
Acetone	**3.0**	**J**	5.0	1.5	ug/L			06/06/25 16:23	1
Benzene	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
Bromoform	<0.30		1.0	0.30	ug/L			06/06/25 16:23	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/06/25 16:23	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 16:23	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Chloroform	<0.090		0.50	0.090	ug/L			06/06/25 16:23	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/06/25 16:23	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/06/25 16:23	1
Styrene	<0.070		0.50	0.070	ug/L			06/06/25 16:23	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/06/25 16:23	1
Toluene	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/06/25 16:23	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/06/25 16:23	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/06/25 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*06/06/25 16:23*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/06/25 16:23*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/06/25 16:23*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/06/25 16:23*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225317-1

Client Sample ID: QM-R-259991-060325

Lab Sample ID: 410-225317-3

Date Collected: 06/03/25 10:15
Matrix: Water
Date Received: 06/03/25 17:00

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Acenaphthylene	**0.017**	**J**	0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Anthracene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Benzo[a]anthracene	**0.013**	**J**	0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Benzo[a]pyrene	**0.010**	**J**	0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Benzo[b]fluoranthene	<0.049		0.052	0.049	ug/L		06/05/25 08:36	06/06/25 01:52	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Benzo[k]fluoranthene	**0.010**	**J**	0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Chrysene	<0.026		0.052	0.026	ug/L		06/05/25 08:36	06/06/25 01:52	1
Dibenz(a,h)anthracene	<0.021		0.052	0.021	ug/L		06/05/25 08:36	06/06/25 01:52	1
Fluoranthene	<0.024		0.052	0.024	ug/L		06/05/25 08:36	06/06/25 01:52	1
Fluorene	<0.010		0.052	0.010	ug/L		06/05/25 08:36	06/06/25 01:52	1
Indeno[1,2,3-cd]pyrene	<0.021		0.052	0.021	ug/L		06/05/25 08:36	06/06/25 01:52	1
Naphthalene	<0.071		0.073	0.071	ug/L		06/05/25 08:36	06/06/25 01:52	1
Phenanthrene	<0.031		0.073	0.031	ug/L		06/05/25 08:36	06/06/25 01:52	1
Pyrene	<0.022		0.052	0.022	ug/L		06/05/25 08:36	06/06/25 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*35*		*10 - 121*	*06/05/25 08:36*	*06/06/25 01:52*	*1*
1-Methylnaphthalene-d10 (Surr)	*91*		*30 - 127*	*06/05/25 08:36*	*06/06/25 01:52*	*1*
Fluoranthene-d10 (Surr)	*80*		*34 - 130*	*06/05/25 08:36*	*06/06/25 01:52*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*95*		*63 - 135*		*06/06/25 15:22*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095	cn	0.019	0.0095	ug/L		06/06/25 06:57	06/07/25 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*114*	*cn*	*46 - 136*	*06/06/25 06:57*	*06/07/25 01:55*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*114*	*cn*	*46 - 136*	*06/06/25 06:57*	*06/07/25 01:55*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<49		110	49	ug/L		06/09/25 07:58	06/10/25 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*74*		*32 - 125*	*06/09/25 07:58*	*06/10/25 01:34*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0079		0.0098	0.0079	ug/L		06/05/25 08:42	06/05/25 21:39	1
PCB-1221 (1C)	<0.0079		0.0098	0.0079	ug/L		06/05/25 08:42	06/05/25 21:39	1
PCB-1232 (1C)	<0.0079		0.0098	0.0079	ug/L		06/05/25 08:42	06/05/25 21:39	1
PCB-1242 (1C)	<0.0079		0.0098	0.0079	ug/L		06/05/25 08:42	06/05/25 21:39	1
PCB-1248 (1C)	<0.0079		0.0098	0.0079	ug/L		06/05/25 08:42	06/05/25 21:39	1

Client Sample Results

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-R-259991-060325
Lab Sample ID: 410-225317-3

