

8 March 2022

Jocelyn Clark, P.E.  
Physical Scientist  
Land, Chemicals and Redevelopment Division – RCRA Branch  
U.S. Environmental Protection Agency – Region 9  
775 Hawthorne Street, LND-4-2  
San Francisco, CA 94105

**Subject: Fourth Quarter 2021 Groundwater Monitoring Results  
Former Thermal Treatment Unit  
Nammo Defense Systems Inc.  
Mesa, Arizona**

Attached please find results for the Fourth Quarter 2021 groundwater monitoring event conducted by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Nammo Defense Systems Inc. (NDS) at the former Thermal Treatment Unit (TTU) at the NDS facility in Mesa, Arizona. Tables of results provided in Attachment 1 include the following: groundwater well network (Table 1), groundwater elevation measurements (Table 2), observed concentrations of volatile organic compounds (VOCs) (Table 3), and observed concentrations of perchlorate (Table 4). Figures provided in Attachment 2 include a site location map (Figure 1), groundwater elevation and contours (Figure 2), perchlorate isoconcentration contours (Figure 3), isoconcentration contours for 1,1-dichloroethene and trichloroethene (Figure 4), and time-series plots of groundwater elevations and select VOC concentrations (Figures 5-1 through 5-26). Results from the Washington National Primate Research Center well PF-2, located on Salt River Pima-Maricopa Indian Community property, did not exceed the perchlorate concentration limit of 6.4 µg/L and the trigger level of 3.2 µg/L<sup>1</sup>.

Geosyntec prepared a Tier 1A data validation of the laboratory results according to United States Environmental Protection Agency guidance and the laboratory results are qualified

---

<sup>1</sup> Haley&Aldrich, 2015. Contingency Plan for Exceeding Perchlorate Concentration Limits at the Primate Facility Well No. 2 (Revision 2). Former Thermal Treatment Unit, Nammo Talley, Inc. Mesa, Arizona. October 27.

Jocelyn Clark, P.E.

8 March 2022

Page 2

as usable for meeting project objectives. A data validation memorandum is provided in Attachment 3. The data validation report determined that the data is usable for supporting the project objectives. Field notes including field-measured water quality parameters (temperature, specific conductivity, dissolved oxygen, pH, and oxidative-reductive potential) are provided in Attachment 4. Laboratory reports are provided in Attachment 5.

If you have any questions about this report, please contact either Angel Soto ([JSoto@Nammo.us](mailto:JSoto@Nammo.us)) with NDS, or Fabrizio Mascioni ([FMascioni@Geosyntec.com](mailto:FMascioni@Geosyntec.com)) with Geosyntec.



Sincerely,

Fabrizio Mascioni, R.G. 65652 (AZ)  
Senior Geologist

Tory Luttermoser  
Senior Staff Professional

Attachments: Attachment 1 – Tables  
Attachment 2 – Figures  
Attachment 3 – Data Validation Memorandum  
Attachment 4 – Field Notes  
Attachment 5 – Laboratory Analytical Reports

cc: Angel Soto, Nammo Defense Systems Inc.

Christopher Horan, Salt River Pima-Maricopa Indian Community

Carol Hibbard, Salt River Pima-Maricopa Indian Community

Kyle Johnson, Arizona Department of Environmental Quality

William Frier, U.S. Environmental Protection Agency

ATTACHMENT 1  
TABLES

**TABLE 1:  
FORMER THERMAL TREATMENT UNIT  
2021 GROUNDWATER WELL NETWORK  
NAMMO DEFENSE SYSTEMS INC.  
MESA, ARIZONA  
MARCH 2022**

Well Identification	Latitude	Longitude	Measuring Point Elevation (ft asml)	ADWR Number	Well Type/Use	Well Name/ Owner	Well Owner Information	Well Const	Well Diameter (in)	Screen Interval (ft bgs)	Casing Depth (ft bgs)	Boring Depth (ft bgs)
<b>Plume Monitoring Wells</b>												
TTU-3	33 29 57.98	-111 43 00.91	1308.03	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85279	PVC	4	78.1-138.1	143.6	180
TTU-4	33 30 01.65	-111 42 59.09	1305.12	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85280	PVC	4	39.5-99.5	104.9	180
TTU-5	33 29 52.48	-111 42 58.40	1314.93	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85281	PVC	4	59.5-164.5	169.5	174
TTU-6	33 29 57.57	-111 43 04.79	1300.84	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	110-175	180	185
TTU-7	33 29 57.85	-111 43 05.18	1301.84	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	Steel	8.5	282-410	282	410
								Open Borehole	8		None	
TTU-8	33 30 01.91	-111 43 05.31	1310.23	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	135-185	190	204
TTU-9A	33 30 04.61	-111 42 51.19	1318.04	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	24-99	104	105
TTU-10	33 29 54.60	-111 43 07.90	1302.42	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	115-180	185	204
TTU-12	33 29 56.03	-111 42 58.38	1312.21	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	Steel	5.5	30-180	30	180
								Open Borehole	5		None	
TTU-13	33 29 58.99	-111 42 56.85	1310.79	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85283	Steel	5.5	30-80	30	80
								Open Borehole	5		None	
TTU-14	33 29 57.20	-111 42 57.46	1316.80	N/A	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85284	Steel	5.5	45-100	45	100
								Open Borehole	5		None	
TTU-15	33 29 56.78	-111 42 47.03	1350.85	55-228014	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85285	Steel	5	10-100	10	100
								Open Borehole	4.5		None	
TTU-16	33 29 56.18	-111 42 49.59	1338.55	55-231730	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85286	Steel	8	20-95.6	20	95.6
								Open Borehole	8		None	
TTU-17	33 29 58.61	-111 42 45.69	1347.49	55-231735	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85287	Steel	8	20-101	20	101
								Open Borehole	8		None	
TTU-18	33 29 47.20	-111 42 58.10	1320.25	55-231737	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85288	Steel	8	21-140	21	140
								Open Borehole	8		None	
TTU-20	33 29 55.17	-111 42 51.58	1336.90	55-232968	Monitoring	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85288	PVC	4	25-95	95	100

**TABLE 1:  
FORMER THERMAL TREATMENT UNIT  
2021 GROUNDWATER WELL NETWORK  
NAMMO DEFENSE SYSTEMS INC.  
MESA, ARIZONA  
MARCH 2022**

Well Identification	Latitude	Longitude	Measuring Point Elevation (ft asml)	ADWR Number	Well Type/Use	Well Name/ Owner	Well Owner Information	Well Const	Well Diameter (in)	Screen Interval (ft bgs)	Casing Depth (ft bgs)	Boring Depth (ft bgs)
<b>Extraction and Injection Wells</b>												
TTU-1	33 29 59.14	-111 42 56.27	1312.73	55-914440	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85277	PVC	4	30-70	75	200
TTU-2	33 29 55.85	-111 42 57.85	1314.44	N/A	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85278	PVC	4	49.4-179.6	185	187.5
TTU-11	33 29 55.28	-111 42 51.47	1339.20	55-918534	Extraction/ Injection <sup>1</sup>	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85282	PVC	4	24.1-89.1	94	136
TTU-19	33 29 55.25	-111 42 51.50	1336.81	55-232969	Monitoring/ Injection <sup>2</sup>	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85288	PVC	4	25-95	95	96
TTU-EX-1	33 29 58.42	-111 42 52.55	1321.69	55-231733	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85288	Steel	8	19-110.7	19	110.7
								Open Borehole	8		None	
TTU-EX-2	33 29 57.61	-111 42 53.79	1316.40	55-231734	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85289	Steel	8	20-110	20	110
								Open Borehole	8		None	
TTU-EX-3	33 29 56.29	-111 42 54.12	1316.85	55-231731	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85290	Steel	8	20-101.45	20	111
								Open Borehole	8		None	
TTU-EX-4	33 29 55.46	-111 42 54.39	1319.96	55-231732	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85291	Steel	8	20-110.7	20	110.7
								Open Borehole	8		None	
TTU-EX-5	33 29 54.68	-111 42 54.62	1319.50	55-231736	Extraction	Nammo Defense Systems Inc.	P.O. Box 34299 Mesa, AZ 85292	Steel	8	20-110.8	20	110.8
								Open Borehole	8		None	
<b>Production Wells</b>												
PF-1	33 29 56.60	-111 43 09.75	1295.99	N/A	Production	University of Washington	4202 N Higley Rd Mesa, AZ 85215	Unknown	Unknown	Unknown	Unknown	Unknown
PF-2	33 29 56.65	-111 43 09.96	1296.35	N/A	Production	University of Washington	4202 N Higley Rd Mesa, AZ 85215	Steel	6 5/8	300-400	400	400

*Abbreviations:*

ft asml = feet above mean sea level (NAVD88)

ADWR = Arizona Department of Water Resources

Const = construction

in = inches

N/A = Not applicable

PVC = polyvinyl chloride

ft bgs = feet below ground surface

TTU = Thermal Treatment Unit

EX = Extraction

PF = Primate Facility

*Notes:*

(1) - TTU-11 was converted from an extraction well to an injection well in October 2020 for an In-Situ Bioremediation Pilot Test.

(2) - TTU-19 was converted from a monitoring well to an injection well in February 2021 for an In-Situ Bioremediation Pilot Test.

TTU-EX-1 through TTU-EX-5 are not currently operating as extraction wells. TTU-11 and TTU-19 are not currently operating as injection wells.

**TABLE 2: GROUNDWATER  
ELEVATIONS - FOURTH QUARTER 2021  
FORMER THERMAL TREATMENT UNIT  
NAMMO DEFENSE SYSTEMS INC.  
MARCH 2022**

Location	Northing (intl ft)	Easting (intl ft)	Top of Casing Elevation (ft asml)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft asml)
TTU-1	909420.734	761281.203	1312.73	10/21/2021	33.72	1279.01
				12/21/2021	37.77	1274.96
TTU-2	909087.852	761148.265	1314.44	10/21/2021	57.14	1257.30
				12/21/2021	59.54	1254.90
TTU-3	909303.363	760888.204	1308.03	10/21/2021	90.62	1217.41
				11/18/2021	93.35	1214.68
				12/21/2021	94.98	1213.05
TTU-4	909673.68	761041.975	1305.12	10/21/2021	50.80	1254.32
				11/18/2021	51.13	1253.99
				12/21/2021	51.80	1253.32
TTU-5	908747.636	761102.227	1314.93	10/21/2021	71.01	1243.92
				11/17/2021	73.88	1241.05
				12/21/2021	74.96	1239.97
TTU-6	909260.82	760560.096	1300.84	10/21/2021	122.74	1178.10
				11/18/2021	126.06	1174.78
				12/21/2021	128.34	1172.50
TTU-7	909287.611	760527.269	1301.84	10/21/2021	124.94	1176.90
				11/18/2021	135.84	1166.00
				12/21/2021	127.09	1174.75
TTU-8	909699.266	760514.908	1310.23	10/21/2021	145.19	1165.04
				11/18/2021	145.99	1164.24
				12/21/2021	147.11	1163.12
TTU-9A	909974.49	761710.151	1318.04	10/21/2021	26.34	1291.70
				11/17/2021	27.32	1290.72
				12/21/2021	28.72	1289.32
TTU-10	908960.114	760297.013	1302.42	10/21/2021	149.70	1152.72
				11/18/2021	150.62	1151.80
				12/21/2021	151.80	1150.62
TTU-11	909029.758	761706.47	1339.20	10/21/2021	32.29	1306.91
				12/21/2021	29.33	1309.87
TTU-12	909105.99	761103.28	1312.21	10/21/2021	67.79	1244.42
				11/18/2021	69.09	1243.12
				12/21/2021	70.09	1242.12
TTU-13	909405.92	761232.18	1310.79	10/21/2021	34.47	1276.32
				11/18/2021	37.18	1273.61
				12/21/2021	38.13	1272.66
TTU-14	909224.26	761181.23	1316.80	10/21/2021	54.37	1262.43
				11/18/2021	35.82	1280.98
				12/21/2021	50.12	1266.68
TTU-15	909185.10	762065.91	1350.85	10/21/2021	34.28	1316.57
				11/17/2021	31.74	1319.11
				12/21/2021	30.10	1320.75
TTU-16	909124.98	761848.851	1338.55	10/21/2021	14.70	1323.85
				11/17/2021	14.93	1323.62
				12/21/2021	16.49	1322.06

**TABLE 2: GROUNDWATER  
ELEVATIONS - FOURTH QUARTER 2021  
FORMER THERMAL TREATMENT UNIT  
NAMMO DEFENSE SYSTEMS INC.  
MARCH 2022**

Location	Northing (intl ft)	Easting (intl ft)	Top of Casing Elevation (ft asml)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft asml)
TTU-17	909370.90	762179.168	1347.49	10/21/2021	29.61	1317.88
				11/17/2021	31.40	1316.09
				12/21/2021	33.09	1314.40
TTU-18	908215.83	761130.011	1320.25	10/21/2021	DRY	
				11/17/2021	DRY	
				12/21/2021	DRY	
TTU-19	909030.75	761687.70	1336.81	10/21/2021	27.84	1308.97
				12/21/2021	27.39	1309.42
TTU-20	909022.53	761681.99	1336.90	10/21/2021	29.65	1307.25
				11/18/2021	29.17	1307.73
				12/21/2021	29.28	1307.62
TTU-EX-1	909350.57	761597.823	1321.69	10/21/2021	15.78	1305.91
				11/17/2021	17.23	1304.46
				12/21/2021	19.17	1302.52
TTU-EX-2	909268.19	761493.214	1316.40	10/21/2021	20.94	1295.46
				11/17/2021	22.28	1294.12
				12/21/2021	24.86	1291.54
TTU-EX-3	909134.94	761465.507	1316.85	10/21/2021	28.59	1288.26
				11/17/2021	29.60	1287.25
				12/21/2021	31.25	1285.60
TTU-EX-4	909051.30	761442.876	1319.96	10/21/2021	42.63	1277.33
				11/17/2021	41.75	1278.21
				12/21/2021	41.34	1278.62
TTU-EX-5	908971.77	761423.325	1319.50	10/21/2021	42.70	1276.80
				11/17/2021	42.06	1277.44
				12/21/2021	41.74	1277.76
PF-1	909161.578	760140.434	1295.99	10/21/2021	147.10	1148.89
				12/21/2021	149.39	1146.60
PF-2	909166.89	760122.25	1296.35	10/21/2021	147.19	1149.16
				11/18/2021	148.08	1148.27
				12/21/2021	149.36	1146.99

*Notes:*

intl ft = international foot

ft asml = feet above mean sea level

ft btoc = feet below top of casing





**TABLE 4: SUMMARY OF PERCHLORATE  
CONCENTRATIONS - FOURTH QUARTER 2021**  
FORMER THERMAL TREATMENT UNIT  
NAMMO DEFENSE SYSTEMS INC.  
MARCH 2022

Location	Sample Depth (ft btoc)	Sample Date	Sample Type	Analyte	Perchlorate	
				Method	EPA 314.0	EPA 6850
				Units	µg/l	
				HBGL	14	
					Concentration	
TTU-1	50	2021-12-22	Primary	<b>21,100</b>	--	
TTU-2	114	2021-12-22	Primary	<b>171,000</b>	--	
			Duplicate	<b>198,000</b>	--	
TTU-3	108	2021-11-18	Primary	<b>161</b>	--	
TTU-4	57	2021-11-18	Primary	< 4.00	--	
TTU-5	110	2021-11-17	Primary	<b>40.1</b>	--	
TTU-6	143	2021-11-18	Primary	<b>14.8</b>	--	
TTU-7	345	2021-11-18	Primary	10.5 J	--	
TTU-8	164	2021-11-18	Primary	< 4.00	--	
TTU-9A	61	2021-11-17	Primary	6.41	--	
			Duplicate	6.59	--	
TTU-10	147	2021-11-18	Primary	< 4.00	--	
TTU-12	82	2021-11-18	Primary	<b>148,000</b>	--	
			Duplicate	<b>140,000</b>	--	
TTU-13	51	2021-11-18	Primary	<b>11,000</b>	--	
TTU-14	69	2021-11-18	Primary	<b>12,600,000</b>	--	
TTU-15	75	2021-11-17	Primary	<b>2,520</b>	--	
TTU-16	80	2021-11-17	Primary	<b>879,000</b>	--	
TTU-17	80	2021-11-17	Primary	< 4.00	--	
TTU-20	73	2021-11-18	Primary	<b>526,000</b>	--	
TTU-EX-1	69	2021-11-17	Primary	<b>219,000</b>	--	
TTU-EX-2	74	2021-11-17	Primary	<b>66,900</b>	--	
TTU-EX-3	76	2021-11-17	Primary	<b>434,000</b>	--	
			Duplicate	<b>469,000</b>	--	
TTU-EX-4	77	2021-11-17	Primary	<b>86,700</b>	--	
TTU-EX-5	80	2021-11-17	Primary	< 4.00	--	
PF-2	400	2021-11-18	Primary	--		1.50
			Duplicate	--		1.30

*Notes:*

µg/l = micrograms per liter

HBGL = Health-Based Guidance Level

EPA = United States Environmental Protection Agency

Ft btoc = feet below the top of well casing

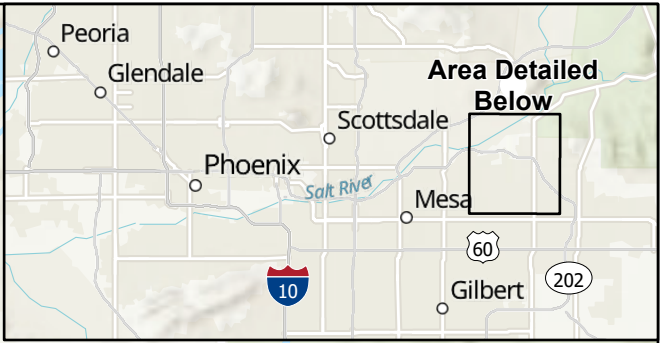
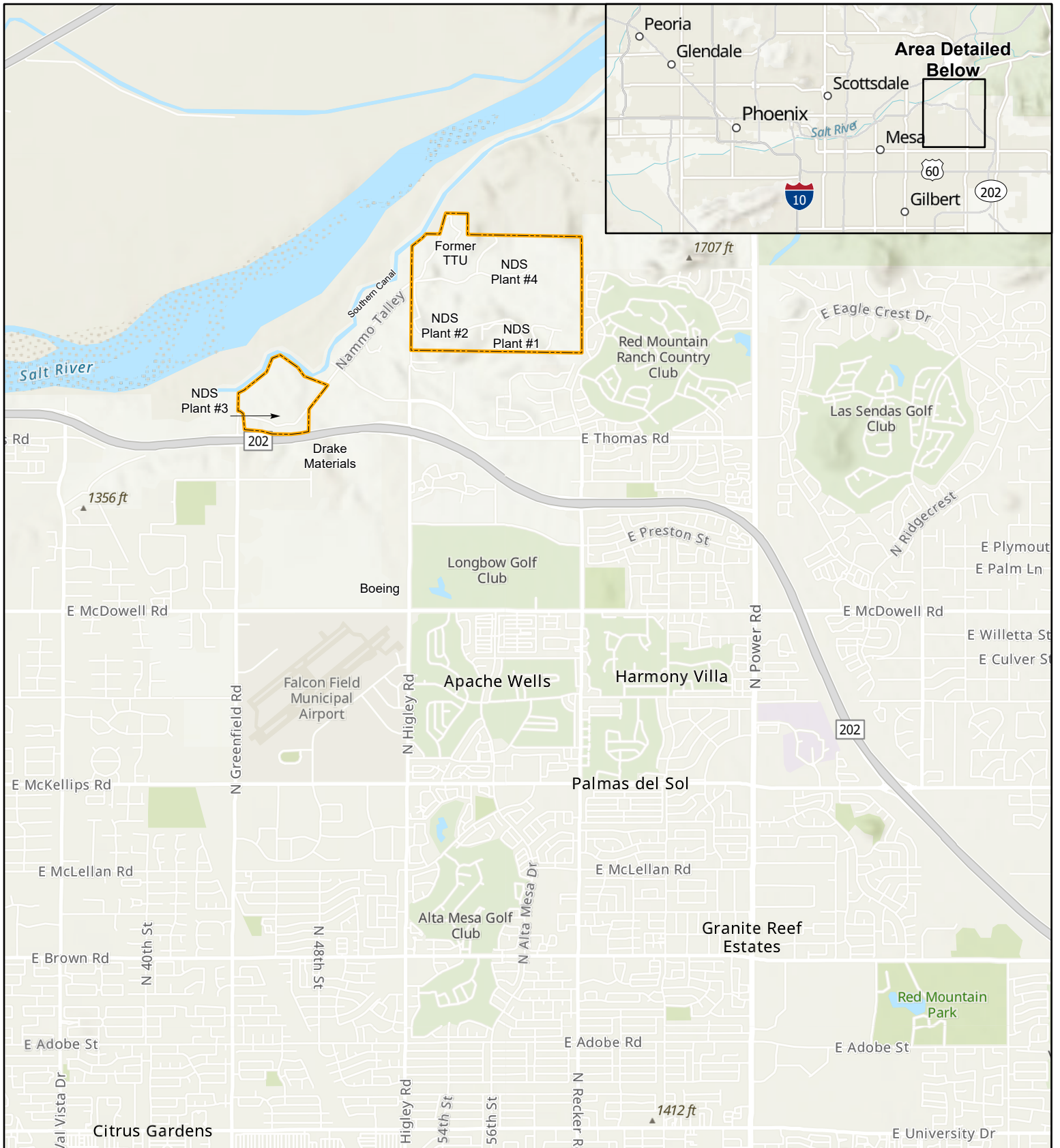
Concentrations exceeding the HBGL are indicated in **boldface**.

Non-detect results are indicated by "<" followed by the laboratory reporting limit.

-- = not applicable

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ATTACHMENT 2  
FIGURES



 Approximate Property Boundary

Notes:  
 -NDS: Nammo Defense Systems Inc.  
 -TTU: Thermal Treatment Unit

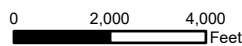


**Site Location**  
**Former Thermal Treatment Unit**

Nammo Defense Systems Inc.  
 Former Thermal Treatment Unit  
 Mesa, Arizona

**Geosyntec**  
 consultants

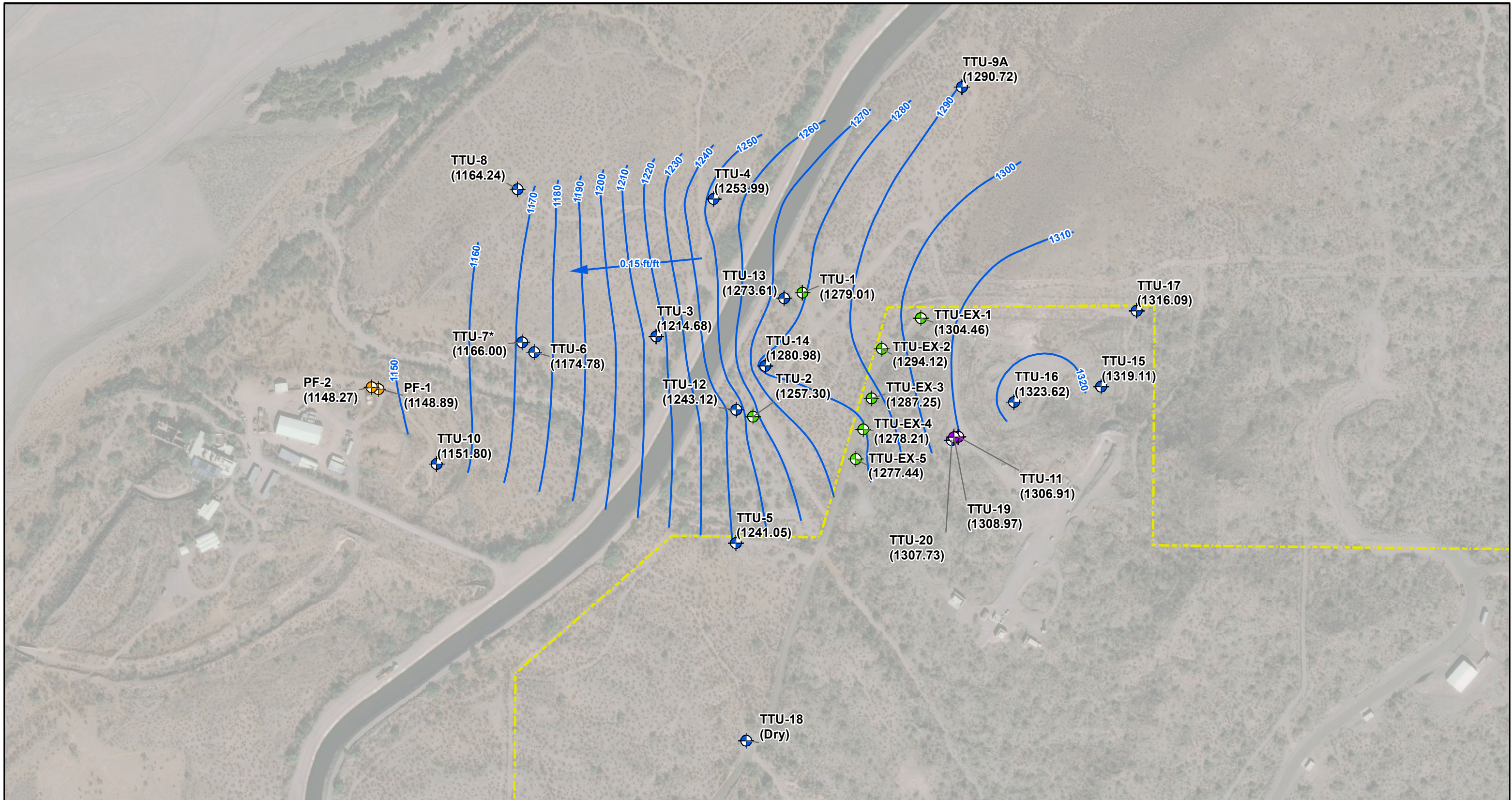
**Figure**



Phoenix

March 2022

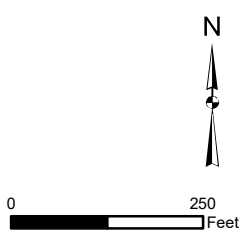
**1**



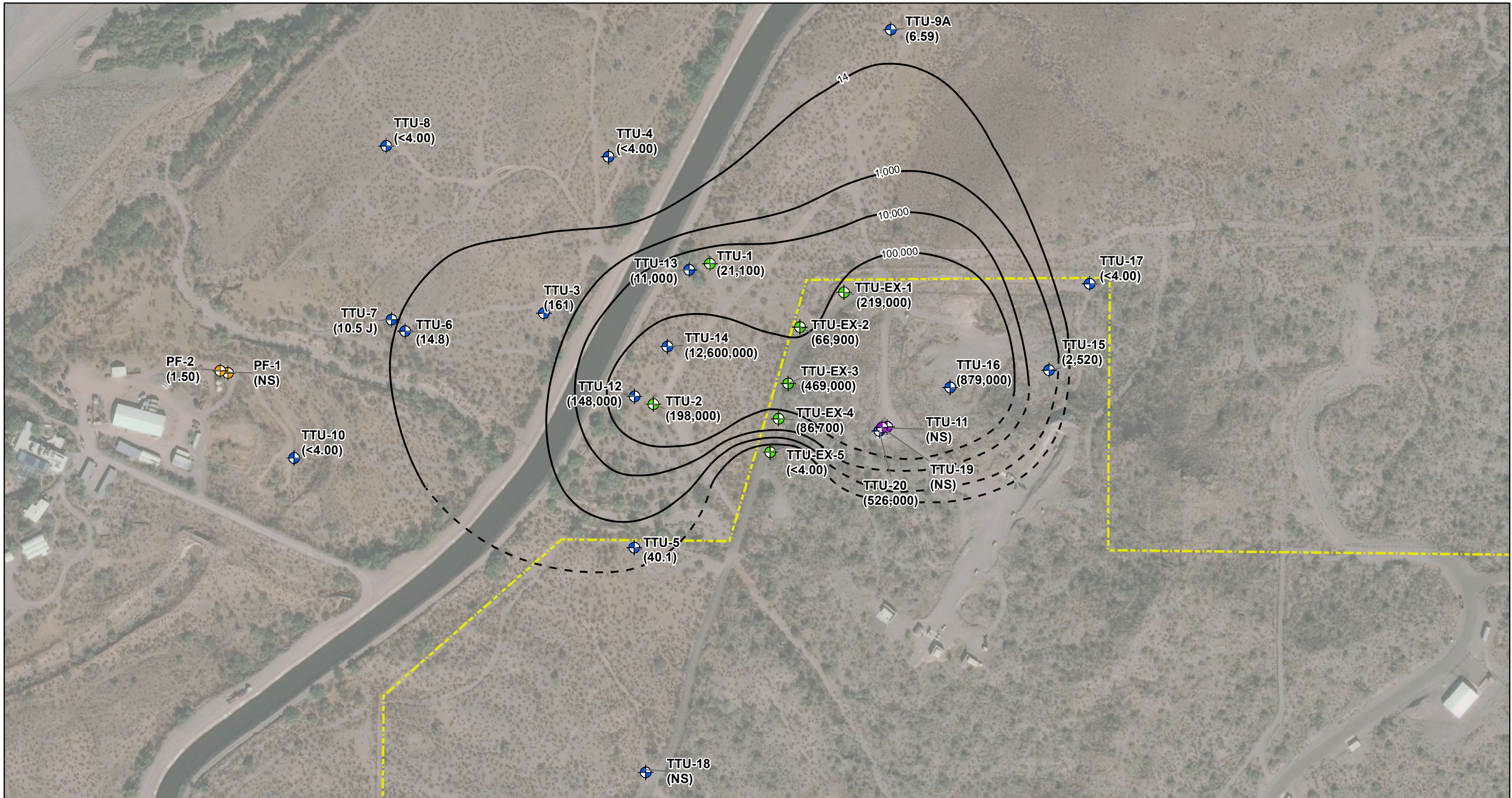
- Primate Well
- Extraction Well
- Injection Well
- Monitoring Well
- Hydraulic Gradient and Inferred Flow Direction
- Groundwater Elevation Contour (ft amsl)
- NDS Leased Property Boundary with Salt River
- Pima-Maricopa Indian Community

**TTU-1 = Monitoring Well Location**  
**1279.01 = Groundwater Elevation (ft. amsl)**

ft amsl: feet above mean sea level  
 NM: Not Measured  
 \*: not used to generate contours.  
 PF-1, PF-2, and TTU-7 are deep wells.  
 TTU-EX-1 through TTU-EX-5 are not currently operating as extraction wells.  
 \*TTU-11 and TTU-19 were converted to injection wells for the In-Situ Bio-Remediation Pilot Test conducted from October 2020 through March 2021. Laboratory results were not used for contouring.  
 Groundwater elevations for TTU-1 and TTU-2 were measured during October 2021.



<b>Groundwater Elevations and Contours</b> <b>Fourth Quarter 2021</b> Nammo Defense Systems Inc. Former Thermal Treatment Unit (TTU) Mesa, Arizona	
	<b>Figure</b>  <b>2</b>
Phoenix	March 2022



**Legend**

- Primate Well
- Extraction Well
- Injection Well
- Monitoring Well
- Extent of estimated Perchlorate concentrations in Groundwater (dashed where inferred)
- NDS Leased Property Boundary with Salt River Pima - Maricopa Indian Community

Notes:  
 All locations are approximate.  
 NS: Not Sampled  
 J: estimated concentration.  
 Non-detect results are indicated by "<" followed by the laboratory RL.  
 Highest result used where duplicate samples are collected.  
 TTU-18: This well is dry and has not been sampled since installation in 1Q 2020.  
 PF-1: The pump for this well is not operational and the well is not in use. Samples for this well have not been collected for the monitoring period.  
 \*TTU-11 and TTU-19 were converted to injection wells for the In-Situ Bio-Remediation Pilot Test conducted from October 2020 through March 2021.  
 Laboratory results were not used for contouring.  
 Perchlorate groundwater Health Based Guidance Level is 14 µg/L.

**TTU-1 = Monitoring Well Location**  
**21,100 = Perchlorate Concentration in micrograms per liter (µg/L).**



**Perchlorate Detections in Groundwater  
 Fourth Quarter 2021**

Nammo Defense Systems Inc.  
 Former Thermal Treatment Unit (TTU)  
 Mesa, Arizona

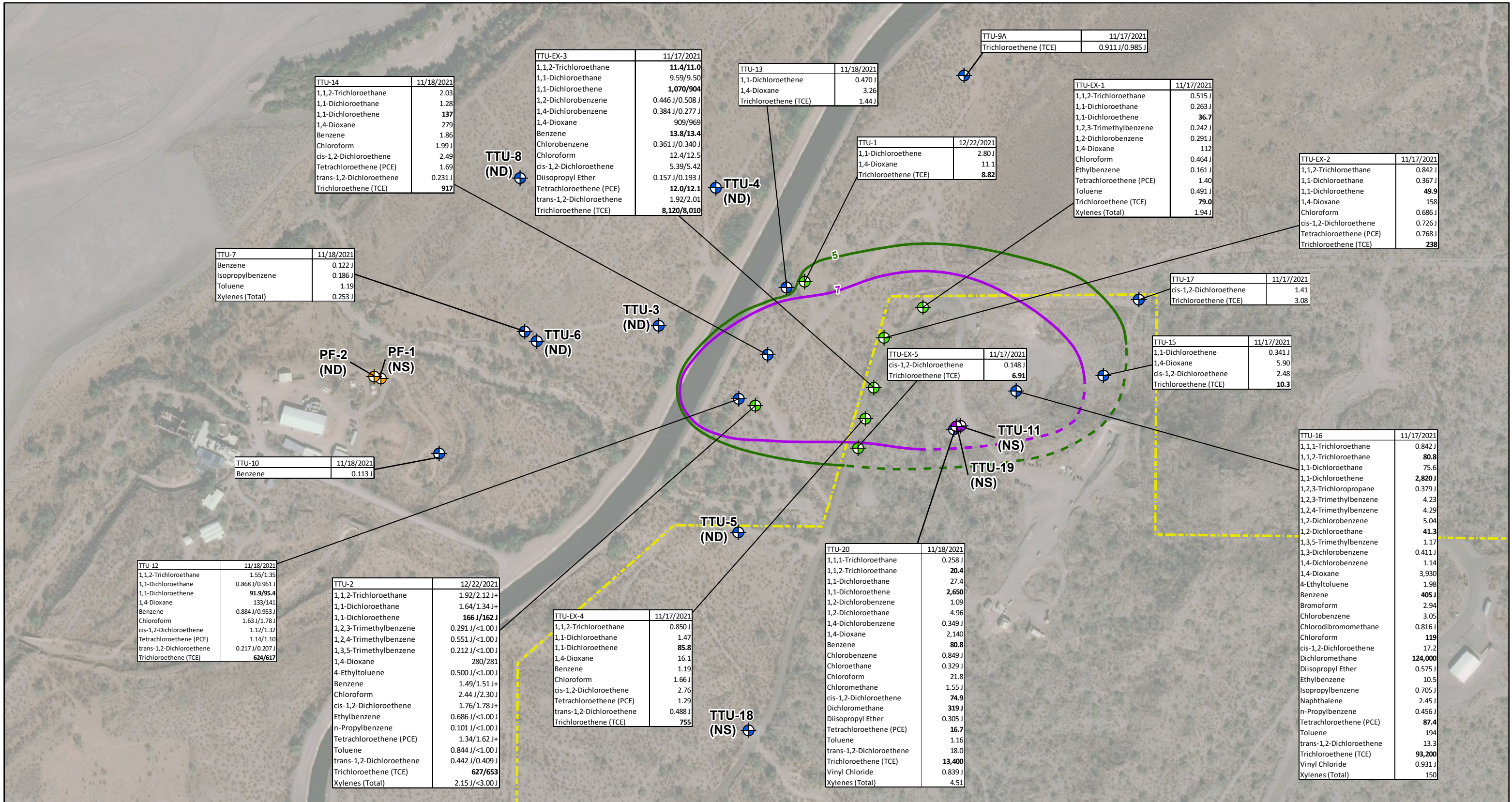


Phoenix

March 2022

**Figure**

**3**



**Legend**

- Primary Well
- Extraction Well
- Injection Well
- Monitoring Well
- Extent of Estimated 1,1-Dichloroethene (1,1-DCE) concentration in Groundwater July/August 2021 (Dashed Where Inferred)
- Extent of Estimated Trichloroethene (TCE) Concentration in Groundwater July/August 2021 (Dashed Where Inferred)
- NDS Leased Property Boundary with Salt River
- Pima-Maricopa Indian Community

**Notes:**  
 All locations are approximate.  
 Concentrations are in micrograms per liter (µg/L).  
 Only detected results are shown.  
 Primary/duplicate sample results.  
 ND: Not Detected; NS: Not Sampled.  
 J: estimated concentration.  
 J+: estimated concentration; actual concentration is likely higher than the detected value.  
 TTU-18: This well is dry and has not been sampled since installation in 1Q 2020.  
 PF-1: The pump for this well is not operational and the well is not in use.  
 Samples for this well have not been collected for the monitoring period.  
 \*TTU-11 and TTU-19 were converted to injection wells for the In-Situ Bio-Remediation Pilot Test conducted from October 2020 through March 2021.  
 Laboratory results were not used for contouring.

Contours represent the approximate extent of the TCE plume (green) and 1,1-DCE plume (purple) with concentrations above the Arizona Water Quality Standards (AWQS) for TCE and 1,1-DCE.  
 Concentrations exceeding the AWQS indicated in **bold**.