Date Collected: 06/03/25 10:15
Matrix: Water
Date Received: 06/03/25 17:00

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254 (1C)	<0.0049		0.0098	0.0049	ug/L		06/05/25 08:42	06/05/25 21:39	1
PCB-1260 (1C)	<0.0049		0.0098	0.0049	ug/L		06/05/25 08:42	06/05/25 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*125*		*46 - 161*	*06/05/25 08:42*	*06/05/25 21:39*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*108*		*46 - 161*	*06/05/25 08:42*	*06/05/25 21:39*	*1*
Tetrachloro-m-xylene (1C)	*79*		*41 - 146*	*06/05/25 08:42*	*06/05/25 21:39*	*1*
Tetrachloro-m-xylene (2C)	*76*		*41 - 146*	*06/05/25 08:42*	*06/05/25 21:39*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0079		0.0098	0.0079	ug/L			06/05/25 21:39	1
PCB-1221	<0.0079		0.0098	0.0079	ug/L			06/05/25 21:39	1
PCB-1232	<0.0079		0.0098	0.0079	ug/L			06/05/25 21:39	1
PCB-1242	<0.0079		0.0098	0.0079	ug/L			06/05/25 21:39	1
PCB-1248	<0.0079		0.0098	0.0079	ug/L			06/05/25 21:39	1
PCB-1254	<0.0049		0.0098	0.0049	ug/L			06/05/25 21:39	1
PCB-1260	<0.0049		0.0098	0.0049	ug/L			06/05/25 21:39	1
Polychlorinated biphenyls, Total	<0.0079		0.0098	0.0079	ug/L			06/05/25 21:39	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**4.2**		1.0	0.50	mg/L			06/06/25 23:17	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**91**		25	12	ug/L		06/05/25 02:52	06/05/25 20:25	1
Antimony	**0.23**	**J**	1.0	0.20	ug/L		06/05/25 02:52	06/05/25 12:50	1
Arsenic	<0.68		2.0	0.68	ug/L		06/05/25 02:52	06/05/25 12:50	1
Barium	**29**		2.0	0.75	ug/L		06/05/25 02:52	06/05/25 12:50	1
Beryllium	<0.12		0.50	0.12	ug/L		06/05/25 02:52	06/05/25 12:50	1
Cadmium	<0.15		0.50	0.15	ug/L		06/05/25 02:52	06/05/25 12:50	1
Calcium	**100000**		120	50	ug/L		06/05/25 02:52	06/05/25 12:50	1
Chromium	<0.55		2.0	0.55	ug/L		06/05/25 02:52	06/05/25 12:50	1
Cobalt	**0.57**	**B**	0.50	0.16	ug/L		06/05/25 02:52	06/05/25 12:50	1
Copper	<0.85		1.0	0.85	ug/L		06/05/25 02:52	06/05/25 12:50	1
Iron	**150**		50	20	ug/L		06/05/25 02:52	06/05/25 12:50	1
Lead	**0.17**	**J**	0.50	0.12	ug/L		06/05/25 02:52	06/05/25 12:50	1
Magnesium	**17000**		50	16	ug/L		06/05/25 02:52	06/05/25 12:50	1
Manganese	**210**	**^2**	2.0	0.95	ug/L		06/05/25 02:52	06/05/25 20:25	1
Nickel	**1.2**		1.0	0.40	ug/L		06/05/25 02:52	06/05/25 12:50	1
Potassium	**4900**		200	65	ug/L		06/05/25 02:52	06/05/25 12:50	1
Selenium	**0.78**	**J**	1.0	0.28	ug/L		06/05/25 02:52	06/05/25 12:50	1
Silver	<0.10		0.50	0.10	ug/L		06/05/25 02:52	06/05/25 12:50	1
Sodium	**75000**	**^2**	200	90	ug/L		06/05/25 02:52	06/05/25 20:25	1
Thallium	<0.13		0.50	0.13	ug/L		06/05/25 02:52	06/05/25 12:50	1
Zinc	<4.0		10	4.0	ug/L		06/05/25 02:52	06/05/25 12:50	1
Vanadium	<0.79		4.0	0.79	ug/L		06/05/25 02:52	06/05/25 12:50	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225317-1

Client Sample ID: QM-R-259991-060325

Lab Sample ID: 410-225317-3

Date Collected: 06/03/25 10:15
Date Received: 06/03/25 17:00

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/09/25 08:33	06/09/25 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**7.7**	**HF**	0.01	0.01	S.U.			06/06/25 18:32	1
Temperature (SW846 9040C)	**20.8**	**HF**	0.01	0.01	Degrees C			06/06/25 18:32	1
Corrosivity (SW846 9040C)	**NO**	**HF**	0.01	0.01	NONE			06/06/25 18:32	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/05/25 15:03	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225317-1

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-225317-1	TB-060325	100	98	100	100
410-225317-2	QM-R-257704-060325	100	98	101	100
410-225317-3	QM-R-259991-060325	100	97	101	101
LCS 410-653851/5	Lab Control Sample	101	101	101	101
LCSD 410-653851/6	Lab Control Sample Dup	103	100	101	101
MB 410-653851/10	Method Blank	102	97	101	100

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	MNPd10	FLN10
Lab Sample ID	Client Sample ID	(10-121)	(30-127)	(34-130)
410-225317-2	QM-R-257704-060325	41	90	79
410-225317-3	QM-R-259991-060325	35	91	80
LCS 410-653282/2-A	Lab Control Sample	77	79	77
MB 410-653282/1-A	Method Blank	71	88	73

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-225317-1	TB-060325	95
410-225317-2	QM-R-257704-060325	96
410-225317-3	QM-R-259991-060325	95
LCS 410-653286/6	Lab Control Sample	85
LCS 410-653935/6	Lab Control Sample	86
LCSD 410-653286/7	Lab Control Sample Dup	86
LCSD 410-653935/7	Lab Control Sample Dup	84
MB 410-653286/5	Method Blank	96
MB 410-653935/5	Method Blank	95

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

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

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-225317-1	TB-060325	114 cn	110 cn
410-225317-2	QM-R-257704-060325	117 cn	116 cn
410-225317-3	QM-R-259991-060325	114 cn	114 cn
LCS 410-653819/2-A	Lab Control Sample	118	110
LCSD 410-653819/3-A	Lab Control Sample Dup	114	110
MB 410-653819/1-A	Method Blank	140 S1+	131

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

Lab Sample ID	Client Sample ID	OTP (32-125)
410-225317-2	QM-R-257704-060325	97
410-225317-3	QM-R-259991-060325	74
LCS 410-653304/2-A	Lab Control Sample	80
LCS 410-654709/2-A	Lab Control Sample	71
LCSD 410-654709/3-A	Lab Control Sample Dup	60
MB 410-653304/1-A	Method Blank	84
MB 410-654709/1-A	Method Blank	71

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

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

Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-225317-2	QM-R-257704-060325	125	114	78	75
410-225317-3	QM-R-259991-060325	125	108	79	76
LCS 410-653244/2-A	Lab Control Sample	126	110	79	74
MB 410-653244/1-A	Method Blank	125	114	76	71

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-653851/10
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:25	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:25	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/06/25 13:25	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:25	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:25	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/06/25 13:25	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/06/25 13:25	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/06/25 13:25	1
Acetone	<1.5		5.0	1.5	ug/L			06/06/25 13:25	1
Benzene	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
Bromoform	<0.30		1.0	0.30	ug/L			06/06/25 13:25	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/06/25 13:25	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/06/25 13:25	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Chloroform	<0.090		0.50	0.090	ug/L			06/06/25 13:25	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/06/25 13:25	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/06/25 13:25	1
Styrene	<0.070		0.50	0.070	ug/L			06/06/25 13:25	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/06/25 13:25	1
Toluene	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/06/25 13:25	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/06/25 13:25	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/06/25 13:25	1

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

Lab Sample ID: MB 410-653851/10
Matrix: Water
Analysis Batch: 653851

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/06/25 13:25	1
4-Bromofluorobenzene (Surr)	97		80 - 120		06/06/25 13:25	1
Dibromofluoromethane (Surr)	101		80 - 120		06/06/25 13:25	1
Toluene-d8 (Surr)	100		80 - 120		06/06/25 13:25	1

Lab Sample ID: LCS 410-653851/5
Matrix: Water
Analysis Batch: 653851

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-Trichloroethane	5.00	5.07		ug/L		101	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.11		ug/L		102	75 - 123
1,1,2-Trichloroethane	5.00	5.12		ug/L		102	80 - 120
1,1-Dichloroethane	5.00	5.07		ug/L		101	74 - 120
1,1-Dichloroethene	5.00	5.25		ug/L		105	80 - 131
1,2,4-Trichlorobenzene	5.00	4.98		ug/L		100	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	5.05		ug/L		101	75 - 124
1,2-Dibromoethane	5.00	5.10		ug/L		102	80 - 120
1,2-Dichlorobenzene	5.00	5.17		ug/L		103	80 - 120
1,2-Dichloroethane	5.00	5.06		ug/L		101	69 - 122
1,2-Dichloropropane	5.00	4.98		ug/L		100	80 - 120
1,3-Dichlorobenzene	5.00	5.16		ug/L		103	80 - 120
1,4-Dichlorobenzene	5.00	5.10		ug/L		102	80 - 120
2-Butanone	62.5	63.8		ug/L		102	59 - 141
2-Hexanone	62.5	64.1		ug/L		103	52 - 140
4-Methyl-2-pentanone	62.5	62.8		ug/L		101	55 - 140
Acetone	62.5	61.4		ug/L		98	60 - 146
Benzene	5.00	4.87		ug/L		97	80 - 120
Bromodichloromethane	5.00	5.09		ug/L		102	80 - 123
Bromoform	5.00	5.10		ug/L		102	75 - 126
Bromomethane	5.00	4.97		ug/L		99	63 - 120
Carbon disulfide	5.00	4.51		ug/L		90	67 - 130
Carbon tetrachloride	5.00	5.07		ug/L		101	64 - 141
Chlorobenzene	5.00	5.08		ug/L		102	80 - 120
Chloroethane	5.00	4.79		ug/L		96	63 - 120
Chloroform	5.00	5.05		ug/L		101	80 - 120
Chloromethane	5.00	4.14		ug/L		83	56 - 124
cis-1,2-Dichloroethene	5.00	4.97		ug/L		99	80 - 122
cis-1,3-Dichloropropene	5.00	4.74		ug/L		95	67 - 121
Cyclohexane	5.00	4.66		ug/L		93	69 - 120
Dibromochloromethane	5.00	5.10		ug/L		102	80 - 123
Dichlorodifluoromethane	5.00	3.69		ug/L		74	43 - 123
Ethylbenzene	5.00	5.05		ug/L		101	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	4.73		ug/L		95	67 - 124
Isopropylbenzene	5.00	5.81		ug/L		116	80 - 120
Methyl acetate	5.00	5.89		ug/L		118	59 - 143
Methyl tertiary butyl ether	5.00	4.73		ug/L		95	69 - 120
Methylcyclohexane	5.00	4.69		ug/L		94	80 - 120

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

Lab Sample ID: LCS 410-653851/5
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	5.12		ug/L		102	80 - 120
Styrene	5.00	5.25		ug/L		105	80 - 120
Tetrachloroethene	5.00	4.79		ug/L		96	80 - 120
Toluene	5.00	5.04		ug/L		101	80 - 120
trans-1,2-Dichloroethene	5.00	5.04		ug/L		101	80 - 122
trans-1,3-Dichloropropene	5.00	4.99		ug/L		100	61 - 129
Trichloroethene	5.00	4.91		ug/L		98	80 - 120
Trichlorofluoromethane	5.00	4.75		ug/L		95	53 - 136
Vinyl chloride	5.00	4.29		ug/L		86	60 - 125
Xylenes, Total	15.0	15.3		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 410-653851/6
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653851

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.00	5.14		ug/L		103	78 - 126	1	30
1,1,2,2-Tetrachloroethane	5.00	5.35		ug/L		107	75 - 123	5	30
1,1,2-Trichloroethane	5.00	5.23		ug/L		105	80 - 120	2	30
1,1-Dichloroethane	5.00	5.17		ug/L		103	74 - 120	2	30
1,1-Dichloroethene	5.00	5.39		ug/L		108	80 - 131	3	30
1,2,4-Trichlorobenzene	5.00	5.28		ug/L		106	68 - 122	6	30
1,2-Dibromo-3-Chloropropane	5.00	5.21		ug/L		104	75 - 124	3	30
1,2-Dibromoethane	5.00	5.25		ug/L		105	80 - 120	3	30
1,2-Dichlorobenzene	5.00	5.26		ug/L		105	80 - 120	2	30
1,2-Dichloroethane	5.00	5.14		ug/L		103	69 - 122	1	30
1,2-Dichloropropane	5.00	5.03		ug/L		101	80 - 120	1	30
1,3-Dichlorobenzene	5.00	5.24		ug/L		105	80 - 120	1	30
1,4-Dichlorobenzene	5.00	5.18		ug/L		104	80 - 120	2	30
2-Butanone	62.5	64.4		ug/L		103	59 - 141	1	30
2-Hexanone	62.5	64.0		ug/L		102	52 - 140	0	30
4-Methyl-2-pentanone	62.5	63.3		ug/L		101	55 - 140	1	30
Acetone	62.5	61.9		ug/L		99	60 - 146	1	30
Benzene	5.00	4.90		ug/L		98	80 - 120	1	30
Bromodichloromethane	5.00	5.17		ug/L		103	80 - 123	2	30
Bromoform	5.00	5.14		ug/L		103	75 - 126	1	30
Bromomethane	5.00	5.05		ug/L		101	63 - 120	2	30
Carbon disulfide	5.00	4.63		ug/L		93	67 - 130	3	30
Carbon tetrachloride	5.00	5.11		ug/L		102	64 - 141	1	30
Chlorobenzene	5.00	5.16		ug/L		103	80 - 120	2	30
Chloroethane	5.00	4.78		ug/L		96	63 - 120	0	30
Chloroform	5.00	5.13		ug/L		103	80 - 120	2	30