**AWQS Screening Levels (µg/L):**  
 1,1-DCE - 7  
 1,1,1-TCA - 200  
 1,1,2-TCA - 5  
 Benzene - 5  
 Cis-1,2-DCE - 70  
 Total Trihalomethanes (including Chloroform) - 100  
 Dichloromethane - 5  
 Trans-1,2-Dichloroethene - 100  
 PCE - 5  
 TCE - 5

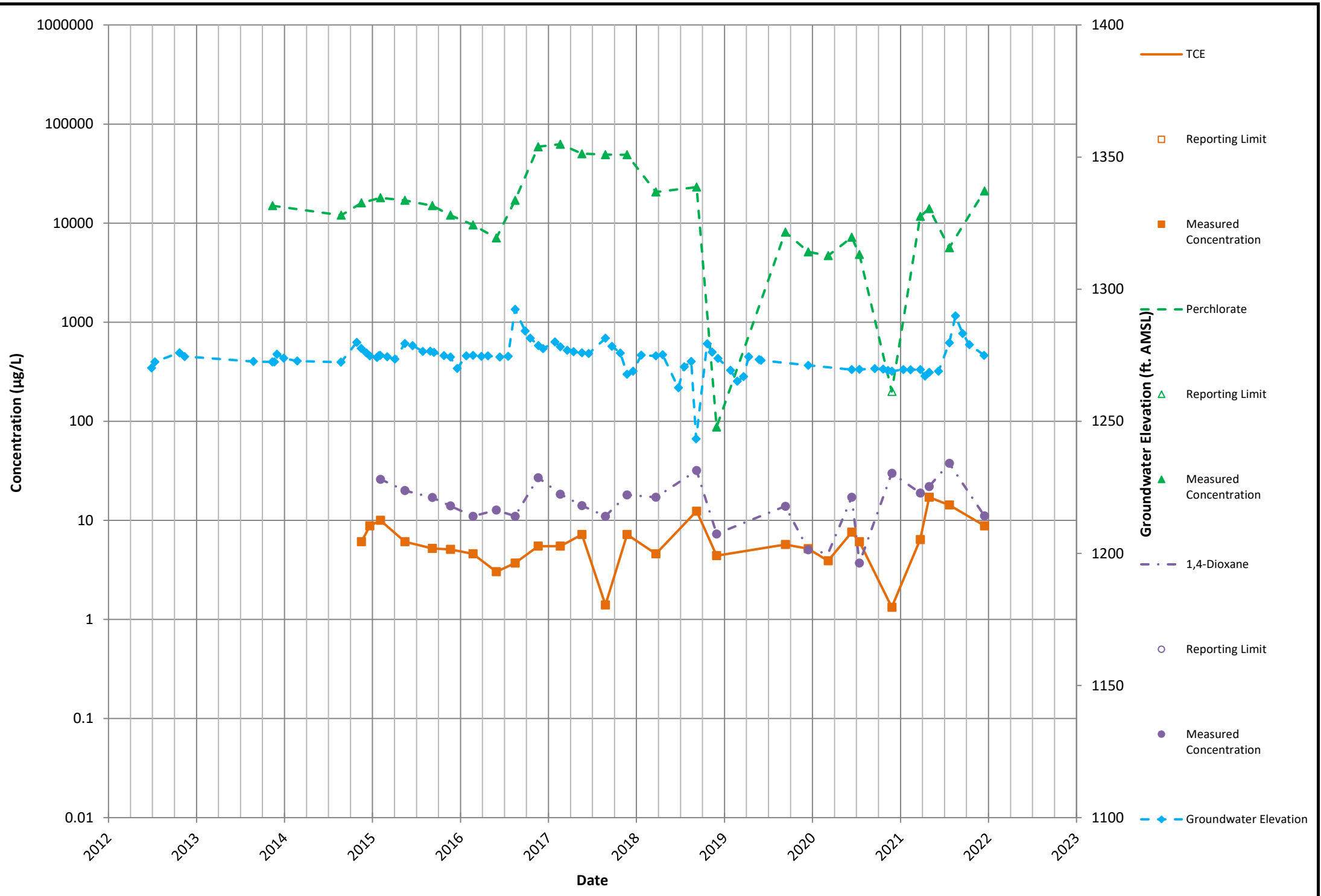
**VOC Detections in Groundwater Fourth Quarter 2021**  
 Nammo Defense Systems Inc.  
 Former Thermal Treatment Unit (TTU)  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix March 2022

**Figure 4**

E:\SP010\GW01 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plots\AQ2021\_TTU\_EK5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

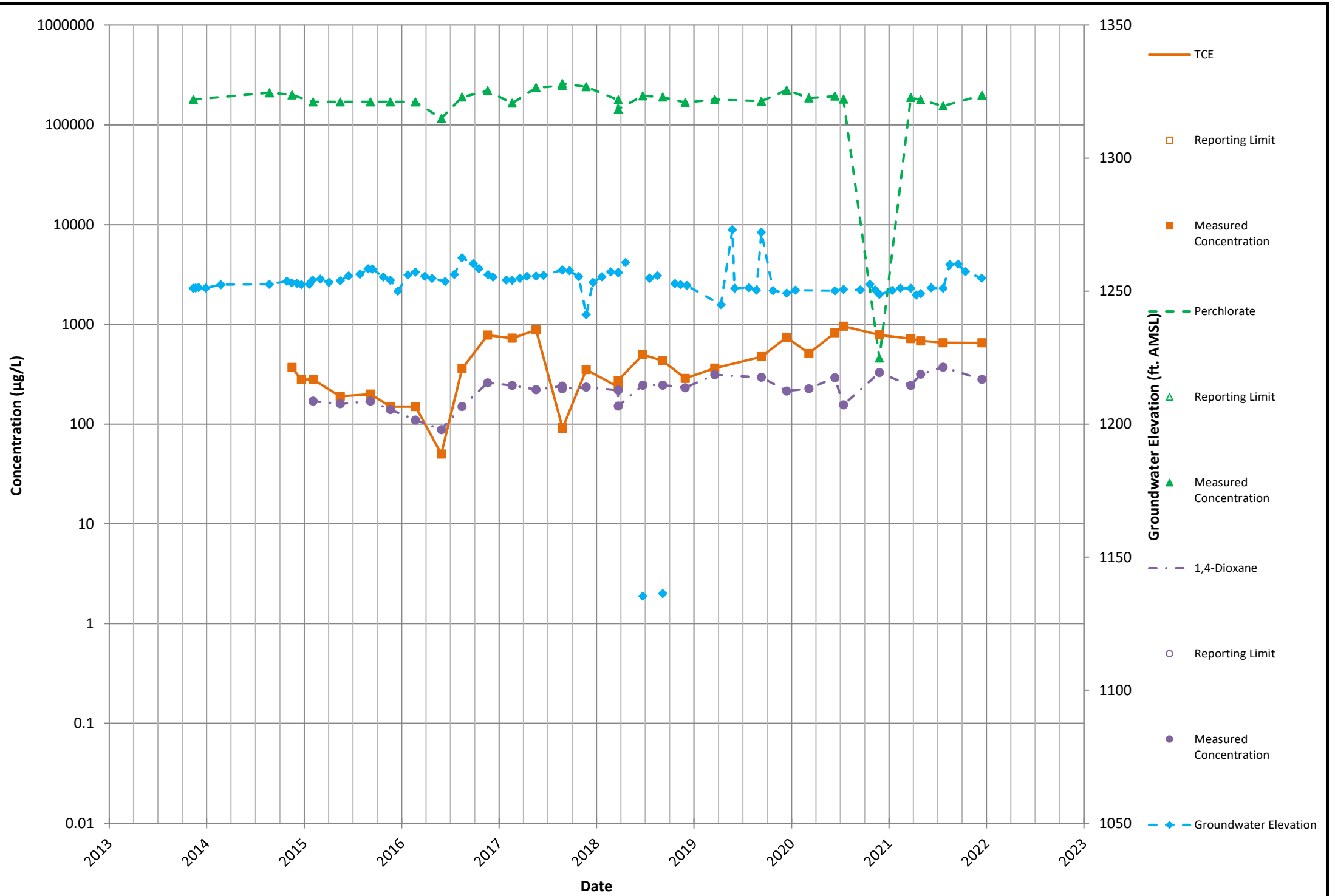
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-1**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-1**

E:\SP0101\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-2**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

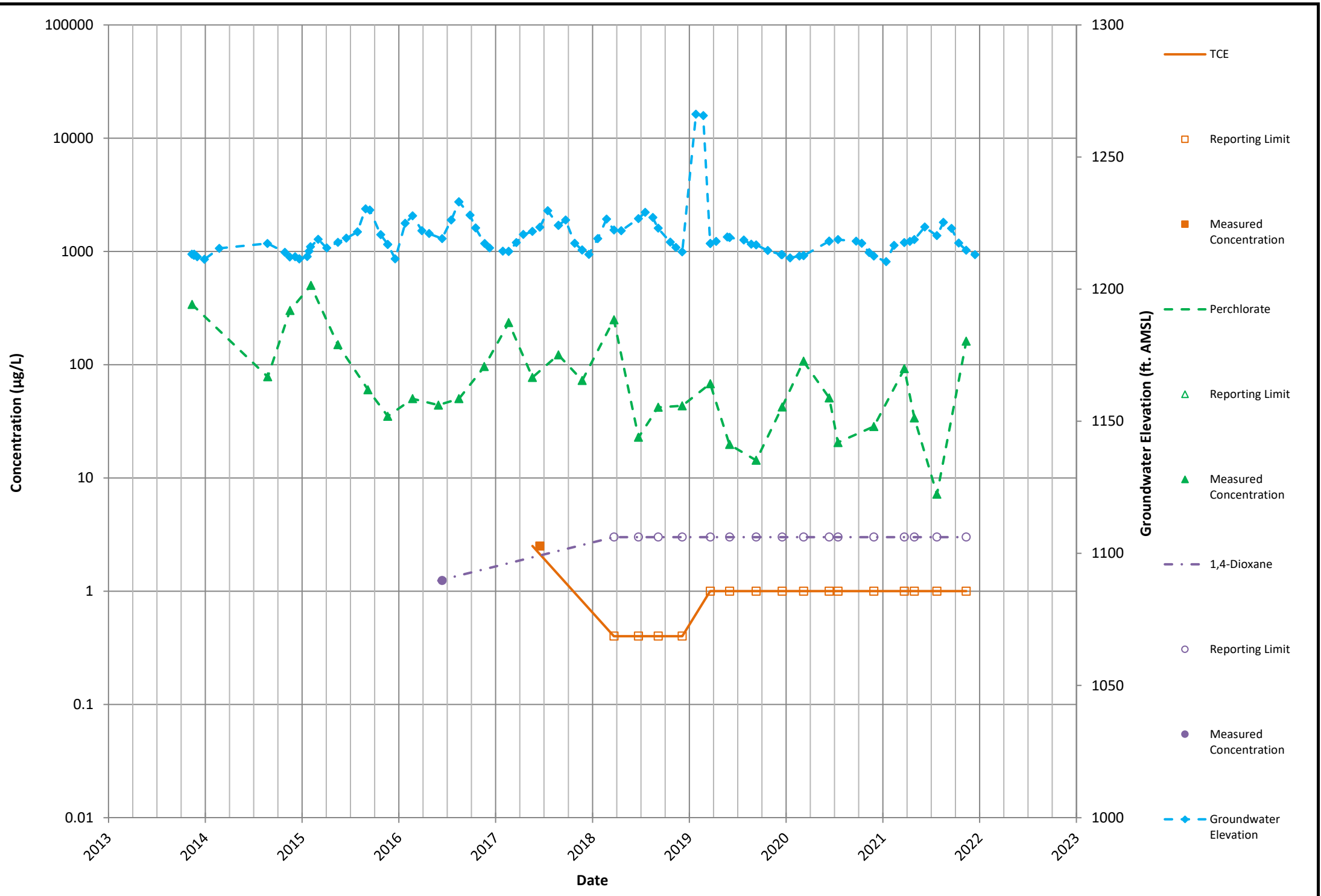
Phoenix

March 2022

**Figure 5-2**



E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plots\AQ2021\_TTU\_EK5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

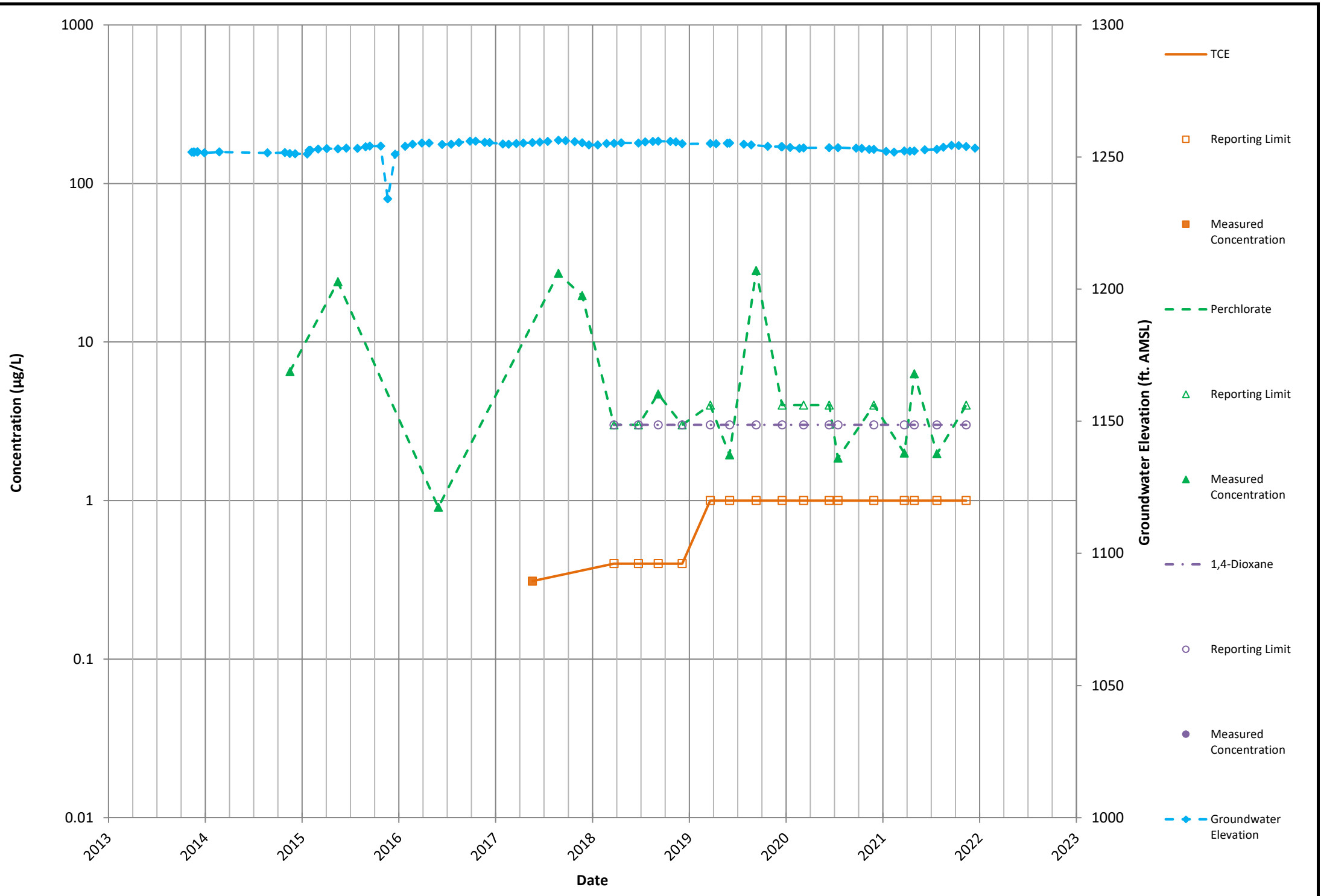
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-3**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-3**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\4Q2021\Attachment 2 - Figures\4Q2021\_TTU\_GW\_Concentration\_Plots\TU4E5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-4**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

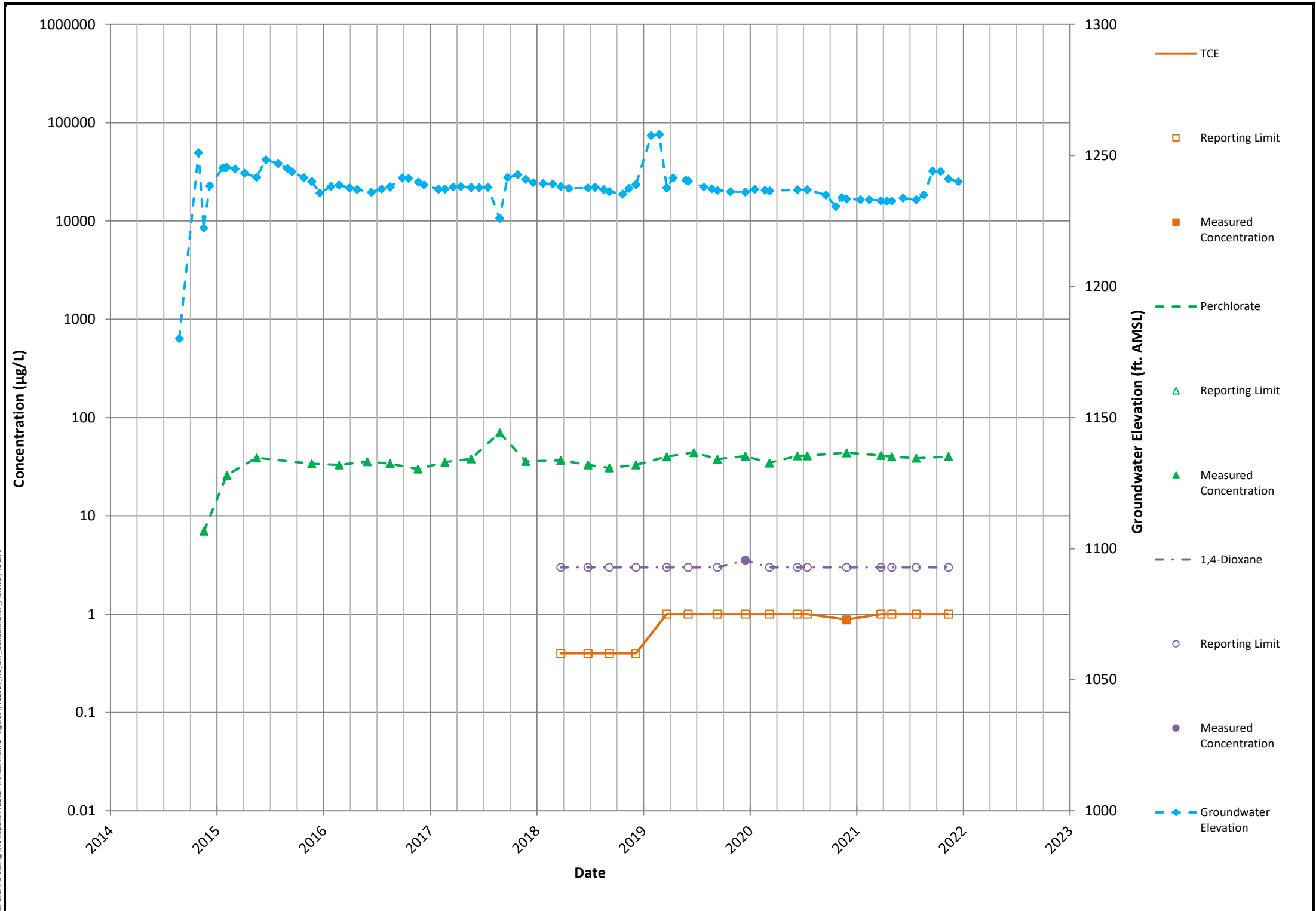
**Geosyntec**  
 consultants

Phoenix

March 2022

**Figure**  
**5-4**

E:\SP010\GW01 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

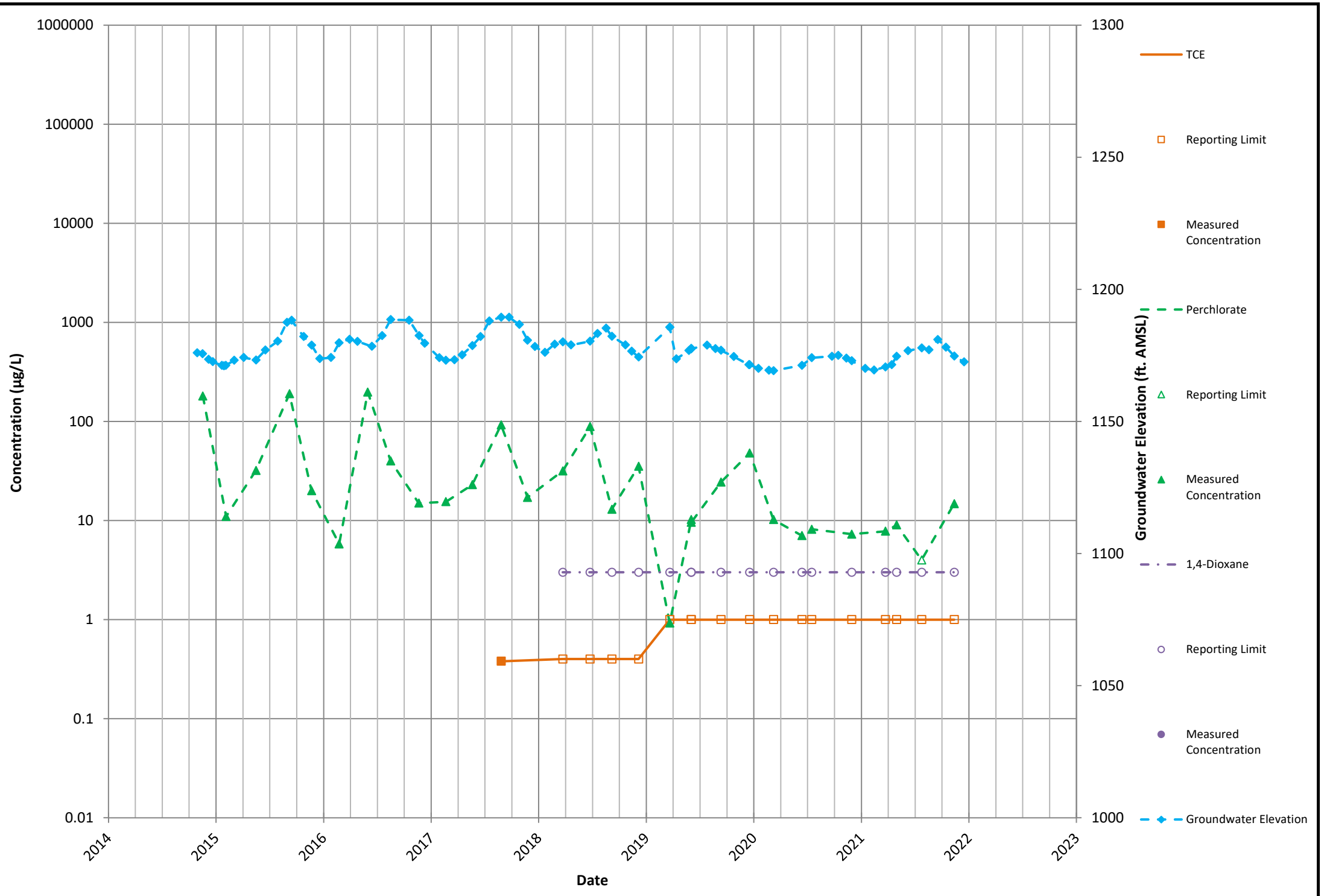
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-5**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-5**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

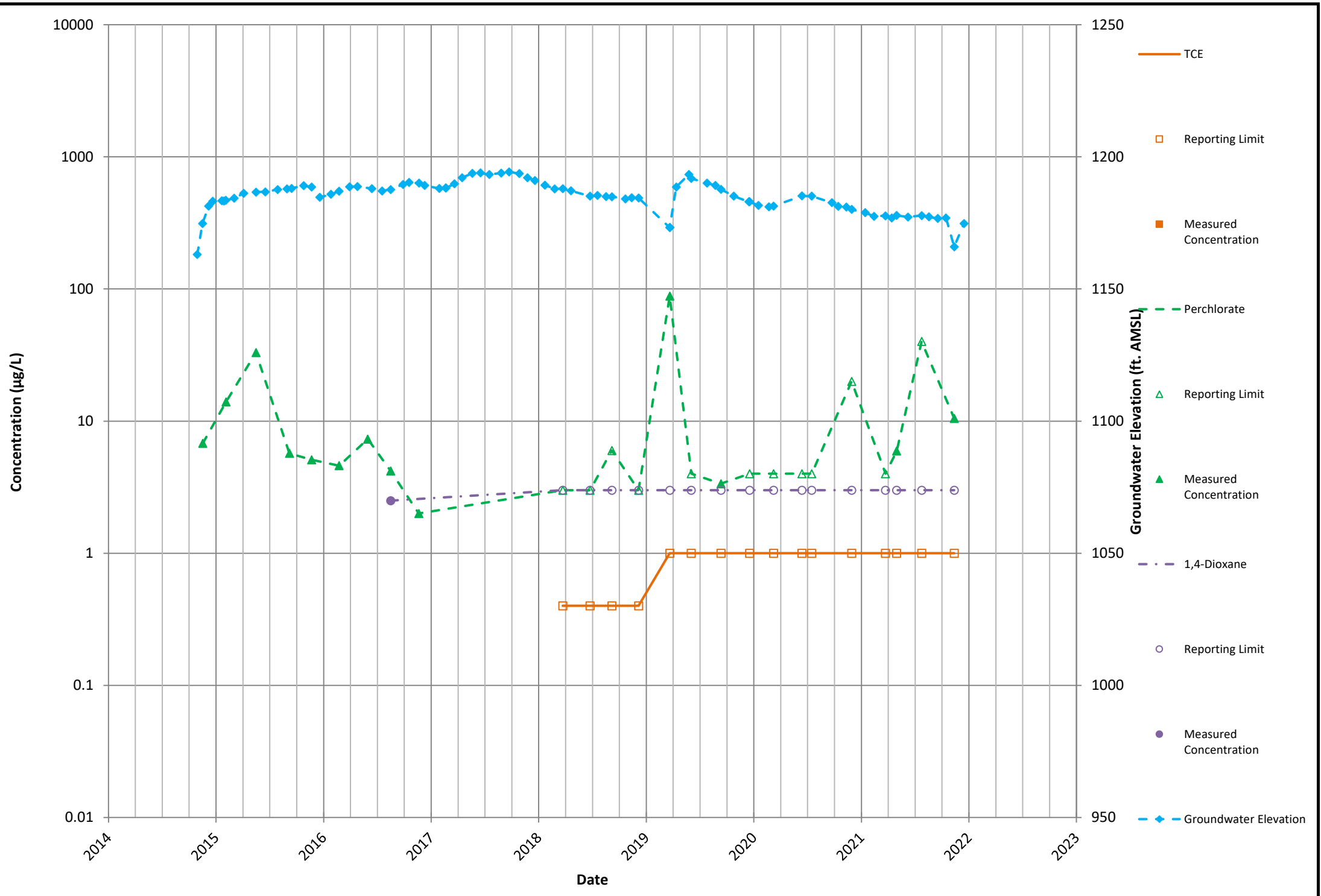
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-6**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-6**

E:\SP010\GW01 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plots\AQ2021\_TTU\_EK5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

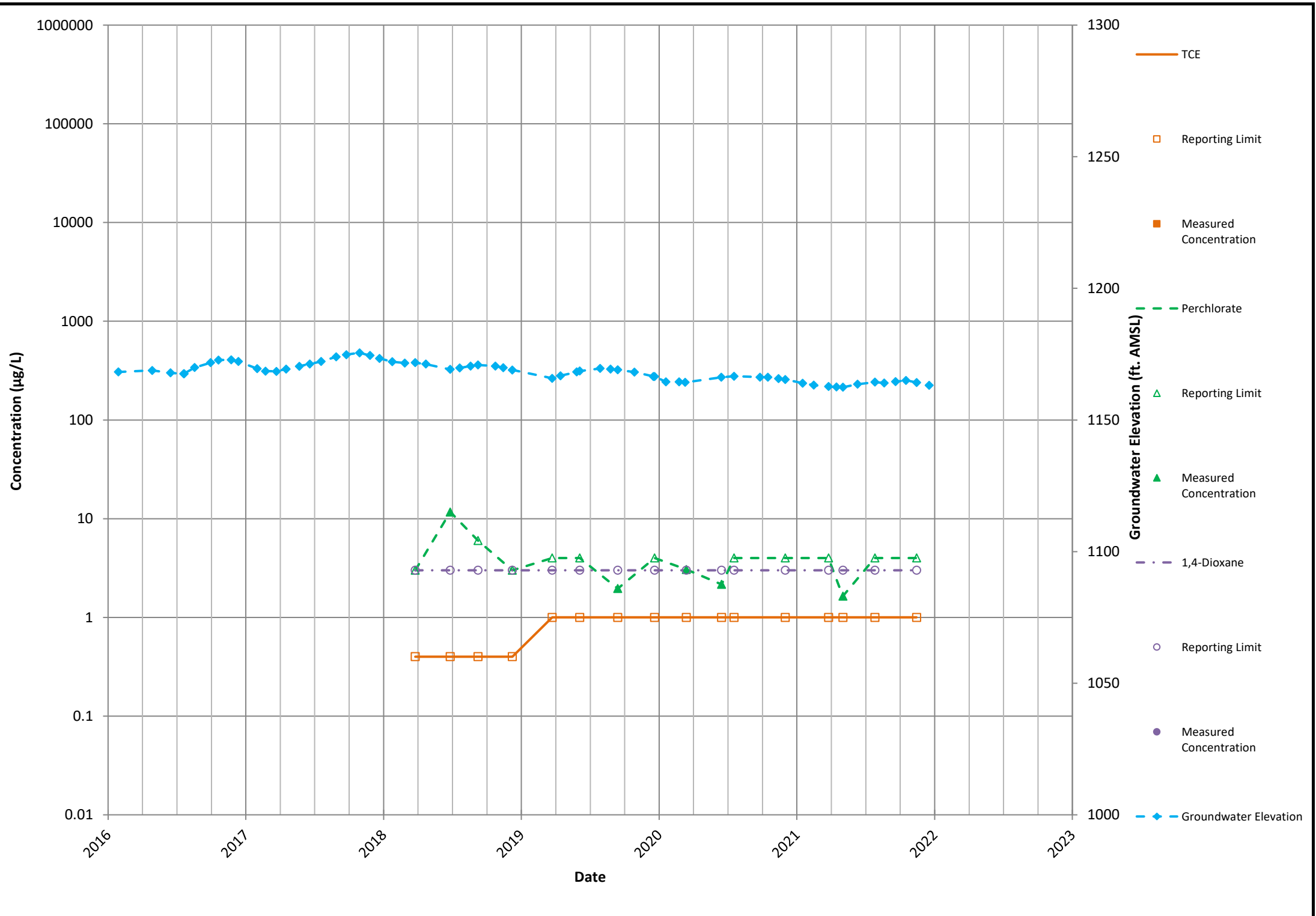
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-7**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-7**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

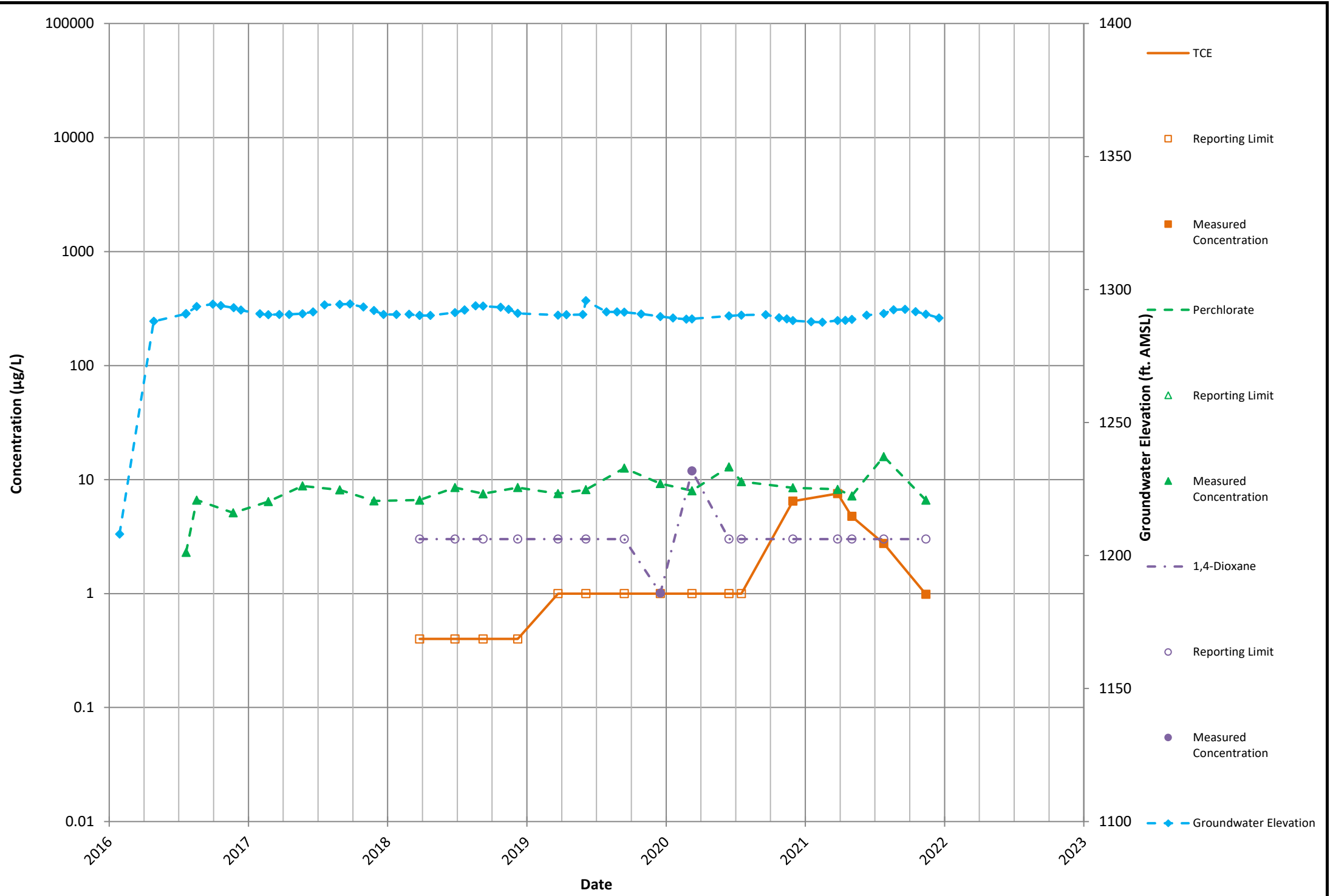
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-8**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-8**

P:\SP010\GW01 - 2021 Groundwater Monitoring\TTU Reports\4Q2021\Attachment 2 - Figures\4Q2021\_TTU\_GW\_Concentration\_Plots\5x9\_TTU-EX-5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

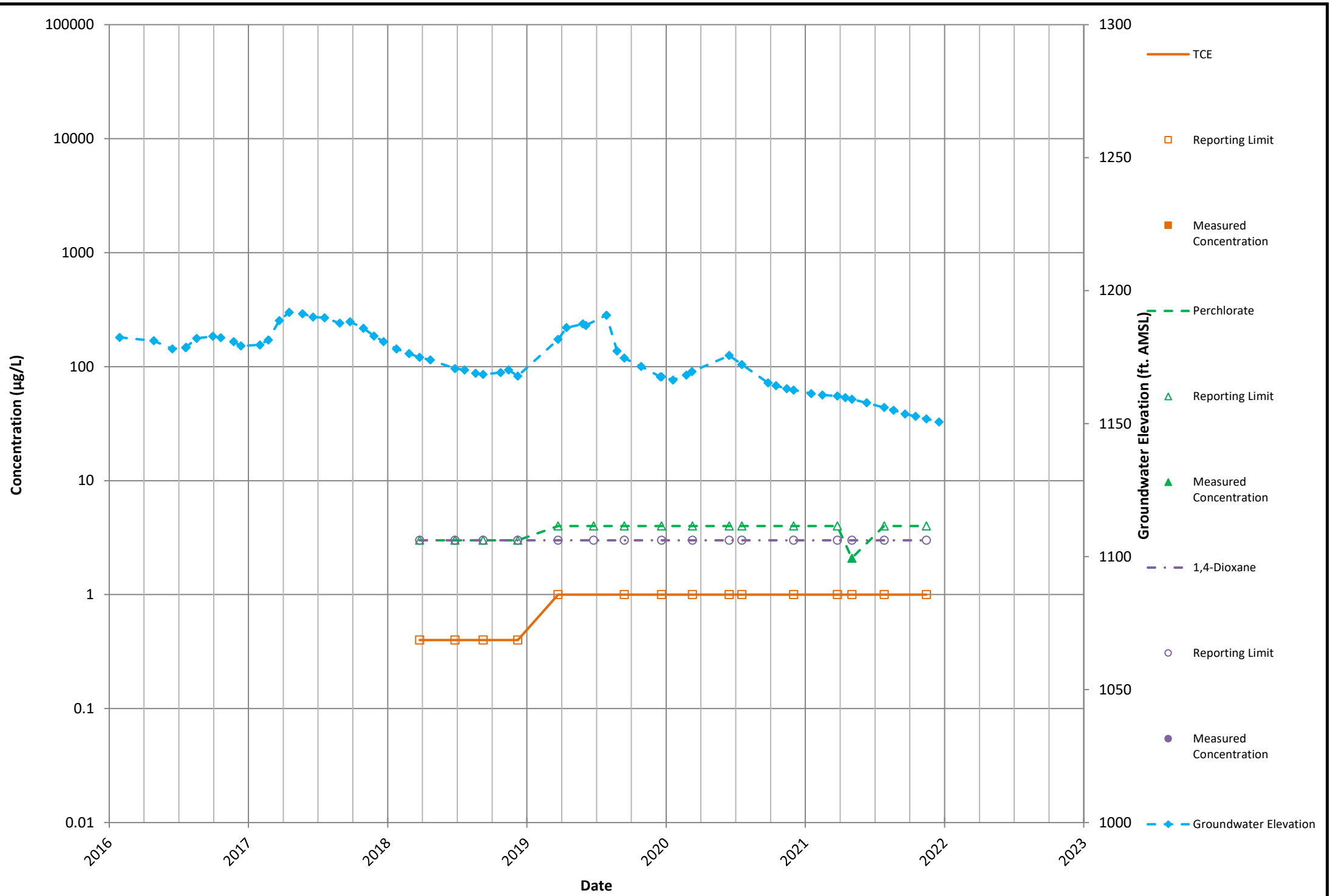
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-9A**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-9**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plots\AQ21TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-10**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

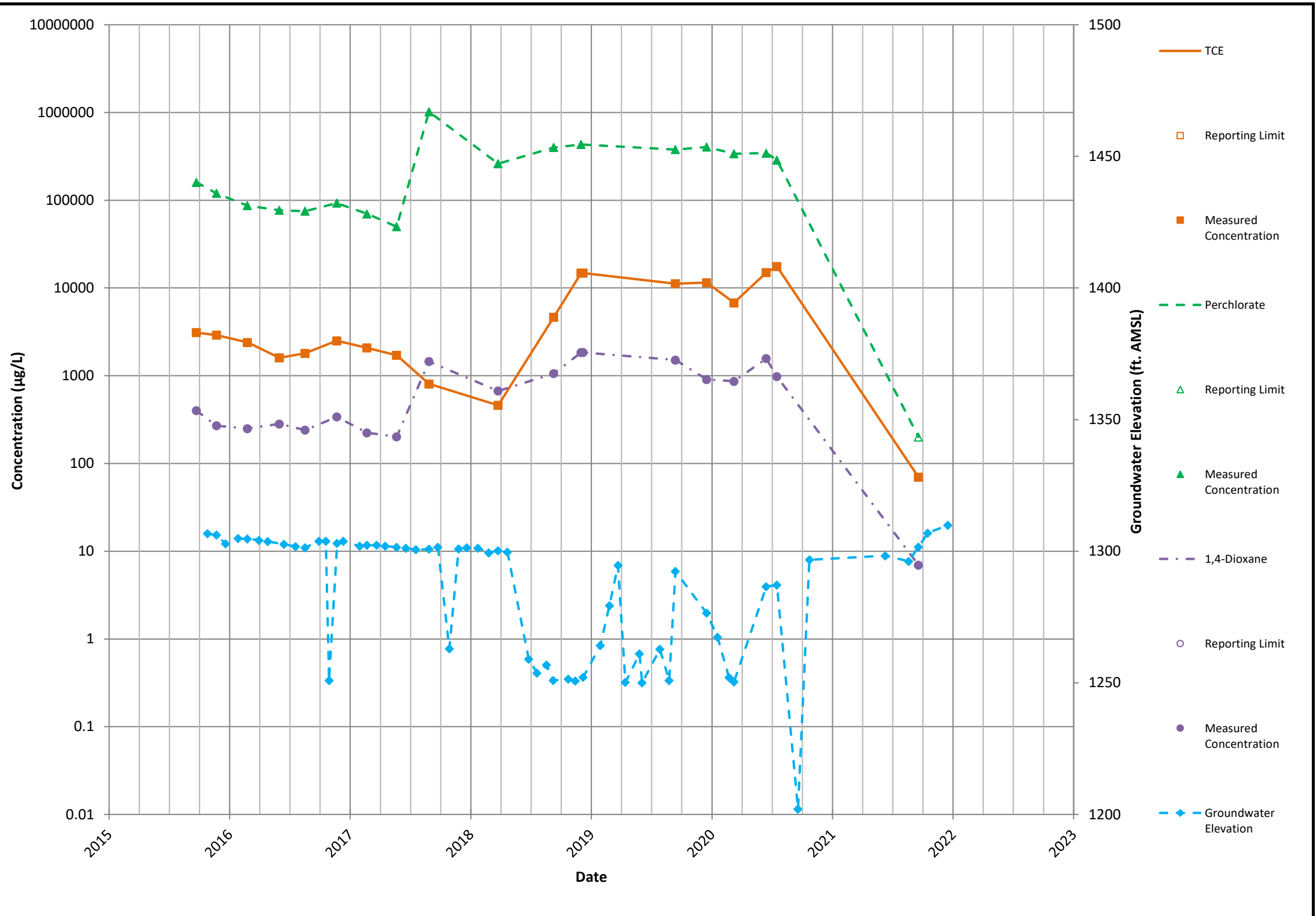
Phoenix

March 2022

Figure 5-10



E:\SP0101\GW01 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 Converted into an injection well for an In-Situ Bio-Remediation Pilot Test in October 2020.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

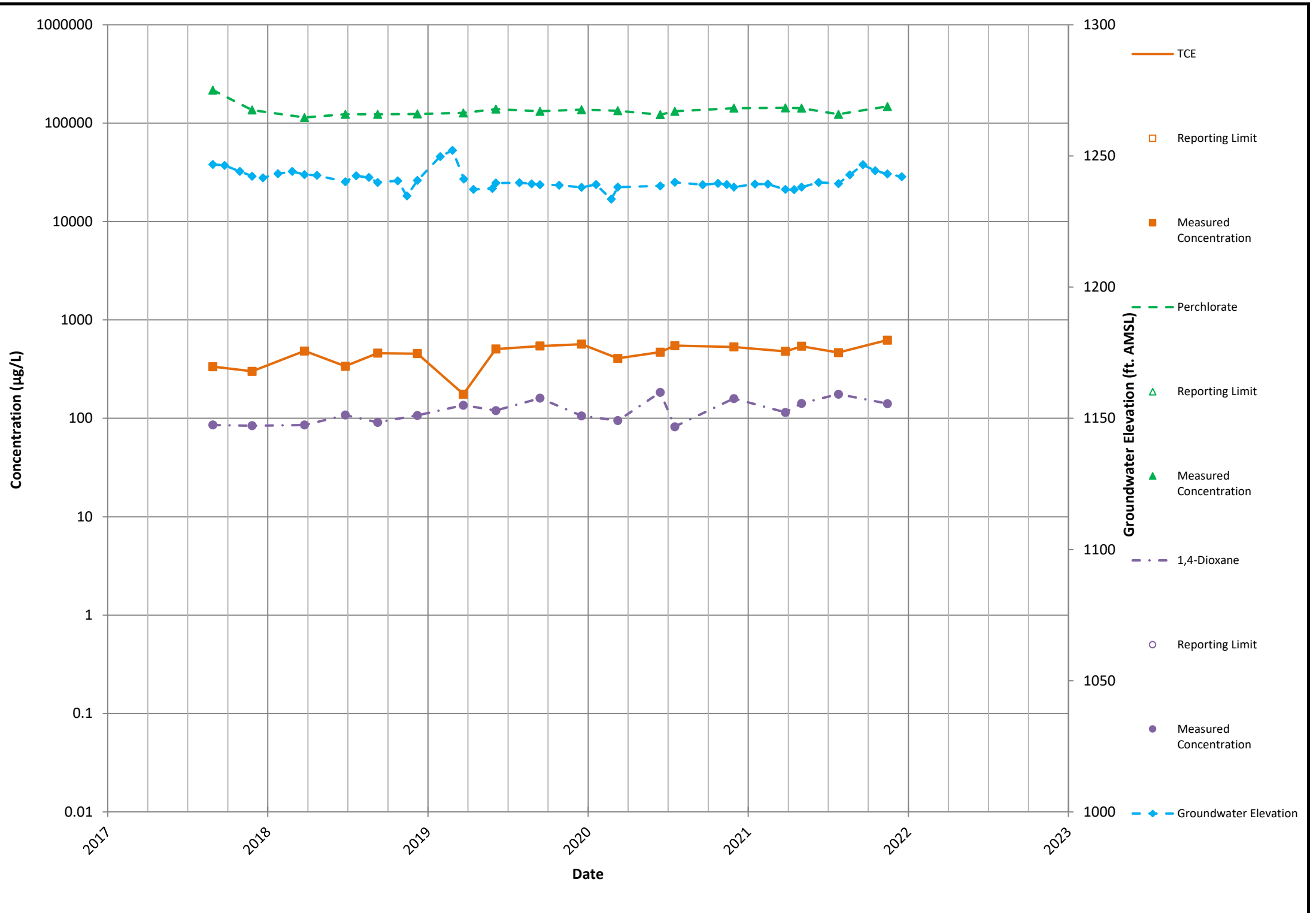
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-11**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-11**

E:\SP010\GW01 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

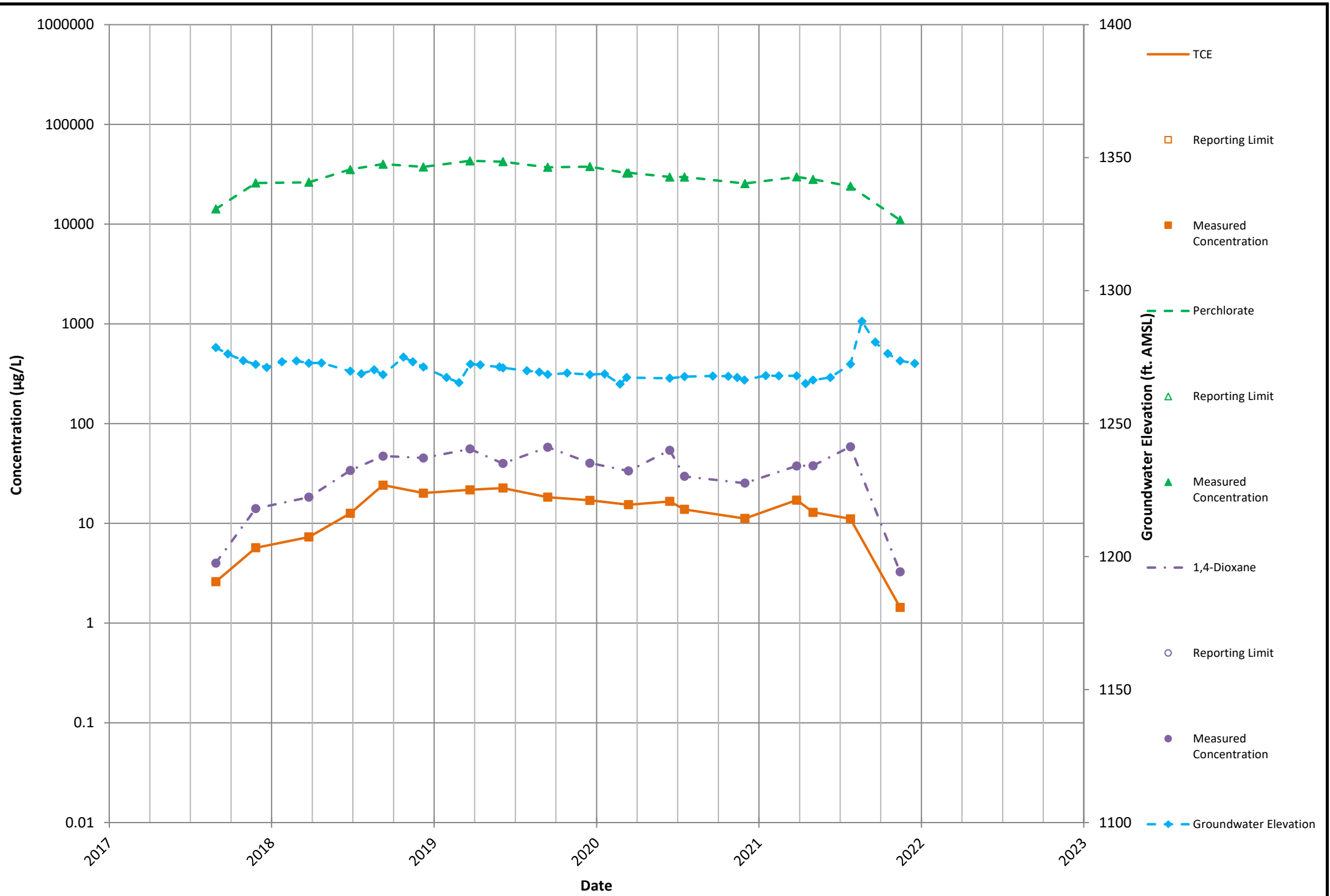
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-12**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-12**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plots\AQ2021\_TTU\_EK5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

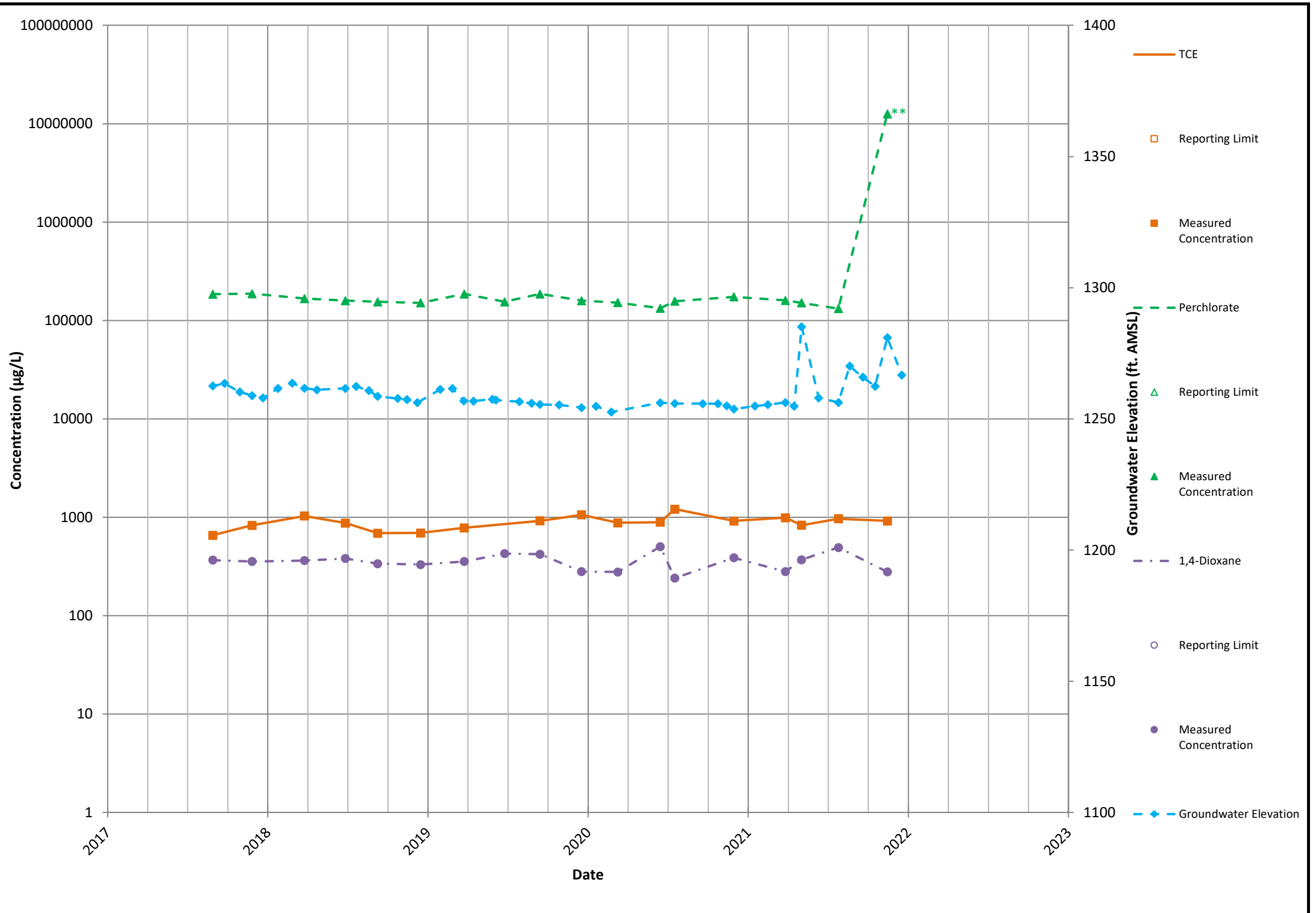
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-13**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-13**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TTU14



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level  
 \*\* - Nearby extraction wells TTU-1 and TTU-2 were not operational from 11/4/2021 - 12/6/2021.