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

Lab Sample ID: LCSD 410-653851/6
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653851

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane	5.00	4.50		ug/L		90	56 - 124	9	30
cis-1,2-Dichloroethene	5.00	5.07		ug/L		101	80 - 122	2	30
cis-1,3-Dichloropropene	5.00	4.86		ug/L		97	67 - 121	3	30
Cyclohexane	5.00	4.73		ug/L		95	69 - 120	1	30
Dibromochloromethane	5.00	5.23		ug/L		105	80 - 123	3	30
Dichlorodifluoromethane	5.00	3.70		ug/L		74	43 - 123	0	30
Ethylbenzene	5.00	5.14		ug/L		103	80 - 120	2	30
1,1,2-Trichlorotrifluoroethane	5.00	4.80		ug/L		96	67 - 124	2	30
Isopropylbenzene	5.00	5.85		ug/L		117	80 - 120	1	30
Methyl acetate	5.00	5.94		ug/L		119	59 - 143	1	30
Methyl tertiary butyl ether	5.00	4.89		ug/L		98	69 - 120	3	30
Methylcyclohexane	5.00	4.75		ug/L		95	80 - 120	1	30
Methylene Chloride	5.00	5.20		ug/L		104	80 - 120	2	30
Styrene	5.00	5.34		ug/L		107	80 - 120	2	30
Tetrachloroethene	5.00	4.89		ug/L		98	80 - 120	2	30
Toluene	5.00	5.16		ug/L		103	80 - 120	2	30
trans-1,2-Dichloroethene	5.00	5.11		ug/L		102	80 - 122	1	30
trans-1,3-Dichloropropene	5.00	5.11		ug/L		102	61 - 129	2	30
Trichloroethene	5.00	5.04		ug/L		101	80 - 120	3	30
Trichlorofluoromethane	5.00	4.76		ug/L		95	53 - 136	0	30
Vinyl chloride	5.00	4.58		ug/L		92	60 - 125	7	30
Xylenes, Total	15.0	15.5		ug/L		103	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 410-653282/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653655
Prep Batch: 653282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Acenaphthylene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Anthracene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Benzo[a]anthracene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Benzo[a]pyrene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Benzo[b]fluoranthene	<0.047		0.050	0.047	ug/L		06/05/25 08:36	06/05/25 20:34	1
Benzo[g,h,i]perylene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Benzo[k]fluoranthene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Chrysene	<0.025		0.050	0.025	ug/L		06/05/25 08:36	06/05/25 20:34	1
Dibenz(a,h)anthracene	<0.020		0.050	0.020	ug/L		06/05/25 08:36	06/05/25 20:34	1
Fluoranthene	<0.023		0.050	0.023	ug/L		06/05/25 08:36	06/05/25 20:34	1
Fluorene	<0.010		0.050	0.010	ug/L		06/05/25 08:36	06/05/25 20:34	1
Indeno[1,2,3-cd]pyrene	<0.020		0.050	0.020	ug/L		06/05/25 08:36	06/05/25 20:34	1

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

Lab Sample ID: MB 410-653282/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653655 — **Prep Batch: 653282**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.068		0.070	0.068	ug/L		06/05/25 08:36	06/05/25 20:34	1
Phenanthrene	<0.030		0.070	0.030	ug/L		06/05/25 08:36	06/05/25 20:34	1
Pyrene	<0.021		0.050	0.021	ug/L		06/05/25 08:36	06/05/25 20:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*71*		*10 - 121*	*06/05/25 08:36*	*06/05/25 20:34*	*1*
1-Methylnaphthalene-d10 (Surr)	*88*		*30 - 127*	*06/05/25 08:36*	*06/05/25 20:34*	*1*
Fluoranthene-d10 (Surr)	*73*		*34 - 130*	*06/05/25 08:36*	*06/05/25 20:34*	*1*

Lab Sample ID: LCS 410-653282/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653655 — **Prep Batch: 653282**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.00	0.718		ug/L		72	33 - 122
Acenaphthylene	1.00	0.803		ug/L		80	35 - 123
Anthracene	1.00	0.777		ug/L		78	40 - 127
Benzo[a]anthracene	1.00	0.770		ug/L		77	34 - 128
Benzo[a]pyrene	1.00	0.852		ug/L		85	38 - 134
Benzo[b]fluoranthene	1.00	0.825		ug/L		82	35 - 131
Benzo[g,h,i]perylene	1.00	0.878		ug/L		88	31 - 139
Benzo[k]fluoranthene	1.00	0.848		ug/L		85	42 - 146
Chrysene	1.00	0.776		ug/L		78	34 - 134
Dibenz(a,h)anthracene	1.00	0.841		ug/L		84	29 - 136
Fluoranthene	1.00	0.740		ug/L		74	36 - 129
Fluorene	1.00	0.740		ug/L		74	35 - 124
Indeno[1,2,3-cd]pyrene	1.00	0.878		ug/L		88	28 - 137
Naphthalene	1.00	0.686		ug/L		69	26 - 120
Phenanthrene	1.00	0.763		ug/L		76	37 - 125
Pyrene	1.00	0.846		ug/L		85	34 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 121*
1-Methylnaphthalene-d10 (Surr)	*79*		*30 - 127*
Fluoranthene-d10 (Surr)	*77*		*34 - 130*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-653286/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/05/25 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*96*		*63 - 135*		*06/05/25 11:12*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 410-653286/6
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653286

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline (Unleaded) (1C)			1100	1020		ug/L		93	66 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*85*		*63 - 135*

Lab Sample ID: LCSD 410-653286/7
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653286

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline (Unleaded) (1C)			1100	1030		ug/L		94	66 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*86*		*63 - 135*

Lab Sample ID: MB 410-653935/5
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*95*		*63 - 135*		*06/06/25 11:33*	*1*

Lab Sample ID: LCS 410-653935/6
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653935

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline (Unleaded) (1C)			1100	1000		ug/L		91	66 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*86*		*63 - 135*

Lab Sample ID: LCSD 410-653935/7
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653935

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline (Unleaded) (1C)			1100	1000		ug/L		91	66 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*84*		*63 - 135*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-653819/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654000 — **Prep Batch: 653819**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.010		0.020	0.010	ug/L		06/06/25 06:57	06/06/25 18:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*140*	*S1+*	*46 - 136*	*06/06/25 06:57*	*06/06/25 18:16*	*1*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*131*		*46 - 136*	*06/06/25 06:57*	*06/06/25 18:16*	*1*

Lab Sample ID: LCS 410-653819/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654000 — **Prep Batch: 653819**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (1C)			0.129	0.147		ug/L		114	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*118*		*46 - 136*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*110*		*46 - 136*

Lab Sample ID: LCSD 410-653819/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654000 — **Prep Batch: 653819**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (1C)			0.129	0.154		ug/L		119	60 - 140	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,2,2-Tetrachloroethane (Surr) (1C)	*114*		*46 - 136*
1,1,2,2-Tetrachloroethane (Surr) (2C)	*110*		*46 - 136*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-653304/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653544 — **Prep Batch: 653304**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		06/05/25 08:51	06/05/25 17:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*84*		*32 - 125*	*06/05/25 08:51*	*06/05/25 17:18*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 410-653304/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653544 — **Prep Batch: 653304**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28)			603	568		ug/L		94	20 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr)	*80*		*32 - 125*

Lab Sample ID: MB 410-654709/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654834 — **Prep Batch: 654709**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		06/09/25 07:58	06/09/25 22:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*71*		*32 - 125*	*06/09/25 07:58*	*06/09/25 22:54*	*1*

Lab Sample ID: LCS 410-654709/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654834 — **Prep Batch: 654709**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28)			603	465		ug/L		77	20 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr)	*71*		*32 - 125*

Lab Sample ID: LCSD 410-654709/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654834 — **Prep Batch: 654709**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)			603	510		ug/L		85	20 - 115	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o- terphenyl (Surr)	*60*		*32 - 125*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-653244/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653727 — **Prep Batch: 653244**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/05/25 08:42	06/05/25 18:50	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 18:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 410-653244/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653727 — **Prep Batch: 653244**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/05/25 08:42	06/05/25 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*125*		*46 - 161*	*06/05/25 08:42*	*06/05/25 18:50*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*114*		*46 - 161*	*06/05/25 08:42*	*06/05/25 18:50*	*1*
Tetrachloro-m-xylene (1C)	*76*		*41 - 146*	*06/05/25 08:42*	*06/05/25 18:50*	*1*
Tetrachloro-m-xylene (2C)	*71*		*41 - 146*	*06/05/25 08:42*	*06/05/25 18:50*	*1*

Lab Sample ID: LCS 410-653244/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 653727 — **Prep Batch: 653244**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016 (1C)	0.500	0.399		ug/L		80	60 - 117
PCB-1260 (1C)	0.500	0.477		ug/L		95	81 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*126*		*46 - 161*
DCB Decachlorobiphenyl (Surr) (2C)	*110*		*46 - 161*
Tetrachloro-m-xylene (1C)	*79*		*41 - 146*
Tetrachloro-m-xylene (2C)	*74*		*41 - 146*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-654123/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			06/06/25 17:51	1

Lab Sample ID: LCS 410-654123/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.756		mg/L		101	90 - 110

Lab Sample ID: LCSD 410-654123/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654123

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.758		mg/L		101	90 - 110	0	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 410-225317-2 MS
Matrix: Water
Analysis Batch: 654123

Client Sample ID: QM-R-257704-060325
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	3.1	F1	2.50	7.48	F1	mg/L		173	90 - 110		

Lab Sample ID: 410-225317-2 DU
Matrix: Water
Analysis Batch: 654123

Client Sample ID: QM-R-257704-060325
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	3.1	F1		3.06		mg/L				3	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-653100/1-A
Matrix: Water
Analysis Batch: 653543