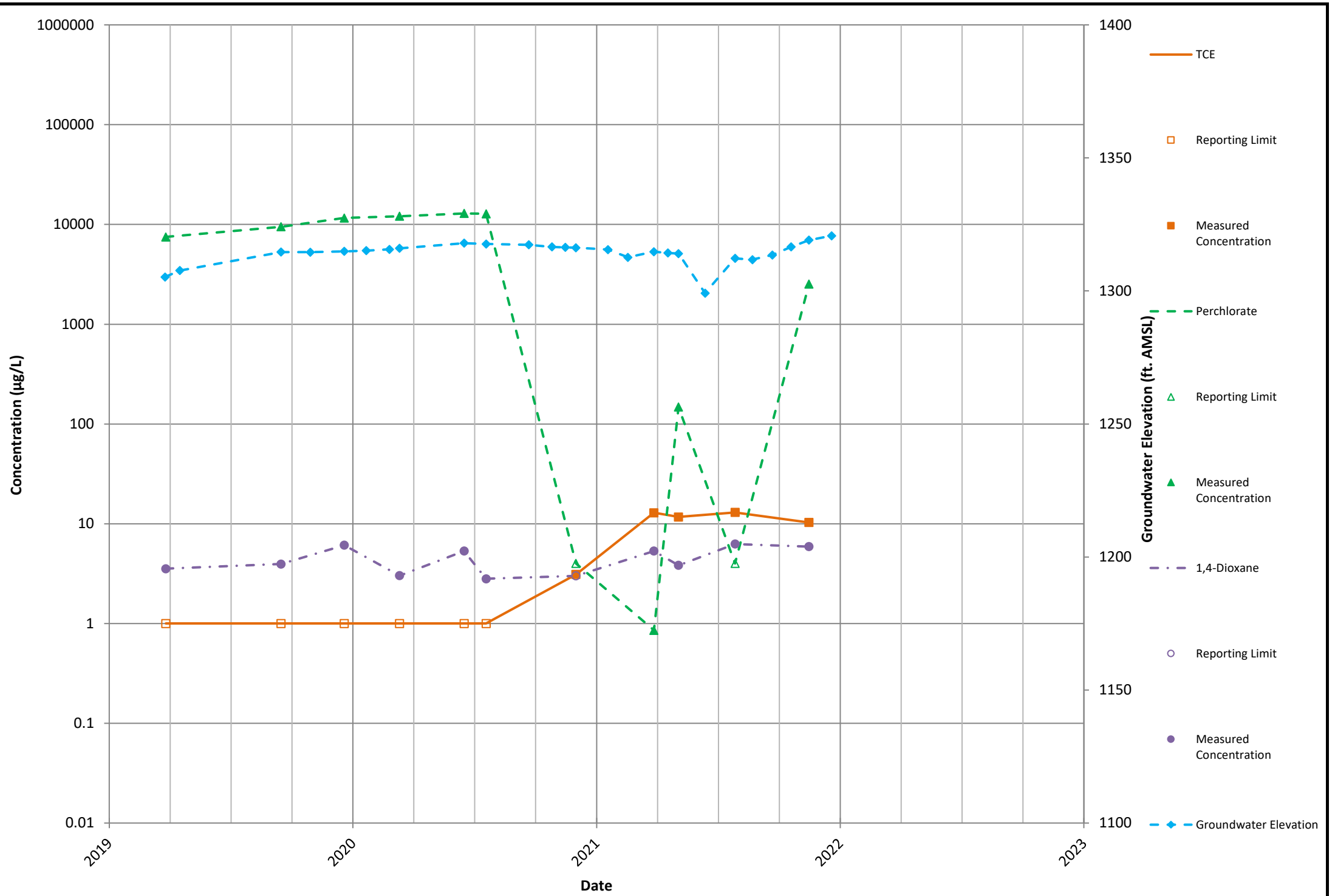
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-14**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-14**

E:\SP0101\GW21 - 2021 Groundwater Monitoring\TU Reports\4Q2021\Attachment 2 - Figures\4Q2021\_TTU\_GW\_Concentration\_Plots\TU15EKS



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-15**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

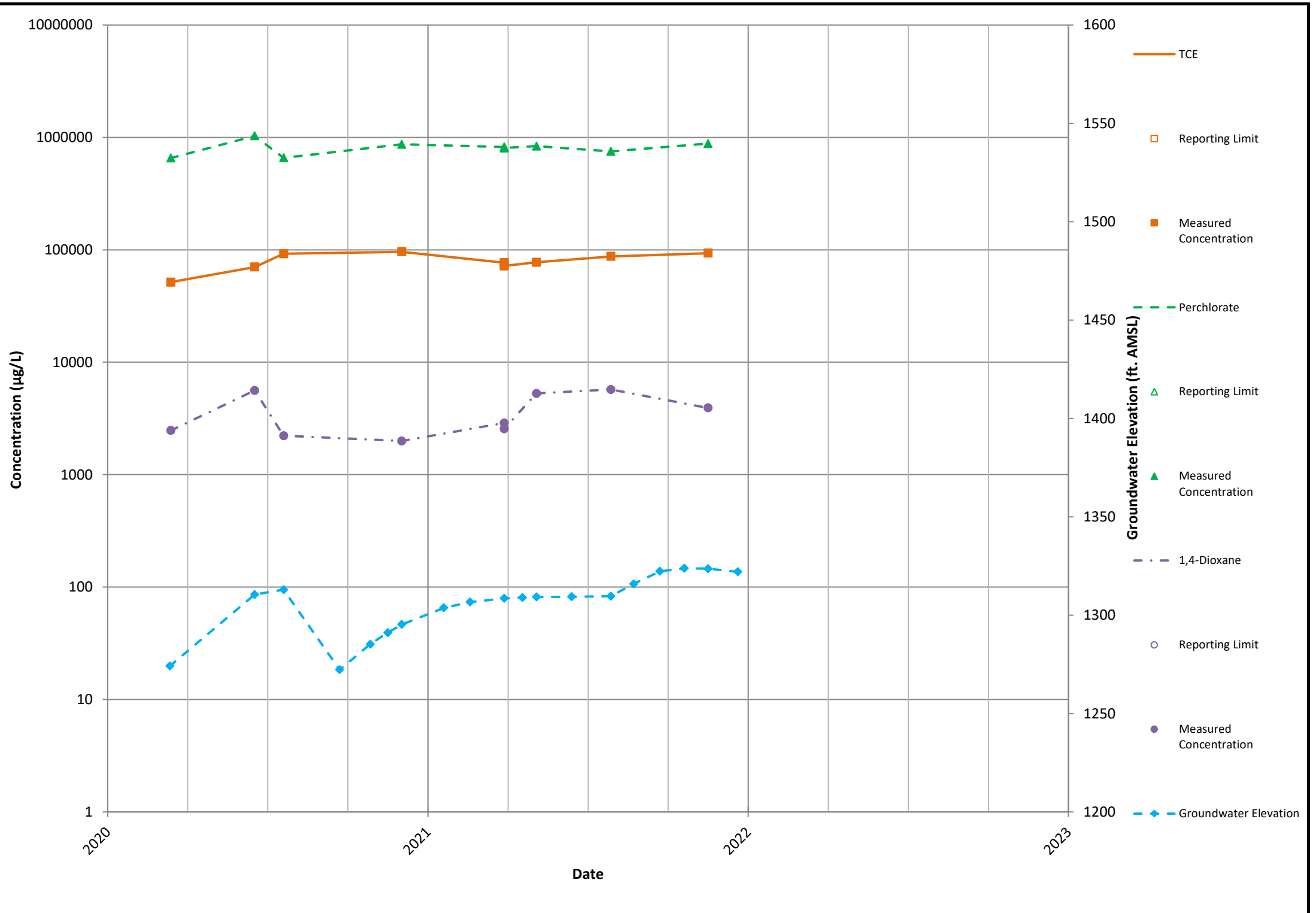
**Geosyntec**  
 consultants

Phoenix

March 2022

**Figure 5-15**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\G2021\Attachment 2 - Figures\G2021\_TTU\_GW\_Concentration\_Plots\TU1EX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

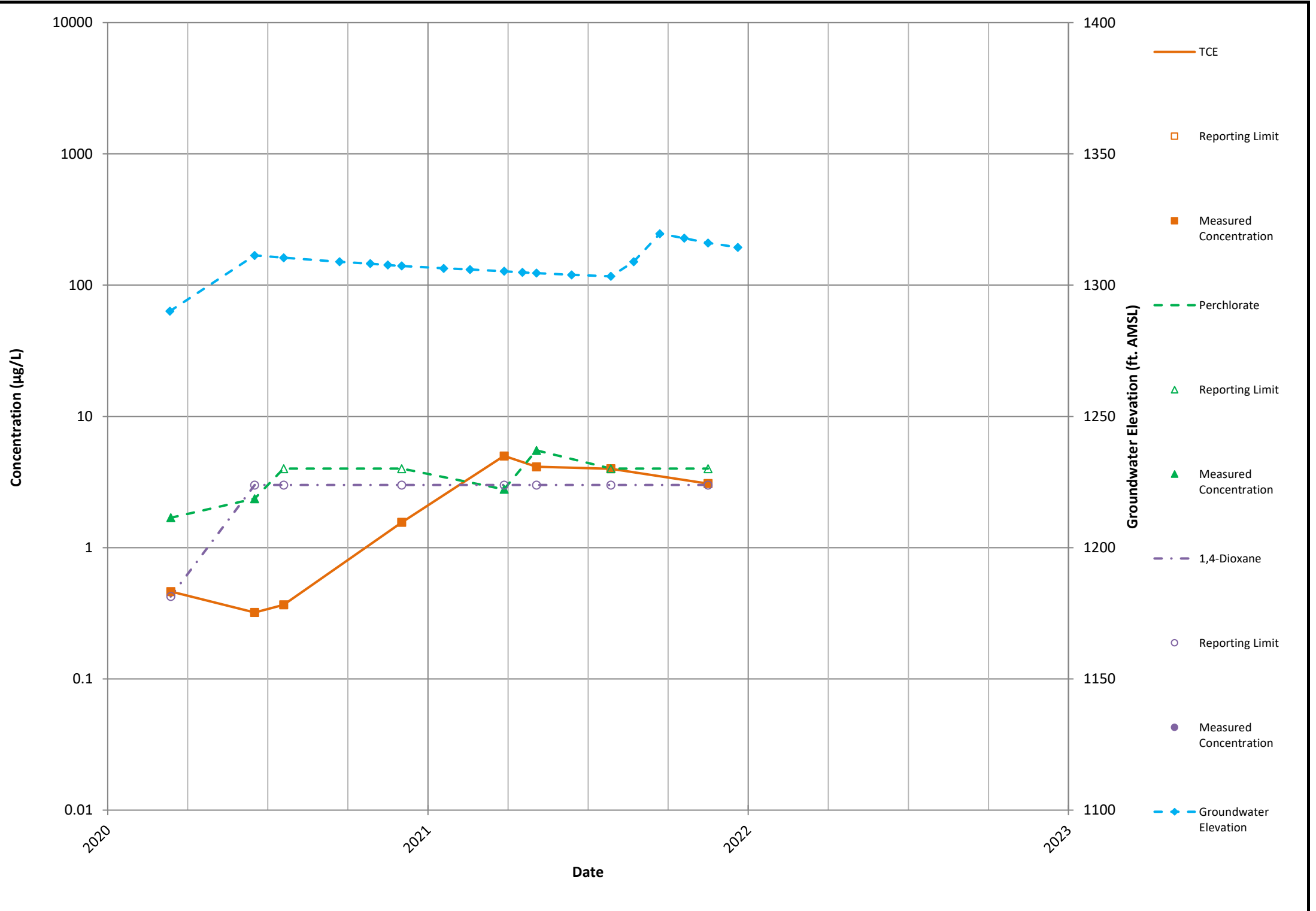
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-16**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-16**

E:\SP0101\GW21 - 2021 Groundwater Monitoring\TU Reports\4Q2021\Attachment 2 - Figures\4Q2021\_TTU\_GW\_Concentration\_Plots\TU1EX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

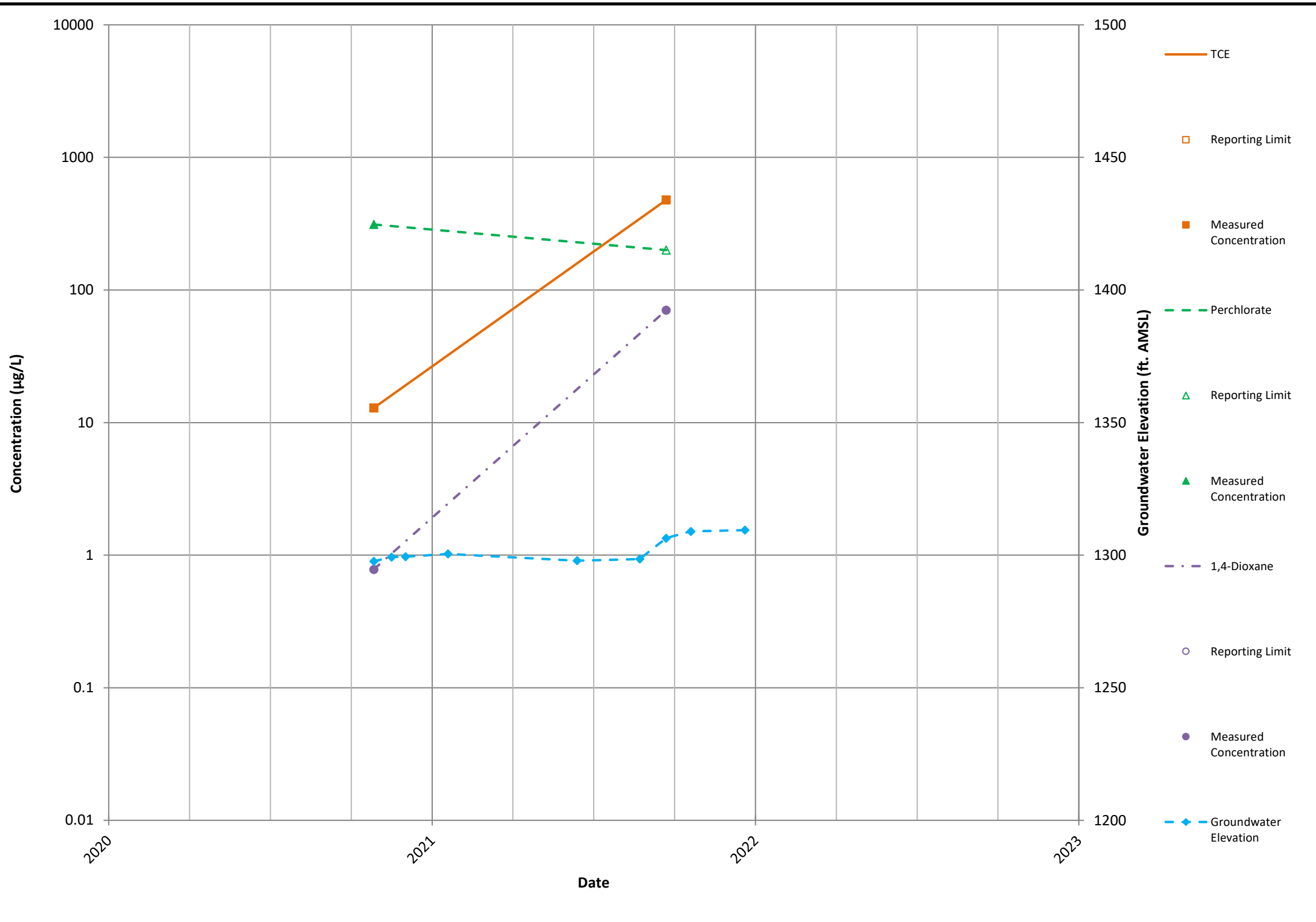
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-17**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-17**

P:\SP0101\GW21 - 2021 Groundwater Monitoring\TU Reports\4Q2021\Attachment 2 - Figures\4Q2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 Installed as a monitoring well for an In-Situ Bio-Remediation Pilot Test and converted into an injection well for the Pilot Test in February 2020.  
 µg/L - micrograms per liter      ft. AMSL - feet above mean sea level

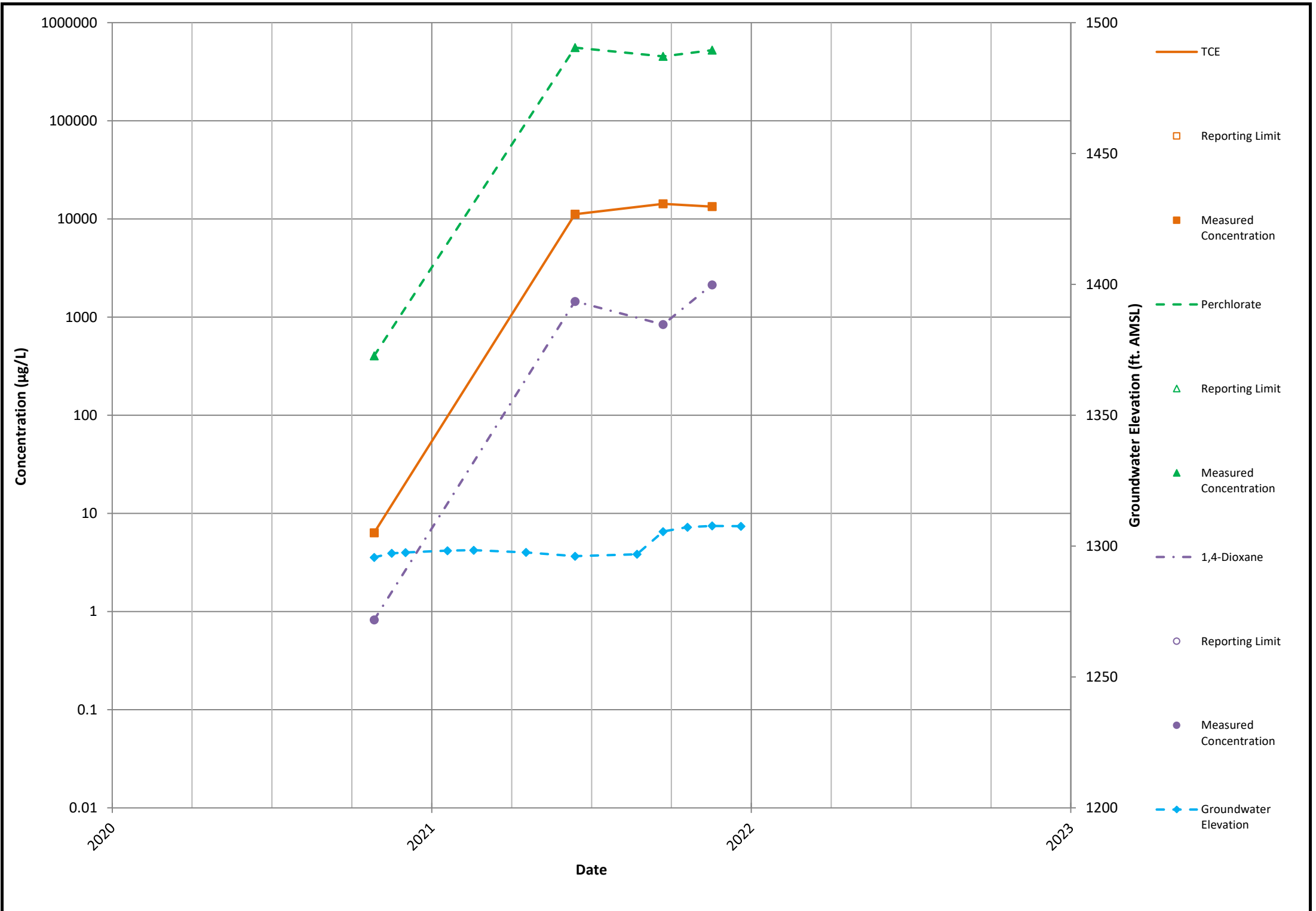
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-19**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec** consultants  
 Phoenix      March 2022

**Figure 5-18**



E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 Installed as a monitoring well for an In-Situ Bio-Remediation Pilot Test and a quarterly sampling plan has not been established.  
 µg/L - micrograms per liter      ft. AMSL - feet above mean sea level

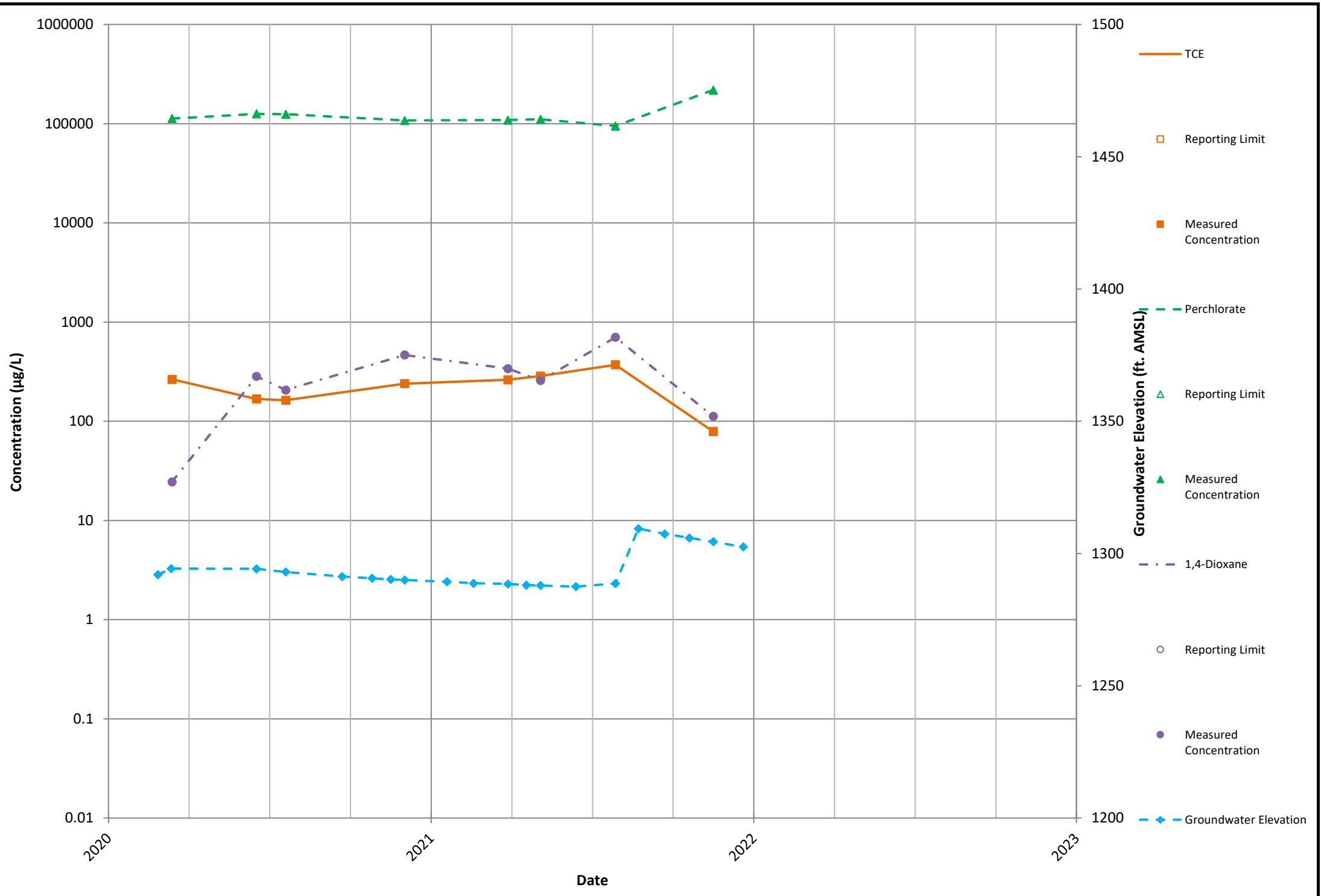
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-20**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-19**

E:\SP010\GW01 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plots\AQ2021\_TTU\_EX-1



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

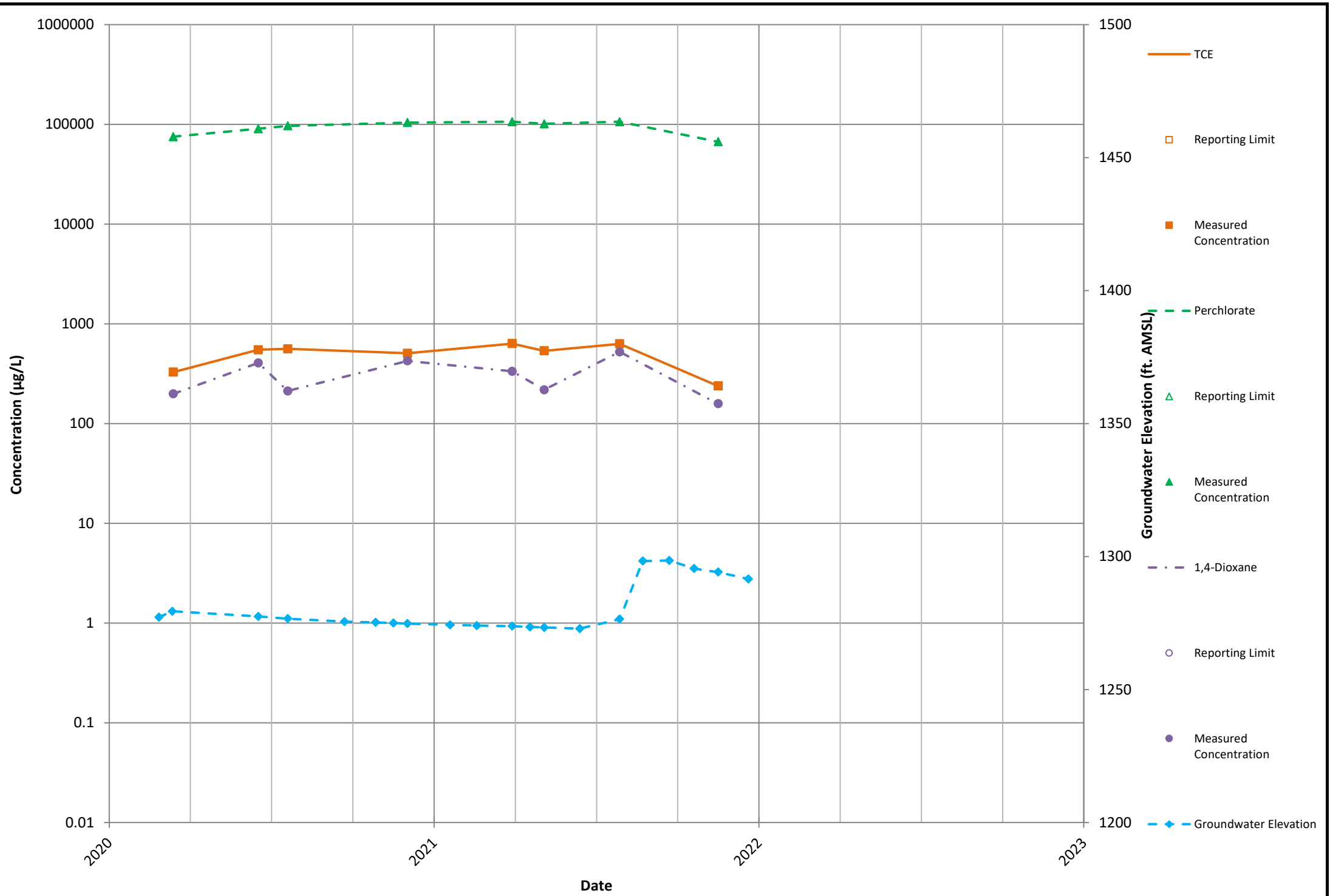
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-EX-1**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-20**

E:\SP0101\GW21 - 2021 Groundwater Monitoring\TU Reports\GW2021\Attachment 2 - Figures\GW2021\_TTU\_GW\_Concentration\_Plots\TU\_EX-2



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

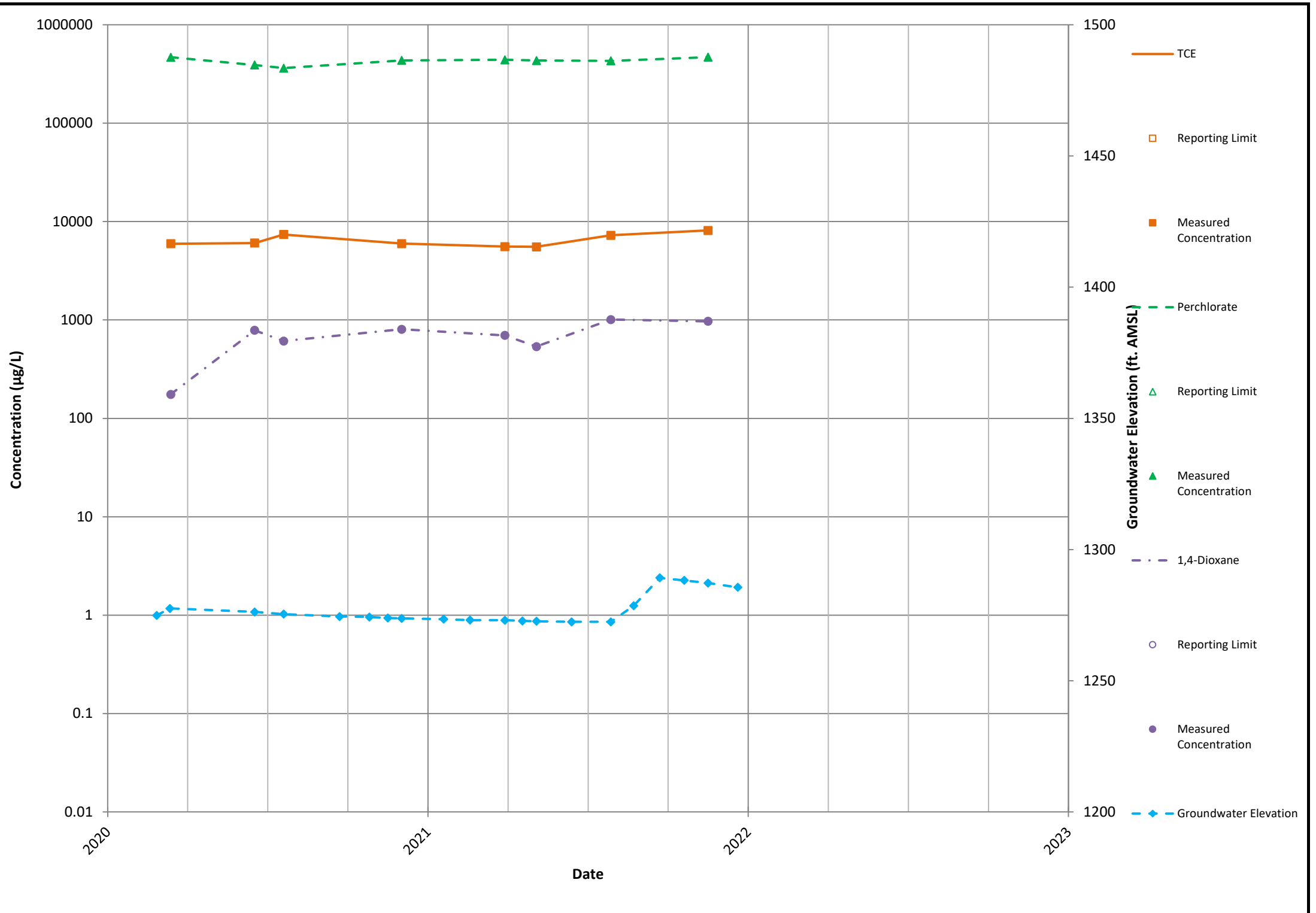
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-EX-2**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-21**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\GW2021\Attachment 2 - Figures\GW2021\_TTU\_GW\_Concentration\_Plots\TU\_EX3



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

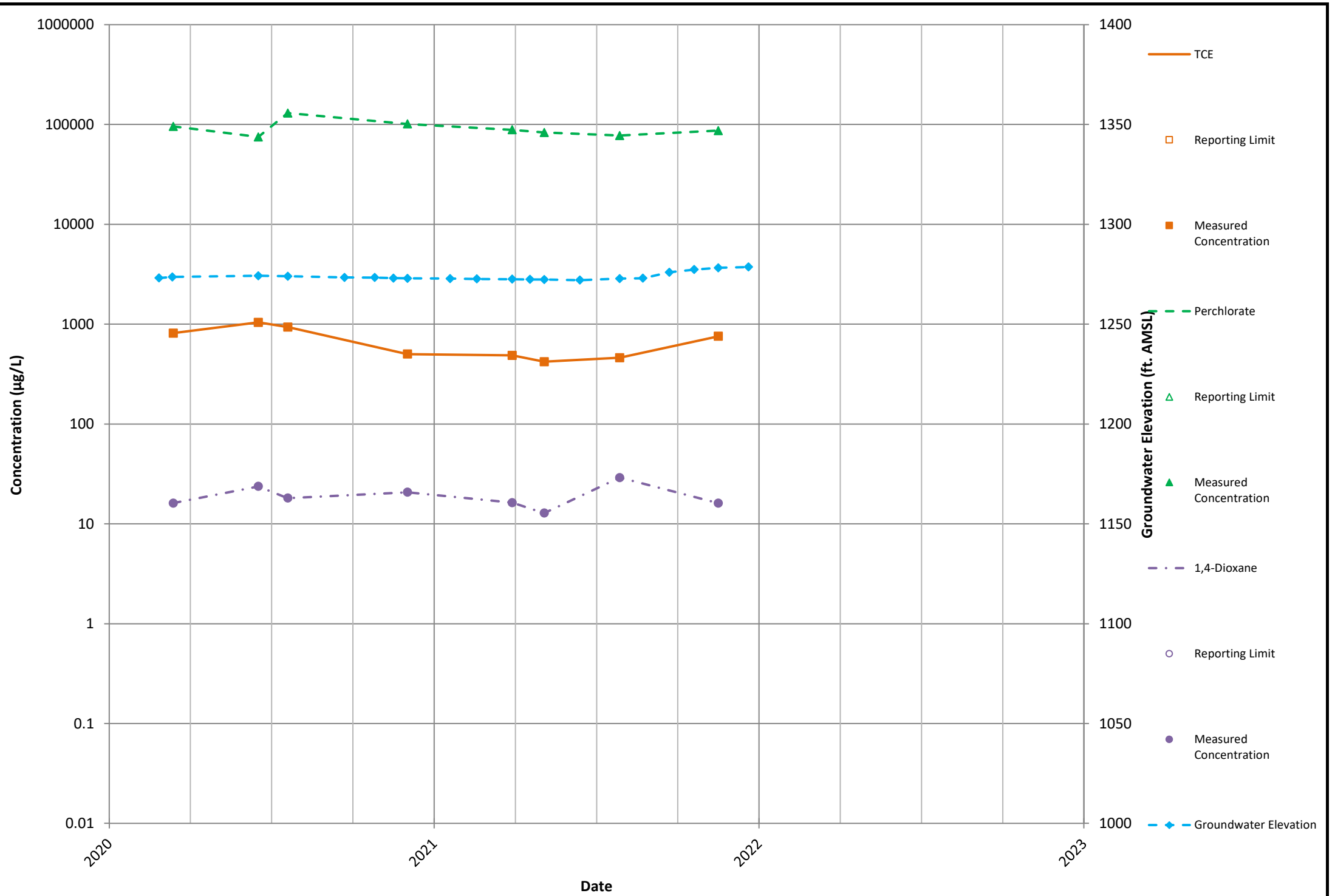
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-EX-3**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-22**

E:\SP010\GW21 - 2021 Groundwater Monitoring\TU Reports\GW2021\Attachment 2 - Figures\4Q2021\_TTU\_GW\_Concentration\_Plot.xlsx\TILEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-EX-4**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

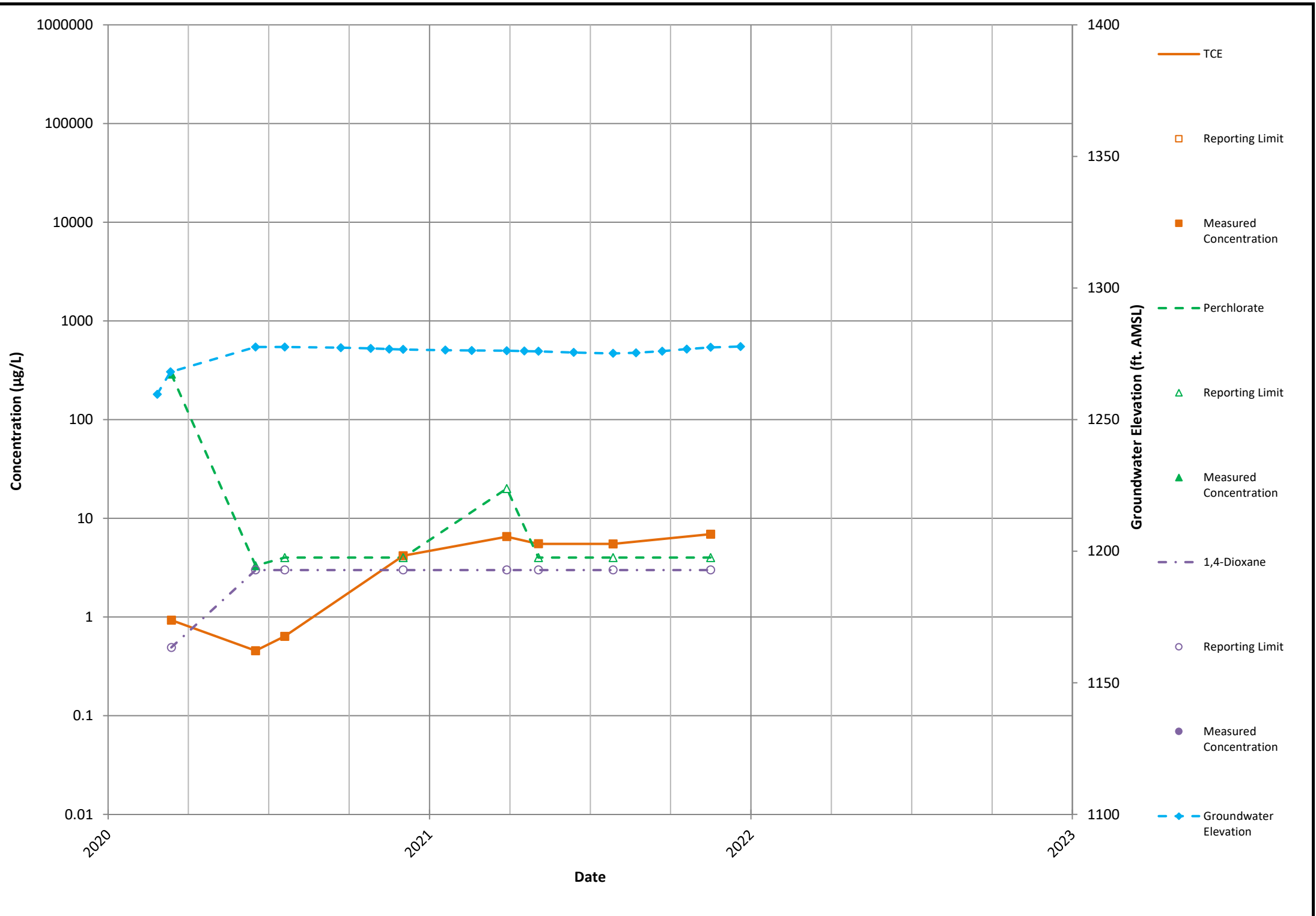
**Geosyntec**  
 consultants

Phoenix

March 2022

Figure  
 5-23

E:\SP0101\GW21 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TTU\_GW\_Concentration\_Plots\AQ2021\_TTU\_EX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