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 653100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		06/05/25 02:52	06/05/25 11:44	1
Antimony	<0.20		1.0	0.20	ug/L		06/05/25 02:52	06/05/25 11:44	1
Arsenic	<0.68		2.0	0.68	ug/L		06/05/25 02:52	06/05/25 11:44	1
Barium	<0.75		2.0	0.75	ug/L		06/05/25 02:52	06/05/25 11:44	1
Beryllium	<0.12		0.50	0.12	ug/L		06/05/25 02:52	06/05/25 11:44	1
Cadmium	<0.15		0.50	0.15	ug/L		06/05/25 02:52	06/05/25 11:44	1
Calcium	<50		120	50	ug/L		06/05/25 02:52	06/05/25 11:44	1
Chromium	<0.55		2.0	0.55	ug/L		06/05/25 02:52	06/05/25 11:44	1
Cobalt	0.207	J	0.50	0.16	ug/L		06/05/25 02:52	06/05/25 11:44	1
Copper	<0.85		1.0	0.85	ug/L		06/05/25 02:52	06/05/25 11:44	1
Iron	<20		50	20	ug/L		06/05/25 02:52	06/05/25 11:44	1
Lead	<0.12		0.50	0.12	ug/L		06/05/25 02:52	06/05/25 11:44	1
Magnesium	<16		50	16	ug/L		06/05/25 02:52	06/05/25 11:44	1
Manganese	<0.95		2.0	0.95	ug/L		06/05/25 02:52	06/05/25 11:44	1
Nickel	<0.40		1.0	0.40	ug/L		06/05/25 02:52	06/05/25 11:44	1
Potassium	<65		200	65	ug/L		06/05/25 02:52	06/05/25 11:44	1
Selenium	<0.28		1.0	0.28	ug/L		06/05/25 02:52	06/05/25 11:44	1
Silver	<0.10		0.50	0.10	ug/L		06/05/25 02:52	06/05/25 11:44	1
Sodium	<90		200	90	ug/L		06/05/25 02:52	06/05/25 11:44	1
Thallium	<0.13		0.50	0.13	ug/L		06/05/25 02:52	06/05/25 11:44	1
Zinc	<4.0		10	4.0	ug/L		06/05/25 02:52	06/05/25 11:44	1
Vanadium	<0.79		4.0	0.79	ug/L		06/05/25 02:52	06/05/25 11:44	1

Lab Sample ID: LCS 410-653100/2-A
Matrix: Water
Analysis Batch: 653543

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 653100

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			5000	5130		ug/L		103	90 - 110		
Antimony			100	102		ug/L		102	90 - 115		
Arsenic			500	492		ug/L		98	90 - 109		
Barium			500	507		ug/L		101	90 - 113		
Beryllium			50.0	53.8		ug/L		108	82 - 120		

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

Lab Sample ID: LCS 410-653100/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 653543 — **Prep Batch: 653100**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	50.0	51.4		ug/L		103	90 - 112
Calcium	5000	5130		ug/L		103	90 - 112
Chromium	500	520		ug/L		104	90 - 110
Cobalt	500	520		ug/L		104	90 - 110
Copper	500	492		ug/L		98	90 - 110
Iron	5000	5310		ug/L		106	90 - 111
Lead	50.0	53.3		ug/L		107	90 - 110
Magnesium	5000	5160		ug/L		103	90 - 110
Manganese	500	488		ug/L		98	90 - 111
Nickel	500	519		ug/L		104	90 - 109
Potassium	5000	5130		ug/L		103	90 - 110
Selenium	100	103		ug/L		103	90 - 110
Silver	50.0	50.4		ug/L		101	90 - 112
Sodium	5000	5090		ug/L		102	89 - 114
Thallium	100	105		ug/L		105	90 - 110
Zinc	500	496		ug/L		99	90 - 112
Vanadium	500	514		ug/L		103	90 - 109

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-652908/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 655039 — **Prep Batch: 652908**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0880	J	0.20	0.087	ug/L		06/09/25 08:33	06/09/25 11:47	1

Lab Sample ID: LCS 410-652908/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 655039 — **Prep Batch: 652908**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.08		ug/L		108	80 - 118

Method: 9040C - pH

Lab Sample ID: LCS 410-654276/1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 654276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		99	95 - 105

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-653853/17
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:13	1

Lab Sample ID: MB 410-653853/33
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:53	1

Lab Sample ID: LCS 410-653853/16
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0492		mg/L		98	82 - 132

Lab Sample ID: LCS 410-653853/32
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 653853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0538		mg/L		108	82 - 132

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225317-1

GC/MS VOA

Analysis Batch: 653851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-1	TB-060325	Total/NA	Water	8260D	
410-225317-2	QM-R-257704-060325	Total/NA	Water	8260D	
410-225317-3	QM-R-259991-060325	Total/NA	Water	8260D	
MB 410-653851/10	Method Blank	Total/NA	Water	8260D	
LCS 410-653851/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-653851/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 653282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	3510C	
410-225317-3	QM-R-259991-060325	Total/NA	Water	3510C	
MB 410-653282/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-653282/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 653655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	8270D SIM	653282
410-225317-3	QM-R-259991-060325	Total/NA	Water	8270D SIM	653282
MB 410-653282/1-A	Method Blank	Total/NA	Water	8270D SIM	653282
LCS 410-653282/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	653282

GC VOA

Analysis Batch: 653286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-1	TB-060325	Total/NA	Water	8015D	
MB 410-653286/5	Method Blank	Total/NA	Water	8015D	
LCS 410-653286/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-653286/7	Lab Control Sample Dup	Total/NA	Water	8015D	

Analysis Batch: 653935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	8015D	
410-225317-3	QM-R-259991-060325	Total/NA	Water	8015D	
MB 410-653935/5	Method Blank	Total/NA	Water	8015D	
LCS 410-653935/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-653935/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 653244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	3510C	
410-225317-3	QM-R-259991-060325	Total/NA	Water	3510C	
MB 410-653244/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-653244/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 653304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 653304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-653304/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-653304/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 653544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	8015D	653304
MB 410-653304/1-A	Method Blank	Total/NA	Water	8015D	653304
LCS 410-653304/2-A	Lab Control Sample	Total/NA	Water	8015D	653304

Analysis Batch: 653727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	8082A	653244
410-225317-3	QM-R-259991-060325	Total/NA	Water	8082A	653244
MB 410-653244/1-A	Method Blank	Total/NA	Water	8082A	653244
LCS 410-653244/2-A	Lab Control Sample	Total/NA	Water	8082A	653244