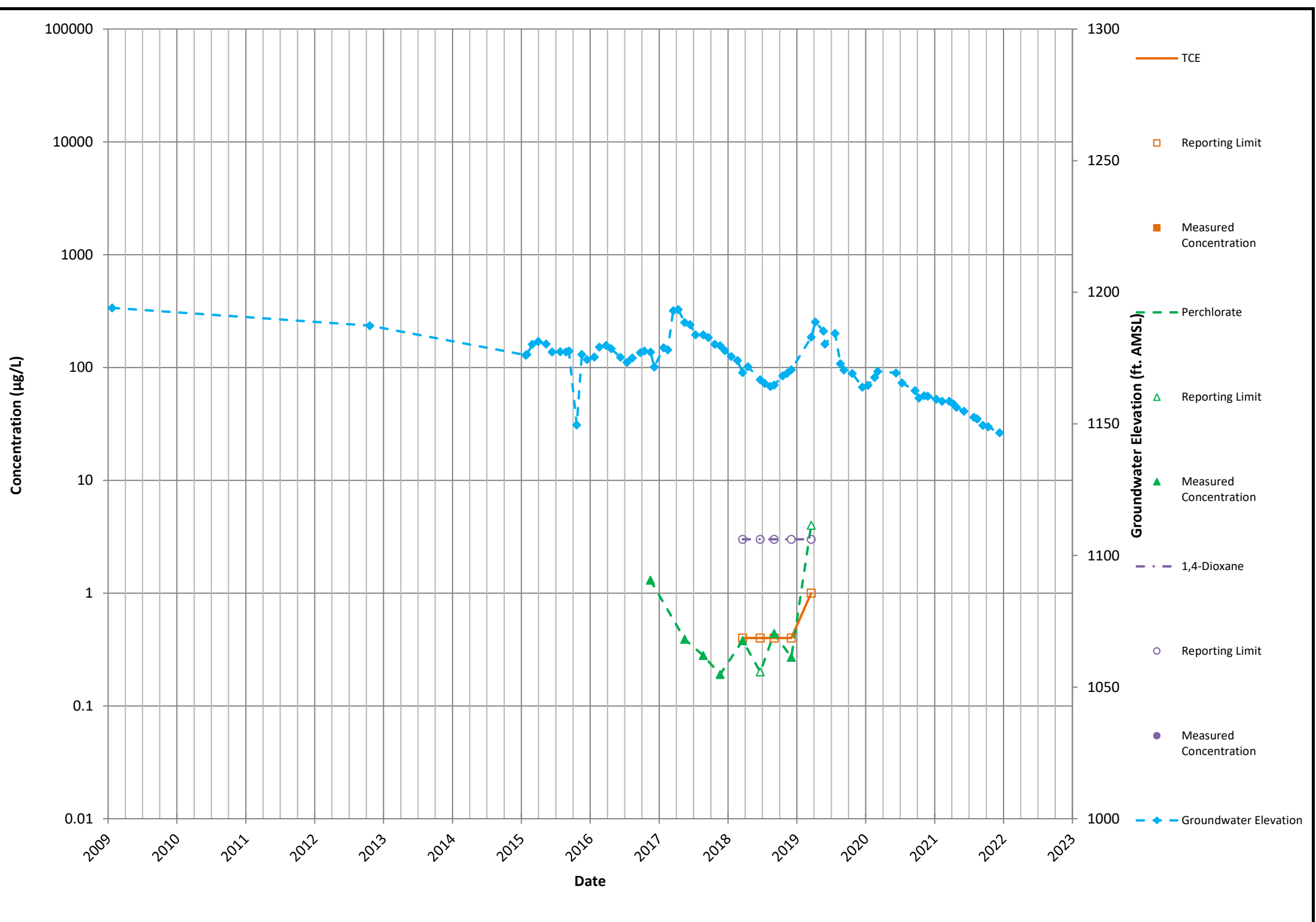
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**TTU-EX-5**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-24**

P:\SP010\GW01 - 2021 Groundwater Monitoring\TU Reports\4Q2021\Attachment 2 - Figures\4Q2021\_TU\_GW\_Concentration\_Plots\6x11TUEX-5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

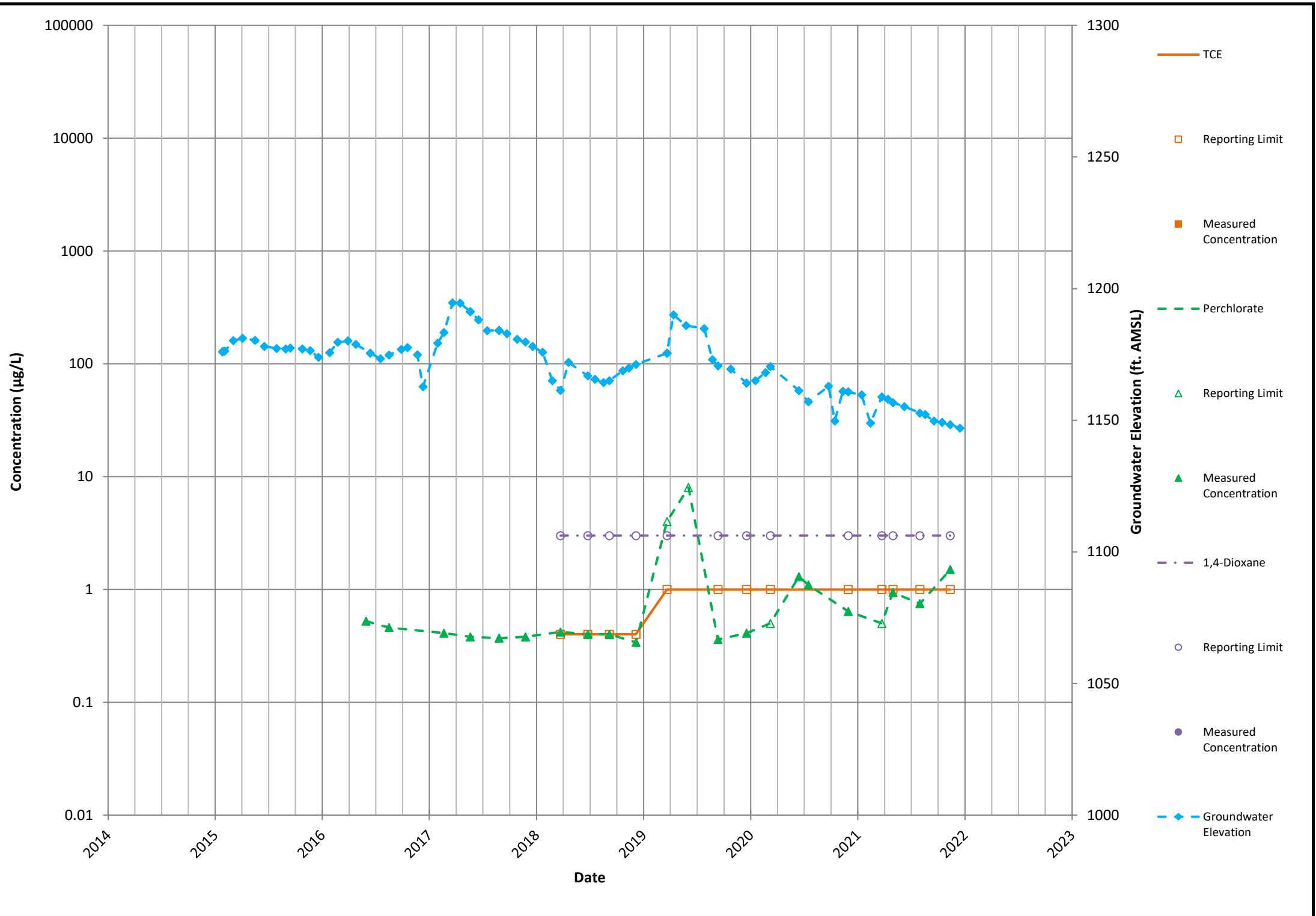
**Time-Series Plot of Groundwater Elevations and Concentrations**  
**PF-1**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants

Phoenix	March 2022
---------	------------

**Figure 5-25**

E:\SP010\GW01 - 2021 Groundwater Monitoring\TU Reports\AQ2021\Attachment 2 - Figures\AQ2021\_TU\_GW\_Concentration\_Plots\AQ2021\_TU\_LEX5



**Notes:**  
 Reporting Limit - Non-detect results are plotted as the laboratory reporting limit.  
 µg/L - micrograms per liter  
 ft. AMSL - feet above mean sea level

**Time-Series Plot of Groundwater Elevations and Concentrations**  
**PF-2**  
 Former Thermal Treatment Unit  
 Nammo Defense Systems Inc.  
 Mesa, Arizona

**Geosyntec**  
 consultants  
 Phoenix      March 2022

**Figure 5-26**



ATTACHMENT 3  
DATA VALIDATION MEMORANDUM

## Memorandum

Date: 25 January 2022  
To: Tory Luttermoser  
From: Morgan Greenwald  
CC: Susan Scudder, Todd Olsen  
**Subject: Tier 1A Data Validation - Level II Data Deliverables, Pace Analytical Sample Delivery Groups (SDGs) L1433723 Revised Report and L1445691 Revised Report and Eurofins TestAmerica (ETA) Work Order Number 550-174545-1, Revision 1**

**SITE:** Nammo Defense Systems Inc. (NDS) - Thermal Treatment Unit (TTU)

### INTRODUCTION

This report summarizes the findings of the Tier 1A data validation of twenty-three groundwater samples, five field duplicate samples, and two trip blanks, collected between 17 November 2021 and 22 December 2021, as part of the NDS TTU Fourth Quarter 2021 groundwater sampling event. The samples were submitted to Pace Analytical Laboratory (Pace) in Mount Juliet, Tennessee and analyzed for the following tests:

- Perchlorate by United States Environmental Protection Agency (USEPA) Method 314.0 (Modified)
- Volatile Organic Compounds (VOCs) by USEPA Method 8260B
- 1,4-Dioxane by USEPA Method 8260B using Selected Ion Monitoring (SIM) Mode

One groundwater sample and one field duplicate were submitted to ETA Phoenix, Arizona and subcontracted to ETA Sacramento, West Sacramento, California to be analyzed for the following test:

- Perchlorate by USEPA Method 6850

### EXECUTIVE SUMMARY

Overall, based on this Tier 1A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the Quality Assurance Project Plan for Groundwater Investigation, August 2013 (QAPP), the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review, November 2020 (EPA-540-R-20-005), the USEPA NFG for Inorganic Superfund Methods Data Review, November 2020 (EPA-542-R-20-006), and the Draft Region 9 Superfund Data Evaluation/Validation Guidance, December 2001 (R9QA/006.1), as well as the pertinent methods referenced by the laboratory reports, and professional and technical judgment.

The following samples were analyzed and validated at a Tier 1A level in the data sets:

Pace Laboratory ID	ETA Laboratory ID	Client ID
L1433723-01	--	TTU-9A-61-20211117
L1433723-02	--	TTU-9A-61-20211117-DUP
L1433723-03	--	TTU-13-51-20211118
L1433723-04	--	TTU-14-69-20211118
L1433723-05	--	TTU-12-82-20211118
L1433723-06	--	TTU-12-82-20211118-DUP
L1433723-07	--	TTU-20-73-20211118
L1433723-08	--	TTU-10-147-20211118
L1433723-09	550-174545-1	PF-2-400-20211118
--	550-174545-2	PF-2-400-20211118-Dup
L1433723-10	--	TTU-8-164-20211118
L1433723-11	--	TTU-17-80-20211117
L1433723-12	--	TTU-15-75-20211117
L1433723-13	--	TTU-16-80-20211117
L1433723-14	--	TTU-EX-1-69-20211117

Pace Laboratory ID	ETA Laboratory ID	Client ID
L1433723-15	--	TTU-EX-2-74-20211117
L1433723-16	--	TTU-EX-3-76-20211117
L1433723-17	--	TTU-EX-3-76-20211117-DUP
L1433723-18	--	TTU-EX-4-77-20211117
L1433723-19	--	TTU-EX-5-80-20211117
L1433723-20	--	TTU-5-110-20211117
L1433723-21	--	TTU-4-57-20211118
L1433723-22	--	TTU-3-108-20211118
L1433723-23	--	TTU-7-345-20211118
L1433723-24	--	TTU-6-143-20211118
L1433723-25	--	TRIP BLANK
L1445691-01	--	TTU-1-50-20211222
L1445691-02	--	TTU-2-114-20211222
L1445691-03	--	TTU-2-114-20211222-DUP
L1445691-04	--	TRIP BLANK

The samples were received at Pace at 2.7 degrees Celsius (°C) and 3.7°C, at ETA Phoenix at 5.9°C, and at ETA Sacramento at 0.9°C, meeting the QAPP criteria of approximately 4°C, based on professional and technical judgment. No sample preservation issues were noted by the laboratory.

The L1433723 and L1445691 case narratives indicated that insufficient volume was received for several project samples to perform matrix spike (MS)/MS duplicate (MSD) analysis per method QC requirements for USEPA Methods 8260B and/or 8260B-SIM. Further information from the laboratory clarified that this statement was included because the laboratory’s Arizona Department of Health Services (ADHS) accreditation requires that at least one sample is collected in triplicate volume in case a MS/MSD pair is needed; the reported data were not impacted.

Sample collection times were not listed on the chains of custody (COCs) for the trip blank samples. The laboratory assigned collection times of 00:00.

Sample collection times were not recorded for the samples listed on the 550-174545-1 COC. According to the 550-174545-1 Login Sample Receipt Checklist completed by ETA Phoenix, the samples were logged in using the information on the samples' container labels.

Incorrect error corrections were observed on the COCs, instead of the proper procedure of a single strike through, correction, and initials and date of person making the correction.

The L1433723 laboratory report was revised on 20 December 2021 to correct the MSD recovery for the MS/MSD pair reported in Method 8260B batch WG1780831. The revised report is identified as L1433723, Revised Report.

The L1433723 laboratory report was revised a second time on 10 January 2022 to correct the methylcyclohexane result for sample TTU-EX-3-76-20211117-DUP. The revised report is identified as L1433723, Revised Report.

The 550-174545-1 laboratory report was revised on 21 December 2021 to include the MS/MSD sample results for Method 6850 batch 546899. The revised report is identified as 550-174545-1, Revision 1.

The L1445691 laboratory report was revised on 6 January 2022 and again on 7 January 2022 at the request of the Geosyntec project management (PM) team to change the sample IDs for the following samples: TTU-1-50-20211222, TTU-2-114-20211222, and TTU-2-114-20211222-DUP. The revised report is identified as L1445691, Revised Report.

## 1.0 PERCHLORATE

The samples were analyzed for perchlorate by USEPA Methods 314.0 (modified) and 6850.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate

- ✓ Laboratory Control Sample
- ⊗ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

### 1.1 **Overall Assessment**

The perchlorate data reported in these laboratory reports are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for the sample sets is 100%.

### 1.2 **Holding Times**

The holding time for the perchlorate analysis of an aqueous sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

### 1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (one in Method 6850 batch 546899, one each in modified Method 314.0 batches WG1784397, WG1789817, and WG1797425, and two in modified Method 314.0 batch WG1784394). Perchlorate was not detected in the method blanks above the method detection limit (MDL) for modified Method 314.0 or above the reporting limit (RL) for Method 6850.

Email communication from the laboratory on 25 January 2022 indicated that batch number WG1786624 reported in SDG L1433723 was a “ghost batch” number created by the laboratory information management system (LIMS) during data capture, and that the samples and batch QC reported with batch number WG1786624 were analyzed in batch WG1784394. Therefore, these two batch numbers were assessed as one batch, identified as WG1784394, during validation.

### 1.4 **Matrix Spike/Matrix Spike Duplicate**

Two sample set specific MS/MSD pairs were reported for modified Method 314.0, using samples TTU-EX-5-80-20211117 and TTU-3-108-20211118. Six sample set specific MSs were reported for modified Method 314.0, using the following samples:

- TTU-4-57-20211118
- TTU-7-345-20211118
- TTU-8-164-20211118
- TTU-9A-61-20211117
- TTU-9A-61-20211117-DUP
- TTU-10-147-20211118

The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The perchlorate recoveries in the MS/MSD pair using sample TTU-3-108-20211118 were low and outside the laboratory specified acceptance criteria. However, due to the difference between the sample concentration and the spike concentration, and based on professional and technical judgment, no qualifications were applied to the data.

The perchlorate RPD in the MS/MSD pair using sample TTU-EX-5-80-20211117 was high and outside the laboratory specified acceptance criteria. Since perchlorate was not detected in sample TTU-EX-5-80-20211117, no qualifications were applied to the data.

Batch sample MSs and MS/MSD pairs were also reported. Since these were batch QC, the results did not impact the data and did not result in qualification of the data.

### **1.5 Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported for modified Method 314.0 and one LCS was reported for Method 6850. The recoveries were within the laboratory specified acceptance criteria.

### **1.6 Laboratory Duplicate**

Four sample set specific laboratory duplicates were reported for modified Method 314.0, using samples TTU-17-80-20211117, TTU-5-110-20211117, TTU-7-345-20211118, and TTU-1-50-20211222. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

The perchlorate RPD in the laboratory duplicate using sample TTU-7-345-20211118 was high and outside the laboratory specified acceptance criteria. Therefore, the perchlorate concentration in sample TTU-7-345-20211118 was J qualified as estimated.

Sample ID	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason code**
TTU-7-345-20211118	Perchlorate	10.5	R8	10.5	J	12

µg/L - Microgram per liter

R8 - Laboratory flag indicating the sample RPD exceeded the method acceptance limit

\* - Validation qualifiers are defined in Attachment 1 at the end of this report

\*\* - Reason codes are defined in Attachment 2 at the end of this report

Batch sample laboratory duplicates were also reported. Since these were batch QC, the results did not impact the data and did not result in qualification of the data.

### 1.7 Field Duplicate

Five field duplicates were collected with the sample sets and analyzed for perchlorate: TTU-9A-61-20211117-DUP, TTU-12-82-20211118-DUP, TTU-EX-3-76-20211117-DUP, TTU-2-114-20211222-DUP, and PF-2-400-20211118-Dup. Acceptable precision (RPD  $\leq$ 30%) was demonstrated between the field duplicates and original samples, TTU-9A-61-20211117, TTU-12-82-20211118, TTU-EX-3-76-20211117, TTU-2-114-20211222, and PF-2-400-20211118, respectively.

The QAPP specifies that field duplicates should be collected and analyzed at a frequency of 10%. Five field duplicates were collected with the twenty-three project samples submitted for perchlorate analysis. Therefore, the QAPP specified field duplicate frequency was met.

### 1.8 Equipment Blank

Table 2 in the QAPP specifies that equipment blanks should be collected at a rate of one per day when non-dedicated equipment is used, two per quarterly sampling event, and one per weekly or monthly sampling event. No non-dedicated equipment was used for the quarterly sampling event; therefore, equipment blanks were not collected.

### 1.9 Sensitivity

The samples analyzed by modified Method 314.0 were reported to the MDL and the samples analyzed by Method 6850 were reported to the RL. No elevated non-detect results were reported. The undiluted modified Method 314.0 MDL and RL and the Method 6850 RL met the Arizona Department of Environmental Quality (ADEQ) Health-Based Guidance Level (HBGL) for perchlorate of 14 µg/L indicated in Table 1 of the QAPP.

### 1.10 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20%. No discrepancies were identified between the level II reports and the EDDs.

## 2.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs per USEPA Method 8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ⊗ Surrogates
- ⊗ Field Duplicate
- ✓ Trip Blank
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

### 2.1 Overall Assessment

The VOC data reported in the laboratory reports are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample sets is 100%.

The internal standard (IS) responses for the samples were reported in the laboratory reports. The IS responses were within the method specified acceptance criteria.



The benzene concentration in sample TTU-16-80-20211117 was E1 flagged by the laboratory to indicate that the concentration is estimated because the analyte concentration exceeded calibration range; reanalysis was not possible due to insufficient sample. Therefore, based on professional and technical judgment, the benzene concentration in sample TTU-16-80-20211117 was J qualified as estimated.

Sample ID	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason code
TTU-16-80-20211117	Benzene	405	E1	405	J	10

µg/L - Microgram per liter

E1 - Laboratory flag indicating the concentration is estimated; analyte concentration exceeded calibration range. Reanalysis not possible due to insufficient sample volume

## 2.2 Holding Times

The holding time for the VOC analysis of preserved water samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

## 2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (batches WG1780361, WG1780831, WG1782067, WG1782742, WG1796559, and WG1796911). VOCs were not detected in the method blanks above the MDLs, with the following exceptions.

The following analytes were detected in the method blank in batch WG1780361 at estimated concentrations greater than the MDLs and less than the RLs:

- n-Butylbenzene
- sec-Butylbenzene
- Hexachloro-1,3-butadiene (Hexachlorobutadiene)
- p-Isopropyltoluene
- 1,2,3-Trichlorobenzene

Therefore, the estimated p-isopropyltoluene concentration in sample TTU-16-80-20211117 was U qualified as not detected at the RL. Since the other analytes listed above were not detected in the associated samples, no qualifications were applied to the data.

Sample ID	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason code
TTU-16-80-20211117	p-Isopropyltoluene	0.743	B1;E4	1.0	U	3

µg/L - Microgram per liter

B1 - Laboratory flag indicating the target analyte was detected in the method blank at or above the method reporting limit

E4 - Laboratory flag indicating the concentration is estimated; the analyte was detected below the RL but above MDL

## 2.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported using samples TTU-EX-5-80-20211117 and TTU-3-108-20211118. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries for acrolein and dichlorodifluoromethane were high and outside the laboratory specified acceptance criteria in the MS/MSD pair using sample TTU-EX-5-80-20211117. Since these analytes were not detected in sample TTU-EX-5-80-20211117, no qualifications were applied to the data.

There were no recoveries (i.e., 0%) for trichloroethene in the MS/MSD pair using sample TTU-EX-5-80-20211117. Additional information provided by the laboratory indicated that the initial analysis of sample TTU-EX-5-80-20211117 and the analyses of the associated MS and MSD samples were affected by carryover contamination. Therefore, based on professional and technical judgment and due to the differences between the sample concentrations and the spike concentrations and the presence of carryover contamination, no qualifications were applied to the data. The results for sample TTU-EX-5-80-20211117 were reported from a reanalysis that was not impacted by carryover.

The MS/MSD recoveries for dicyclopentadiene were low and the RPDs for multiple target analytes were high in the MS/MSD pair using sample TTU-3-108-20211118, outside the laboratory specified acceptance criteria. Therefore, the non-detect dicyclopentadiene result in sample TTU-3-108-20211118 was UJ qualified as estimated less than the MDL. Since no target analytes were detected in sample TTU-3-108-20211118, no qualifications were applied to the data based on the RPDs outside the laboratory specified acceptance criteria.

Sample ID	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason code
TTU-3-108-20211118	Dicyclopentadiene	0.253	U;M2;R5	0.253	UJ	4

µg/L - Microgram per liter

M2 - Laboratory flag indicating that the matrix spike recovery was low, but the method control sample recovery was acceptable

R5 - Laboratory flag indicating that the MS/MSD RPD exceeded the laboratory acceptance limit, but the recovery met acceptance criteria

U - The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit

A batch sample MS/MSD pair was also reported. Since these were batch QC, the results did not impact the data and did not result in qualification of the data.

MS/MSD pairs were not reported in batches WG1782067, WG1782742, and WG1796911. LCS/LCSD pairs were used to assess precision and accuracy.

## 2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCS/LCS duplicate (LCSD) pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCSD recoveries for methylene chloride (dichloromethane) and trichloroethene and the RPDs for acrolein, 2,2-dichloropropane, and trichloroethene were high and outside the laboratory specified acceptance criteria in the LCS/LCSD pair in batch WG1780361. Therefore, the trichloroethene concentrations in samples TTU-9A-61-20211117, TTU-9A-61-20211117-DUP, and TTU-13-51-20211118 were J qualified as estimated. Since dichloromethane, acrolein, and 2,2-dichloropropane were not detected in the associated samples, no qualifications were applied to the data.

The LCSD recovery for acrolein and the LCSD recoveries and RPDs for carbon disulfide, 1,1-dichloroethene, and 1,1,2-trichlorotrifluoroethane were high and outside the laboratory specified acceptance criteria in the LCS/LCSD pair in batch WG1796559. Therefore, the 1,1-dichloroethene concentrations in samples TTU-1-50-20211222, TTU-2-114-20211222, and TTU-2-114-20211222-DUP were J qualified as estimated. Since acrolein, carbon disulfide, and 1,1,2-trichlorotrifluoroethane were not detected in the associated samples, no qualifications were applied to the data.

Sample ID	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason code
TTU-13-51-20211118	Trichloroethene	1.44	L1;R5	1.44	J	5
TTU-9A-61-20211117-DUP	Trichloroethene	0.985	E4;L1;R5	0.985	J	5
TTU-9A-61-20211117	Trichloroethene	0.911	E4;L1;R5	0.911	J	5
TTU-1-50-20211222	1,1-Dichloroethene	2.80	L1;R7	2.80	J	5
TTU-2-114-20211222	1,1-Dichloroethene	166	L1;R7	166	J	5
TTU-2-114-20211222-DUP	1,1-Dichloroethene	162	L1;R7	162	J	5

µg/L - Microgram per liter

E4 - Laboratory flag indicating that the concentration is estimated; analyte was detected below RL, but above MDL

L1 - Laboratory flag indicating that the associated blank spike recovery was above laboratory acceptance limits

R5 - Laboratory flag indicating that the MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

R7 - Laboratory flag indicating that the LCS/LCSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria

U - The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit

## 2.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses, with the following exceptions.

The recoveries of surrogates toluene-d8 and 1,2-dichloroethane-d4 were high and outside the laboratory specified acceptance criteria in the undiluted analysis of sample TTU-2-114-20211222-DUP. Therefore, the estimated concentrations of chloroform and trans-1,2-dichloroethene in sample TTU-2-114-20211222-DUP were J qualified as estimated and the concentrations of benzene, 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, and 1,1,2-trichloroethane were J+ qualified as estimated with high biases.

Sample ID	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason code
TTU-2-114-20211222-DUP	Chloroform	2.30	E4	2.30	J	6
TTU-2-114-20211222-DUP	trans-1,2-Dichloroethene	0.409	E4	0.409	J	6
TTU-2-114-20211222-DUP	1,1,2-Trichloroethane	2.12	NA	2.12	J+	6
TTU-2-114-20211222-DUP	1,1-Dichloroethane	1.34	NA	1.34	J+	6
TTU-2-114-20211222-DUP	1,1-Dichloroethene	162	L1;R7	162	J+	6
TTU-2-114-20211222-DUP	Benzene	1.51	NA	1.51	J+	6
TTU-2-114-20211222-DUP	cis-1,2-Dichloroethene	1.78	NA	1.78	J+	6
TTU-2-114-20211222-DUP	Tetrachloroethene	1.62	NA	1.62	J+	6

µg/L - Microgram per liter

E4 - Laboratory flag indicating that the concentration is estimated; analyte was detected below RL, but above MDL

L1 - Laboratory flag indicating that the associated blank spike recovery was above laboratory acceptance limits

NA - Not applicable

R7 - Laboratory flag indicating that the LCS/LCSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria

## 2.7 Field Duplicate

Four field duplicates were collected with the sample sets and analyzed for VOCs: TTU-9A-61-20211117-DUP, TTU-12-82-20211118-DUP, TTU-EX-3-76-20211117-DUP, and TTU-2-114-20211222-DUP. Acceptable precision (RPD  $\leq$ 30%) was demonstrated between the field duplicates and original samples, TTU-9A-61-20211117, TTU-12-82-20211118, TTU-EX-3-76-20211117, and TTU-2-114-20211222, respectively, with the following exceptions.

The following analytes were detected at estimated concentrations greater than the MDLs and less than the RLs in sample TTU-2-114-20211222, but not detected in field duplicate TTU-2-114-

20211222-DUP, resulting in non-calculable RPDs between the results: 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-ethyltoluene, ethylbenzene, n-propylbenzene, toluene, and total xylenes. Therefore, the estimated concentrations of these analytes in sample TTU-2-114-20211222 were J qualified as estimated and the non-detect results in field duplicate TTU-2-114-20211222-DUP were UJ qualified as estimated less than the MDLs.

Sample ID	Analyte	Laboratory Result (µg/L)	Laboratory Flag	RPD	Validation Result (µg/L)	Validation Qualifier	Reason code
TTU-2-114-20211222	1,2,3-Trimethylbenzene	0.291	E4	NC	0.291	J	7
TTU-2-114-20211222-DUP	1,2,3-Trimethylbenzene	0.104	U		0.104	UJ	7
TTU-2-114-20211222	1,2,4-Trimethylbenzene	0.551	E4	NC	0.551	J	7
TTU-2-114-20211222-DUP	1,2,4-Trimethylbenzene	0.322	U		0.322	UJ	7
TTU-2-114-20211222	1,3,5-Trimethylbenzene	0.212	E4	NC	0.212	J	7
TTU-2-114-20211222-DUP	1,3,5-Trimethylbenzene	0.104	U		0.104	UJ	7
TTU-2-114-20211222	4-Ethyltoluene	0.500	E4	NC	0.500	J	7
TTU-2-114-20211222-DUP	4-Ethyltoluene	0.208	U		0.208	UJ	7
TTU-2-114-20211222	Ethylbenzene	0.686	E4	NC	0.686	J	7
TTU-2-114-20211222-DUP	Ethylbenzene	0.137	U		0.137	UJ	7
TTU-2-114-20211222	n-Propylbenzene	0.101	E4	NC	0.101	J	7
TTU-2-114-20211222-DUP	n-Propylbenzene	0.0993	U		0.0993	UJ	7
TTU-2-114-20211222	Toluene	0.844	E4	NC	0.844	J	7
TTU-2-114-20211222-DUP	Toluene	0.278	U		0.278	UJ	7
TTU-2-114-20211222	Xylenes (Total)	2.15	E4	NC	2.15	J	7
TTU-2-114-20211222-DUP	Xylenes (Total)	0.174	U		0.174	UJ	7

µg/L - Microgram per liter

E4 - Laboratory flag indicating that the concentration is estimated; analyte was detected below RL, but above MDL

U - The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit

The QAPP specifies that field duplicates should be collected and analyzed at a frequency of 10%. Four field duplicates were collected with the twenty-three project samples submitted for VOC analysis. Therefore, the QAPP specified field duplicate frequency was met.

## 2.8 Trip Blank

Two trip blank samples, both identified as Trip Blank, accompanied the VOC samples submitted in SDGs L1433723 and L1445691. The QAPP requires a frequency of one trip blank per shipment of VOC samples. Therefore, the QAPP specified trip blank frequency was met. VOCs were not detected above the MDLs in the trip blanks.

## **2.9 Equipment Blank**

Table 2 in the QAPP specifies that equipment blanks should be collected at a rate of one per day when non-dedicated equipment is used, two per quarterly sampling event, and one per weekly or monthly sampling event. No non-dedicated equipment was used for the quarterly sampling event; therefore, equipment blanks were not collected.

## **2.10 Sensitivity**

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed. The undiluted trichloroethene MDLs and RLs met the EPA Maximum Contaminant Level (MCL) for trichloroethene of 5.0 µg/L indicated in Table 1 of the QAPP. There are no site specific technical and regulatory quality standards provided for other VOCs in Table 1 of the QAPP.

Estimated concentrations greater than the MDLs and less than the RLs were flagged by the laboratory with E4. These estimated concentrations were J qualified as estimated.

## **2.11 Electronic Data Deliverable Review**

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20%. No discrepancies were identified between the level II reports and the EDDs.

## **3.0 1,4-DIOXANE**

The samples were analyzed for 1,4-dioxane per USEPA Method 8260B-SIM.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate

- ⊗ Trip Blank
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

### 3.1 **Overall Assessment**

The 1,4-dioxane data reported in the laboratory reports are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample sets is 100%.

The IS responses for the samples were reported in the laboratory reports. The IS responses were within the method specified acceptance criteria.

### 3.2 **Holding Times**

The holding time for the 1,4-dioxane analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

### 3.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches WG1779946, WG1780446, WG1780650, WG1780984, and WG1795312). 1,4-Dioxane was not detected in the method blanks above the MDL.

### 3.4 **Matrix Spike/Matrix Spike Duplicate**

Two sample set specific MS/MSD pairs were reported using samples TTU-EX-5-80-20211117 and TTU-3-108-20211118. The recovery and RPD results were within the laboratory specified acceptance criteria,

A batch sample MS/MSD pair was reported in batch WG1795312. Since these were batch QC, the results did not impact the data and did not result in qualification of the data.

MS/MSD pairs were not reported for batches WG1780650 and WG1780984. LCS/LCSD pairs were used to assess precision and accuracy.

### **3.5 Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCS/LCSD pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

### **3.6 Surrogates**

Acceptable surrogate recoveries were reported for the sample analyses.

### **3.7 Field Duplicate**

Four field duplicates were collected with the sample sets and analyzed for 1,4-dioxane: TTU-9A-61-20211117-DUP, TTU-12-82-20211118-DUP, TTU-EX-3-76-20211117-DUP, and TTU-2-114-20211222-DUP. Acceptable precision (RPD  $\leq$ 30%) was demonstrated between the field duplicates and original samples, TTU-9A-61-20211117, TTU-12-82-20211118, TTU-EX-3-76-20211117, and TTU-2-114-20211222, respectively.

The QAPP specifies that field duplicates should be collected and analyzed at a frequency of 10%. Four field duplicates were collected with the twenty-three project samples submitted for 1,4-dioxane analysis. Therefore, the QAPP specified field duplicate frequency was met.

### **3.8 Trip Blank**

Two trip blank samples accompanied the VOC samples. However, per the COC, 1,4-dioxane analyses were not requested for the trip blanks. No qualifications were applied to the data, but the discrepancy should be noted by the data user.

### **3.9 Equipment Blank**

Table 2 in the QAPP specifies that equipment blanks should be collected at a rate of one per day when non-dedicated equipment is used, two per quarterly sampling event, and one per weekly or monthly sampling event. No non-dedicated equipment was used for the quarterly sampling event; therefore, equipment blanks were not collected.

### **3.10 Sensitivity**

The samples were reported to the MDL. No elevated non-detect results were reported. There are no site specific technical and regulatory quality standards provided for 1,4-dioxane in Table 1 of the QAPP.



### 3.11 Electronic Data Deliverable Review

Results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20%. No discrepancies were identified between the level II reports and the EDDs.

---

\* \* \* \* \*

**ATTACHMENT 1**  
**DATA VALIDATION QUALIFIER DEFINITIONS**  
**AND INTERPRETATION KEY**  
**Assigned by Geosyntec's Data Validation Team**

**DATA QUALIFIER DEFINITIONS**

- U     The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
  
- J     The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
  
- J+    The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
  
- J-    The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
  
- UJ    The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
  
- R     The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**ATTACHMENT 2**  
**DATA VALIDATION REASON CODES**  
**Assigned by Geosyntec's Data Validation Team**

<b>Valid Value</b>	<b>Description</b>
1	Preservation requirement not met
2	Extraction or analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits or RPD outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

ATTACHMENT 4  
FIELD NOTES

SP0101GW

TTU Groundwater Monitoring Checklist



	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-1	55-914440	6/6/2012	75	30 - 70	1312.73	4" PVC	33 29'59.1382"	-111 42'56.2704"	50		Date/Time: _____ DTW: _____
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:		
	TTU-1-50-2021		—		—	—	—	—	—	—		
Checklist	Depth to Water: <u>Yes / No</u>		Transducer Downloaded: <u>Yes / No</u>		Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydrate Reset: <u>Yes / No</u> Size of sleeve: _____			Samples Packed : <u>Yes / No</u>	
Notes	Please make a note of the well condition and any issues that arose during sampling. <i>Not measured/sampled in November 2021.</i>											
	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-2	N/A	10/17/2013	185	49.4 - 179.6	1314.44	4" PVC	33 29'55.8472"	-111 42'57.8480"	114.5		Date/Time: _____ DTW: _____
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:		
	TTU-2-114-2021		—		—	—	—	—	—	—		
Checklist	Depth to Water: <u>Yes / No</u>		Transducer Downloaded: <u>Yes / No</u>		Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydrate Reset: <u>Yes / No</u> Size of sleeve: _____			Samples Packed : <u>Yes / No</u>	
Notes	Please make a note of the well condition and any issues that arose during sampling. <i>Not measured/sampled in November 2021.</i>											

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec<sup>®</sup>  
consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-3	N/A	10/18/2013	143.6	78.1 - 138.1	1308.03	4" PVC	33 29'57.9845"	-111 43'00.9143"	108		Date/Time: 1417 11-18-21 DTW: 93.35
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:		
	TTU-3-108-2021 1118 + MS/MSD		11-18-21 1425		23.8	1368	7.34	7.08	84.4	Clear top, cloudy bottom 1/5		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydrate Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: 2-1L		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling. Collect MS/MSD											
	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-4	N/A	10/25/2013	104.9	39.5 - 99.5	1305.12	4" PVC	33 30'01.6455"	-111 42'59.0898"	57		Date/Time: 11-18-21 1400 DTW: 51.13
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance / Odor:		
	TTU-4-57-2021 1118		11-18-21 1405		24.9	2014	3.08	7.62	34.6	Clear		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydrate Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: 2-1L		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling.											

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec<sup>®</sup>  
consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-5	N/A	9/20/2014	169.5	59.5 - 164.5	1314.93	4" PVC	33 29'52.4820"	-111 42'58.3994"	110		Date/Time: 11-17-21 1410 DTW: 73.98
Field Parameters	Sample ID: TTU-5-110-2021 1117		Date and Time Sampled: 11-17-21 1415		Temp (°C): 26.2	Spec Cond (µS/cm): 648	DO (mg/l): 4.24	pH (S.U.): 7.50	ORP (mV): 74.0	Appearance / Odor: Clear		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydralvee Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: 2-1/2		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling.											
Well Information	TTU-6	N/A	10/7/2014	180	110 - 175	1300.84	4" PVC	33 29'57.5698"	-111 43'04.7900"	143		Date/Time: 11-18-21 1502 DTW: 126.06
Field Parameters	Sample ID: TTU-6-143-2021 1118		Date and Time Sampled: 11-18-21 1507		Temp (°C): 24.3	Spec Cond (µS/cm): 2865	DO (mg/l): 2.04	pH (S.U.): 7.25	ORP (mV): 60.8	Appearance / Odor: Clear		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydralvee Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: 2-1/2		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling.											

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec<sup>®</sup>  
consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-7	N/A	10/8/2014	410	Open 280 - 410	1301.84	8.5" Steel	33 29'57.8355"	-111 43'05.1771"	345		Date/Time: 11-18-21 1440 DTW: 135.84
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:		
	TTU-7-345-2021 1118		11-18-21 1447		25.3	3542	1.69	6.88	-145.7	Clear, black tinted bottom 1/5		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No	Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydratee Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: 2-1/2	Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No		
Notes	Please make a note of the well condition and any issues that arose during sampling.											
Well Information	TTU-8	N/A	4/18/2016	190	135 - 185	1310.23	4" PVC	33 30'01.9086"	-111 43'05.3138"	164		Date/Time: 1340 11-18-21 DTW: 145.99
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:		
	TTU-8-164-2021 1118		11-18-21 1345		24.8	3018	2.57	7.03	-407	Clear		
Checklist	Depth to Water: <input type="radio"/> Yes / <input checked="" type="radio"/> No	Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydratee Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: 2-1/2	Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No		
Notes	Please make a note of the well condition and any issues that arose during sampling.											



SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec<sup>D</sup>  
consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-9A	N/A	6/16/2016	104	24 - 99	1318.04	4" PVC	33 30'04.6089"	-111 42'51.1919"	61		Date/Time: 11-17-21 1426 DTW: 27.32
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:		
	TTU-9A-61-2021 1117 TTU-9A-61-2021 1117 -DUP		11-17-21 1435		26.9	1586	7.30	7.70	89.9	Clear		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		<del>Transducer Downloaded: Yes / No</del>		Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydralvee Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: <u>2-1L</u>		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling. Collect duplicate on Perchlorate, VOCs, and 1,4 Dioxane											
Well Information	TTU-10	N/A	4/18/2016	185	115 - 180	1302.42	4" PVC	33 29'54.5995"	-111 43'07.9037"	147		Date/Time: 11-13-21 1229 DTW: 150.62
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:		
	TTU-10-147-2021 1118		11-13-21 1235		NR					Cloudy		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		<del>Transducer Downloaded: Yes / No</del>		Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydralvee Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: <u>2-1L</u>		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling. <u>Not enough water for parameters</u>											

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec<sup>®</sup>  
consultants

Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:	
<b>Well Information</b>	TTU-11	55-918534	94	24-89	1339.2	4" PVC	33 29'55.28"	-111 42'51.47"	56.6		Date/Time: _____ DTW: _____	
<b>Field Parameters</b>	Sample ID: TTU-11	Date and Time Sampled:	Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:				
<b>Checklist</b>	Depth to Water: <u>Yes / No</u>	Transducer Downloaded: <u>Yes / No</u>	Sampled: <u>None</u>			Hydrate Reset: <u>Yes / No</u>	Size of sleeve: _____	Samples Packed: <u>Yes / No</u>				
<b>Notes</b>	Please make a note of the well condition and any issues that arose during sampling. <i>Injection well; not measured in November 2021.</i>											
Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:	
<b>Well Information</b>	TTU-12	N/A	180	Open to 180	1312.21	5"	33°29'56.0275"	-111°42'58.3788"	82		Date/Time: <i>11-18-21 1052</i> DTW: <i>69.09</i>	
<b>Field Parameters</b>	Sample ID: TTU-12-82-20211118 TTU-12-82-20211118 -DUP	Date and Time Sampled: <i>11-18-21 1100</i>	Temp (°C) <i>23.2</i>	Spec Cond (µS/cm) <i>3117</i>	DO (mg/l) <i>0.12</i>	pH (S.U.) <i>6.95</i>	ORP (mV) <i>127.1</i>	Appearance: <i>Cloudy</i>				
<b>Checklist</b>	Depth to Water: <u>Yes / No</u>	Transducer Downloaded: <u>Yes / No</u>	Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydrate Reset: <u>Yes / No</u>	Size of sleeve: <i>2-1L</i>	Samples Packed <u>Yes / No</u>				
<b>Notes</b>	Please make a note of the well condition and any issues that arose during sampling. <b>Collect duplicate on Perchlorate, VOCs, and 1,4 Dioxane</b>											

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec  
consultants

Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-13	N/A	7/20/18	80	Open to 80	1310.79	5"	33 29'58.9926"	-111 42'56.8497"	51	Date/Time: 1013 1-18-21 37.18
Field Parameters	Sample ID: TTU-13-51-20211118	Date and Time Sampled: 11-18-21 1017	Temp (°C): 23.2	Spec Cond (µS/cm): 990	DO (mg/l): 2.04	pH (S.U.): 7.10	ORP (mV): 101.6	Appearance: Cloudy rust color, opaque bottom 1/4.			
Checklist	Depth to Water: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Transducer Downloaded: <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydratee Reset: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Size of sleeve: 2-16	Samples Packed: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No			
Notes	Please make a note of the well condition and any issues that arose during sampling.										
Well Information	TTU-14	N/A	7/19/2018	100	Open to 100	1316.8	5"	33 29'57.1962"	-111 42'57.4555"	69	Date/Time: 11-18-21 1032 35.82
Field Parameters	Sample ID: TTU-14-69-20211118	Date and Time Sampled: 11-18-21 1038	Temp (°C): 23.4	Spec Cond (µS/cm): 2553	DO (mg/l): 5.27	pH (S.U.): 6.94	ORP (mV): 115.1	Appearance: Clear to cloudy, dark bottom 1/5			
Checklist	Depth to Water: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Transducer Downloaded: <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydratee Reset: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Size of sleeve: 2-16	Samples Packed: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No			
Notes	Please make a note of the well condition and any issues that arose during sampling.										