Prep Batch: 653819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-1	TB-060325	Total/NA	Water	8011	
410-225317-2	QM-R-257704-060325	Total/NA	Water	8011	
410-225317-3	QM-R-259991-060325	Total/NA	Water	8011	
MB 410-653819/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-653819/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-653819/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 654000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-1	TB-060325	Total/NA	Water	8011	653819
410-225317-2	QM-R-257704-060325	Total/NA	Water	8011	653819
410-225317-3	QM-R-259991-060325	Total/NA	Water	8011	653819
MB 410-653819/1-A	Method Blank	Total/NA	Water	8011	653819
LCS 410-653819/2-A	Lab Control Sample	Total/NA	Water	8011	653819
LCSD 410-653819/3-A	Lab Control Sample Dup	Total/NA	Water	8011	653819

Analysis Batch: 654003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	PCB	
410-225317-3	QM-R-259991-060325	Total/NA	Water	PCB	

Prep Batch: 654709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-3	QM-R-259991-060325	Total/NA	Water	3510C	
MB 410-654709/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-654709/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-654709/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 654834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-3	QM-R-259991-060325	Total/NA	Water	8015D	654709
MB 410-654709/1-A	Method Blank	Total/NA	Water	8015D	654709
LCS 410-654709/2-A	Lab Control Sample	Total/NA	Water	8015D	654709

GC Semi VOA (Continued)

Analysis Batch: 654834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-654709/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	654709

HPLC/IC

Analysis Batch: 654123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	EPA 300.0 R2.1	
410-225317-3	QM-R-259991-060325	Total/NA	Water	EPA 300.0 R2.1	
MB 410-654123/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-654123/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-654123/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	
410-225317-2 MS	QM-R-257704-060325	Total/NA	Water	EPA 300.0 R2.1	
410-225317-2 DU	QM-R-257704-060325	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 652908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	7470A	
410-225317-3	QM-R-259991-060325	Total/NA	Water	7470A	
MB 410-652908/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-652908/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 653100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total Recoverable	Water	3005A	
410-225317-3	QM-R-259991-060325	Total Recoverable	Water	3005A	
MB 410-653100/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-653100/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 653543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total Recoverable	Water	6020B	653100
410-225317-3	QM-R-259991-060325	Total Recoverable	Water	6020B	653100
MB 410-653100/1-A	Method Blank	Total Recoverable	Water	6020B	653100
LCS 410-653100/2-A	Lab Control Sample	Total Recoverable	Water	6020B	653100

Analysis Batch: 653767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total Recoverable	Water	6020B	653100
410-225317-3	QM-R-259991-060325	Total Recoverable	Water	6020B	653100

Analysis Batch: 655039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	7470A	652908
410-225317-3	QM-R-259991-060325	Total/NA	Water	7470A	652908
MB 410-652908/1-A	Method Blank	Total/NA	Water	7470A	652908
LCS 410-652908/2-A	Lab Control Sample	Total/NA	Water	7470A	652908

QC Association Summary

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

General Chemistry

Analysis Batch: 653853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	OIA-1677	
410-225317-3	QM-R-259991-060325	Total/NA	Water	OIA-1677	
MB 410-653853/17	Method Blank	Total/NA	Water	OIA-1677	
MB 410-653853/33	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-653853/16	Lab Control Sample	Total/NA	Water	OIA-1677	
LCS 410-653853/32	Lab Control Sample	Total/NA	Water	OIA-1677	

Analysis Batch: 654276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225317-2	QM-R-257704-060325	Total/NA	Water	9040C	
410-225317-3	QM-R-259991-060325	Total/NA	Water	9040C	
LCS 410-654276/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: TB-060325
Lab Sample ID: 410-225317-1

Date Collected: 06/03/25 07:00
Matrix: Water
Date Received: 06/03/25 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	653851	N7YK	ELLE	06/06/25 13:47
Total/NA	Analysis	8015D		1	653286	P5AM	ELLE	06/05/25 13:38
Total/NA	Prep	8011			653819	K2IL	ELLE	06/06/25 06:57
Total/NA	Analysis	8011		1	654000	URS0	ELLE	06/07/25 01:21

Client Sample ID: QM-R-257704-060325
Lab Sample ID: 410-225317-2

Date Collected: 06/03/25 09:15
Matrix: Water
Date Received: 06/03/25 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	653851	N7YK	ELLE	06/06/25 16:01
Total/NA	Prep	3510C			653282	QKX3	ELLE	06/05/25 08:36
Total/NA	Analysis	8270D SIM		1	653655	UJM0	ELLE	06/06/25 01:31
Total/NA	Analysis	8015D		1	653935	P5AM	ELLE	06/06/25 14:57
Total/NA	Prep	8011			653819	K2IL	ELLE	06/06/25 06:57
Total/NA	Analysis	8011		1	654000	URS0	ELLE	06/07/25 01:38
Total/NA	Prep	3510C			653304	QKX3	ELLE	06/05/25 08:51
Total/NA	Analysis	8015D		1	653544	UHEW	ELLE	06/06/25 00:53
Total/NA	Prep	3510C			653244	ZFS6	ELLE	06/05/25 08:42
Total/NA	Analysis	8082A		1	653727	URS0	ELLE	06/05/25 21:26
Total/NA	Analysis	PCB		1	654003	URS0	ELLE	06/05/25 21:26
Total/NA	Analysis	EPA 300.0 R2.1		5	654123	PYC6	ELLE	06/06/25 23:53
Total Recoverable	Prep	3005A			653100	UJL8	ELLE	06/05/25 02:52
Total Recoverable	Analysis	6020B		1	653543	SAM2	ELLE	06/05/25 12:52
Total Recoverable	Prep	3005A			653100	UJL8	ELLE	06/05/25 02:52
Total Recoverable	Analysis	6020B		1	653767	LHF4	ELLE	06/05/25 20:27
Total/NA	Prep	7470A			652908	UJL8	ELLE	06/09/25 08:33
Total/NA	Analysis	7470A		1	655039	IJ3I	ELLE	06/09/25 12:10
Total/NA	Analysis	9040C		1	654276	DI9Q	ELLE	06/06/25 18:32
Total/NA	Analysis	OIA-1677		1	653853	UJE2	ELLE	06/05/25 14:26