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec  
consultants

Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:	
Well Information	TTU-15	55-228014	1/25/2018	100	OPEN	1350.85			75		Date/Time: 1142 11-17-21 DTW: 36.74	
Field Parameters	Sample ID: TTU-15-75-20211117	Date and Time Sampled: 11-17-21 1147	Temp (°C): 25.3	Spec Cond (µS/cm): 2166	DO (mg/l): 1.71	pH (S.U.): 7.24	ORP (mV): -48.5	Appearance: Clear, some floating sed, slight yellow color				
Checklist	Depth to Water: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Transducer Downloaded: <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydrate Reset: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No			Size of sleeve: 2-1L	Samples Packed: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		
Notes	Please make a note of the well condition and any issues that arose during sampling.											
Well Information	TTU-16	55-231730	1/23/2020	96.6'	Open	1338.554	8"	33°29'56.18415"	-111°42'49.59235"	80	Date/Time: 11-17-21 1158 DTW: 14.93	
Field Parameters	Sample ID: TTU-16-80-20211117	Date and Time Sampled: 11-17-21 1203	Temp (°C): 27.4	Spec Cond (µS/cm): 9489	DO (mg/l): 1.04	pH (S.U.): 6.31	ORP (mV): 91.5	Appearance: Bubbly, strong odor, clear to dark red/rust color				
Checklist	Depth to Water: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Transducer Downloaded: <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	Sampled: <input type="checkbox"/> Perchlorate / <input type="checkbox"/> VOCs / <input type="checkbox"/> 1,4-Dioxane			Hydrate Reset: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No			Size of sleeve: 2-1L	Samples Packed: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		
Notes	Please make a note of the well condition and any issues that arose during sampling.											

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec<sup>D</sup>  
consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-17	55-231735	1/22/2020	102*	Open	1347.489	8"	33°29'58.61092"	-111°42'45.68575"	80		Date/Time: 11-17-21 DTW: 31.40 1125
Field Parameters	Sample ID: TTU-17-80-20211117		Date and Time Sampled: 11-17-21 1127		Temp (°C): 25.3	Spec Cond (µS/cm): 940	DO (mg/l): 1.28	pH (S.U.): 7.12	ORP (mV): -96.9	Appearance: Clear top, cloudy black cloudy bottom		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="radio"/> Perchlorate / <input type="radio"/> VOCs / <input type="radio"/> 1,4-Dioxane			Hydralvee Reset: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Size of sleeve: 2-1/2		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling.											
Well Information	TTU-18	55-231737	1/21/2020	104.5*	Open	1320.248	8"	33°29'47.20278"	-111°42'58.10223"	none	Dry	Date/Time: 11/17/21 DTW: Dry
Field Parameters	Sample ID: TTU-18-		Date and Time Sampled: _____		Temp (°C): _____	Spec Cond (µS/cm): _____	DO (mg/l): _____	pH (S.U.): _____	ORP (mV): _____	Appearance: _____		
Checklist	Depth to Water: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: <input type="radio"/> Perchlorate / <input type="radio"/> VOCs / <input type="radio"/> 1,4-Dioxane			Hydralvee Reset: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Size of sleeve: _____		Samples Packed: <input type="radio"/> Yes / <input checked="" type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling.											

SP0101GW

TTU Groundwater Monitoring Checklist



	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-19	55-232969	9/24/2020	95	25-90	1336.81	4"	33 29' 55.25498"	-111 42' 51.49762"			Date/Time: _____ DTW: _____
Field Parameters	Sample ID:	Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:			
	TTU-19-											
Checklist	Depth to Water: <u>Yes / No</u>		Transducer Downloaded: <u>Yes / No</u>		Sampled: <u>None</u>			Hydralvee Reset: <u>Yes / No</u> Size of sleeve: _____			Samples Packed : <u>Yes / No</u>	
Notes	Please make a note of the well condition and any issues that arose during sampling. <i>Set sleeve by mistake, 11-17-21. Injection well; not measured in November 2021.</i>											
	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-20	55-232968	9/24/2020	95	25-90	1336.9	4"	33 29' 55.17373"	-111 42' 51.57575"	73		Date/Time: <i>11-18-21 1117</i> DTW: <i>29.17</i>
Field Parameters	Sample ID:	Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:			
	TTU-20-73-20211113	<i>11-18-21 1123</i>		<i>26.0</i>	<i>5733</i>	<i>1.46</i>	<i>6.41</i>	<i>154.5</i>	<i>Clear top, cloudy bottom</i>			
Checklist	Depth to Water: <u>Yes / No</u>		Transducer Downloaded: <u>Yes / No</u>		Sampled: <u>Perchlorate, VOCs, 1,4 Dioxane, Bromide</u>			Hydralvee Reset: <u>Yes / No</u> Size of sleeve: <i>2-1/2</i>			Samples Packed : <u>Yes / No</u>	
Notes	Please make a note of the well condition and any issues that arose during sampling.											

SP0101GW

TTU Groundwater Monitoring Checklist



	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-EX-1	55-231733	1/29/2020	109*	Open	1321.694	8"	33°29'58.42103"	-111°42'52.55168"	69		Date/Time: 11-17-21 1222 DTW: 17.23
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:		
	TTU-EX-1-69-2021 1117		11-17-21 1227		25.1	4675	7.08	7.02	108.8	Cloudy, tan/gray color		
Checklist	Depth to Water: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		<del>Transducer Downloaded: Yes / No</del>		Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydratee Reset: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		Size of sleeve: 2-1/2		Samples Packed: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling.											
	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	TTU-EX-2	55-231734	1/28/2020	110*	Open	1316.401	8"	33°29'57.60791"	-111°42'53.78896"	74		Date/Time: 11-17-21 1252 DTW: 22.28
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:		
	TTU-EX-2-74-2021 1117		11-17-21 1255		25.5	1676	2.05	7.61	79.8	Cloudy, ~8" of sed. at bottom		
Checklist	Depth to Water: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		<del>Transducer Downloaded: Yes / No</del>		Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydratee Reset: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		Size of sleeve: 2-1/2		Samples Packed: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling.											

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec  
consultants

Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
<b>Well Information</b>	TTU-EX-3	55-231731	1/24/2020	111*	Open	1316.85	8"	33°29'56.29009"	-111°42'54.11922"	76	Date/Time: 11-17-21 1312 DTW: 29.60
<b>Field Parameters</b>	Sample ID: TTU-EX-3-76-20211117 TTU-EX-3-76-20211117 -DUP	Date and Time Sampled: 11-17-21 1315	Temp (°C) 25.2	Spec Cond (µS/cm) 3998	DO (mg/l) 4.37	pH (S.U.) 6.79	ORP (mV) 118.4	Appearance: Clear top, cloudy bottom			
<b>Checklist</b>	Depth to Water: <input checked="" type="radio"/> Yes / No	Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No	Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydralvee Reset: <input checked="" type="radio"/> Yes / No	Size of sleeve: 2-1/2"	Samples Packed: <input checked="" type="radio"/> Yes / No			
<b>Notes</b>	Please make a note of the well condition and any issues that arose during sampling. <b>Collect duplicate on Perchlorate, VOCs, and 1,4 Dioxane</b>										
<b>Well Information</b>	TTU-EX-4	55-231732	1/25/2020	112*	Open	1319.958	8"	33°29'55.46297"	-111°42'54.38840"	77	Date/Time: 11-17-21 1330 DTW: 41.75
<b>Field Parameters</b>	Sample ID: TTU-EX-4-77-20211117	Date and Time Sampled: 11-17-21 1335 <del>1332</del>	Temp (°C) 25.2	Spec Cond (µS/cm) 1974	DO (mg/l) 1.98	pH (S.U.) 7.12	ORP (mV) 93.1	Appearance: Cloudy, bubbly, Dark grey bottom 1/5th			
<b>Checklist</b>	Depth to Water: <input checked="" type="radio"/> Yes / No	Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No	Sampled: <u>Perchlorate / VOCs / 1,4-Dioxane</u>			Hydralvee Reset: <input checked="" type="radio"/> Yes / No	Size of sleeve: 2-1/2"	Samples Packed: <input checked="" type="radio"/> Yes / No			
<b>Notes</b>	Please make a note of the well condition and any issues that arose during sampling.										



SP0101GW

TTU Groundwater Monitoring Checklist



Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
<b>Well Information</b>	TTU-EX-5	55-231736	1/24/2020	112.4*	Open	1319.499	8"	33°29'54.67649"	-111°42'54.62111"	80	Date/Time: 11-17-21 1352 DTW: 42.06
<b>Field Parameters</b>	Sample ID: TTU-EX-5-80-2021 +MS/MSD 1117		Date and Time Sampled: 11-17-21 1357		Temp (°C): 26.0	Spec Cond (µS/cm): 1078	DO (mg/l): 2.25	pH (S.U.): 7.36	ORP (mV): -22.6	Appearance: Cloudy, clear	
<b>Checklist</b>	Depth to Water: Yes / <input checked="" type="radio"/> No		Transducer Downloaded: <del>Yes</del> / No		Sampled: Perchlorate / VOCs / 1,4-Dioxane			Hydralleeve Reset: <input checked="" type="radio"/> Yes / No		Size of sleeve: 2-1L Samples Packed: <input checked="" type="radio"/> Yes / No	
<b>Notes</b>	Please make a note of the well condition and any issues that arose during sampling. Collect MS/MSD										
Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
<b>Well Information</b>	PF-1	N/A			1295.99		33 29'56.5958"	-111 43'09.7483"	159.7		
<b>Field Parameters</b>	Sample ID: PF-1-159		Date and Time Sampled: —		Temp (°C): —	Spec Cond (µS/cm): —	DO (mg/l): —	pH (S.U.): —	ORP (mV): —	Appearance: —	
<b>Checklist</b>	Depth to Water: Yes / <input checked="" type="radio"/> No		Transducer Downloaded: <del>Yes</del> / No		Sampled: Perchlorate (6850), VOCs, 1,4 Dioxane			Hydralleeve Reset: Yes / <input checked="" type="radio"/> No		Size of sleeve: _____ Samples Packed : Yes / <input checked="" type="radio"/> No	
<b>Notes</b>	Please make a note of the well condition and any issues that arose during sampling. Not measured/sampled in November 2021.										

SP0101GW

TTU Groundwater Monitoring Checklist

Geosyntec  
consultants

	Well Name	ADWR#	Date Completed	Total Depth (FT BGS)	Screened Interval (FT BGS)	Casing Elevation (FT MSL)	Casing Material/Diameter	Latitude	Longitude	Sample Depth	Previous DTW:	Current DTW:
Well Information	PF-2	N/A				1296.35		33 29'56.6487"	-111 43'09.9629"	400		Date/Time: 11-18-21 1245 DTW: 148.08
Field Parameters	Sample ID:		Date and Time Sampled:		Temp (°C)	Spec Cond (µS/cm)	DO (mg/l)	pH (S.U.)	ORP (mV)	Appearance:		
	PF-2-400-2021118		11-18-21 1312							Clear		
Checklist	Depth to Water: <input checked="" type="radio"/> Yes / <input type="radio"/> No		Transducer Downloaded: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Sampled: Perchlorate (6850), VOCs, 1,4 Dioxane			Hydralvee Reset: <input type="radio"/> Yes / <input checked="" type="radio"/> No		Size of sleeve: <u>NA</u>		Samples Packed: <input checked="" type="radio"/> Yes / <input type="radio"/> No
Notes	Please make a note of the well condition and any issues that arose during sampling. <b>Collect Duplicate on Perchlorate by 6850 only, Sample ID: PF-2-400-2021 1118 -DUP</b>											

1246 - Pump Start	temp	spnd	DO	pH	ORP	Notes
1258	24.5	1243	6.06	7.47	51.7	Clear
1259	24.3	1152	5.31	7.34	53.3	Clear
1302	24.2	1153	6.11	7.38	57.1	Clear
1305	23.8	1156	5.76	7.31	55.5	Clear
1308	24.1	1160	6.87	7.42	54.7	Clear
1312	24.1	1156	6.09	7.32	49.8	Clear, sampled

ATTACHMENT 5  
LABORATORY ANALYTICAL REPORTS

## ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix  
4625 East Cotton Ctr Blvd  
Suite 189  
Phoenix, AZ 85040  
Tel: (602)437-3340

Laboratory Job ID: 550-174545-1  
Client Project/Site: Nammo Talley

For:  
Geosyntec Consultants, Inc.  
11811 N Tatum Blvd  
Ste P186  
Phoenix, Arizona 85028

Attn: Fabrizio Mascioni



Authorized for release by:  
12/3/2021 4:07:35 PM

Linda Eshelman, Project Manager II  
(602)659-7681  
[linda.eshelman@eurofinset.com](mailto:linda.eshelman@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Sample Summary . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	7
QC Sample Results . . . . .	8
QC Association Summary . . . . .	9
Lab Chronicle . . . . .	10
Certification Summary . . . . .	11
Method Summary . . . . .	12
Chain of Custody . . . . .	13
Field Data Sheets . . . . .	15
Receipt Checklists . . . . .	16

# Definitions/Glossary

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

# Case Narrative

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

---

**Job ID: 550-174545-1**

---

**Laboratory: Eurofins TestAmerica, Phoenix**

## Narrative

---

**Job Narrative**  
**550-174545-1**

## Comments

No additional comments.

## Receipt

The samples were received on 11/18/2021 3:45 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 was 5.9° C.

## LCMS

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

## Organic Prep

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Sample Summary

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-174545-1	PF-2-400-20211118	Water	11/18/21 13:12	11/18/21 15:45
550-174545-2	PF-2-400-20211118-Dup	Water	11/18/21 13:12	11/18/21 15:45

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



# Detection Summary

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

## Client Sample ID: PF-2-400-20211118

## Lab Sample ID: 550-174545-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	1.5		0.50		ug/L	1		6850	Total/NA

## Client Sample ID: PF-2-400-20211118-Dup

## Lab Sample ID: 550-174545-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	1.3		0.50		ug/L	1		6850	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

**Client Sample ID: PF-2-400-20211118**

**Lab Sample ID: 550-174545-1**

Date Collected: 11/18/21 13:12

Matrix: Water

Date Received: 11/18/21 15:45

**Method: 6850 - Perchlorate by LC/MS or LC/MS/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	1.5		0.50		ug/L		11/30/21 12:53	12/01/21 17:55	1

**Client Sample ID: PF-2-400-20211118-Dup**

**Lab Sample ID: 550-174545-2**

Date Collected: 11/18/21 13:12

Matrix: Water

Date Received: 11/18/21 15:45

**Method: 6850 - Perchlorate by LC/MS or LC/MS/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	1.3		0.50		ug/L		11/30/21 12:53	12/01/21 18:10	1

# QC Sample Results

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

## Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

**Lab Sample ID: MB 320-546899/1-A**  
**Matrix: Water**  
**Analysis Batch: 547309**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 546899**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.50		ug/L		11/30/21 12:53	12/01/21 16:29	1

**Lab Sample ID: LCS 320-546899/2-A**  
**Matrix: Water**  
**Analysis Batch: 547309**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 546899**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	5.00	4.77		ug/L		95	80 - 120

# QC Association Summary

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

## LCMS

### Prep Batch: 546899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-174545-1	PF-2-400-20211118	Total/NA	Water	Filtration	
550-174545-2	PF-2-400-20211118-Dup	Total/NA	Water	Filtration	
MB 320-546899/1-A	Method Blank	Total/NA	Water	Filtration	
LCS 320-546899/2-A	Lab Control Sample	Total/NA	Water	Filtration	

### Analysis Batch: 547309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-174545-1	PF-2-400-20211118	Total/NA	Water	6850	546899
550-174545-2	PF-2-400-20211118-Dup	Total/NA	Water	6850	546899
MB 320-546899/1-A	Method Blank	Total/NA	Water	6850	546899
LCS 320-546899/2-A	Lab Control Sample	Total/NA	Water	6850	546899

# Lab Chronicle

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

**Client Sample ID: PF-2-400-20211118**

**Lab Sample ID: 550-174545-1**

**Date Collected: 11/18/21 13:12**

**Matrix: Water**

**Date Received: 11/18/21 15:45**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	Filtration			546899	11/30/21 12:53	LN	TAL SAC
Total/NA	Analysis	6850		1	547309	12/01/21 17:55	D1R	TAL SAC

**Client Sample ID: PF-2-400-20211118-Dup**

**Lab Sample ID: 550-174545-2**

**Date Collected: 11/18/21 13:12**

**Matrix: Water**

**Date Received: 11/18/21 15:45**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	Filtration			546899	11/30/21 12:53	LN	TAL SAC
Total/NA	Analysis	6850		1	547309	12/01/21 18:10	D1R	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.  
 Project/Site: Nammo Talley

Job ID: 550-174545-1

## Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-21 *
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-22
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-18-22
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA00044	08-31-22
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-22
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-22
USDA	US Federal Programs	P330-18-00239	07-31-24
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-22
Wyoming	State Program	8TMS-L	01-28-19 *

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

# Method Summary

Client: Geosyntec Consultants, Inc.  
Project/Site: Nammo Talley

Job ID: 550-174545-1

Method	Method Description	Protocol	Laboratory
6850	Perchlorate by LC/MS or LC/MS/MS	EPA	TAL SAC
Filtration	Sample Filtration	None	TAL SAC

**Protocol References:**

EPA = US Environmental Protection Agency

None = None

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Address: \_\_\_\_\_

174545

# Chain of Custody Record

576625 eurofins

Environment Testing  
TestAmerica

TAL-8210

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Company Name: <i>Geosyntec Consultants</i> Address: <i>1181 N Tanna Blvd P-186</i> City/State/Zip: <i>Phoenix AZ 85028</i> Phone: <i>602-513-5812</i> Fax: <i>N/A</i> Project Name: <i>Namno TTV GV</i> Site: _____ P O # <i>SP0101621/01</i>		<b>Project Manager: <i>Maxson</i></b> Tell/Email: <i>Maxson@geosyntec.com</i> Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact:</b> Lab Contact: _____ Date: _____ Carrier: _____		<b>COC No.:</b> 1 of 1 COCs Sampler: <i>Bryn Ayala</i> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____			
<b>Sample Identification</b> <i>PF-2-400-2021118</i> <i>PF-2-400-2021118-Dup</i>		<b>Sample Date</b> <i>11-18-21</i>	<b>Sample Time</b> <i>L</i>	<b>Sample Type (G=Comp, G=Grab)</b> <i>G</i>	<b>Matrix</b> <i>GV</i>	<b># of Cont.</b> <i>1</i>	<b>Filtered Sample ( Y / N )</b> <i>Y N X</i>	<b>Perform MS / MSD ( Y / N )</b> <i>6850 Perchlorate</i>	<b>Sample Specific Notes:</b> <i>-01</i> <i>-02</i>



**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other \_\_\_\_\_  
**Possible Hazard Identification:**  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Special Instructions/ICQ Requirements & Comments:**  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months  
*5.98C* *cd*

**Custody Seals Intact:**  Yes  No **Custody Seal No.:** \_\_\_\_\_ **Coor'd Temp (C):** Obs'd: \_\_\_\_\_ **Coor'd:** \_\_\_\_\_ **Therm ID No.:** \_\_\_\_\_

Relinquished by: *[Signature]* Company: *Geosyntec* Date/Time: *11-18-21 1545* Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received in Laboratory by: *[Signature]* Company: *780K* Date/Time: *11-18-21 1545*



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b> Client Contact: Eshelman, Linda Shipping/Receiving: linda.eshelman@eurofinset.com Company: TestAmerica Laboratories, Inc. Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email: Project Name: Nammo Talley Site:		Lab PM: Eshelman, Linda E-Mail: linda.eshelman@eurofinset.com State of Origin: Arizona Accreditations Required (See note): State Program - Arizona		Carrier Tracking No(s): COC No: 550-32410-1 Page: Page 1 of 1 Job #: 550-174545-1					
Due Date Requested: 12/2/2021 TAT Requested (days): PO #: WO #: Project #: 55016882 SSOW#:			<b>Analysis Requested</b> Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
<b>Sample Identification - Client ID (Lab ID)</b>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		Total Number of Containers		Special Instructions/Note:	
Sample Date 11/18/21	Sample Time 13:12 Arizona	Sample Type (C=Comp, G=grab) Water	Matrix (W=water, S=solid, O=water/oil) Water	Preservation Code: Water	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	Total Number of Containers 1	Special Instructions/Note:	
Sample Date 11/18/21	Sample Time 13:12 Arizona	Sample Type (C=Comp, G=grab) Water	Matrix (W=water, S=solid, O=water/oil) Water	Preservation Code: Water	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	Total Number of Containers 1	Special Instructions/Note:	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.									
<b>Possible Hazard Identification</b> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: Date: Relinquished by: [Signature] Date: 12/18/21 Company: ECETSAW Relinquished by: [Signature] Date: 11/19/21 Company: [Signature] Relinquished by: [Signature] Date: 12/18/21 Company: [Signature]									
Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:									
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0.9L									





550-174545 Field Sheet

Job: \_\_\_\_\_

Tracking #: 52904620 0489

SO/PO/FO/SAT/2-Day/Ground/UPS/CDO/Courier GSO/OnTrac/Goldstreak/USPS/Other \_\_\_\_\_

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L07 Corr. Factor: (+/-) - °C

Ice / Wet / Gel Other

Cooler Custody Seal: 1754949

Cooler ID: \_\_\_\_\_

Temp Observed: 0.9 °C Corrected: 0.9 °C From: Temp Blank [x] Sample [ ]

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Opening/Processing The Shipment table with Yes/No/NA columns and checkboxes for cooler issues and thawing.

Initials: [Signature] Date: 11/19/20

Unpacking/Labeling The Samples table with Yes/No/NA columns and checkboxes for CoC, labeling, and headspace.

\*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 11/19/20

Trizma Lot #(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Login Completion table with Yes/No/NA columns and checkboxes for receipt, hold time, and TALS.

Initials: [Signature] Date: 11/19/20

WR 1-B

## Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 550-174545-1

**Login Number: 174545**

**List Source: Eurofins TestAmerica, Phoenix**

**List Number: 1**

**Creator: Gravlin, Andrea**

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

## Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 550-174545-1

**Login Number: 174545**

**List Number: 2**

**Creator: Simmons, Jason C**

**List Source: Eurofins TestAmerica, Sacramento**

**List Creation: 11/19/21 04:42 PM**


Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1754949
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## GeoSyntec, Inc. - AZ

Sample Delivery Group: L1433723  
Samples Received: 11/19/2021  
Project Number: SP0101GW21/02  
Description: Nammo Defense Systems Inc

Report To: Fabrizio Mascioni  
11811 N Tatum Blvd, Ste P186  
Phoenix, AZ 85028

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

# TABLE OF CONTENTS

<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	<b>2</b> Tc
<b>Ss: Sample Summary</b>	<b>3</b>	<b>3</b> Ss
<b>Cn: Case Narrative</b>	<b>8</b>	<b>4</b> Cn
<b>Sr: Sample Results</b>	<b>9</b>	<b>5</b> Sr
TTU-9A-61-20211117 L1433723-01	9	
TTU-9A-61-20211117-DUP L1433723-02	11	
TTU-13-51-20211118 L1433723-03	13	
TTU-14-69-20211118 L1433723-04	15	
TTU-12-82-20211118 L1433723-05	17	<b>6</b> Qc
TTU-12-82-20211118-DUP L1433723-06	19	
TTU-20-73-20211118 L1433723-07	21	<b>7</b> Is
TTU-10-147-20211118 L1433723-08	23	<b>8</b> Gl
PF-2-400-20211118 L1433723-09	25	
TTU-8-164-20211118 L1433723-10	27	<b>9</b> Al
TTU-17-80-20211117 L1433723-11	29	
TTU-15-75-20211117 L1433723-12	31	<b>10</b> Sc
TTU-16-80-20211117 L1433723-13	33	
TTU-EX-1-69-20211117 L1433723-14	35	
TTU-EX-2-74-20211117 L1433723-15	37	
TTU-EX-3-76-20211117 L1433723-16	39	
TTU-EX-3-76-20211117-DUP L1433723-17	41	
TTU-EX-4-77-20211117 L1433723-18	43	
TTU-EX-5-80-20211117 L1433723-19	45	
TTU-5-110-20211117 L1433723-20	47	
TTU-4-57-20211118 L1433723-21	49	
TTU-3-108-20211118 L1433723-22	51	
TTU-7-345-20211118 L1433723-23	53	
TTU-6-143-20211118 L1433723-24	55	
TRIP BLANK L1433723-25	57	
<b>Qc: Quality Control Summary</b>	<b>59</b>	
Wet Chemistry by Method 314.0 Mod	59	
Volatile Organic Compounds (GC/MS) by Method 8260B	65	
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	79	
<b>Is: Internal Standard Summary</b>	<b>83</b>	
Volatile Organic Compounds (GC/MS) by Method 8260B	83	
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	86	
<b>Gl: Glossary of Terms</b>	<b>88</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>89</b>	
<b>Sc: Sample Chain of Custody</b>	<b>90</b>	

# SAMPLE SUMMARY

## TTU-9A-61-20211117 L1433723-01 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 14:35  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1786624	1	12/07/21 14:29	12/07/21 14:29	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 00:12	11/27/21 00:12	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	1	11/29/21 10:37	11/29/21 10:37	ACG	Mt. Juliet, TN



## TTU-9A-61-20211117-DUP L1433723-02 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 14:35  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1786624	1	12/07/21 15:24	12/07/21 15:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 00:33	11/27/21 00:33	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 17:27	11/24/21 17:27	BMB	Mt. Juliet, TN

## TTU-13-51-20211118 L1433723-03 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 10:17  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	500	12/07/21 17:16	12/07/21 17:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 00:53	11/27/21 00:53	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 17:47	11/24/21 17:47	BMB	Mt. Juliet, TN

## TTU-14-69-20211118 L1433723-04 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 10:38  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	500000	12/08/21 11:38	12/08/21 11:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 01:13	11/27/21 01:13	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	50	12/01/21 04:53	12/01/21 04:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 18:07	11/24/21 18:07	BMB	Mt. Juliet, TN

## TTU-12-82-20211118 L1433723-05 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 11:00  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	5000	12/07/21 18:12	12/07/21 18:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 01:34	11/27/21 01:34	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	25	12/01/21 05:14	12/01/21 05:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 18:26	11/24/21 18:26	BMB	Mt. Juliet, TN

## TTU-12-82-20211118-DUP L1433723-06 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 11:00  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	5000	12/07/21 18:40	12/07/21 18:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 01:54	11/27/21 01:54	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	25	12/01/21 05:34	12/01/21 05:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 18:46	11/24/21 18:46	BMB	Mt. Juliet, TN

# SAMPLE SUMMARY

## TTU-20-73-20211118 L1433723-07 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 11:23  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	10000	12/07/21 19:08	12/07/21 19:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 02:14	11/27/21 02:14	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782742	200	12/01/21 22:21	12/01/21 22:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	20	11/29/21 11:58	11/29/21 11:58	ACG	Mt. Juliet, TN

## TTU-10-147-20211118 L1433723-08 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 12:35  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1786624	1	12/07/21 19:36	12/07/21 19:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 02:35	11/27/21 02:35	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	11/30/21 23:03	11/30/21 23:03	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	1	11/29/21 10:58	11/29/21 10:58	ACG	Mt. Juliet, TN

## PF-2-400-20211118 L1433723-09 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 13:12  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 02:55	11/27/21 02:55	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	11/30/21 23:23	11/30/21 23:23	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 19:45	11/24/21 19:45	BMB	Mt. Juliet, TN

## TTU-8-164-20211118 L1433723-10 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 13:45  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1786624	1	12/07/21 20:31	12/07/21 20:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 03:15	11/27/21 03:15	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	11/30/21 23:44	11/30/21 23:44	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 20:05	11/24/21 20:05	BMB	Mt. Juliet, TN

## TTU-17-80-20211117 L1433723-11 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 11:27  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	1	12/07/21 21:27	12/07/21 21:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 03:36	11/27/21 03:36	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	12/01/21 00:04	12/01/21 00:04	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 20:25	11/24/21 20:25	BMB	Mt. Juliet, TN

## TTU-15-75-20211117 L1433723-12 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 11:47  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	100	12/08/21 09:59	12/08/21 09:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 03:56	11/27/21 03:56	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	12/01/21 00:25	12/01/21 00:25	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	1	11/29/21 11:18	11/29/21 11:18	ACG	Mt. Juliet, TN





# SAMPLE SUMMARY

## TTU-16-80-2021117 L1433723-13 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 12:03  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	10000	12/08/21 00:15	12/08/21 00:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 04:17	11/27/21 04:17	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	5000	12/01/21 06:15	12/01/21 06:15	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	50	11/29/21 12:17	11/29/21 12:17	ACG	Mt. Juliet, TN



## TTU-EX-1-69-2021117 L1433723-14 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 12:27  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	5000	12/08/21 00:43	12/08/21 00:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 04:37	11/27/21 04:37	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	12/01/21 00:46	12/01/21 00:46	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	1	11/29/21 11:38	11/29/21 11:38	ACG	Mt. Juliet, TN

## TTU-EX-2-74-2021117 L1433723-15 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 12:55  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	5000	12/08/21 01:10	12/08/21 01:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 04:57	11/27/21 04:57	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	5	12/01/21 01:47	12/01/21 01:47	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1779946	1	11/24/21 21:44	11/24/21 21:44	BMB	Mt. Juliet, TN

## TTU-EX-3-76-2021117 L1433723-16 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 13:15  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	5000	12/08/21 01:38	12/08/21 01:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 05:18	11/27/21 05:18	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782742	100	12/01/21 21:42	12/01/21 21:42	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	5	11/29/21 12:37	11/29/21 12:37	ACG	Mt. Juliet, TN

## TTU-EX-3-76-2021117-DUP L1433723-17 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 13:15  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	5000	12/08/21 02:06	12/08/21 02:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 05:38	11/27/21 05:38	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782742	100	12/01/21 22:02	12/01/21 22:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780984	5	11/29/21 12:57	11/29/21 12:57	ACG	Mt. Juliet, TN

## TTU-EX-4-77-2021117 L1433723-18 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 13:35  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	5000	12/08/21 02:34	12/08/21 02:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 05:58	11/27/21 05:58	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	20	12/01/21 02:49	12/01/21 02:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780446	1	11/26/21 16:33	11/26/21 16:33	ADM	Mt. Juliet, TN

# SAMPLE SUMMARY

TTU-EX-5-80-20211117 L1433723-19 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 13:57  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	1	12/08/21 03:02	12/08/21 03:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 06:19	11/27/21 06:19	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	12/01/21 01:06	12/01/21 01:06	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780446	1	11/26/21 16:53	11/26/21 16:53	ADM	Mt. Juliet, TN



TTU-5-110-20211117 L1433723-20 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/17/21 14:15  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784394	1	12/08/21 05:22	12/08/21 05:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780361	1	11/27/21 06:39	11/27/21 06:39	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1782067	1	12/01/21 01:27	12/01/21 01:27	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780650	1	11/29/21 13:36	11/29/21 13:36	ACG	Mt. Juliet, TN

TTU-4-57-20211118 L1433723-21 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 14:05  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1789817	1	12/10/21 18:17	12/10/21 18:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780831	1	11/28/21 13:03	11/28/21 13:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780446	1	11/26/21 17:33	11/26/21 17:33	ADM	Mt. Juliet, TN

TTU-3-108-20211118 L1433723-22 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 14:25  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1784397	10	12/10/21 19:14	12/10/21 19:14	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780831	1	11/28/21 13:24	11/28/21 13:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780446	1	11/26/21 17:53	11/26/21 17:53	ADM	Mt. Juliet, TN

TTU-7-345-20211118 L1433723-23 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 14:47  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1789817	1	12/10/21 21:36	12/10/21 21:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780831	1	11/28/21 13:44	11/28/21 13:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780446	1	11/26/21 18:12	11/26/21 18:12	ADM	Mt. Juliet, TN

TTU-6-143-20211118 L1433723-24 GW

Collected by: Ryan Ayala  
 Collected date/time: 11/18/21 15:07  
 Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1789817	1	12/10/21 22:33	12/10/21 22:33	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780831	1	11/28/21 14:05	11/28/21 14:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1780446	1	11/26/21 18:32	11/26/21 18:32	ADM	Mt. Juliet, TN

# SAMPLE SUMMARY

TRIP BLANK L1433723-25 GW

Collected by: Ryan Ayala  
Collected date/time: 11/18/21 00:00  
Received date/time: 11/19/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1780831	1	11/28/21 12:42	11/28/21 12:42	DWR	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager

## Sample Delivery Group (SDG) Narrative

Insufficient sample volume to perform MS/MSD analyses per method QC requirements.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1433723-01</a>	<a href="#">TTU-9A-61-2021117</a>	8260B-SIM
<a href="#">L1433723-02</a>	<a href="#">TTU-9A-61-2021117-DUP</a>	8260B-SIM
<a href="#">L1433723-03</a>	<a href="#">TTU-13-51-2021118</a>	8260B-SIM
<a href="#">L1433723-04</a>	<a href="#">TTU-14-69-2021118</a>	8260B-SIM, 8260B
<a href="#">L1433723-05</a>	<a href="#">TTU-12-82-2021118</a>	8260B-SIM, 8260B
<a href="#">L1433723-06</a>	<a href="#">TTU-12-82-2021118-DUP</a>	8260B-SIM, 8260B
<a href="#">L1433723-07</a>	<a href="#">TTU-20-73-2021118</a>	8260B-SIM, 8260B
<a href="#">L1433723-08</a>	<a href="#">TTU-10-147-2021118</a>	8260B-SIM, 8260B
<a href="#">L1433723-09</a>	<a href="#">PF-2-400-2021118</a>	8260B-SIM, 8260B
<a href="#">L1433723-10</a>	<a href="#">TTU-8-164-2021118</a>	8260B-SIM, 8260B
<a href="#">L1433723-11</a>	<a href="#">TTU-17-80-2021117</a>	8260B-SIM, 8260B
<a href="#">L1433723-12</a>	<a href="#">TTU-15-75-2021117</a>	8260B-SIM, 8260B
<a href="#">L1433723-13</a>	<a href="#">TTU-16-80-2021117</a>	8260B-SIM, 8260B
<a href="#">L1433723-14</a>	<a href="#">TTU-EX-1-69-2021117</a>	8260B-SIM, 8260B
<a href="#">L1433723-15</a>	<a href="#">TTU-EX-2-74-2021117</a>	8260B-SIM, 8260B
<a href="#">L1433723-16</a>	<a href="#">TTU-EX-3-76-2021117</a>	8260B-SIM, 8260B
<a href="#">L1433723-17</a>	<a href="#">TTU-EX-3-76-2021117-DUP</a>	8260B-SIM, 8260B
<a href="#">L1433723-18</a>	<a href="#">TTU-EX-4-77-2021117</a>	8260B
<a href="#">L1433723-19</a>	<a href="#">TTU-EX-5-80-2021117</a>	8260B
<a href="#">L1433723-20</a>	<a href="#">TTU-5-110-2021117</a>	8260B-SIM, 8260B



## Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	6.41		0.300	4.00	1	12/07/2021 14:29	<a href="#">WG1786624</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Acrolein	U	<u>R5</u>	2.54	50.0	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1-Dichloroethene	U		0.188	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<u>R7</u>	0.161	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	<u>L1</u>	0.430	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 00:12	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Trichloroethene	0.911	<u>E4 L1 R5</u>	0.190	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 00:12	<a href="#">WG1780361</a>
(S) Toluene-d8	110			80.0-120		11/27/2021 00:12	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	112			77.0-126		11/27/2021 00:12	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/27/2021 00:12	<a href="#">WG1780361</a>



## Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/29/2021 10:37	<a href="#">WG1780984</a>
(S) Toluene-d8	99.3			77.0-127		11/29/2021 10:37	<a href="#">WG1780984</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	6.59		0.300	4.00	1	12/07/2021 15:24	<a href="#">WG1786624</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Acrolein	U	<u>R5</u>	2.54	50.0	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1-Dichloroethene	U		0.188	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<u>R7</u>	0.161	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Is  
8 Gl  
9 Al  
10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	<u>L1</u>	0.430	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 00:33	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Trichloroethene	0.985	<u>E4 L1 R5</u>	0.190	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 00:33	<a href="#">WG1780361</a>
(S) Toluene-d8	108			80.0-120		11/27/2021 00:33	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	111			77.0-126		11/27/2021 00:33	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/27/2021 00:33	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/24/2021 17:27	<a href="#">WG1779946</a>
(S) Toluene-d8	101			77.0-127		11/24/2021 17:27	<a href="#">WG1779946</a>



Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	11000		150	2000	500	12/07/2021 17:16	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1-Dichloroethene	0.470	<a href="#">E4</a>	0.188	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	<u>L1</u>	0.430	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 00:53	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Trichloroethene	1.44	<u>L1 R5</u>	0.190	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 00:53	<a href="#">WG1780361</a>
(S) Toluene-d8	109			80.0-120		11/27/2021 00:53	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	112			77.0-126		11/27/2021 00:53	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/27/2021 00:53	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	3.26		0.597	3.00	1	11/24/2021 17:47	<a href="#">WG1779946</a>
(S) Toluene-d8	101			77.0-127		11/24/2021 17:47	<a href="#">WG1779946</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	12600000		150000	2000000	500000	12/08/2021 11:38	<a href="#">WG1784394</a>

Sample Narrative:

L1433723-04 WG1784394: sample diluted 5,000,000x

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Benzene	1.86		0.0941	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Chloroform	1.99	<a href="#">E4</a>	0.111	5.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,1-Dichloroethane	1.28		0.100	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,1-Dichloroethene	137		0.188	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
cis-1,2-Dichloroethene	2.49		0.126	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	0.231	<a href="#">E4</a>	0.149	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 01:13	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 01:13	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 01:13	WG1780361
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 01:13	WG1780361
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 01:13	WG1780361
Methylene Chloride	U	L1	0.430	5.00	1	11/27/2021 01:13	WG1780361
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 01:13	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 01:13	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 01:13	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 01:13	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 01:13	WG1780361
Styrene	U		0.118	1.00	1	11/27/2021 01:13	WG1780361
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 01:13	WG1780361
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 01:13	WG1780361
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 01:13	WG1780361
Tetrachloroethene	1.69		0.300	1.00	1	11/27/2021 01:13	WG1780361
Toluene	U		0.278	1.00	1	11/27/2021 01:13	WG1780361
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 01:13	WG1780361
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 01:13	WG1780361
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 01:13	WG1780361
1,1,2-Trichloroethane	2.03		0.158	1.00	1	11/27/2021 01:13	WG1780361
Trichloroethene	917		9.50	50.0	50	12/01/2021 04:53	WG1782067
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 01:13	WG1780361
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 01:13	WG1780361
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 01:13	WG1780361
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 01:13	WG1780361
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 01:13	WG1780361
Vinyl chloride	U		0.234	1.00	1	11/27/2021 01:13	WG1780361
Xylenes, Total	U		0.174	3.00	1	11/27/2021 01:13	WG1780361
(S) Toluene-d8	112			80.0-120		11/27/2021 01:13	WG1780361
(S) Toluene-d8	100			80.0-120		12/01/2021 04:53	WG1782067
(S) 4-Bromofluorobenzene	112			77.0-126		11/27/2021 01:13	WG1780361
(S) 4-Bromofluorobenzene	106			77.0-126		12/01/2021 04:53	WG1782067
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/27/2021 01:13	WG1780361
(S) 1,2-Dichloroethane-d4	113			70.0-130		12/01/2021 04:53	WG1782067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	279		0.597	3.00	1	11/24/2021 18:07	WG1779946
(S) Toluene-d8	101			77.0-127		11/24/2021 18:07	WG1779946

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	148000		1500	20000	5000	12/07/2021 18:12	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Benzene	0.884	<a href="#">E4</a>	0.0941	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Chloroform	1.63	<a href="#">E4</a>	0.111	5.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,1-Dichloroethane	0.868	<a href="#">E4</a>	0.100	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,1-Dichloroethene	91.9		0.188	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
cis-1,2-Dichloroethene	1.12		0.126	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	0.217	<a href="#">E4</a>	0.149	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 01:34	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 01:34	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	L1	0.430	5.00	1	11/27/2021 01:34	WG1780361
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 01:34	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 01:34	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 01:34	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 01:34	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 01:34	WG1780361
Styrene	U		0.118	1.00	1	11/27/2021 01:34	WG1780361
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 01:34	WG1780361
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 01:34	WG1780361
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 01:34	WG1780361
Tetrachloroethene	1.14		0.300	1.00	1	11/27/2021 01:34	WG1780361
Toluene	U		0.278	1.00	1	11/27/2021 01:34	WG1780361
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 01:34	WG1780361
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 01:34	WG1780361
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 01:34	WG1780361
1,1,2-Trichloroethane	1.55		0.158	1.00	1	11/27/2021 01:34	WG1780361
Trichloroethene	624		4.75	25.0	25	12/01/2021 05:14	WG1782067
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 01:34	WG1780361
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 01:34	WG1780361
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 01:34	WG1780361
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 01:34	WG1780361
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 01:34	WG1780361
Vinyl chloride	U		0.234	1.00	1	11/27/2021 01:34	WG1780361
Xylenes, Total	U		0.174	3.00	1	11/27/2021 01:34	WG1780361
(S) Toluene-d8	111			80.0-120		11/27/2021 01:34	WG1780361
(S) Toluene-d8	100			80.0-120		12/01/2021 05:14	WG1782067
(S) 4-Bromofluorobenzene	110			77.0-126		11/27/2021 01:34	WG1780361
(S) 4-Bromofluorobenzene	105			77.0-126		12/01/2021 05:14	WG1782067
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/27/2021 01:34	WG1780361
(S) 1,2-Dichloroethane-d4	116			70.0-130		12/01/2021 05:14	WG1782067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	133		0.597	3.00	1	11/24/2021 18:26	WG1779946
(S) Toluene-d8	97.1			77.0-127		11/24/2021 18:26	WG1779946

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	140000		1500	20000	5000	12/07/2021 18:40	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Benzene	0.953	<a href="#">E4</a>	0.0941	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Chloroform	1.78	<a href="#">E4</a>	0.111	5.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,1-Dichloroethane	0.961	<a href="#">E4</a>	0.100	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,1-Dichloroethene	95.4		0.188	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
cis-1,2-Dichloroethene	1.32		0.126	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	0.207	<a href="#">E4</a>	0.149	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 01:54	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 01:54	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	L1	0.430	5.00	1	11/27/2021 01:54	WG1780361
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 01:54	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 01:54	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 01:54	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 01:54	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 01:54	WG1780361
Styrene	U		0.118	1.00	1	11/27/2021 01:54	WG1780361
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 01:54	WG1780361
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 01:54	WG1780361
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 01:54	WG1780361
Tetrachloroethene	1.10		0.300	1.00	1	11/27/2021 01:54	WG1780361
Toluene	U		0.278	1.00	1	11/27/2021 01:54	WG1780361
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 01:54	WG1780361
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 01:54	WG1780361
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 01:54	WG1780361
1,1,2-Trichloroethane	1.35		0.158	1.00	1	11/27/2021 01:54	WG1780361
Trichloroethene	617		4.75	25.0	25	12/01/2021 05:34	WG1782067
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 01:54	WG1780361
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 01:54	WG1780361
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 01:54	WG1780361
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 01:54	WG1780361
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 01:54	WG1780361
Vinyl chloride	U		0.234	1.00	1	11/27/2021 01:54	WG1780361
Xylenes, Total	U		0.174	3.00	1	11/27/2021 01:54	WG1780361
(S) Toluene-d8	107			80.0-120		11/27/2021 01:54	WG1780361
(S) Toluene-d8	103			80.0-120		12/01/2021 05:34	WG1782067
(S) 4-Bromofluorobenzene	110			77.0-126		11/27/2021 01:54	WG1780361
(S) 4-Bromofluorobenzene	105			77.0-126		12/01/2021 05:34	WG1782067
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/27/2021 01:54	WG1780361
(S) 1,2-Dichloroethane-d4	114			70.0-130		12/01/2021 05:34	WG1782067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	141		0.597	3.00	1	11/24/2021 18:46	WG1779946
(S) Toluene-d8	82.3			77.0-127		11/24/2021 18:46	WG1779946



Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	526000		3000	40000	10000	12/07/2021 19:08	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Benzene	80.8		0.0941	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Chlorobenzene	0.849	<a href="#">E4</a>	0.116	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Chloroethane	0.329	<a href="#">E4</a>	0.192	5.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Chloroform	21.8		0.111	5.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Chloromethane	1.55	<a href="#">E4</a>	0.960	2.50	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	1.09		0.107	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	0.349	<a href="#">E4</a>	0.120	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,1-Dichloroethane	27.4		0.100	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,2-Dichloroethane	4.96		0.0819	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,1-Dichloroethene	2650		37.6	200	200	12/01/2021 22:21	<a href="#">WG1782742</a>
cis-1,2-Dichloroethene	74.9		0.126	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	18.0		0.149	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Di-isopropyl ether	0.305	<a href="#">E4</a>	0.105	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 02:14	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 02:14	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	319	E4	86.0	1000	200	12/01/2021 22:21	WG1782742
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 02:14	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 02:14	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 02:14	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 02:14	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 02:14	WG1780361
Styrene	U		0.118	1.00	1	11/27/2021 02:14	WG1780361
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 02:14	WG1780361
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 02:14	WG1780361
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 02:14	WG1780361
Tetrachloroethene	16.7		0.300	1.00	1	11/27/2021 02:14	WG1780361
Toluene	1.16		0.278	1.00	1	11/27/2021 02:14	WG1780361
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 02:14	WG1780361
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 02:14	WG1780361
1,1,1-Trichloroethane	0.258	E4	0.149	1.00	1	11/27/2021 02:14	WG1780361
1,1,2-Trichloroethane	20.4		0.158	1.00	1	11/27/2021 02:14	WG1780361
Trichloroethene	13400		38.0	200	200	12/01/2021 22:21	WG1782742
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 02:14	WG1780361
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 02:14	WG1780361
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 02:14	WG1780361
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 02:14	WG1780361
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 02:14	WG1780361
Vinyl chloride	0.839	E4	0.234	1.00	1	11/27/2021 02:14	WG1780361
Xylenes, Total	4.51		0.174	3.00	1	11/27/2021 02:14	WG1780361
(S) Toluene-d8	108			80.0-120		11/27/2021 02:14	WG1780361
(S) Toluene-d8	120			80.0-120		12/01/2021 22:21	WG1782742
(S) 4-Bromofluorobenzene	114			77.0-126		11/27/2021 02:14	WG1780361
(S) 4-Bromofluorobenzene	93.7			77.0-126		12/01/2021 22:21	WG1782742
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/27/2021 02:14	WG1780361
(S) 1,2-Dichloroethane-d4	103			70.0-130		12/01/2021 22:21	WG1782742

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	2140		11.9	60.0	20	11/29/2021 11:58	WG1780984
(S) Toluene-d8	91.2			77.0-127		11/29/2021 11:58	WG1780984

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	U		0.300	4.00	1	12/07/2021 19:36	<a href="#">WG1786624</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Benzene	0.113	<a href="#">E4</a>	0.0941	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1-Dichloroethene	U		0.188	1.00	1	11/30/2021 23:03	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	11/30/2021 23:03	<a href="#">WG1782067</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 02:35	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Trichloroethene	U		0.190	1.00	1	11/30/2021 23:03	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 02:35	<a href="#">WG1780361</a>
(S) Toluene-d8	110			80.0-120		11/27/2021 02:35	<a href="#">WG1780361</a>
(S) Toluene-d8	104			80.0-120		11/30/2021 23:03	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	112			77.0-126		11/27/2021 02:35	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	103			77.0-126		11/30/2021 23:03	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		11/27/2021 02:35	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/30/2021 23:03	<a href="#">WG1782067</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/29/2021 10:58	<a href="#">WG1780984</a>
(S) Toluene-d8	100			77.0-127		11/29/2021 10:58	<a href="#">WG1780984</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 02:55	WG1780361
Acrolein	U	R5	2.54	50.0	1	11/27/2021 02:55	WG1780361
Acrylonitrile	U		0.671	10.0	1	11/27/2021 02:55	WG1780361
Benzene	U		0.0941	1.00	1	11/27/2021 02:55	WG1780361
Bromobenzene	U		0.118	1.00	1	11/27/2021 02:55	WG1780361
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 02:55	WG1780361
Bromoform	U		0.129	1.00	1	11/27/2021 02:55	WG1780361
Bromomethane	U		0.605	5.00	1	11/27/2021 02:55	WG1780361
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 02:55	WG1780361
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 02:55	WG1780361
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 02:55	WG1780361
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 02:55	WG1780361
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 02:55	WG1780361
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 02:55	WG1780361
Chlorobenzene	U		0.116	1.00	1	11/27/2021 02:55	WG1780361
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 02:55	WG1780361
Chloroethane	U		0.192	5.00	1	11/27/2021 02:55	WG1780361
Chloroform	U		0.111	5.00	1	11/27/2021 02:55	WG1780361
Chloromethane	U		0.960	2.50	1	11/27/2021 02:55	WG1780361
Cyclohexane	U		0.188	1.00	1	11/27/2021 02:55	WG1780361
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 02:55	WG1780361
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 02:55	WG1780361
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 02:55	WG1780361
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 02:55	WG1780361
Dibromomethane	U		0.122	1.00	1	11/27/2021 02:55	WG1780361
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 02:55	WG1780361
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 02:55	WG1780361
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 02:55	WG1780361
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 02:55	WG1780361
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 02:55	WG1780361
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 02:55	WG1780361
1,1-Dichloroethene	U		0.188	1.00	1	11/30/2021 23:23	WG1782067
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 02:55	WG1780361
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 02:55	WG1780361
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 02:55	WG1780361
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 02:55	WG1780361
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 02:55	WG1780361
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 02:55	WG1780361
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 02:55	WG1780361
2,2-Dichloropropane	U	R7	0.161	1.00	1	11/27/2021 02:55	WG1780361
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 02:55	WG1780361
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 02:55	WG1780361
Ethylbenzene	U		0.137	1.00	1	11/27/2021 02:55	WG1780361
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 02:55	WG1780361
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 02:55	WG1780361
n-Hexane	U		0.749	10.0	1	11/27/2021 02:55	WG1780361
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 02:55	WG1780361
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 02:55	WG1780361
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 02:55	WG1780361
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 02:55	WG1780361
Methylene Chloride	U	L1	0.430	5.00	1	11/27/2021 02:55	WG1780361
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 02:55	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 02:55	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 02:55	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 02:55	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 02:55	WG1780361

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Styrene	U		0.118	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
Trichloroethene	U		0.190	1.00	1	11/30/2021 23:23	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 02:55	<a href="#">WG1780361</a>
(S) Toluene-d8	109			80.0-120		11/27/2021 02:55	<a href="#">WG1780361</a>
(S) Toluene-d8	102			80.0-120		11/30/2021 23:23	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	110			77.0-126		11/27/2021 02:55	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	108			77.0-126		11/30/2021 23:23	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/27/2021 02:55	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/30/2021 23:23	<a href="#">WG1782067</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/24/2021 19:45	<a href="#">WG1779946</a>
(S) Toluene-d8	100			77.0-127		11/24/2021 19:45	<a href="#">WG1779946</a>

## Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	U		0.300	4.00	1	12/07/2021 20:31	<a href="#">WG1786624</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,1-Dichloroethene	U		0.188	1.00	1	11/30/2021 23:44	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 03:15	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 03:15	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	L1	0.430	5.00	1	11/27/2021 03:15	WG1780361
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 03:15	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 03:15	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 03:15	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 03:15	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 03:15	WG1780361
Styrene	U		0.118	1.00	1	11/27/2021 03:15	WG1780361
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 03:15	WG1780361
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 03:15	WG1780361
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 03:15	WG1780361
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 03:15	WG1780361
Toluene	U		0.278	1.00	1	11/27/2021 03:15	WG1780361
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 03:15	WG1780361
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 03:15	WG1780361
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 03:15	WG1780361
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 03:15	WG1780361
Trichloroethene	U		0.190	1.00	1	11/30/2021 23:44	WG1782067
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 03:15	WG1780361
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 03:15	WG1780361
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 03:15	WG1780361
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 03:15	WG1780361
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 03:15	WG1780361
Vinyl chloride	U		0.234	1.00	1	11/27/2021 03:15	WG1780361
Xylenes, Total	U		0.174	3.00	1	11/27/2021 03:15	WG1780361
(S) Toluene-d8	109			80.0-120		11/27/2021 03:15	WG1780361
(S) Toluene-d8	104			80.0-120		11/30/2021 23:44	WG1782067
(S) 4-Bromofluorobenzene	110			77.0-126		11/27/2021 03:15	WG1780361
(S) 4-Bromofluorobenzene	106			77.0-126		11/30/2021 23:44	WG1782067
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/27/2021 03:15	WG1780361
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/30/2021 23:44	WG1782067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/24/2021 20:05	WG1779946
(S) Toluene-d8	90.3			77.0-127		11/24/2021 20:05	WG1779946



## Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	U		0.300	4.00	1	12/07/2021 21:27	<a href="#">WG1784394</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Acrolein	U	<u>R5</u>	2.54	50.0	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,1-Dichloroethene	U		0.188	1.00	1	12/01/2021 00:04	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	1.41		0.126	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<u>R7</u>	0.161	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 03:36	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 03:36	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	L1	0.430	5.00	1	11/27/2021 03:36	WG1780361
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 03:36	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 03:36	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 03:36	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 03:36	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 03:36	WG1780361
Styrene	U		0.118	1.00	1	11/27/2021 03:36	WG1780361
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 03:36	WG1780361
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 03:36	WG1780361
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 03:36	WG1780361
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 03:36	WG1780361
Toluene	U		0.278	1.00	1	11/27/2021 03:36	WG1780361
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 03:36	WG1780361
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 03:36	WG1780361
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 03:36	WG1780361
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 03:36	WG1780361
Trichloroethene	3.08		0.190	1.00	1	12/01/2021 00:04	WG1782067
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 03:36	WG1780361
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 03:36	WG1780361
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 03:36	WG1780361
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 03:36	WG1780361
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 03:36	WG1780361
Vinyl chloride	U		0.234	1.00	1	11/27/2021 03:36	WG1780361
Xylenes, Total	U		0.174	3.00	1	11/27/2021 03:36	WG1780361
(S) Toluene-d8	112			80.0-120		11/27/2021 03:36	WG1780361
(S) Toluene-d8	102			80.0-120		12/01/2021 00:04	WG1782067
(S) 4-Bromofluorobenzene	111			77.0-126		11/27/2021 03:36	WG1780361
(S) 4-Bromofluorobenzene	109			77.0-126		12/01/2021 00:04	WG1782067
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/27/2021 03:36	WG1780361
(S) 1,2-Dichloroethane-d4	107			70.0-130		12/01/2021 00:04	WG1782067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/24/2021 20:25	WG1779946
(S) Toluene-d8	99.0			77.0-127		11/24/2021 20:25	WG1779946

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	2520		30.0	400	100	12/08/2021 09:59	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,1-Dichloroethene	0.341	<a href="#">E4</a>	0.188	1.00	1	12/01/2021 00:25	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	2.48		0.126	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 03:56	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 03:56	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	L1	0.430	5.00	1	11/27/2021 03:56	WG1780361
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 03:56	WG1780361
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 03:56	WG1780361
Naphthalene	U		1.00	5.00	1	11/27/2021 03:56	WG1780361
Propene	U		0.936	2.50	1	11/27/2021 03:56	WG1780361
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 03:56	WG1780361
Styrene	U		0.118	1.00	1	11/27/2021 03:56	WG1780361
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 03:56	WG1780361
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 03:56	WG1780361
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 03:56	WG1780361
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 03:56	WG1780361
Toluene	U		0.278	1.00	1	11/27/2021 03:56	WG1780361
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 03:56	WG1780361
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 03:56	WG1780361
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 03:56	WG1780361
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 03:56	WG1780361
Trichloroethene	10.3		0.190	1.00	1	12/01/2021 00:25	WG1782067
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 03:56	WG1780361
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 03:56	WG1780361
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 03:56	WG1780361
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 03:56	WG1780361
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 03:56	WG1780361
Vinyl chloride	U		0.234	1.00	1	11/27/2021 03:56	WG1780361
Xylenes, Total	U		0.174	3.00	1	11/27/2021 03:56	WG1780361
(S) Toluene-d8	110			80.0-120		11/27/2021 03:56	WG1780361
(S) Toluene-d8	104			80.0-120		12/01/2021 00:25	WG1782067
(S) 4-Bromofluorobenzene	112			77.0-126		11/27/2021 03:56	WG1780361
(S) 4-Bromofluorobenzene	108			77.0-126		12/01/2021 00:25	WG1782067
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/27/2021 03:56	WG1780361
(S) 1,2-Dichloroethane-d4	110			70.0-130		12/01/2021 00:25	WG1782067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	5.90		0.597	3.00	1	11/29/2021 11:18	WG1780984
(S) Toluene-d8	100			77.0-127		11/29/2021 11:18	WG1780984

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	879000		3000	40000	10000	12/08/2021 00:15	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Benzene	405	<a href="#">E1</a>	0.0941	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Bromoform	2.94		0.129	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Chlorobenzene	3.05		0.116	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Chlorodibromomethane	0.816	<a href="#">E4</a>	0.140	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Chloroform	119		0.111	5.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	5.04		0.107	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	0.411	<a href="#">E4</a>	0.110	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	1.14		0.120	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1-Dichloroethane	75.6		0.100	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2-Dichloroethane	41.3		0.0819	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1-Dichloroethene	2820	<a href="#">E4</a>	940	5000	5000	12/01/2021 06:15	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	17.2		0.126	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	13.3		0.149	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Di-isopropyl ether	0.575	<a href="#">E4</a>	0.105	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Ethylbenzene	10.5		0.137	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
4-Ethyltoluene	1.98		0.208	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Isopropylbenzene	0.705	<a href="#">E4</a>	0.105	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
p-Isopropyltoluene	0.743	<a href="#">B1 E4</a>	0.120	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	124000		2150	25000	5000	12/01/2021 06:15	<a href="#">WG1782067</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Naphthalene	2.45	E4	1.00	5.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 04:17	<a href="#">WG1780361</a>
n-Propylbenzene	0.456	E4	0.0993	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Tetrachloroethene	87.4		0.300	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Toluene	194		0.278	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	0.842	E4	0.149	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	80.8		0.158	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Trichloroethene	93200		950	5000	5000	12/01/2021 06:15	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	0.379	E4	0.237	2.50	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	4.29		0.322	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	4.23		0.104	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	1.17		0.104	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Vinyl chloride	0.931	E4	0.234	1.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
Xylenes, Total	150		0.174	3.00	1	11/27/2021 04:17	<a href="#">WG1780361</a>
(S) Toluene-d8	105			80.0-120		11/27/2021 04:17	<a href="#">WG1780361</a>
(S) Toluene-d8	97.4			80.0-120		12/01/2021 06:15	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	111			77.0-126		11/27/2021 04:17	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	101			77.0-126		12/01/2021 06:15	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	123			70.0-130		11/27/2021 04:17	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		12/01/2021 06:15	<a href="#">WG1782067</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	3930		29.9	150	50	11/29/2021 12:17	<a href="#">WG1780984</a>
(S) Toluene-d8	94.1			77.0-127		11/29/2021 12:17	<a href="#">WG1780984</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	219000		1500	20000	5000	12/08/2021 00:43	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	12/01/2021 00:46	<a href="#">WG1782067</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Chloroform	0.464	<a href="#">E4</a>	0.111	5.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	0.291	<a href="#">E4</a>	0.107	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1-Dichloroethane	0.263	<a href="#">E4</a>	0.100	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1-Dichloroethene	36.7		0.188	1.00	1	12/01/2021 00:46	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Ethylbenzene	0.161	<a href="#">E4</a>	0.137	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Is

8  
Gl

9  
Al

10  
Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	12/01/2021 00:46	<a href="#">WG1782067</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 04:37	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Tetrachloroethene	1.40		0.300	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Toluene	0.491	<u>E4</u>	0.278	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	0.515	<u>E4</u>	0.158	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Trichloroethene	79.0		0.190	1.00	1	12/01/2021 00:46	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	0.242	<u>E4</u>	0.104	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
Xylenes, Total	1.94	<u>E4</u>	0.174	3.00	1	11/27/2021 04:37	<a href="#">WG1780361</a>
(S) Toluene-d8	112			80.0-120		11/27/2021 04:37	<a href="#">WG1780361</a>
(S) Toluene-d8	103			80.0-120		12/01/2021 00:46	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	109			77.0-126		11/27/2021 04:37	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	103			77.0-126		12/01/2021 00:46	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/27/2021 04:37	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		12/01/2021 00:46	<a href="#">WG1782067</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	112		0.597	3.00	1	11/29/2021 11:38	<a href="#">WG1780984</a>
(S) Toluene-d8	100			77.0-127		11/29/2021 11:38	<a href="#">WG1780984</a>



Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	66900		1500	20000	5000	12/08/2021 01:10	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Benzene	U		0.471	5.00	5	12/01/2021 01:47	<a href="#">WG1782067</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Chloroform	0.686	<a href="#">E4</a>	0.111	5.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1-Dichloroethane	0.367	<a href="#">E4</a>	0.100	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1-Dichloroethene	49.9		0.940	5.00	5	12/01/2021 01:47	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	0.726	<a href="#">E4</a>	0.126	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		2.15	25.0	5	12/01/2021 01:47	<a href="#">WG1782067</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 04:57	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Tetrachloroethene	0.768	E4	0.300	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	0.842	E4	0.158	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Trichloroethene	238		0.950	5.00	5	12/01/2021 01:47	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 04:57	<a href="#">WG1780361</a>
(S) Toluene-d8	113			80.0-120		11/27/2021 04:57	<a href="#">WG1780361</a>
(S) Toluene-d8	103			80.0-120		12/01/2021 01:47	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	108			77.0-126		11/27/2021 04:57	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	108			77.0-126		12/01/2021 01:47	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/27/2021 04:57	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		12/01/2021 01:47	<a href="#">WG1782067</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	158		0.597	3.00	1	11/24/2021 21:44	<a href="#">WG1779946</a>
(S) Toluene-d8	99.5			77.0-127		11/24/2021 21:44	<a href="#">WG1779946</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	434000		1500	20000	5000	12/08/2021 01:38	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Benzene	13.8		0.0941	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Chlorobenzene	0.361	<a href="#">E4</a>	0.116	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Chloroform	12.4		0.111	5.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	0.446	<a href="#">E4</a>	0.107	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	0.384	<a href="#">E4</a>	0.120	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1-Dichloroethane	9.59		0.100	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1-Dichloroethene	1070		18.8	100	100	12/01/2021 21:42	<a href="#">WG1782742</a>
cis-1,2-Dichloroethene	5.39		0.126	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	1.92		0.149	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Di-isopropyl ether	0.157	<a href="#">E4</a>	0.105	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		43.0	500	100	12/01/2021 21:42	<a href="#">WG1782742</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 05:18	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Tetrachloroethene	12.0		0.300	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	11.4		0.158	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Trichloroethene	8120		19.0	100	100	12/01/2021 21:42	<a href="#">WG1782742</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 05:18	<a href="#">WG1780361</a>
(S) Toluene-d8	113			80.0-120		11/27/2021 05:18	<a href="#">WG1780361</a>
(S) Toluene-d8	116			80.0-120		12/01/2021 21:42	<a href="#">WG1782742</a>
(S) 4-Bromofluorobenzene	114			77.0-126		11/27/2021 05:18	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	97.1			77.0-126		12/01/2021 21:42	<a href="#">WG1782742</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/27/2021 05:18	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		12/01/2021 21:42	<a href="#">WG1782742</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	909		2.99	15.0	5	11/29/2021 12:37	<a href="#">WG1780984</a>
(S) Toluene-d8	97.9			77.0-127		11/29/2021 12:37	<a href="#">WG1780984</a>

## Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	469000		1500	20000	5000	12/08/2021 02:06	<a href="#">WG1784394</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Benzene	13.4		0.0941	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Chlorobenzene	0.340	<a href="#">E4</a>	0.116	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Chloroform	12.5		0.111	5.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	0.508	<a href="#">E4</a>	0.107	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	0.277	<a href="#">E4</a>	0.120	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1-Dichloroethane	9.50		0.100	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1-Dichloroethene	904		18.8	100	100	12/01/2021 22:02	<a href="#">WG1782742</a>
cis-1,2-Dichloroethene	5.42		0.126	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	2.01		0.149	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Di-isopropyl ether	0.193	<a href="#">E4</a>	0.105	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Methyl Cyclohexane	115		0.660	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		43.0	500	100	12/01/2021 22:02	<a href="#">WG1782742</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 05:38	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Tetrachloroethene	12.1		0.300	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	11.0		0.158	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Trichloroethene	8010		19.0	100	100	12/01/2021 22:02	<a href="#">WG1782742</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 05:38	<a href="#">WG1780361</a>
(S) Toluene-d8	108			80.0-120		11/27/2021 05:38	<a href="#">WG1780361</a>
(S) Toluene-d8	119			80.0-120		12/01/2021 22:02	<a href="#">WG1782742</a>
(S) 4-Bromofluorobenzene	112			77.0-126		11/27/2021 05:38	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	91.9			77.0-126		12/01/2021 22:02	<a href="#">WG1782742</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/27/2021 05:38	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		12/01/2021 22:02	<a href="#">WG1782742</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	969		2.99	15.0	5	11/29/2021 12:57	<a href="#">WG1780984</a>
(S) Toluene-d8	98.6			77.0-127		11/29/2021 12:57	<a href="#">WG1780984</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	86700		1500	20000	5000	12/08/2021 02:34	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Benzene	1.19		0.0941	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Chloroform	1.66	<a href="#">E4</a>	0.111	5.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1-Dichloroethane	1.47		0.100	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1-Dichloroethene	85.8		3.76	20.0	20	12/01/2021 02:49	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	2.76		0.126	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	0.488	<a href="#">E4</a>	0.149	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		8.60	100	20	12/01/2021 02:49	<a href="#">WG1782067</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 05:58	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Tetrachloroethene	1.29		0.300	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	0.850	<a href="#">E4</a>	0.158	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Trichloroethene	755		3.80	20.0	20	12/01/2021 02:49	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 05:58	<a href="#">WG1780361</a>
(S) Toluene-d8	111			80.0-120		11/27/2021 05:58	<a href="#">WG1780361</a>
(S) Toluene-d8	101			80.0-120		12/01/2021 02:49	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	113			77.0-126		11/27/2021 05:58	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	108			77.0-126		12/01/2021 02:49	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/27/2021 05:58	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		12/01/2021 02:49	<a href="#">WG1782067</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	16.1		0.597	3.00	1	11/26/2021 16:33	<a href="#">WG1780446</a>
(S) Toluene-d8	98.8			77.0-127		11/26/2021 16:33	<a href="#">WG1780446</a>



Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	U	<u>R5</u>	0.300	4.00	1	12/08/2021 03:02	<a href="#">WG1784394</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Acrolein	U	<u>M1</u>	2.54	50.0	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U	<u>M1</u>	0.374	5.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1-Dichloroethene	U		0.188	1.00	1	12/01/2021 01:06	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	0.148	<u>E4</u>	0.126	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
2,2-Dichloropropane	U		0.161	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	12/01/2021 01:06	<a href="#">WG1782067</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 06:19	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Trichloroethene	6.91		0.190	1.00	1	12/01/2021 01:06	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 06:19	<a href="#">WG1780361</a>
(S) Toluene-d8	111			80.0-120		11/27/2021 06:19	<a href="#">WG1780361</a>
(S) Toluene-d8	102			80.0-120		12/01/2021 01:06	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	110			77.0-126		11/27/2021 06:19	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	108			77.0-126		12/01/2021 01:06	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		11/27/2021 06:19	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		12/01/2021 01:06	<a href="#">WG1782067</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/26/2021 16:53	<a href="#">WG1780446</a>
(S) Toluene-d8	98.2			77.0-127		11/26/2021 16:53	<a href="#">WG1780446</a>

## Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	40.1		0.300	4.00	1	12/08/2021 05:22	<a href="#">WG1784394</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Acrolein	U	<a href="#">R5</a>	2.54	50.0	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Acrylonitrile	U		0.671	10.0	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Benzene	U		0.0941	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Bromobenzene	U		0.118	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Bromodichloromethane	U		0.136	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Bromoform	U		0.129	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Bromomethane	U		0.605	5.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,3-Butadiene	U		0.299	2.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
n-Butylbenzene	U		0.157	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
sec-Butylbenzene	U		0.125	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
tert-Butylbenzene	U		0.127	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Carbon tetrachloride	U		0.128	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Carbon disulfide	U		0.0962	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Chlorobenzene	U		0.116	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Chlorodibromomethane	U		0.140	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Chloroethane	U		0.192	5.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Chloroform	U		0.111	5.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Chloromethane	U		0.960	2.50	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Cyclohexane	U		0.188	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
2-Chlorotoluene	U		0.106	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
4-Chlorotoluene	U		0.114	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Dibromomethane	U		0.122	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1-Dichloroethene	U		0.188	1.00	1	12/01/2021 01:27	<a href="#">WG1782067</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
2,2-Dichloropropane	U	<a href="#">R7</a>	0.161	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Dicyclopentadiene	U		0.253	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Di-isopropyl ether	U		0.105	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Ethylbenzene	U		0.137	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
4-Ethyltoluene	U		0.208	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
n-Hexane	U		0.749	10.0	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Isopropylbenzene	U		0.105	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	12/01/2021 01:27	<a href="#">WG1782067</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Naphthalene	U		1.00	5.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Propene	U		0.936	2.50	1	11/27/2021 06:39	<a href="#">WG1780361</a>
n-Propylbenzene	U		0.0993	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Styrene	U		0.118	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Tetrachloroethene	U		0.300	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Toluene	U		0.278	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Trichloroethene	U		0.190	1.00	1	12/01/2021 01:27	<a href="#">WG1782067</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Vinyl chloride	U		0.234	1.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
Xylenes, Total	U		0.174	3.00	1	11/27/2021 06:39	<a href="#">WG1780361</a>
(S) Toluene-d8	107			80.0-120		11/27/2021 06:39	<a href="#">WG1780361</a>
(S) Toluene-d8	103			80.0-120		12/01/2021 01:27	<a href="#">WG1782067</a>
(S) 4-Bromofluorobenzene	110			77.0-126		11/27/2021 06:39	<a href="#">WG1780361</a>
(S) 4-Bromofluorobenzene	109			77.0-126		12/01/2021 01:27	<a href="#">WG1782067</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		11/27/2021 06:39	<a href="#">WG1780361</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		12/01/2021 01:27	<a href="#">WG1782067</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/29/2021 13:36	<a href="#">WG1780650</a>
(S) Toluene-d8	100			77.0-127		11/29/2021 13:36	<a href="#">WG1780650</a>

## Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	U		0.300	4.00	1	12/10/2021 18:17	<a href="#">WG1789817</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Acrolein	U		2.54	50.0	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Acrylonitrile	U		0.671	10.0	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Benzene	U		0.0941	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Bromobenzene	U		0.118	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Bromodichloromethane	U		0.136	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Bromoform	U		0.129	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Bromomethane	U		0.605	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,3-Butadiene	U		0.299	2.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
n-Butylbenzene	U		0.157	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
sec-Butylbenzene	U		0.125	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
tert-Butylbenzene	U		0.127	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Carbon tetrachloride	U		0.128	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Carbon disulfide	U		0.0962	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Chlorobenzene	U		0.116	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Chlorodibromomethane	U		0.140	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Chloroethane	U		0.192	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Chloroform	U		0.111	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Chloromethane	U		0.960	2.50	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Cyclohexane	U		0.188	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
2-Chlorotoluene	U		0.106	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
4-Chlorotoluene	U		0.114	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Dibromomethane	U		0.122	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1-Dichloroethene	U		0.188	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
2,2-Dichloropropane	U		0.161	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Dicyclopentadiene	U		0.253	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Di-isopropyl ether	U		0.105	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Ethylbenzene	U		0.137	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
4-Ethyltoluene	U		0.208	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
n-Hexane	U		0.749	10.0	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Isopropylbenzene	U		0.105	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Naphthalene	U		1.00	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Propene	U		0.936	2.50	1	11/28/2021 13:03	<a href="#">WG1780831</a>
n-Propylbenzene	U		0.0993	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Styrene	U		0.118	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Tetrachloroethene	U		0.300	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Toluene	U		0.278	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Trichloroethene	U		0.190	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Vinyl chloride	U		0.234	1.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
Xylenes, Total	U		0.174	3.00	1	11/28/2021 13:03	<a href="#">WG1780831</a>
(S) Toluene-d8	103			80.0-120		11/28/2021 13:03	<a href="#">WG1780831</a>
(S) 4-Bromofluorobenzene	99.5			77.0-126		11/28/2021 13:03	<a href="#">WG1780831</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/28/2021 13:03	<a href="#">WG1780831</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/26/2021 17:33	<a href="#">WG1780446</a>
(S) Toluene-d8	93.5			77.0-127		11/26/2021 17:33	<a href="#">WG1780446</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	161	M3	3.00	40.0	10	12/10/2021 19:14	WG1784397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/28/2021 13:24	WG1780831
Acrolein	U	R5	2.54	50.0	1	11/28/2021 13:24	WG1780831
Acrylonitrile	U		0.671	10.0	1	11/28/2021 13:24	WG1780831
Benzene	U	R5	0.0941	1.00	1	11/28/2021 13:24	WG1780831
Bromobenzene	U	R5	0.118	1.00	1	11/28/2021 13:24	WG1780831
Bromodichloromethane	U	R5	0.136	1.00	1	11/28/2021 13:24	WG1780831
Bromoform	U		0.129	1.00	1	11/28/2021 13:24	WG1780831
Bromomethane	U	R5	0.605	5.00	1	11/28/2021 13:24	WG1780831
1,3-Butadiene	U		0.299	2.00	1	11/28/2021 13:24	WG1780831
n-Butylbenzene	U		0.157	1.00	1	11/28/2021 13:24	WG1780831
sec-Butylbenzene	U	R5	0.125	1.00	1	11/28/2021 13:24	WG1780831
tert-Butylbenzene	U	R5	0.127	1.00	1	11/28/2021 13:24	WG1780831
Carbon tetrachloride	U	R5	0.128	1.00	1	11/28/2021 13:24	WG1780831
Carbon disulfide	U	R5	0.0962	1.00	1	11/28/2021 13:24	WG1780831
Chlorobenzene	U		0.116	1.00	1	11/28/2021 13:24	WG1780831
Chlorodibromomethane	U		0.140	1.00	1	11/28/2021 13:24	WG1780831
Chloroethane	U	R5	0.192	5.00	1	11/28/2021 13:24	WG1780831
Chloroform	U	R5	0.111	5.00	1	11/28/2021 13:24	WG1780831
Chloromethane	U	R5	0.960	2.50	1	11/28/2021 13:24	WG1780831
Cyclohexane	U	R5	0.188	1.00	1	11/28/2021 13:24	WG1780831
2-Chlorotoluene	U	R5	0.106	1.00	1	11/28/2021 13:24	WG1780831
4-Chlorotoluene	U	R5	0.114	1.00	1	11/28/2021 13:24	WG1780831
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/28/2021 13:24	WG1780831
1,2-Dibromoethane	U	R5	0.126	1.00	1	11/28/2021 13:24	WG1780831
Dibromomethane	U		0.122	1.00	1	11/28/2021 13:24	WG1780831
1,2-Dichlorobenzene	U	R5	0.107	1.00	1	11/28/2021 13:24	WG1780831
1,3-Dichlorobenzene	U	R5	0.110	1.00	1	11/28/2021 13:24	WG1780831
1,4-Dichlorobenzene	U		0.120	1.00	1	11/28/2021 13:24	WG1780831
Dichlorodifluoromethane	U	R5	0.374	5.00	1	11/28/2021 13:24	WG1780831
1,1-Dichloroethane	U	R5	0.100	1.00	1	11/28/2021 13:24	WG1780831
1,2-Dichloroethane	U	R5	0.0819	1.00	1	11/28/2021 13:24	WG1780831
1,1-Dichloroethene	U		0.188	1.00	1	11/28/2021 13:24	WG1780831
cis-1,2-Dichloroethene	U	R5	0.126	1.00	1	11/28/2021 13:24	WG1780831
trans-1,2-Dichloroethene	U	R5	0.149	1.00	1	11/28/2021 13:24	WG1780831
1,2-Dichloropropane	U	R5	0.149	1.00	1	11/28/2021 13:24	WG1780831
1,1-Dichloropropene	U	R5	0.142	1.00	1	11/28/2021 13:24	WG1780831
1,3-Dichloropropane	U		0.110	1.00	1	11/28/2021 13:24	WG1780831
cis-1,3-Dichloropropene	U	R5	0.111	1.00	1	11/28/2021 13:24	WG1780831
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/28/2021 13:24	WG1780831
2,2-Dichloropropane	U	R5	0.161	1.00	1	11/28/2021 13:24	WG1780831
Dicyclopentadiene	U	M2 R5	0.253	1.00	1	11/28/2021 13:24	WG1780831
Di-isopropyl ether	U	R5	0.105	1.00	1	11/28/2021 13:24	WG1780831
Ethylbenzene	U		0.137	1.00	1	11/28/2021 13:24	WG1780831
4-Ethyltoluene	U	R5	0.208	1.00	1	11/28/2021 13:24	WG1780831
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/28/2021 13:24	WG1780831
n-Hexane	U		0.749	10.0	1	11/28/2021 13:24	WG1780831
Isopropylbenzene	U	R5	0.105	1.00	1	11/28/2021 13:24	WG1780831
p-Isopropyltoluene	U		0.120	1.00	1	11/28/2021 13:24	WG1780831
2-Butanone (MEK)	U		1.19	10.0	1	11/28/2021 13:24	WG1780831
Methyl Cyclohexane	U	R5	0.660	1.00	1	11/28/2021 13:24	WG1780831

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U	<u>R5</u>	0.430	5.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Methyl tert-butyl ether	U	<u>M2 R5</u>	0.101	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Naphthalene	U		1.00	5.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Propene	U	<u>R5</u>	0.936	2.50	1	11/28/2021 13:24	<a href="#">WG1780831</a>
n-Propylbenzene	U		0.0993	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Styrene	U	<u>R5</u>	0.118	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,1,1,2-Tetrachloroethane	U	<u>R5</u>	0.147	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Tetrachloroethene	U	<u>R5</u>	0.300	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Toluene	U	<u>R5</u>	0.278	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,1,1-Trichloroethane	U	<u>R5</u>	0.149	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Trichloroethene	U	<u>R5</u>	0.190	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Trichlorofluoromethane	U	<u>R5</u>	0.160	5.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,2,4-Trimethylbenzene	U	<u>R5</u>	0.322	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,2,3-Trimethylbenzene	U	<u>R5</u>	0.104	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
1,3,5-Trimethylbenzene	U	<u>R5</u>	0.104	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Vinyl chloride	U	<u>R5</u>	0.234	1.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
Xylenes, Total	U	<u>R5</u>	0.174	3.00	1	11/28/2021 13:24	<a href="#">WG1780831</a>
(S) Toluene-d8	101			80.0-120		11/28/2021 13:24	<a href="#">WG1780831</a>
(S) 4-Bromofluorobenzene	102			77.0-126		11/28/2021 13:24	<a href="#">WG1780831</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/28/2021 13:24	<a href="#">WG1780831</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/26/2021 17:53	<a href="#">WG1780446</a>
(S) Toluene-d8	99.6			77.0-127		11/26/2021 17:53	<a href="#">WG1780446</a>



Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	10.5	R8	0.300	4.00	1	12/10/2021 21:36	WG1789817

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/28/2021 13:44	WG1780831
Acrolein	U		2.54	50.0	1	11/28/2021 13:44	WG1780831
Acrylonitrile	U		0.671	10.0	1	11/28/2021 13:44	WG1780831
Benzene	0.122	E4	0.0941	1.00	1	11/28/2021 13:44	WG1780831
Bromobenzene	U		0.118	1.00	1	11/28/2021 13:44	WG1780831
Bromodichloromethane	U		0.136	1.00	1	11/28/2021 13:44	WG1780831
Bromoform	U		0.129	1.00	1	11/28/2021 13:44	WG1780831
Bromomethane	U		0.605	5.00	1	11/28/2021 13:44	WG1780831
1,3-Butadiene	U		0.299	2.00	1	11/28/2021 13:44	WG1780831
n-Butylbenzene	U		0.157	1.00	1	11/28/2021 13:44	WG1780831
sec-Butylbenzene	U		0.125	1.00	1	11/28/2021 13:44	WG1780831
tert-Butylbenzene	U		0.127	1.00	1	11/28/2021 13:44	WG1780831
Carbon tetrachloride	U		0.128	1.00	1	11/28/2021 13:44	WG1780831
Carbon disulfide	U		0.0962	1.00	1	11/28/2021 13:44	WG1780831
Chlorobenzene	U		0.116	1.00	1	11/28/2021 13:44	WG1780831
Chlorodibromomethane	U		0.140	1.00	1	11/28/2021 13:44	WG1780831
Chloroethane	U		0.192	5.00	1	11/28/2021 13:44	WG1780831
Chloroform	U		0.111	5.00	1	11/28/2021 13:44	WG1780831
Chloromethane	U		0.960	2.50	1	11/28/2021 13:44	WG1780831
Cyclohexane	U		0.188	1.00	1	11/28/2021 13:44	WG1780831
2-Chlorotoluene	U		0.106	1.00	1	11/28/2021 13:44	WG1780831
4-Chlorotoluene	U		0.114	1.00	1	11/28/2021 13:44	WG1780831
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/28/2021 13:44	WG1780831
1,2-Dibromoethane	U		0.126	1.00	1	11/28/2021 13:44	WG1780831
Dibromomethane	U		0.122	1.00	1	11/28/2021 13:44	WG1780831
1,2-Dichlorobenzene	U		0.107	1.00	1	11/28/2021 13:44	WG1780831
1,3-Dichlorobenzene	U		0.110	1.00	1	11/28/2021 13:44	WG1780831
1,4-Dichlorobenzene	U		0.120	1.00	1	11/28/2021 13:44	WG1780831
Dichlorodifluoromethane	U		0.374	5.00	1	11/28/2021 13:44	WG1780831
1,1-Dichloroethane	U		0.100	1.00	1	11/28/2021 13:44	WG1780831
1,2-Dichloroethane	U		0.0819	1.00	1	11/28/2021 13:44	WG1780831
1,1-Dichloroethene	U		0.188	1.00	1	11/28/2021 13:44	WG1780831
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/28/2021 13:44	WG1780831
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/28/2021 13:44	WG1780831
1,2-Dichloropropane	U		0.149	1.00	1	11/28/2021 13:44	WG1780831
1,1-Dichloropropene	U		0.142	1.00	1	11/28/2021 13:44	WG1780831
1,3-Dichloropropane	U		0.110	1.00	1	11/28/2021 13:44	WG1780831
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/28/2021 13:44	WG1780831
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/28/2021 13:44	WG1780831
2,2-Dichloropropane	U		0.161	1.00	1	11/28/2021 13:44	WG1780831
Dicyclopentadiene	U		0.253	1.00	1	11/28/2021 13:44	WG1780831
Di-isopropyl ether	U		0.105	1.00	1	11/28/2021 13:44	WG1780831
Ethylbenzene	U		0.137	1.00	1	11/28/2021 13:44	WG1780831
4-Ethyltoluene	U		0.208	1.00	1	11/28/2021 13:44	WG1780831
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/28/2021 13:44	WG1780831
n-Hexane	U		0.749	10.0	1	11/28/2021 13:44	WG1780831
Isopropylbenzene	0.186	E4	0.105	1.00	1	11/28/2021 13:44	WG1780831
p-Isopropyltoluene	U		0.120	1.00	1	11/28/2021 13:44	WG1780831
2-Butanone (MEK)	U		1.19	10.0	1	11/28/2021 13:44	WG1780831
Methyl Cyclohexane	U		0.660	1.00	1	11/28/2021 13:44	WG1780831

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Naphthalene	U		1.00	5.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Propene	U		0.936	2.50	1	11/28/2021 13:44	<a href="#">WG1780831</a>
n-Propylbenzene	U		0.0993	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Styrene	U		0.118	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Tetrachloroethene	U		0.300	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Toluene	1.19		0.278	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Trichloroethene	U		0.190	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Vinyl chloride	U		0.234	1.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
Xylenes, Total	0.253	<a href="#">E4</a>	0.174	3.00	1	11/28/2021 13:44	<a href="#">WG1780831</a>
(S) Toluene-d8	101			80.0-120		11/28/2021 13:44	<a href="#">WG1780831</a>
(S) 4-Bromofluorobenzene	98.6			77.0-126		11/28/2021 13:44	<a href="#">WG1780831</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/28/2021 13:44	<a href="#">WG1780831</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/26/2021 18:12	<a href="#">WG1780446</a>
(S) Toluene-d8	100			77.0-127		11/26/2021 18:12	<a href="#">WG1780446</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	14.8		0.300	4.00	1	12/10/2021 22:33	<a href="#">WG1789817</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Acrolein	U		2.54	50.0	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Acrylonitrile	U		0.671	10.0	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Benzene	U		0.0941	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Bromobenzene	U		0.118	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Bromodichloromethane	U		0.136	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Bromoform	U		0.129	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Bromomethane	U		0.605	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,3-Butadiene	U		0.299	2.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
n-Butylbenzene	U		0.157	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
sec-Butylbenzene	U		0.125	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
tert-Butylbenzene	U		0.127	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Carbon tetrachloride	U		0.128	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Carbon disulfide	U		0.0962	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Chlorobenzene	U		0.116	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Chlorodibromomethane	U		0.140	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Chloroethane	U		0.192	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Chloroform	U		0.111	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Chloromethane	U		0.960	2.50	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Cyclohexane	U		0.188	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
2-Chlorotoluene	U		0.106	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
4-Chlorotoluene	U		0.114	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2-Dibromoethane	U		0.126	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Dibromomethane	U		0.122	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Dichlorodifluoromethane	U		0.374	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1-Dichloroethane	U		0.100	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2-Dichloroethane	U		0.0819	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1-Dichloroethene	U		0.188	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2-Dichloropropane	U		0.149	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1-Dichloropropene	U		0.142	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,3-Dichloropropane	U		0.110	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
2,2-Dichloropropane	U		0.161	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Dicyclopentadiene	U		0.253	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Di-isopropyl ether	U		0.105	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Ethylbenzene	U		0.137	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
4-Ethyltoluene	U		0.208	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
n-Hexane	U		0.749	10.0	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Isopropylbenzene	U		0.105	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
p-Isopropyltoluene	U		0.120	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
2-Butanone (MEK)	U		1.19	10.0	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Methyl Cyclohexane	U		0.660	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Methyl tert-butyl ether	U		0.101	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Naphthalene	U		1.00	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Propene	U		0.936	2.50	1	11/28/2021 14:05	<a href="#">WG1780831</a>
n-Propylbenzene	U		0.0993	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Styrene	U		0.118	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Tetrachloroethene	U		0.300	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Toluene	U		0.278	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Trichloroethene	U		0.190	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Vinyl chloride	U		0.234	1.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
Xylenes, Total	U		0.174	3.00	1	11/28/2021 14:05	<a href="#">WG1780831</a>
(S) Toluene-d8	105			80.0-120		11/28/2021 14:05	<a href="#">WG1780831</a>
(S) 4-Bromofluorobenzene	105			77.0-126		11/28/2021 14:05	<a href="#">WG1780831</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/28/2021 14:05	<a href="#">WG1780831</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/26/2021 18:32	<a href="#">WG1780446</a>
(S) Toluene-d8	100			77.0-127		11/26/2021 18:32	<a href="#">WG1780446</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	11/28/2021 12:42	WG1780831
Acrolein	U		2.54	50.0	1	11/28/2021 12:42	WG1780831
Acrylonitrile	U		0.671	10.0	1	11/28/2021 12:42	WG1780831
Benzene	U		0.0941	1.00	1	11/28/2021 12:42	WG1780831
Bromobenzene	U		0.118	1.00	1	11/28/2021 12:42	WG1780831
Bromodichloromethane	U		0.136	1.00	1	11/28/2021 12:42	WG1780831
Bromoform	U		0.129	1.00	1	11/28/2021 12:42	WG1780831
Bromomethane	U		0.605	5.00	1	11/28/2021 12:42	WG1780831
1,3-Butadiene	U		0.299	2.00	1	11/28/2021 12:42	WG1780831
n-Butylbenzene	U		0.157	1.00	1	11/28/2021 12:42	WG1780831
sec-Butylbenzene	U		0.125	1.00	1	11/28/2021 12:42	WG1780831
tert-Butylbenzene	U		0.127	1.00	1	11/28/2021 12:42	WG1780831
Carbon tetrachloride	U		0.128	1.00	1	11/28/2021 12:42	WG1780831
Carbon disulfide	U		0.0962	1.00	1	11/28/2021 12:42	WG1780831
Chlorobenzene	U		0.116	1.00	1	11/28/2021 12:42	WG1780831
Chlorodibromomethane	U		0.140	1.00	1	11/28/2021 12:42	WG1780831
Chloroethane	U		0.192	5.00	1	11/28/2021 12:42	WG1780831
Chloroform	U		0.111	5.00	1	11/28/2021 12:42	WG1780831
Chloromethane	U		0.960	2.50	1	11/28/2021 12:42	WG1780831
Cyclohexane	U		0.188	1.00	1	11/28/2021 12:42	WG1780831
2-Chlorotoluene	U		0.106	1.00	1	11/28/2021 12:42	WG1780831
4-Chlorotoluene	U		0.114	1.00	1	11/28/2021 12:42	WG1780831
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/28/2021 12:42	WG1780831
1,2-Dibromoethane	U		0.126	1.00	1	11/28/2021 12:42	WG1780831
Dibromomethane	U		0.122	1.00	1	11/28/2021 12:42	WG1780831
1,2-Dichlorobenzene	U		0.107	1.00	1	11/28/2021 12:42	WG1780831
1,3-Dichlorobenzene	U		0.110	1.00	1	11/28/2021 12:42	WG1780831
1,4-Dichlorobenzene	U		0.120	1.00	1	11/28/2021 12:42	WG1780831
Dichlorodifluoromethane	U		0.374	5.00	1	11/28/2021 12:42	WG1780831
1,1-Dichloroethane	U		0.100	1.00	1	11/28/2021 12:42	WG1780831
1,2-Dichloroethane	U		0.0819	1.00	1	11/28/2021 12:42	WG1780831
1,1-Dichloroethene	U		0.188	1.00	1	11/28/2021 12:42	WG1780831
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/28/2021 12:42	WG1780831
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/28/2021 12:42	WG1780831
1,2-Dichloropropane	U		0.149	1.00	1	11/28/2021 12:42	WG1780831
1,1-Dichloropropene	U		0.142	1.00	1	11/28/2021 12:42	WG1780831
1,3-Dichloropropane	U		0.110	1.00	1	11/28/2021 12:42	WG1780831
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/28/2021 12:42	WG1780831
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/28/2021 12:42	WG1780831
2,2-Dichloropropane	U		0.161	1.00	1	11/28/2021 12:42	WG1780831
Dicyclopentadiene	U		0.253	1.00	1	11/28/2021 12:42	WG1780831
Di-isopropyl ether	U		0.105	1.00	1	11/28/2021 12:42	WG1780831
Ethylbenzene	U		0.137	1.00	1	11/28/2021 12:42	WG1780831
4-Ethyltoluene	U		0.208	1.00	1	11/28/2021 12:42	WG1780831
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/28/2021 12:42	WG1780831
n-Hexane	U		0.749	10.0	1	11/28/2021 12:42	WG1780831
Isopropylbenzene	U		0.105	1.00	1	11/28/2021 12:42	WG1780831
p-Isopropyltoluene	U		0.120	1.00	1	11/28/2021 12:42	WG1780831
2-Butanone (MEK)	U		1.19	10.0	1	11/28/2021 12:42	WG1780831
Methyl Cyclohexane	U		0.660	1.00	1	11/28/2021 12:42	WG1780831
Methylene Chloride	U		0.430	5.00	1	11/28/2021 12:42	WG1780831
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/28/2021 12:42	WG1780831
Methyl tert-butyl ether	U		0.101	1.00	1	11/28/2021 12:42	WG1780831
Naphthalene	U		1.00	5.00	1	11/28/2021 12:42	WG1780831
Propene	U		0.936	2.50	1	11/28/2021 12:42	WG1780831
n-Propylbenzene	U		0.0993	1.00	1	11/28/2021 12:42	WG1780831