Client Sample ID: QM-R-259991-060325
Lab Sample ID: 410-225317-3

Date Collected: 06/03/25 10:15
Matrix: Water
Date Received: 06/03/25 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	653851	N7YK	ELLE	06/06/25 16:23
Total/NA	Prep	3510C			653282	QKX3	ELLE	06/05/25 08:36
Total/NA	Analysis	8270D SIM		1	653655	UJM0	ELLE	06/06/25 01:52
Total/NA	Analysis	8015D		1	653935	P5AM	ELLE	06/06/25 15:22
Total/NA	Prep	8011			653819	K2IL	ELLE	06/06/25 06:57
Total/NA	Analysis	8011		1	654000	URS0	ELLE	06/07/25 01:55
Total/NA	Prep	3510C			654709	QKX3	ELLE	06/09/25 07:58
Total/NA	Analysis	8015D		1	654834	KP5X	ELLE	06/10/25 01:34

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225317-1

Client Sample ID: QM-R-259991-060325

Date Collected: 06/03/25 10:15
Date Received: 06/03/25 17:00

Lab Sample ID: 410-225317-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			653244	ZFS6	ELLE	06/05/25 08:42
Total/NA	Analysis	8082A		1	653727	URS0	ELLE	06/05/25 21:39
Total/NA	Analysis	PCB		1	654003	URS0	ELLE	06/05/25 21:39
Total/NA	Analysis	EPA 300.0 R2.1		5	654123	PYC6	ELLE	06/06/25 23:17
Total Recoverable	Prep	3005A			653100	UJL8	ELLE	06/05/25 02:52
Total Recoverable	Analysis	6020B		1	653543	SAM2	ELLE	06/05/25 12:50
Total Recoverable	Prep	3005A			653100	UJL8	ELLE	06/05/25 02:52
Total Recoverable	Analysis	6020B		1	653767	LHF4	ELLE	06/05/25 20:25
Total/NA	Prep	7470A			652908	UJL8	ELLE	06/09/25 08:33
Total/NA	Analysis	7470A		1	655039	IJ3I	ELLE	06/09/25 12:16
Total/NA	Analysis	9040C		1	654276	DI9Q	ELLE	06/06/25 18:32
Total/NA	Analysis	OIA-1677		1	653853	UJE2	ELLE	06/05/25 15:03

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225317-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc
Job ID: 410-225317-1
Project/Site: Soil and Water Analysis - QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-225317-1	TB-060325	Water	06/03/25 07:00	06/03/25 17:00
410-225317-2	QM-R-257704-060325	Water	06/03/25 09:15	06/03/25 17:00
410-225317-3	QM-R-259991-060325	Water	06/03/25 10:15	06/03/25 17:00

410-225317 Chain of Custody

ivironme

Chain of Custody Record

eurofins | Environment Testing

Sample: Walt Pruin	Lab PM: Gordon, Stephen J	Carrier Tracking No(s): LaS	COC No: 410-152448-41887.1
Client Contact: Amy McGivney	Phone: 301 991-3914	E-Mail: Stephen.Gordon@et.eurofinsus.com	State of Origin: Maryland	Page: Page 1 of 1
Company: Tetra Tech Inc	PWSID:		Job #:
Address: 20251 Century Blvd Suite 200	Due Date Requested:		
City: Germantown	TAT Requested (days): 5 day TAT		
State, Zip: MD, 20874	Compliance Project: Δ Yes Δ No		
Phone: 301-528-3004(Tel) 301-528-3000(Fax)	PO #: 1209358		
Email: amy.mcgivney@tetratech.com	WO #:		
Project Name: Soil and Water Analysis - QL Frederick	Project #: 41018786		
Site: Quantum Maryland	SSOW#:		

Analysis Requested

Preservation Codes: A - HCL; D - HNO3; N - None; B - NaOH; 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)	8260D_LL - TCL VOCs 4.3	8011 - Ethylene Dibromide	6020B, 7470A	8270D_SIM - 16 PAHs	8082A_LL - Standard PCB List	8015D_DRO - Diesel Range Organics (C10-C-28)	8015D_GRO - (MOD) Gasoline Range Organics	300_ORGFM_28D - Fluoride	1677_Free - Free Cyanide	9040C - pH, Temperature, Corrosivity	Total Number of containers	Special Instructions/Note:
				Preservation Code:			A	A	D	N	N	A	A	N	B	N		
TB-060325	6/3/25	0700	G	Water	N	N	X	X	-	-	-	-	X	-	-	-	6	
QM-R-257704-060325	6/3/25	0915	G	Water			X	X	X	X	X	X	X	X	X	X	18	
QM-R-259991-060325	6/3/25	1015	G	Water			X	X	X	X	X	X	X	X	X	X	18	
				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: Walt P	Date/Time: 6/3/25 1450	Company: TT	Received by: [signature]	Date/Time: 6/3/25 14:50	Company: ELLE
Relinquished by: [signature]	Date/Time: 6/3/25 17:01	Company: ELLE	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 6/3/25 1700	Company: ELLE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R:2.7 C:2.6

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-225317-1

Login Number: 225317

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Reynolds, Benjamin

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	