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Is  
8 Gl  
9 Al  
10 Sc

TRIP BLANK

SAMPLE RESULTS - 25

Collected date/time: 11/18/21 00:00

L1433723

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Styrene	U		0.118	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
Tetrachloroethene	U		0.300	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
Toluene	U		0.278	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
Trichloroethene	U		0.190	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
Trichlorofluoromethane	U		0.160	5.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
Vinyl chloride	U		0.234	1.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
Xylenes, Total	U		0.174	3.00	1	11/28/2021 12:42	<a href="#">WG1780831</a>
(S) Toluene-d8	101			80.0-120		11/28/2021 12:42	<a href="#">WG1780831</a>
(S) 4-Bromofluorobenzene	97.6			77.0-126		11/28/2021 12:42	<a href="#">WG1780831</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/28/2021 12:42	<a href="#">WG1780831</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3738779-1 12/07/21 11:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Perchlorate	U		0.300	4.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1433723-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1433723-11 12/07/21 21:27 • (DUP) R3738779-3 12/07/21 22:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Perchlorate	U	U	1	0.000		15

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

L1433723-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1433723-20 12/08/21 05:22 • (DUP) R3738779-6 12/08/21 05:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Perchlorate	40.1	38.7	1	3.52		15

<sup>10</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3738779-2 12/07/21 12:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Perchlorate	10.0	9.63	96.3	90.0-110	

L1433723-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-19 12/08/21 03:02 • (MS) R3738779-4 12/08/21 04:26 • (MSD) R3738779-5 12/08/21 04:54

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Perchlorate	10.0	U	9.80	11.5	98.0	115	1	80.0-120		R5	16.1	15

Method Blank (MB)

(MB) R3740926-1 12/10/21 15:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Perchlorate	U		0.300	4.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1434064-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1434064-01 12/10/21 23:58 • (DUP) R3740926-5 12/11/21 00:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Perchlorate	8.95	8.65	1	3.37		15

Laboratory Control Sample (LCS)

(LCS) R3740926-2 12/10/21 16:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Perchlorate	10.0	9.68	96.8	90.0-110	

L1433723-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-22 12/10/21 19:14 • (MS) R3740926-3 12/10/21 19:43 • (MSD) R3740926-4 12/10/21 20:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Perchlorate	10.0	161	167	164	58.5	26.7	10	80.0-120	M3	M3	1.93	15



Method Blank (MB)

(MB) R3738792-2 12/07/21 12:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Perchlorate	U		0.300	4.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3738792-1 12/07/21 12:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Perchlorate	10.0	9.63	96.3	90.0-110	

<sup>4</sup>Cn

<sup>5</sup>Sr

L1433723-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1433723-01 12/07/21 14:29 • (MS) R3738792-3 12/07/21 14:56

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Perchlorate	10.0	6.41	15.5	90.9	1	80.0-120	

<sup>6</sup>Qc

<sup>7</sup>Is

L1433723-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1433723-02 12/07/21 15:24 • (MS) R3738792-4 12/07/21 15:52

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Perchlorate	10.0	6.59	16.0	93.7	1	80.0-120	

<sup>8</sup>Gl

<sup>9</sup>Al

L1433723-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1433723-08 12/07/21 19:36 • (MS) R3738792-5 12/07/21 20:03

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Perchlorate	10.0	U	9.79	97.9	1	80.0-120	

<sup>10</sup>Sc

L1433723-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1433723-10 12/07/21 20:31 • (MS) R3738792-6 12/07/21 20:59

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Perchlorate	10.0	U	9.90	99.0	1	80.0-120	

Method Blank (MB)

(MB) R3740927-2 12/10/21 17:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Perchlorate	U		0.300	4.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

L1433723-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1433723-23 12/10/21 21:36 • (DUP) R3740927-4 12/10/21 22:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Perchlorate	10.5	12.3	1	16.5	R8	15

<sup>5</sup>Sr

<sup>6</sup>Qc

Laboratory Control Sample (LCS)

(LCS) R3740927-1 12/10/21 16:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Perchlorate	10.0	9.68	96.8	90.0-110	

<sup>7</sup>Is

<sup>8</sup>Gl

L1433723-21 Original Sample (OS) • Matrix Spike (MS)

(OS) L1433723-21 12/10/21 18:17 • (MS) R3740927-3 12/10/21 18:46

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Perchlorate	10.0	U	10.7	107	1	80.0-120	

<sup>9</sup>Al

<sup>10</sup>Sc

L1433723-23 Original Sample (OS) • Matrix Spike (MS)

(OS) L1433723-23 12/10/21 21:36 • (MS) R3740927-5 12/11/21 08:58

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Perchlorate	10.0	10.5	20.9	105	1	80.0-120	

L1434171-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-03 12/11/21 00:55 • (MS) R3740927-6 12/11/21 09:55

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Perchlorate	10.0	2.27	13.0	107	1	80.0-120	

L1434171-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-04 12/11/21 01:24 • (MS) R3740927-7 12/11/21 10:23

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	U	12.7	127	1	80.0-120	M1

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1434171-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-05 12/11/21 01:52 • (MS) R3740927-8 12/11/21 10:52

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	3.55	13.9	104	1	80.0-120	

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

L1434171-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-06 12/11/21 03:17 • (MS) R3740927-9 12/11/21 11:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	3.26	14.6	113	1	80.0-120	

<sup>10</sup>Sc

L1434171-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-07 12/11/21 03:46 • (MS) R3740927-10 12/11/21 11:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	3.46	14.2	107	1	80.0-120	

L1434171-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-08 12/11/21 04:14 • (MS) R3740927-11 12/11/21 12:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	3.99	14.7	107	1	80.0-120	

L1434171-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-09 12/11/21 04:42 • (MS) R3740927-12 12/11/21 12:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	3.31	13.8	105	1	80.0-120	

L1434171-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-10 12/11/21 05:11 • (MS) R3740927-13 12/11/21 13:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	3.34	13.8	105	1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1434171-100 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-100 12/11/21 05:39 • (MS) R3740927-14 12/11/21 14:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	3.15	13.6	105	1	80.0-120	

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

L1434171-102 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-102 12/11/21 06:36 • (MS) R3740927-15 12/11/21 15:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	2.86	13.2	103	1	80.0-120	

<sup>10</sup>Sc

L1434171-103 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-103 12/11/21 07:05 • (MS) R3740927-16 12/11/21 15:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	0.999	11.7	107	1	80.0-120	

L1434171-104 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434171-104 12/11/21 07:33 • (MS) R3740927-17 12/11/21 16:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Perchlorate	10.0	7.99	18.5	105	1	80.0-120	

Method Blank (MB)

(MB) R3735465-3 11/26/21 23:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
1,3-Butadiene	U		0.299	2.00
n-Butylbenzene	0.197	E4	0.157	1.00
sec-Butylbenzene	0.163	E4	0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3735465-3 11/26/21 23:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dicyclopentadiene	U		0.253	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
4-Ethyltoluene	U		0.208	1.00
Hexachloro-1,3-butadiene	0.584	E4	0.337	1.00
n-Hexane	U		0.749	10.0
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	0.124	E4	0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
Propene	U		0.936	2.50
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	0.520	E4	0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	111			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3735465-1 11/26/21 22:51 • (LCSD) R3735465-2 11/26/21 23:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	24.0	26.7	96.0	107	19.0-160			10.7	27
Acrolein	25.0	28.9	20.4	116	81.6	30.0-160		R7	34.5	26
Acrylonitrile	25.0	26.0	26.3	104	105	55.0-149			1.15	20
Benzene	5.00	5.08	5.32	102	106	70.0-123			4.62	20
Bromobenzene	5.00	4.59	4.91	91.8	98.2	73.0-121			6.74	20
Bromodichloromethane	5.00	5.33	5.42	107	108	75.0-120			1.67	20
Bromoform	5.00	5.05	5.14	101	103	68.0-132			1.77	20
Bromomethane	5.00	4.85	5.21	97.0	104	30.0-160			7.16	25
1,3-Butadiene	5.00	5.38	6.33	108	127	45.0-147			16.2	20
n-Butylbenzene	5.00	4.68	5.44	93.6	109	73.0-125			15.0	20
sec-Butylbenzene	5.00	4.59	5.51	91.8	110	75.0-125			18.2	20
tert-Butylbenzene	5.00	4.92	5.47	98.4	109	76.0-124			10.6	20
Carbon disulfide	5.00	5.20	5.21	104	104	61.0-128			0.192	20
Carbon tetrachloride	5.00	5.38	5.89	108	118	68.0-126			9.05	20
Chlorobenzene	5.00	5.02	5.58	100	112	80.0-121			10.6	20
Chlorodibromomethane	5.00	5.02	5.28	100	106	77.0-125			5.05	20
Chloroethane	5.00	4.97	5.42	99.4	108	47.0-150			8.66	20
Chloroform	5.00	5.16	5.47	103	109	73.0-120			5.83	20
Chloromethane	5.00	5.96	5.04	119	101	41.0-142			16.7	20
Cyclohexane	5.00	5.03	5.53	101	111	71.0-124			9.47	20
2-Chlorotoluene	5.00	4.58	4.95	91.6	99.0	76.0-123			7.76	20
4-Chlorotoluene	5.00	4.77	4.91	95.4	98.2	75.0-122			2.89	20
1,2-Dibromo-3-Chloropropane	5.00	4.89	5.36	97.8	107	58.0-134			9.17	20
1,2-Dibromoethane	5.00	5.33	5.21	107	104	80.0-122			2.28	20
Dibromomethane	5.00	5.40	5.43	108	109	80.0-120			0.554	20
1,2-Dichlorobenzene	5.00	5.21	5.41	104	108	79.0-121			3.77	20
1,3-Dichlorobenzene	5.00	4.84	5.36	96.8	107	79.0-120			10.2	20
1,4-Dichlorobenzene	5.00	4.59	4.90	91.8	98.0	79.0-120			6.53	20
Dichlorodifluoromethane	5.00	5.65	6.12	113	122	51.0-149			7.99	20
1,1-Dichloroethane	5.00	4.94	5.51	98.8	110	70.0-126			10.9	20
1,2-Dichloroethane	5.00	4.99	5.19	99.8	104	70.0-128			3.93	20
1,1-Dichloroethene	5.00	5.04	5.71	101	114	71.0-124			12.5	20
cis-1,2-Dichloroethene	5.00	5.01	5.62	100	112	73.0-120			11.5	20
trans-1,2-Dichloroethene	5.00	5.02	5.82	100	116	73.0-120			14.8	20
1,2-Dichloropropane	5.00	4.96	5.24	99.2	105	77.0-125			5.49	20
1,1-Dichloropropene	5.00	5.31	5.74	106	115	74.0-126			7.78	20
1,3-Dichloropropane	5.00	5.20	5.19	104	104	80.0-120			0.192	20
cis-1,3-Dichloropropene	5.00	5.38	4.89	108	97.8	80.0-123			9.54	20
trans-1,3-Dichloropropene	5.00	4.88	4.91	97.6	98.2	78.0-124			0.613	20
2,2-Dichloropropane	5.00	5.55	3.91	111	78.2	58.0-130		R7	34.7	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3735465-1 11/26/21 22:51 • (LCSD) R3735465-2 11/26/21 23:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	5.00	4.75	5.50	95.0	110	74.0-126			14.6	20
Di-isopropyl ether	5.00	5.40	5.69	108	114	58.0-138			5.23	20
Ethylbenzene	5.00	5.01	5.67	100	113	79.0-123			12.4	20
4-Ethyltoluene	5.00	4.74	5.39	94.8	108	74.0-127			12.8	20
Hexachloro-1,3-butadiene	5.00	5.55	6.02	111	120	54.0-138			8.12	20
n-Hexane	5.00	4.96	4.54	99.2	90.8	57.0-133			8.84	20
Isopropylbenzene	5.00	5.09	5.78	102	116	76.0-127			12.7	20
p-Isopropyltoluene	5.00	4.81	5.56	96.2	111	76.0-125			14.5	20
2-Butanone (MEK)	25.0	25.5	27.3	102	109	44.0-160			6.82	20
Methyl Cyclohexane	5.00	4.75	5.33	95.0	107	68.0-126			11.5	20
Methylene Chloride	5.00	5.79	6.13	116	123	67.0-120		L1	5.70	20
4-Methyl-2-pentanone (MIBK)	25.0	25.1	26.5	100	106	68.0-142			5.43	20
Methyl tert-butyl ether	5.00	5.41	5.68	108	114	68.0-125			4.87	20
Naphthalene	5.00	5.22	5.77	104	115	54.0-135			10.0	20
Propene	5.00	4.00	4.39	80.0	87.8	30.0-160			9.30	20
n-Propylbenzene	5.00	4.52	5.16	90.4	103	77.0-124			13.2	20
Styrene	5.00	4.92	5.51	98.4	110	73.0-130			11.3	20
1,1,1,2-Tetrachloroethane	5.00	5.21	5.48	104	110	75.0-125			5.05	20
1,1,2,2-Tetrachloroethane	5.00	4.98	4.20	99.6	84.0	65.0-130			17.0	20
Tetrachloroethene	5.00	4.77	5.78	95.4	116	72.0-132			19.1	20
Toluene	5.00	4.88	5.31	97.6	106	79.0-120			8.44	20
1,1,2-Trichlorotrifluoroethane	5.00	4.77	5.55	95.4	111	69.0-132			15.1	20
1,2,3-Trichlorobenzene	5.00	5.67	6.21	113	124	50.0-138			9.09	20
1,2,4-Trichlorobenzene	5.00	5.06	5.72	101	114	57.0-137			12.2	20
1,1,1-Trichloroethane	5.00	5.17	5.82	103	116	73.0-124			11.8	20
1,1,2-Trichloroethane	5.00	5.00	5.02	100	100	80.0-120			0.399	20
Trichloroethene	5.00	4.98	6.28	99.6	126	78.0-124		L1 R7	23.1	20
Trichlorofluoromethane	5.00	5.05	5.80	101	116	59.0-147			13.8	20
1,2,3-Trichloropropane	5.00	4.71	5.11	94.2	102	73.0-130			8.15	20
1,2,3-Trimethylbenzene	5.00	4.87	5.19	97.4	104	77.0-120			6.36	20
1,2,4-Trimethylbenzene	5.00	5.03	5.47	101	109	76.0-121			8.38	20
1,3,5-Trimethylbenzene	5.00	4.92	5.38	98.4	108	76.0-122			8.93	20
Vinyl chloride	5.00	4.80	5.36	96.0	107	67.0-131			11.0	20
Xylenes, Total	15.0	15.8	16.9	105	113	79.0-123			6.73	20
(S) Toluene-d8				110	106	80.0-120				
(S) 4-Bromofluorobenzene				114	114	77.0-126				
(S) 1,2-Dichloroethane-d4				106	106	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc



L1433723-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-19 11/27/21 06:19 • (MS) R3735465-4 11/27/21 06:59 • (MSD) R3735465-5 11/27/21 07:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	26.2	28.2	105	113	1	10.0-160			7.35	35
Acrolein	25.0	U	44.9	48.5	180	194	1	10.0-160	M1	M1	7.71	39
Acrylonitrile	25.0	U	29.2	30.8	117	123	1	21.0-160			5.33	32
Benzene	5.00	U	6.09	6.32	122	126	1	17.0-158			3.71	27
Bromobenzene	5.00	U	5.34	5.50	107	110	1	30.0-149			2.95	28
Bromodichloromethane	5.00	U	6.65	6.81	133	136	1	31.0-150			2.38	27
Bromoform	5.00	U	5.60	6.12	112	122	1	29.0-150			8.87	29
Bromomethane	5.00	U	6.37	6.37	127	127	1	10.0-160			0.000	38
1,3-Butadiene	5.00	U	7.64	7.08	153	142	1	10.0-160			7.61	22
n-Butylbenzene	5.00	U	5.68	6.35	114	127	1	31.0-150			11.1	30
sec-Butylbenzene	5.00	U	6.13	6.35	123	127	1	33.0-155			3.53	29
tert-Butylbenzene	5.00	U	6.20	6.49	124	130	1	34.0-153			4.57	28
Carbon disulfide	5.00	U	5.63	5.58	113	112	1	10.0-156			0.892	28
Carbon tetrachloride	5.00	U	7.43	7.20	149	144	1	23.0-159			3.14	28
Chlorobenzene	5.00	U	6.24	6.41	125	128	1	33.0-152			2.69	27
Chlorodibromomethane	5.00	U	6.18	6.21	124	124	1	37.0-149			0.484	27
Chloroethane	5.00	U	5.96	6.01	119	120	1	10.0-160			0.835	30
Chloroform	5.00	U	6.21	6.54	124	131	1	29.0-154			5.18	28
Chloromethane	5.00	U	6.06	6.27	121	125	1	10.0-160			3.41	29
Cyclohexane	5.00	U	6.37	6.11	127	122	1	19.0-160			4.17	23
2-Chlorotoluene	5.00	U	5.81	5.87	116	117	1	32.0-153			1.03	28
4-Chlorotoluene	5.00	U	5.56	5.96	111	119	1	32.0-150			6.94	28
1,2-Dibromo-3-Chloropropane	5.00	U	5.52	5.60	110	112	1	22.0-151			1.44	34
1,2-Dibromoethane	5.00	U	6.04	6.38	121	128	1	34.0-147			5.48	27
Dibromomethane	5.00	U	6.47	6.43	129	129	1	30.0-151			0.620	27
1,2-Dichlorobenzene	5.00	U	5.97	6.20	119	124	1	34.0-149			3.78	28
1,3-Dichlorobenzene	5.00	U	5.79	6.09	116	122	1	36.0-146			5.05	27
1,4-Dichlorobenzene	5.00	U	5.48	5.83	110	117	1	35.0-142			6.19	27
Dichlorodifluoromethane	5.00	U	8.11	7.46	162	149	1	10.0-160	M1		8.35	29
1,1-Dichloroethane	5.00	U	6.32	6.54	126	131	1	25.0-158			3.42	27
1,2-Dichloroethane	5.00	U	6.55	6.56	131	131	1	29.0-151			0.153	27
1,1-Dichloroethene	5.00	0.842	6.88	6.61	121	115	1	11.0-160			4.00	29
cis-1,2-Dichloroethene	5.00	0.148	6.72	6.59	131	129	1	10.0-160			1.95	27
trans-1,2-Dichloroethene	5.00	U	6.29	6.61	126	132	1	17.0-153			4.96	27
1,2-Dichloropropane	5.00	U	5.90	6.25	118	125	1	30.0-156			5.76	27
1,1-Dichloropropene	5.00	U	6.98	6.52	140	130	1	25.0-158			6.81	27
1,3-Dichloropropane	5.00	U	5.54	6.26	111	125	1	38.0-147			12.2	27
cis-1,3-Dichloropropene	5.00	U	5.79	6.06	116	121	1	34.0-149			4.56	28
trans-1,3-Dichloropropene	5.00	U	5.64	5.74	113	115	1	32.0-149			1.76	28
2,2-Dichloropropane	5.00	U	6.18	6.15	124	123	1	24.0-152			0.487	29

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1433723-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-19 11/27/21 06:19 • (MS) R3735465-4 11/27/21 06:59 • (MSD) R3735465-5 11/27/21 07:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	5.00	U	5.92	6.03	118	121	1	51.0-139			1.84	20
Di-isopropyl ether	5.00	U	6.24	6.52	125	130	1	21.0-160			4.39	28
Ethylbenzene	5.00	U	6.14	6.50	123	130	1	30.0-155			5.70	27
4-Ethyltoluene	5.00	U	5.65	6.15	113	123	1	10.0-160			8.47	20
Hexachloro-1,3-butadiene	5.00	U	6.36	5.99	127	120	1	20.0-154			5.99	34
n-Hexane	5.00	U	5.79	5.80	116	116	1	10.0-153			0.173	28
Isopropylbenzene	5.00	U	6.40	6.96	128	139	1	28.0-157			8.38	27
p-Isopropyltoluene	5.00	U	6.08	6.36	122	127	1	30.0-154			4.50	29
2-Butanone (MEK)	25.0	U	29.1	30.4	116	122	1	10.0-160			4.37	32
Methyl Cyclohexane	5.00	U	6.27	6.31	125	126	1	11.0-160			0.636	24
Methylene Chloride	5.00	11.5	13.7	12.9	44.0	28.0	1	23.0-144			6.02	28
4-Methyl-2-pentanone (MIBK)	25.0	U	27.9	30.8	112	123	1	29.0-160			9.88	29
Methyl tert-butyl ether	5.00	U	6.91	7.06	138	141	1	28.0-150			2.15	29
Naphthalene	5.00	U	5.06	6.15	101	123	1	12.0-156			19.4	35
Propene	5.00	U	6.27	5.57	125	111	1	10.0-160			11.8	29
n-Propylbenzene	5.00	U	5.57	5.93	111	119	1	31.0-154			6.26	28
Styrene	5.00	U	5.88	6.53	118	131	1	33.0-155			10.5	28
1,1,1,2-Tetrachloroethane	5.00	U	6.13	6.65	123	133	1	36.0-151			8.14	29
1,1,2,2-Tetrachloroethane	5.00	U	6.17	6.24	123	125	1	33.0-150			1.13	28
Tetrachloroethene	5.00	U	6.25	6.78	125	136	1	10.0-160			8.14	27
Toluene	5.00	U	5.82	6.22	116	124	1	26.0-154			6.64	28
1,1,2-Trichlorotrifluoroethane	5.00	U	7.00	7.00	140	140	1	23.0-160			0.000	30
1,2,3-Trichlorobenzene	5.00	U	5.75	6.72	115	134	1	17.0-150			15.6	36
1,2,4-Trichlorobenzene	5.00	U	5.60	6.42	112	128	1	24.0-150			13.6	33
1,1,1-Trichloroethane	5.00	U	6.96	7.36	139	147	1	23.0-160			5.59	28
1,1,2-Trichloroethane	5.00	U	5.64	6.09	113	122	1	35.0-147			7.67	27
Trichloroethene	5.00	23.4	20.5	19.4	0.000	0.000	1	10.0-160	M3	M3	5.51	25
Trichlorofluoromethane	5.00	U	7.38	7.33	148	147	1	17.0-160			0.680	31
1,2,3-Trichloropropane	5.00	U	5.13	5.21	103	104	1	34.0-151			1.55	29
1,2,3-Trimethylbenzene	5.00	U	5.74	5.95	115	119	1	32.0-149			3.59	28
1,2,4-Trimethylbenzene	5.00	U	5.90	6.39	118	128	1	26.0-154			7.97	27
1,3,5-Trimethylbenzene	5.00	U	5.99	6.43	120	129	1	28.0-153			7.09	27
Vinyl chloride	5.00	U	6.36	6.36	127	127	1	10.0-160			0.000	27
Xylenes, Total	15.0	U	18.2	19.7	121	131	1	29.0-154			7.92	28
(S) Toluene-d8					108	108		80.0-120				
(S) 4-Bromofluorobenzene					109	115		77.0-126				
(S) 1,2-Dichloroethane-d4					112	109		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3735912-3 11/28/21 11:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
1,3-Butadiene	U		0.299	2.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3735912-3 11/28/21 11:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dicyclopentadiene	U		0.253	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
4-Ethyltoluene	U		0.208	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00
n-Hexane	U		0.749	10.0
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
Propene	U		0.936	2.50
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3735912-1 11/28/21 10:57 • (LCSD) R3735912-2 11/28/21 11:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	31.8	25.2	127	101	19.0-160			23.2	27
Acrolein	25.0	19.9	15.9	79.6	63.6	30.0-160			22.3	26
Acrylonitrile	25.0	25.5	24.8	102	99.2	55.0-149			2.78	20
Benzene	5.00	4.38	4.25	87.6	85.0	70.0-123			3.01	20
Bromobenzene	5.00	4.82	4.83	96.4	96.6	73.0-121			0.207	20
Bromodichloromethane	5.00	4.75	4.73	95.0	94.6	75.0-120			0.422	20
Bromoform	5.00	6.28	5.62	126	112	68.0-132			11.1	20
Bromomethane	5.00	4.66	4.63	93.2	92.6	30.0-160			0.646	25
1,3-Butadiene	5.00	3.85	3.47	77.0	69.4	45.0-147			10.4	20
n-Butylbenzene	5.00	4.65	4.70	93.0	94.0	73.0-125			1.07	20
sec-Butylbenzene	5.00	4.89	4.81	97.8	96.2	75.0-125			1.65	20
tert-Butylbenzene	5.00	5.06	4.85	101	97.0	76.0-124			4.24	20
Carbon disulfide	5.00	4.48	4.00	89.6	80.0	61.0-128			11.3	20
Carbon tetrachloride	5.00	6.06	5.55	121	111	68.0-126			8.79	20
Chlorobenzene	5.00	4.80	4.81	96.0	96.2	80.0-121			0.208	20
Chlorodibromomethane	5.00	5.03	4.57	101	91.4	77.0-125			9.58	20
Chloroethane	5.00	4.03	4.79	80.6	95.8	47.0-150			17.2	20
Chloroform	5.00	4.82	4.87	96.4	97.4	73.0-120			1.03	20
Chloromethane	5.00	5.03	4.41	101	88.2	41.0-142			13.1	20
Cyclohexane	5.00	5.13	4.22	103	84.4	71.0-124			19.5	20
2-Chlorotoluene	5.00	5.11	4.75	102	95.0	76.0-123			7.30	20
4-Chlorotoluene	5.00	4.60	4.45	92.0	89.0	75.0-122			3.31	20
1,2-Dibromo-3-Chloropropane	5.00	5.79	5.63	116	113	58.0-134			2.80	20
1,2-Dibromoethane	5.00	5.42	5.04	108	101	80.0-122			7.27	20
Dibromomethane	5.00	5.01	4.65	100	93.0	80.0-120			7.45	20
1,2-Dichlorobenzene	5.00	4.87	4.90	97.4	98.0	79.0-121			0.614	20
1,3-Dichlorobenzene	5.00	4.99	4.70	99.8	94.0	79.0-120			5.99	20
1,4-Dichlorobenzene	5.00	4.54	4.87	90.8	97.4	79.0-120			7.01	20
Dichlorodifluoromethane	5.00	4.84	4.97	96.8	99.4	51.0-149			2.65	20
1,1-Dichloroethane	5.00	5.19	4.81	104	96.2	70.0-126			7.60	20
1,2-Dichloroethane	5.00	5.18	5.08	104	102	70.0-128			1.95	20
1,1-Dichloroethene	5.00	4.56	4.58	91.2	91.6	71.0-124			0.438	20
cis-1,2-Dichloroethene	5.00	5.29	4.62	106	92.4	73.0-120			13.5	20
trans-1,2-Dichloroethene	5.00	5.02	4.49	100	89.8	73.0-120			11.1	20
1,2-Dichloropropane	5.00	4.67	4.30	93.4	86.0	77.0-125			8.25	20
1,1-Dichloropropene	5.00	4.77	4.50	95.4	90.0	74.0-126			5.83	20
1,3-Dichloropropane	5.00	4.89	4.86	97.8	97.2	80.0-120			0.615	20
cis-1,3-Dichloropropene	5.00	5.18	4.71	104	94.2	80.0-123			9.50	20
trans-1,3-Dichloropropene	5.00	5.20	5.25	104	105	78.0-124			0.957	20
2,2-Dichloropropane	5.00	4.95	4.47	99.0	89.4	58.0-130			10.2	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3735912-1 11/28/21 10:57 • (LCSD) R3735912-2 11/28/21 11:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	5.00	4.73	4.62	94.6	92.4	74.0-126			2.35	20
Di-isopropyl ether	5.00	4.16	3.92	83.2	78.4	58.0-138			5.94	20
Ethylbenzene	5.00	4.88	4.93	97.6	98.6	79.0-123			1.02	20
4-Ethyltoluene	5.00	4.94	4.84	98.8	96.8	74.0-127			2.04	20
Hexachloro-1,3-butadiene	5.00	5.09	4.95	102	99.0	54.0-138			2.79	20
n-Hexane	5.00	3.59	3.78	71.8	75.6	57.0-133			5.16	20
Isopropylbenzene	5.00	5.18	5.10	104	102	76.0-127			1.56	20
p-Isopropyltoluene	5.00	5.19	5.10	104	102	76.0-125			1.75	20
2-Butanone (MEK)	25.0	26.7	25.7	107	103	44.0-160			3.82	20
Methyl Cyclohexane	5.00	5.57	5.85	111	117	68.0-126			4.90	20
Methylene Chloride	5.00	4.50	4.11	90.0	82.2	67.0-120			9.06	20
4-Methyl-2-pentanone (MIBK)	25.0	27.1	25.4	108	102	68.0-142			6.48	20
Methyl tert-butyl ether	5.00	5.84	4.80	117	96.0	68.0-125			19.5	20
Naphthalene	5.00	4.98	5.14	99.6	103	54.0-135			3.16	20
Propene	5.00	4.10	3.43	82.0	68.6	30.0-160			17.8	20
n-Propylbenzene	5.00	4.76	4.73	95.2	94.6	77.0-124			0.632	20
Styrene	5.00	5.09	5.18	102	104	73.0-130			1.75	20
1,1,1,2-Tetrachloroethane	5.00	4.92	4.75	98.4	95.0	75.0-125			3.52	20
1,1,2,2-Tetrachloroethane	5.00	4.46	4.29	89.2	85.8	65.0-130			3.89	20
Tetrachloroethene	5.00	4.80	4.38	96.0	87.6	72.0-132			9.15	20
Toluene	5.00	5.21	5.06	104	101	79.0-120			2.92	20
1,1,2-Trichlorotrifluoroethane	5.00	3.65	3.57	73.0	71.4	69.0-132			2.22	20
1,2,3-Trichlorobenzene	5.00	5.43	5.07	109	101	50.0-138			6.86	20
1,2,4-Trichlorobenzene	5.00	4.63	4.85	92.6	97.0	57.0-137			4.64	20
1,1,1-Trichloroethane	5.00	5.66	5.07	113	101	73.0-124			11.0	20
1,1,2-Trichloroethane	5.00	4.62	4.78	92.4	95.6	80.0-120			3.40	20
Trichloroethene	5.00	4.39	4.49	87.8	89.8	78.0-124			2.25	20
Trichlorofluoromethane	5.00	5.04	5.16	101	103	59.0-147			2.35	20
1,2,3-Trichloropropane	5.00	4.97	5.24	99.4	105	73.0-130			5.29	20
1,2,3-Trimethylbenzene	5.00	4.64	4.71	92.8	94.2	77.0-120			1.50	20
1,2,4-Trimethylbenzene	5.00	4.88	4.91	97.6	98.2	76.0-121			0.613	20
1,3,5-Trimethylbenzene	5.00	4.76	4.82	95.2	96.4	76.0-122			1.25	20
Vinyl chloride	5.00	4.55	4.18	91.0	83.6	67.0-131			8.48	20
Xylenes, Total	15.0	14.9	14.1	99.3	94.0	79.0-123			5.52	20
(S) Toluene-d8				102	99.7	80.0-120				
(S) 4-Bromofluorobenzene				101	100	77.0-126				
(S) 1,2-Dichloroethane-d4				114	113	70.0-130				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

L1433723-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-22 11/28/21 13:24 • (MS) R3735912-4 11/28/21 19:31 • (MSD) R3735912-5 11/28/21 19:52

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	25.9	30.7	104	123	1	10.0-160			17.0	35
Acrolein	25.0	U	10.0	19.2	40.0	76.8	1	10.0-160		R5	63.0	39
Acrylonitrile	25.0	U	20.0	24.6	80.0	98.4	1	21.0-160			20.6	32
Benzene	5.00	U	2.25	3.07	45.0	61.4	1	17.0-158		R5	30.8	27
Bromobenzene	5.00	U	2.90	3.99	58.0	79.8	1	30.0-149		R5	31.6	28
Bromodichloromethane	5.00	U	2.62	3.56	52.4	71.2	1	31.0-150		R5	30.4	27
Bromoform	5.00	U	4.43	5.40	88.6	108	1	29.0-150			19.7	29
Bromomethane	5.00	U	1.47	2.67	29.4	53.4	1	10.0-160		R5	58.0	38
1,3-Butadiene	5.00	U	2.44	2.31	48.8	46.2	1	10.0-160			5.47	22
n-Butylbenzene	5.00	U	2.07	2.71	41.4	54.2	1	31.0-150			26.8	30
sec-Butylbenzene	5.00	U	2.37	3.33	47.4	66.6	1	33.0-155		R5	33.7	29
tert-Butylbenzene	5.00	U	2.64	3.63	52.8	72.6	1	34.0-153		R5	31.6	28
Carbon disulfide	5.00	U	2.08	2.76	41.6	55.2	1	10.0-156		R5	28.1	28
Carbon tetrachloride	5.00	U	2.89	4.17	57.8	83.4	1	23.0-159		R5	36.3	28
Chlorobenzene	5.00	U	2.71	3.42	54.2	68.4	1	33.0-152			23.2	27
Chlorodibromomethane	5.00	U	3.14	4.03	62.8	80.6	1	37.0-149			24.8	27
Chloroethane	5.00	U	1.68	2.55	33.6	51.0	1	10.0-160		R5	41.1	30
Chloroform	5.00	U	2.63	3.79	52.6	75.8	1	29.0-154		R5	36.1	28
Chloromethane	5.00	U	2.12	3.20	42.4	64.0	1	10.0-160		R5	40.6	29
Cyclohexane	5.00	U	1.68	2.95	33.6	59.0	1	19.0-160		R5	54.9	23
2-Chlorotoluene	5.00	U	2.60	3.86	52.0	77.2	1	32.0-153		R5	39.0	28
4-Chlorotoluene	5.00	U	2.54	3.39	50.8	67.8	1	32.0-150		R5	28.7	28
1,2-Dibromo-3-Chloropropane	5.00	U	4.21	4.99	84.2	99.8	1	22.0-151			17.0	34
1,2-Dibromoethane	5.00	U	3.49	4.69	69.8	93.8	1	34.0-147		R5	29.3	27
Dibromomethane	5.00	U	3.06	3.90	61.2	78.0	1	30.0-151			24.1	27
1,2-Dichlorobenzene	5.00	U	3.14	4.28	62.8	85.6	1	34.0-149		R5	30.7	28
1,3-Dichlorobenzene	5.00	U	2.75	3.67	55.0	73.4	1	36.0-146		R5	28.7	27
1,4-Dichlorobenzene	5.00	U	3.01	3.50	60.2	70.0	1	35.0-142			15.1	27
Dichlorodifluoromethane	5.00	U	1.95	2.79	39.0	55.8	1	10.0-160		R5	35.4	29
1,1-Dichloroethane	5.00	U	2.44	3.77	48.8	75.4	1	25.0-158		R5	42.8	27
1,2-Dichloroethane	5.00	U	2.97	4.40	59.4	88.0	1	29.0-151		R5	38.8	27
1,1-Dichloroethene	5.00	U	1.96	2.53	39.2	50.6	1	11.0-160			25.4	29
cis-1,2-Dichloroethene	5.00	U	2.64	3.80	52.8	76.0	1	10.0-160		R5	36.0	27
trans-1,2-Dichloroethene	5.00	U	2.43	3.76	48.6	75.2	1	17.0-153		R5	43.0	27
1,2-Dichloropropane	5.00	U	2.49	3.55	49.8	71.0	1	30.0-156		R5	35.1	27
1,1-Dichloropropene	5.00	U	2.06	3.16	41.2	63.2	1	25.0-158		R5	42.1	27
1,3-Dichloropropane	5.00	U	3.40	3.93	68.0	78.6	1	38.0-147			14.5	27
cis-1,3-Dichloropropene	5.00	U	2.64	3.81	52.8	76.2	1	34.0-149		R5	36.3	28
trans-1,3-Dichloropropene	5.00	U	3.40	4.31	68.0	86.2	1	32.0-149			23.6	28
2,2-Dichloropropane	5.00	U	2.36	3.39	47.2	67.8	1	24.0-152		R5	35.8	29

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1433723-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-22 11/28/21 13:24 • (MS) R3735912-4 11/28/21 19:31 • (MSD) R3735912-5 11/28/21 19:52

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	5.00	U	1.00	1.98	20.0	39.6	1	51.0-139	M2	M2 R5	65.8	20
Di-isopropyl ether	5.00	U	2.42	3.26	48.4	65.2	1	21.0-160		R5	29.6	28
Ethylbenzene	5.00	U	2.65	3.25	53.0	65.0	1	30.0-155			20.3	27
4-Ethyltoluene	5.00	U	2.44	3.27	48.8	65.4	1	10.0-160		R5	29.1	20
Hexachloro-1,3-butadiene	5.00	U	2.20	2.98	44.0	59.6	1	20.0-154			30.1	34
n-Hexane	5.00	U	1.82	2.27	36.4	45.4	1	10.0-153			22.0	28
Isopropylbenzene	5.00	U	2.59	3.46	51.8	69.2	1	28.0-157		R5	28.8	27
p-Isopropyltoluene	5.00	U	2.53	3.34	50.6	66.8	1	30.0-154			27.6	29
2-Butanone (MEK)	25.0	U	21.4	26.2	85.6	105	1	10.0-160			20.2	32
Methyl Cyclohexane	5.00	U	2.05	3.10	41.0	62.0	1	11.0-160		R5	40.8	24
Methylene Chloride	5.00	U	2.02	3.57	40.4	71.4	1	23.0-144		R5	55.5	28
4-Methyl-2-pentanone (MIBK)	25.0	U	20.8	24.0	83.2	96.0	1	29.0-160			14.3	29
Methyl tert-butyl ether	5.00	U	3.61	U	72.2	0.000	1	28.0-150		M2 R5	200	29
Naphthalene	5.00	U	3.74	4.57	74.8	91.4	1	12.0-156			20.0	35
Propene	5.00	U	1.57	2.61	31.4	52.2	1	10.0-160		R5	49.8	29
n-Propylbenzene	5.00	U	2.32	3.00	46.4	60.0	1	31.0-154			25.6	28
Styrene	5.00	U	2.54	3.43	50.8	68.6	1	33.0-155		R5	29.8	28
1,1,1,2-Tetrachloroethane	5.00	U	2.92	4.12	58.4	82.4	1	36.0-151		R5	34.1	29
1,1,2,2-Tetrachloroethane	5.00	U	3.60	4.33	72.0	86.6	1	33.0-150			18.4	28
Tetrachloroethene	5.00	U	4.75	3.20	95.0	64.0	1	10.0-160		R5	39.0	27
Toluene	5.00	U	2.66	3.54	53.2	70.8	1	26.0-154		R5	28.4	28
1,1,2-Trichlorotrifluoroethane	5.00	U	2.20	2.72	44.0	54.4	1	23.0-160			21.1	30
1,2,3-Trichlorobenzene	5.00	U	3.51	3.96	70.2	79.2	1	17.0-150			12.0	36
1,2,4-Trichlorobenzene	5.00	U	2.47	3.30	49.4	66.0	1	24.0-150			28.8	33
1,1,1-Trichloroethane	5.00	U	2.64	3.90	52.8	78.0	1	23.0-160		R5	38.5	28
1,1,2-Trichloroethane	5.00	U	3.25	3.76	65.0	75.2	1	35.0-147			14.6	27
Trichloroethene	5.00	U	2.16	3.09	43.2	61.8	1	10.0-160		R5	35.4	25
Trichlorofluoromethane	5.00	U	2.21	3.31	44.2	66.2	1	17.0-160		R5	39.9	31
1,2,3-Trichloropropane	5.00	U	4.15	4.37	83.0	87.4	1	34.0-151			5.16	29
1,2,3-Trimethylbenzene	5.00	U	2.62	3.74	52.4	74.8	1	32.0-149		R5	35.2	28
1,2,4-Trimethylbenzene	5.00	U	2.40	3.48	48.0	69.6	1	26.0-154		R5	36.7	27
1,3,5-Trimethylbenzene	5.00	U	2.32	3.40	46.4	68.0	1	28.0-153		R5	37.8	27
Vinyl chloride	5.00	U	1.81	2.88	36.2	57.6	1	10.0-160		R5	45.6	27
Xylenes, Total	15.0	U	7.37	10.4	49.1	69.3	1	29.0-154		R5	34.1	28
(S) Toluene-d8					100	99.2		80.0-120				
(S) 4-Bromofluorobenzene					105	98.0		77.0-126				
(S) 1,2-Dichloroethane-d4					114	116		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc



Method Blank (MB)

(MB) R3736006-3 11/30/21 20:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.0941	1.00
1,1-Dichloroethene	U		0.188	1.00
Methylene Chloride	U		0.430	5.00
Trichloroethene	U		0.190	1.00
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	111			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3736006-1 11/30/21 19:36 • (LCSD) R3736006-2 11/30/21 19:57

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	5.00	4.29	4.63	85.8	92.6	70.0-123			7.62	20
1,1-Dichloroethene	5.00	4.30	4.73	86.0	94.6	71.0-124			9.52	20
Methylene Chloride	5.00	4.77	5.22	95.4	104	67.0-120			9.01	20
Trichloroethene	5.00	5.10	5.65	102	113	78.0-124			10.2	20
(S) Toluene-d8				100	100	80.0-120				
(S) 4-Bromofluorobenzene				106	107	77.0-126				
(S) 1,2-Dichloroethane-d4				110	111	70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3736099-3 12/01/21 17:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
1,1-Dichloroethene	U		0.188	1.00
Methylene Chloride	U		0.430	5.00
Trichloroethene	U		0.190	1.00
(S) Toluene-d8	113			80.0-120
(S) 4-Bromofluorobenzene	98.3			77.0-126
(S) 1,2-Dichloroethane-d4	98.8			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3736099-1 12/01/21 16:17 • (LCSD) R3736099-2 12/01/21 16:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
1,1-Dichloroethene	5.00	5.42	5.51	108	110	71.0-124			1.65	20
Methylene Chloride	5.00	5.87	5.56	117	111	67.0-120			5.42	20
Trichloroethene	5.00	5.88	5.92	118	118	78.0-124			0.678	20
(S) Toluene-d8				116	113	80.0-120				
(S) 4-Bromofluorobenzene				97.4	100	77.0-126				
(S) 1,2-Dichloroethane-d4				94.1	97.8	70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3734498-3 11/24/21 11:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	101			77.0-127

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3734498-1 11/24/21 10:12 • (LCSD) R3734498-2 11/24/21 10:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
1,4-Dioxane	50.0	45.2	44.4	90.4	88.8	55.0-138			1.79	24
(S) Toluene-d8				101	102	77.0-127				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3734241-3 11/26/21 11:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	99.8			77.0-127

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3734241-1 11/26/21 10:21 • (LCSD) R3734241-2 11/26/21 10:42

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
1,4-Dioxane	50.0	47.8	40.6	95.6	81.2	55.0-138			16.3	24
(S) Toluene-d8				100	101	77.0-127				

L1433723-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-19 11/26/21 16:53 • (MS) R3734241-4 11/26/21 19:52 • (MSD) R3734241-5 11/26/21 20:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
1,4-Dioxane	50.0	U	43.6	36.3	87.2	72.6	1	13.0-160			18.3	31
(S) Toluene-d8					102	101		77.0-127				

L1433723-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433723-22 11/26/21 17:53 • (MS) R3734241-6 11/26/21 20:32 • (MSD) R3734241-7 11/26/21 20:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
1,4-Dioxane	50.0	U	37.2	35.5	74.4	71.0	1	13.0-160			4.68	31
(S) Toluene-d8					90.7	101		77.0-127				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3735638-3 11/29/21 09:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	93.3			77.0-127

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3735638-1 11/29/21 08:00 • (LCSD) R3735638-2 11/29/21 08:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	56.0	50.9	112	102	55.0-138			9.54	24
(S) Toluene-d8				101	101	77.0-127				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3735639-3 11/29/21 09:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	93.3			77.0-127

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3735639-1 11/29/21 08:00 • (LCSD) R3735639-2 11/29/21 08:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
1,4-Dioxane	50.0	56.0	50.9	112	102	55.0-138			9.54	24
(S) Toluene-d8				101	101	77.0-127				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

# INTERNAL STANDARD SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260B

## Instrument: VOCMS20 • File ID: 1201A\_04

12/01/21 16:17

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	1201A_04	280187	100955	159471
Upper Limit		560374	201910	318942
Lower Limit		140094	50478	79736
LCS R3736099-1 WG1782742 1x	1201A_04LCS	280187	100955	159471
LCSD R3736099-2 WG1782742 1x	1201A_05	269506	102985	166064
BLANK R3736099-3 WG1782742 1x	1201A_08	222771	83522	142886
L1433723-16 WG1782742 100x	1201A_19	197336	70778	108860
L1433723-17 WG1782742 100x	1201A_20	214468	78525	106775
L1433723-07 WG1782742 200x	1201A_21	198917	70558	106311

## Instrument: VOCMS26 • File ID: 1126\_36

11/26/21 22:51

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	1126_36	251350	136001	101675
Upper Limit		502700	272002	203350
Lower Limit		125675	68001	50838
LCS R3735465-1 WG1780361 1x	1126_36LCS	251350	136001	101675
LCSD R3735465-2 WG1780361 1x	1126_37	250691	134167	101904
BLANK R3735465-3 WG1780361 1x	1126_39	245607	131003	96463
L1433723-01 WG1780361 1x	1126_40	243082	127833	94288
L1433723-02 WG1780361 1x	1126_41	240746	130653	91919
L1433723-03 WG1780361 1x	1126_42	235854	124681	91917
L1433723-04 WG1780361 1x	1126_43	233999	123476	93111
L1433723-05 WG1780361 1x	1126_44	231843	121582	88613
L1433723-06 WG1780361 1x	1126_45	222090	123267	86159
L1433723-07 WG1780361 1x	1126_46	241926	132537	101354
L1433723-08 WG1780361 1x	1126_47	223297	119615	89285
L1433723-09 WG1780361 1x	1126_48	228767	120874	89452
L1433723-10 WG1780361 1x	1126_49	221873	118492	88861
L1433723-11 WG1780361 1x	1126_50	214948	114906	85099
L1433723-12 WG1780361 1x	1126_51	215057	115176	84658
L1433723-13 WG1780361 1x	1126_52	246099	150031	112403
L1433723-14 WG1780361 1x	1126_53	253068	133402	97370
L1433723-15 WG1780361 1x	1126_54	245452	129247	96495

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS26 • File ID: 1126\_36

11/26/21 22:51

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
L1433723-16 WG1780361 1x	1126_55	244633	131211	100827
L1433723-17 WG1780361 1x	1126_56	244173	131577	95808
L1433723-18 WG1780361 1x	1126_57	229920	123040	94002
L1433723-19 WG1780361 1x	1126_58	229614	122176	91039
L1433723-20 WG1780361 1x	1126_59	227282	121455	89278
MS R3735465-4 WG1780361 1x	1126_60	228224	125654	93265
MSD R3735465-5 WG1780361 1x	1126_61	230619	124265	97632

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

## Instrument: VOCMS33 • File ID: 1130\_31

11/30/21 19:36

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	1130_31	210273	104078	102139
Upper Limit		420546	208156	204278
Lower Limit		105137	52039	51070
LCS R3736006-1 WG1782067 1x	1130_31LCS	210273	104078	102139
LCSD R3736006-2 WG1782067 1x	1130_32	205181	105485	103320
BLANK R3736006-3 WG1782067 1x	1130_35	209280	98220	95710
L1433723-08 WG1782067 1x	1130_39	204545	99689	91060
L1433723-09 WG1782067 1x	1130_40	205472	99779	91129
L1433723-10 WG1782067 1x	1130_41	197396	95657	88609
L1433723-11 WG1782067 1x	1130_42	201455	97262	92697
L1433723-12 WG1782067 1x	1130_43	200213	95808	89654
L1433723-14 WG1782067 1x	1130_44	199230	97824	90013
L1433723-19 WG1782067 1x	1130_45	194970	95980	89065
L1433723-20 WG1782067 1x	1130_46	195706	94629	87439
L1433723-15 WG1782067 5x	1130_47	197190	96839	87481
L1433723-18 WG1782067 20x	1130_50	188705	92947	85556
L1433723-04 WG1782067 50x	1130_56	188767	95353	88655
L1433723-05 WG1782067 25x	1130_57	185589	94087	84066
L1433723-06 WG1782067 25x	1130_58	189603	92976	87287
L1433723-13 WG1782067 5000x	1130_60	185256	92845	84926



# INTERNAL STANDARD SUMMARY

Instrument: VOCMS39 • File ID: 1128\_02

11/28/21 10:57

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	1128_02	442396	200250.70	179947.90
Upper Limit		884792	400501	359896
Lower Limit		221198	100125	89974
LCS R3735912-1 WG1780831 1x	1128_02LCS	442396	200250.70	179947.90
LCSD R3735912-2 WG1780831 1x	1128_03	442955.10	204151.40	179051.60
BLANK R3735912-3 WG1780831 1x	1128_05	452029.60	193175.30	172401.70
L1433723-25 WG1780831 1x	1128_06	465872.20	212929.80	176319.20
L1433723-21 WG1780831 1x	1128_07	450732.50	202616	173570.10
L1433723-22 WG1780831 1x	1128_08	461859.70	208326.60	180680.90
L1433723-23 WG1780831 1x	1128_09	463396.10	205868.60	175312.60
L1433723-24 WG1780831 1x	1128_10	474085.60	204023.60	182677
MS R3735912-4 WG1780831 1x	1128_26	439158.20	192211.50	171431.70
MSD R3735912-5 WG1780831 1x	1128_27	428213.30	200785.50	171502.10

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS27 • File ID: 1124\_03

11/24/21 09:52

Sample ID	File ID	8260-1,4-DIFLUOROBENZENE Response
Standard	1124_03	731467
Upper Limit		1462934
Lower Limit		365734
LCS R3734498-1 WG1779946 1x	1124_04	720110
LCSD R3734498-2 WG1779946 1x	1124_05	681830
BLANK R3734498-3 WG1779946 1x	1124_07	684306
L1433723-02 WG1779946 1x	1124_12	652012
L1433723-03 WG1779946 1x	1124_13	639125
L1433723-04 WG1779946 1x	1124_14	666692
L1433723-05 WG1779946 1x	1124_15	665768
L1433723-06 WG1779946 1x	1124_16	735530
L1433723-09 WG1779946 1x	1124_19	578207
L1433723-10 WG1779946 1x	1124_20	679560
L1433723-11 WG1779946 1x	1124_21	603004
L1433723-15 WG1779946 1x	1124_25	586395

## Instrument: VOCMS27 • File ID: 1126\_03

11/26/21 10:01

Sample ID	File ID	8260-1,4-DIFLUOROBENZENE Response
Standard	1126_03	818673
Upper Limit		1637346
Lower Limit		409337
LCS R3734241-1 WG1780446 1x	1126_04A	552255
LCSD R3734241-2 WG1780446 1x	1126_05A	541364
BLANK R3734241-3 WG1780446 1x	1126_07A	547054
L1433723-18 WG1780446 1x	1126_11	571704
L1433723-19 WG1780446 1x	1126_12	568502
L1433723-21 WG1780446 1x	1126_14	742765
L1433723-22 WG1780446 1x	1126_15	533607
L1433723-23 WG1780446 1x	1126_16	554251
L1433723-24 WG1780446 1x	1126_17	537440
MS R3734241-4 WG1780446 1x	1126_21	580362
MSD R3734241-5 WG1780446 1x	1126_22	574607
MS R3734241-6 WG1780446 1x	1126_23	678860

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS27 • File ID: 1126\_03

11/26/21 10:01

Sample ID	File ID	8260-1,4-DIFLUOROBENZENE Response
MSD R3734241-7 WG1780446 1x	1126_24	586943

## Instrument: VOCMS27 • File ID: 1129\_03

11/29/21 07:41

Sample ID	File ID	8260-1,4-DIFLUOROBENZENE Response
Standard	1129_03	751296
Upper Limit		1502592
Lower Limit		375648
LCS R3735639-1 WG1780984 1x	1129_04	594674
LCS R3735638-1 WG1780650 1x	1129_04A	594674
LCSD R3735639-2 WG1780984 1x	1129_05	586990
LCSD R3735638-2 WG1780650 1x	1129_05A	586990
BLANK R3735639-3 WG1780984 1x	1129_07	853352
BLANK R3735638-3 WG1780650 1x	1129_07A	853352
L1433723-01 WG1780984 1x	1129_08	602803
L1433723-08 WG1780984 1x	1129_09	573881
L1433723-12 WG1780984 1x	1129_10	563149
L1433723-14 WG1780984 1x	1129_11	558058
L1433723-07 WG1780984 20x	1129_12	730167
L1433723-13 WG1780984 50x	1129_13	607483
L1433723-16 WG1780984 5x	1129_14	566583
L1433723-17 WG1780984 5x	1129_15	569221
L1433723-20 WG1780650 1x	1129_17	530578

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B1	Target analyte detected in method blank at or above the method reporting limit.
E1	Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
R5	MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
R7	LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
R8	Sample RPD exceeded the method acceptance limit.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**Geosyntec**  
 11811 N. Tatum Blvd.,  
 Suite P186  
 Phoenix, AZ 85028

Billing Information:  
**Accounts Payable**  
 11811 N Tatum Blvd, Ste P186,  
 Phoenix, Arizona 85028  
 CC: [tluttermoser@geosyntec.com](mailto:tluttermoser@geosyntec.com)

Pres  
 Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 3



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



Report to:  
**Tory Luttermoser; Fabrizio Mascioni**

Email To:  
**FMascioni@Geosyntec.com**

Project **Nammo Defense Systems, Inc.**  
 Description: **NDS TTU Sampling**

City/State  
 Collected: **Mesa, AZ**

Phone: **602.513.5830**  
 Fax:

Client Project #  
**SP0101GW21/02**

Lab Project #

Collected by (print):  
*Ryan Ayala*

Site/Facility ID #

P.O. #

Collected by (signature):  
*[Signature]*

**Rush?** (Lab MUST Be Notified)

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
**GEOSYNPAZ052019S**

Date Results Needed

*Standard*

Immediately  
 Packed on Ice N  Y

No.  
 of  
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Perchlorate 314.0/ 125mL HDPE/ No Pres	VOC 8260B/ 40mL amber/ HCl	1,4 Dioxane V8260LL14D/40mL amb/ HCl													
TTU-9A-61-20211117	Grab	GW	61	11-17-21	1435	5	X	X	X												61	
TTU-9A-61-20211117-Pup			61		1435		X	X	X													62
TTU-13-51-20211118			51	11-18-21	1017		X	X	X													63
TTU-14-69-20211118			69		1038		X	X	X													64
TTU-12-82-20211118			82		1100		X	X	X													65
TTU-12-82-20211118-Pup			82		1100		X	X	X													66
TTU-20-73-20211118			73		1123		X	X	X													67
TTU-10-147-20211118			147		1235		X	X	X													68
PF-2-400-20211118			400		1312	4		X	X													69
TTU-8-164-20211118			164		1345	6	X	X	X													70

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other \_\_\_\_\_

Remarks:

Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)

*[Signature]*

Date:

11-18-21

Time:

1555

Received by: (Signature)

*[Signature]*

Trip Blank Received: Yes/No

1 HCL/MeOH TBR

Relinquished by: (Signature)

*[Signature]*

Date:

11-18-21

Time:

1800

Received by: (Signature)

*[Signature]*

Temp: °C

BAA6 3.7 ± 0.3 = 3.7 129

If preservation required by Login: Date/Time

Relinquished by: (Signature)

*[Signature]*

Date:

11/19/21

Time:

1230

Received for lab by: (Signature)

*[Signature]*

Date:

11/19/21

Time:

1230

Hold:

Condition:

NCF / OK

11/18/21

**Geosyntec**  
 11811 N. Tatum Blvd.,  
 Suite P186  
 Phoenix, AZ 85028

Billing Information:  
**Accounts Payable**  
 11811 N Tatum Blvd, Ste P186,  
 Phoenix, Arizona 85028  
 CC: cluttermoser@geosyntec.com

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 3



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



Report to:  
**Tory Luttermoser; Fabrizio Mascioni**

Email To:  
**FMascioni@Geosyntec.com**

Project **Nammo Defense Systems, Inc.**  
 Description: **NDS TTU Sampling**

City/State  
 Collected: **Mesa, AZ**

Phone: **480-748-6283**  
 Fax:

Client Project #  
**SP0101GW21/02**

Lab Project #

Collected by (print):  
*Ryan Ayala*

Site/Facility ID #

P.O. #

Collected by (signature):  
*[Signature]*  
 Immediately  
 Packed on Ice N \_\_\_ Y X

**Rush?** (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Quote #  
**GEOSYNPAZ052019S**  
 Date Results Needed  
*Standard*

No. of Cntrs

Perchlorate 314.0/ 125mL HDPE/ No Pres

VOC 8260B/ 40mL amber/ HCl

1,4 Dioxane V8260LL14D/40mL amb/ HCl

L# U433703  
 Table #  
 Acctnum: **GEOSYNPAZ**  
 Template:  
 Prelogin:  
 TSR: **Chris Ward**  
 PB:  
 Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Perchlorate	VOC	1,4 Dioxane	Remarks	Sample # (lab only)
TTU-17-80-20211117	Grab	GW	80	11-17-21	1127	5	X	X	X		11
TTU-15-75-20211117			75		1147		X	X	X		12
TTU-16-80-20211117			80		1203		X	X	X		13
TTU-EX-1-69-20211117			69		1227		X	X	X		14
TTU-EX-2-74-20211117			74		1255		X	X	X		15
TTU-EX-3-76-20211117			76		1315		X	X	X		16
TTU-EX-3-76-20211117 <sup>dup</sup>			76		1315		X	X	X		17
TTU-EX-4-77-20211117			77		1335		X	X	X		18
TTU-EX-5-80-20211117			80		1357	10	X	X	X	MS/MSD	19
TTU-5-110-20211117			110		1415	5	X	X	X		20

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:  
 Samples returned via:  
 \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier \_\_\_  
 Tracking #

**Sample Receipt Checklist**  
 COC Seal Present/Intact: NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
*[Signature]*

Date: 11-18-21  
 Time: 1555

Received by: (Signature)  
*[Signature]*

Trip Blank Received: Yes/No  
 HCL / MeOH  
 TBR

Relinquished by: (Signature)  
*[Signature]*

Date: 11-18-21  
 Time: 1809

Received by: (Signature)  
*[Signature]*

Temp: °C  
 BAAB 3.7 ± 0.3 = 3.7  
 Bottles Received: 129

If preservation required by Login: Date/Time

Relinquished by: (Signature)  
*[Signature]*

Date: 11/19/21  
 Time: 1230

Received for lab by: (Signature)  
*[Signature]*

Date: 11/19/21  
 Time: 1230

Hold:  
 Condition:  
 NCF / OK

PNPAZ

**Geosyntec**  
 11811 N. Tatum Blvd.,  
 Suite P186  
 Phoenix, AZ 85028

Billing Information:  
**Accounts Payable**  
 11811 N Tatum Blvd, Ste P186,  
 Phoenix, Arizona 85028  
 CC: [tluttermoser@geosyntec.com](mailto:tluttermoser@geosyntec.com)

Analysis / Container / Preservative										
Perchlorate 314.0/ 125mL HDPE/ No Pres	VOC 8260B/ 40mL amber/ HCl	1,4 Dioxane V8260LL 14D/40mL amb/HCl								

Chain of Custody Page **3** of **3**



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



Report to:  
**Tory Luttermoser; Fabrizio Mascioni**

Email To:  
**FMascioni@Geosyntec.com**

Project **Nammo Defense Systems, Inc.**  
 Description: **NDS TTU Sampling**

City/State Collected: **Mesa, AZ**

Phone: **480-748-6283**  
 Fax:

Client Project #  
**SP0101GW21/02**

Collected by (print):  
*Ryan Ayala*

Lab Project #

Collected by (signature):  
*Ryan Ayala*

Quote #  
**GEOSYNPAZ052019S**

Immediately Packed on Ice N  Y

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed  
*Standard*

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Perchlorate 314.0/ 125mL HDPE/ No Pres	VOC 8260B/ 40mL amber/ HCl	1,4 Dioxane V8260LL 14D/40mL amb/HCl
TTU-4-57-20211118	Grab	GW	57	11-18-21	1405	5	X	X	X
TTU-3-108-20211118			108		1425	10	X	X	X
TTU-7-345-20211118			345		1447	5	X	X	X
TTU-6-143-20211118			143		1507	5	X	X	X
Trip Blank						1		X	

L # *61433724*

Table #

Acctnum: **GEOSYNPAZ**

Template:

Prelogin:

TSR: **Chris Ward**

PB:

Shipped Via:

Remarks	Sample # (lab only)
	21
MS/MSD	22
	23
	27
	28

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

**Sample Receipt Checklist**

COC Seal Present/Intact:	<input type="checkbox"/> NP	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
COC Signed/Accurate:	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Bottles arrive intact:	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Correct bottles used:	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Sufficient volume sent:	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
<b>IF APPLICABLE</b>			
VOA Zero Headpace:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Preservation Correct/Checked:	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

Relinquished by: (Signature)  
*Ryan Ayala*

Date: *11-18-21* Time: *1555*

Relinquished by: (Signature)  
*Stacy*

Date: *11-18-21* Time: *1800*

Relinquished by: (Signature)  
*Stacy*

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)  
*Stacy*

Received by: (Signature)  
*Stacy*

Received for lab by: (Signature)  
*Stacy*

Trip Blank Received:  Yes/No

HCl/ MeOH TBR

Temp: \_\_\_\_\_ °C Bottles Received: *3.75 = 3.7* *129*

Date: *11/19/21* Time: *1230*

if preservation required by Login: Date/Time

Hold:

Condition: NCF / *OK*

*DN 12/5*




## GeoSyntec, Inc. - AZ

Sample Delivery Group: L1445691  
Samples Received: 12/23/2021  
Project Number: SP0101GW21/02  
Description: Nammo Defense Systems, Inc. NDS TTU Sampling

Report To: Fabrizio Mascioni  
11811 N Tatum Blvd, Ste P186  
Phoenix, AZ 85028

Entire Report Reviewed By:










Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

# TABLE OF CONTENTS

<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	
TTU-1-2021122 L1445691-01	<b>5</b>	
TTU-2-2021122 L1445691-02	<b>7</b>	
TTU-2-2021122-DUP L1445691-03	<b>9</b>	
TRIP BLANK L1445691-04	<b>11</b>	
<b>Qc: Quality Control Summary</b>	<b>13</b>	
Wet Chemistry by Method 314.0 Mod	<b>13</b>	
Volatile Organic Compounds (GC/MS) by Method 8260B	<b>14</b>	
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	<b>21</b>	
<b>Is: Internal Standard Summary</b>	<b>22</b>	
Volatile Organic Compounds (GC/MS) by Method 8260B	<b>22</b>	
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	<b>23</b>	
<b>Gl: Glossary of Terms</b>	<b>24</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>25</b>	
<b>Sc: Sample Chain of Custody</b>	<b>26</b>	

# SAMPLE SUMMARY

## TTU-1-2021122 L1445691-01 GW

Collected by: Ryan Ayala  
 Collected date/time: 12/22/21 12:36  
 Received date/time: 12/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1797425	500	01/04/22 11:38	01/04/22 11:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1796559	1	12/30/21 17:12	12/30/21 17:12	JTO	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1795312	1	12/27/21 21:32	12/27/21 21:32	ACG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## TTU-2-2021122 L1445691-02 GW

Collected by: Ryan Ayala  
 Collected date/time: 12/22/21 12:58  
 Received date/time: 12/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1797425	5000	01/04/22 12:34	01/04/22 12:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1796559	1	12/30/21 20:00	12/30/21 20:00	JTO	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1796911	25	12/31/21 12:12	12/31/21 12:12	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1795312	1	12/27/21 21:52	12/27/21 21:52	ACG	Mt. Juliet, TN

## TTU-2-2021122-DUP L1445691-03 GW

Collected by: Ryan Ayala  
 Collected date/time: 12/22/21 12:58  
 Received date/time: 12/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 314.0 Mod	WG1797425	5000	01/04/22 13:03	01/04/22 13:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1796559	1	12/30/21 20:21	12/30/21 20:21	JTO	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1796911	25	12/31/21 12:32	12/31/21 12:32	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG1795312	1	12/27/21 22:12	12/27/21 22:12	ACG	Mt. Juliet, TN

## TRIP BLANK L1445691-04 GW

Collected by: Ryan Ayala  
 Collected date/time: 12/22/21 00:00  
 Received date/time: 12/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1796559	1	12/30/21 14:44	12/30/21 14:44	JTO	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager

## Sample Delivery Group (SDG) Narrative

Insufficient sample volume to perform MS/MSD analyses per method QC requirements.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1445691-02</a>	<a href="#">TTU-2-2021122</a>	8260B
<a href="#">L1445691-03</a>	<a href="#">TTU-2-2021122-DUP</a>	8260B



Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	21100		150	2000	500	01/04/2022 11:38	<a href="#">WG1797425</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Acrolein	U	<a href="#">L1</a>	2.54	50.0	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Acrylonitrile	U		0.671	10.0	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Benzene	U		0.0941	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Bromobenzene	U		0.118	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Bromodichloromethane	U		0.136	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Bromoform	U		0.129	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Bromomethane	U		0.605	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,3-Butadiene	U		0.299	2.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
n-Butylbenzene	U		0.157	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
sec-Butylbenzene	U		0.125	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
tert-Butylbenzene	U		0.127	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Carbon tetrachloride	U		0.128	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Carbon disulfide	U	<a href="#">L1 R7</a>	0.0962	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Chlorobenzene	U		0.116	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Chlorodibromomethane	U		0.140	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Chloroethane	U		0.192	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Chloroform	U		0.111	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Chloromethane	U		0.960	2.50	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Cyclohexane	U		0.188	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
2-Chlorotoluene	U		0.106	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
4-Chlorotoluene	U		0.114	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2-Dibromoethane	U		0.126	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Dibromomethane	U		0.122	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Dichlorodifluoromethane	U		0.374	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1-Dichloroethane	U		0.100	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2-Dichloroethane	U		0.0819	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1-Dichloroethene	2.80	<a href="#">L1 R7</a>	0.188	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2-Dichloropropane	U		0.149	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1-Dichloropropene	U		0.142	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,3-Dichloropropane	U		0.110	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
2,2-Dichloropropane	U		0.161	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Dicyclopentadiene	U		0.253	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Di-isopropyl ether	U		0.105	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Ethylbenzene	U		0.137	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
4-Ethyltoluene	U		0.208	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
n-Hexane	U		0.749	10.0	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Isopropylbenzene	U		0.105	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
p-Isopropyltoluene	U		0.120	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
2-Butanone (MEK)	U		1.19	10.0	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Methyl Cyclohexane	U		0.660	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>



## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Methyl tert-butyl ether	U		0.101	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Naphthalene	U		1.00	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Propene	U		0.936	2.50	1	12/30/2021 17:12	<a href="#">WG1796559</a>
n-Propylbenzene	U		0.0993	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Styrene	U		0.118	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1,2-Trichlorotrifluoroethane	U	<a href="#">L1 R7</a>	0.180	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Tetrachloroethene	U		0.300	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Toluene	U		0.278	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Trichloroethene	8.82		0.190	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Trichlorofluoromethane	U		0.160	5.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Vinyl chloride	U		0.234	1.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
Xylenes, Total	U		0.174	3.00	1	12/30/2021 17:12	<a href="#">WG1796559</a>
(S) Toluene-d8	113			80.0-120		12/30/2021 17:12	<a href="#">WG1796559</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/30/2021 17:12	<a href="#">WG1796559</a>
(S) 1,2-Dichloroethane-d4	125			70.0-130		12/30/2021 17:12	<a href="#">WG1796559</a>



## Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	11.1		0.597	3.00	1	12/27/2021 21:32	<a href="#">WG1795312</a>
(S) Toluene-d8	99.5			77.0-127		12/27/2021 21:32	<a href="#">WG1795312</a>

Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	171000		1500	20000	5000	01/04/2022 12:34	<a href="#">WG1797425</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Acrolein	U	<a href="#">L1</a>	2.54	50.0	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Acrylonitrile	U		0.671	10.0	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Benzene	1.49		0.0941	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Bromobenzene	U		0.118	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Bromodichloromethane	U		0.136	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Bromoform	U		0.129	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Bromomethane	U		0.605	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,3-Butadiene	U		0.299	2.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
n-Butylbenzene	U		0.157	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
sec-Butylbenzene	U		0.125	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
tert-Butylbenzene	U		0.127	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Carbon tetrachloride	U		0.128	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Carbon disulfide	U	<a href="#">L1 R7</a>	0.0962	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Chlorobenzene	U		0.116	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Chlorodibromomethane	U		0.140	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Chloroethane	U		0.192	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Chloroform	2.44	<a href="#">E4</a>	0.111	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Chloromethane	U		0.960	2.50	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Cyclohexane	U		0.188	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
2-Chlorotoluene	U		0.106	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
4-Chlorotoluene	U		0.114	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2-Dibromoethane	U		0.126	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Dibromomethane	U		0.122	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Dichlorodifluoromethane	U		0.374	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1-Dichloroethane	1.64		0.100	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2-Dichloroethane	U		0.0819	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1-Dichloroethene	166	<a href="#">L1 R7</a>	0.188	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
cis-1,2-Dichloroethene	1.76		0.126	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
trans-1,2-Dichloroethene	0.442	<a href="#">E4</a>	0.149	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2-Dichloropropane	U		0.149	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1-Dichloropropene	U		0.142	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,3-Dichloropropane	U		0.110	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
2,2-Dichloropropane	U		0.161	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Dicyclopentadiene	U		0.253	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Di-isopropyl ether	U		0.105	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Ethylbenzene	0.686	<a href="#">E4</a>	0.137	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
4-Ethyltoluene	0.500	<a href="#">E4</a>	0.208	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
n-Hexane	U		0.749	10.0	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Isopropylbenzene	U		0.105	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
p-Isopropyltoluene	U		0.120	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
2-Butanone (MEK)	U		1.19	10.0	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Methyl Cyclohexane	U		0.660	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Methyl tert-butyl ether	U		0.101	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Naphthalene	U		1.00	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Propene	U		0.936	2.50	1	12/30/2021 20:00	<a href="#">WG1796559</a>
n-Propylbenzene	0.101	<a href="#">E4</a>	0.0993	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Styrene	U		0.118	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1,2-Trichlorotrifluoroethane	U	<a href="#">L1 R7</a>	0.180	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Tetrachloroethene	1.34		0.300	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Toluene	0.844	<a href="#">E4</a>	0.278	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,1,2-Trichloroethane	1.92		0.158	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Trichloroethene	627		4.75	25.0	25	12/31/2021 12:12	<a href="#">WG1796911</a>
Trichlorofluoromethane	U		0.160	5.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2,4-Trimethylbenzene	0.551	<a href="#">E4</a>	0.322	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,2,3-Trimethylbenzene	0.291	<a href="#">E4</a>	0.104	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
1,3,5-Trimethylbenzene	0.212	<a href="#">E4</a>	0.104	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Vinyl chloride	U		0.234	1.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
Xylenes, Total	2.15	<a href="#">E4</a>	0.174	3.00	1	12/30/2021 20:00	<a href="#">WG1796559</a>
(S) Toluene-d8	118			80.0-120		12/30/2021 20:00	<a href="#">WG1796559</a>
(S) Toluene-d8	99.9			80.0-120		12/31/2021 12:12	<a href="#">WG1796911</a>
(S) 4-Bromofluorobenzene	105			77.0-126		12/30/2021 20:00	<a href="#">WG1796559</a>
(S) 4-Bromofluorobenzene	97.3			77.0-126		12/31/2021 12:12	<a href="#">WG1796911</a>
(S) 1,2-Dichloroethane-d4	129			70.0-130		12/30/2021 20:00	<a href="#">WG1796559</a>
(S) 1,2-Dichloroethane-d4	87.6			70.0-130		12/31/2021 12:12	<a href="#">WG1796911</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	280		0.597	3.00	1	12/27/2021 21:52	<a href="#">WG1795312</a>
(S) Toluene-d8	105			77.0-127		12/27/2021 21:52	<a href="#">WG1795312</a>



Wet Chemistry by Method 314.0 Mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Perchlorate	198000		1500	20000	5000	01/04/2022 13:03	<a href="#">WG1797425</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Acrolein	U	<a href="#">L1</a>	2.54	50.0	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Acrylonitrile	U		0.671	10.0	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Benzene	1.51		0.0941	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Bromobenzene	U		0.118	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Bromodichloromethane	U		0.136	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Bromoform	U		0.129	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Bromomethane	U		0.605	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,3-Butadiene	U		0.299	2.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
n-Butylbenzene	U		0.157	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
sec-Butylbenzene	U		0.125	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
tert-Butylbenzene	U		0.127	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Carbon tetrachloride	U		0.128	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Carbon disulfide	U	<a href="#">L1 R7</a>	0.0962	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Chlorobenzene	U		0.116	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Chlorodibromomethane	U		0.140	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Chloroethane	U		0.192	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Chloroform	2.30	<a href="#">E4</a>	0.111	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Chloromethane	U		0.960	2.50	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Cyclohexane	U		0.188	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
2-Chlorotoluene	U		0.106	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
4-Chlorotoluene	U		0.114	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2-Dibromoethane	U		0.126	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Dibromomethane	U		0.122	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Dichlorodifluoromethane	U		0.374	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1-Dichloroethane	1.34		0.100	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2-Dichloroethane	U		0.0819	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1-Dichloroethene	162	<a href="#">L1 R7</a>	0.188	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
cis-1,2-Dichloroethene	1.78		0.126	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
trans-1,2-Dichloroethene	0.409	<a href="#">E4</a>	0.149	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2-Dichloropropane	U		0.149	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1-Dichloropropene	U		0.142	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,3-Dichloropropane	U		0.110	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
2,2-Dichloropropane	U		0.161	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Dicyclopentadiene	U		0.253	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Di-isopropyl ether	U		0.105	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Ethylbenzene	U		0.137	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
4-Ethyltoluene	U		0.208	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
n-Hexane	U		0.749	10.0	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Isopropylbenzene	U		0.105	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
p-Isopropyltoluene	U		0.120	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
2-Butanone (MEK)	U		1.19	10.0	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Methyl Cyclohexane	U		0.660	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.430	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Methyl tert-butyl ether	U		0.101	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Naphthalene	U		1.00	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Propene	U		0.936	2.50	1	12/30/2021 20:21	<a href="#">WG1796559</a>
n-Propylbenzene	U		0.0993	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Styrene	U		0.118	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1,2-Trichlorotrifluoroethane	U	<a href="#">L1 R7</a>	0.180	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Tetrachloroethene	1.62		0.300	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Toluene	U		0.278	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,1,2-Trichloroethane	2.12		0.158	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Trichloroethene	653		4.75	25.0	25	12/31/2021 12:32	<a href="#">WG1796911</a>
Trichlorofluoromethane	U		0.160	5.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Vinyl chloride	U		0.234	1.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
Xylenes, Total	U		0.174	3.00	1	12/30/2021 20:21	<a href="#">WG1796559</a>
(S) Toluene-d8	123	<a href="#">S10</a>		80.0-120		12/30/2021 20:21	<a href="#">WG1796559</a>
(S) Toluene-d8	99.4			80.0-120		12/31/2021 12:32	<a href="#">WG1796911</a>
(S) 4-Bromofluorobenzene	107			77.0-126		12/30/2021 20:21	<a href="#">WG1796559</a>
(S) 4-Bromofluorobenzene	94.7			77.0-126		12/31/2021 12:32	<a href="#">WG1796911</a>
(S) 1,2-Dichloroethane-d4	132	<a href="#">S10</a>		70.0-130		12/30/2021 20:21	<a href="#">WG1796559</a>
(S) 1,2-Dichloroethane-d4	86.8			70.0-130		12/31/2021 12:32	<a href="#">WG1796911</a>

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Is
8	Gl
9	Al
10	Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	281		0.597	3.00	1	12/27/2021 22:12	<a href="#">WG1795312</a>
(S) Toluene-d8	106			77.0-127		12/27/2021 22:12	<a href="#">WG1795312</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Acrolein	U	<a href="#">L1</a>	2.54	50.0	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Acrylonitrile	U		0.671	10.0	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Benzene	U		0.0941	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Bromobenzene	U		0.118	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Bromodichloromethane	U		0.136	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Bromoform	U		0.129	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Bromomethane	U		0.605	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,3-Butadiene	U		0.299	2.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
n-Butylbenzene	U		0.157	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
sec-Butylbenzene	U		0.125	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
tert-Butylbenzene	U		0.127	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Carbon tetrachloride	U		0.128	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Carbon disulfide	U	<a href="#">L1 R7</a>	0.0962	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Chlorobenzene	U		0.116	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Chlorodibromomethane	U		0.140	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Chloroethane	U		0.192	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Chloroform	U		0.111	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Chloromethane	U		0.960	2.50	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Cyclohexane	U		0.188	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
2-Chlorotoluene	U		0.106	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
4-Chlorotoluene	U		0.114	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2-Dibromoethane	U		0.126	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Dibromomethane	U		0.122	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2-Dichlorobenzene	U		0.107	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,3-Dichlorobenzene	U		0.110	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,4-Dichlorobenzene	U		0.120	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Dichlorodifluoromethane	U		0.374	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1-Dichloroethane	U		0.100	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2-Dichloroethane	U		0.0819	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1-Dichloroethene	U	<a href="#">L1 R7</a>	0.188	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
trans-1,2-Dichloroethene	U		0.149	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2-Dichloropropane	U		0.149	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1-Dichloropropene	U		0.142	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,3-Dichloropropane	U		0.110	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
cis-1,3-Dichloropropene	U		0.111	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
trans-1,3-Dichloropropene	U		0.118	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
2,2-Dichloropropane	U		0.161	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Dicyclopentadiene	U		0.253	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Di-isopropyl ether	U		0.105	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Ethylbenzene	U		0.137	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
4-Ethyltoluene	U		0.208	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Hexachloro-1,3-butadiene	U		0.337	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
n-Hexane	U		0.749	10.0	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Isopropylbenzene	U		0.105	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
p-Isopropyltoluene	U		0.120	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
2-Butanone (MEK)	U		1.19	10.0	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Methyl Cyclohexane	U		0.660	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Methylene Chloride	U		0.430	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Methyl tert-butyl ether	U		0.101	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Naphthalene	U		1.00	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Propene	U		0.936	2.50	1	12/30/2021 14:44	<a href="#">WG1796559</a>
n-Propylbenzene	U		0.0993	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

TRIP BLANK

SAMPLE RESULTS - 04

Collected date/time: 12/22/21 00:00

L1445691

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Styrene	U		0.118	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1,2-Trichlorotrifluoroethane	U	<a href="#">L1 R7</a>	0.180	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Tetrachloroethene	U		0.300	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Toluene	U		0.278	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2,4-Trichlorobenzene	U		0.481	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1,1-Trichloroethane	U		0.149	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,1,2-Trichloroethane	U		0.158	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Trichloroethene	U		0.190	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Trichlorofluoromethane	U		0.160	5.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2,3-Trichloropropane	U		0.237	2.50	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,2,3-Trimethylbenzene	U		0.104	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Vinyl chloride	U		0.234	1.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
Xylenes, Total	U		0.174	3.00	1	12/30/2021 14:44	<a href="#">WG1796559</a>
(S) Toluene-d8	117			80.0-120		12/30/2021 14:44	<a href="#">WG1796559</a>
(S) 4-Bromofluorobenzene	104			77.0-126		12/30/2021 14:44	<a href="#">WG1796559</a>
(S) 1,2-Dichloroethane-d4	122			70.0-130		12/30/2021 14:44	<a href="#">WG1796559</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3747549-1 01/03/22 13:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Perchlorate	U		0.300	4.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1445691-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1445691-01 01/04/22 11:38 • (DUP) R3747549-3 01/04/22 12:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Perchlorate	21100	22600	500	7.12		15

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3747549-2 01/03/22 14:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Perchlorate	10.0	10.1	101	90.0-110	

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3746515-3 12/30/21 10:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
1,3-Butadiene	U		0.299	2.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3746515-3 12/30/21 10:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dicyclopentadiene	U		0.253	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
4-Ethyltoluene	U		0.208	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00
n-Hexane	U		0.749	10.0
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
Propene	U		0.936	2.50
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	119			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	121			70.0-130

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3746515-1 12/30/21 09:29 • (LCSD) R3746515-2 12/30/21 09:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	25.5	33.0	102	132	19.0-160			25.6	27
Acrolein	25.0	33.2	40.9	133	164	30.0-160		L1	20.8	26
Acrylonitrile	25.0	25.4	26.1	102	104	55.0-149			2.72	20
Benzene	5.00	5.04	5.30	101	106	70.0-123			5.03	20
Bromobenzene	5.00	4.55	5.13	91.0	103	73.0-121			12.0	20
Bromodichloromethane	5.00	5.11	5.01	102	100	75.0-120			1.98	20
Bromoform	5.00	5.14	5.01	103	100	68.0-132			2.56	20
Bromomethane	5.00	2.83	2.87	56.6	57.4	30.0-160			1.40	25
1,3-Butadiene	5.00	6.50	5.92	130	118	45.0-147			9.34	20
n-Butylbenzene	5.00	4.37	4.52	87.4	90.4	73.0-125			3.37	20
sec-Butylbenzene	5.00	4.67	4.79	93.4	95.8	75.0-125			2.54	20
tert-Butylbenzene	5.00	4.93	4.98	98.6	99.6	76.0-124			1.01	20
Carbon disulfide	5.00	4.76	6.71	95.2	134	61.0-128		L1 R7	34.0	20
Carbon tetrachloride	5.00	5.11	5.82	102	116	68.0-126			13.0	20
Chlorobenzene	5.00	5.08	5.14	102	103	80.0-121			1.17	20
Chlorodibromomethane	5.00	5.34	5.19	107	104	77.0-125			2.85	20
Chloroethane	5.00	6.47	7.24	129	145	47.0-150			11.2	20
Chloroform	5.00	5.21	5.23	104	105	73.0-120			0.383	20
Chloromethane	5.00	3.32	3.51	66.4	70.2	41.0-142			5.56	20
Cyclohexane	5.00	4.47	4.71	89.4	94.2	71.0-124			5.23	20
2-Chlorotoluene	5.00	5.01	5.14	100	103	76.0-123			2.56	20
4-Chlorotoluene	5.00	4.71	4.95	94.2	99.0	75.0-122			4.97	20
1,2-Dibromo-3-Chloropropane	5.00	4.51	4.42	90.2	88.4	58.0-134			2.02	20
1,2-Dibromoethane	5.00	5.33	5.05	107	101	80.0-122			5.39	20
Dibromomethane	5.00	5.17	5.38	103	108	80.0-120			3.98	20
1,2-Dichlorobenzene	5.00	4.81	5.16	96.2	103	79.0-121			7.02	20
1,3-Dichlorobenzene	5.00	4.77	5.10	95.4	102	79.0-120			6.69	20
1,4-Dichlorobenzene	5.00	4.82	5.20	96.4	104	79.0-120			7.58	20
Dichlorodifluoromethane	5.00	5.35	5.80	107	116	51.0-149			8.07	20
1,1-Dichloroethane	5.00	5.02	5.15	100	103	70.0-126			2.56	20
1,2-Dichloroethane	5.00	4.90	5.19	98.0	104	70.0-128			5.75	20
1,1-Dichloroethene	5.00	4.93	6.31	98.6	126	71.0-124		L1 R7	24.6	20
cis-1,2-Dichloroethene	5.00	4.79	4.85	95.8	97.0	73.0-120			1.24	20
trans-1,2-Dichloroethene	5.00	5.05	5.55	101	111	73.0-120			9.43	20
1,2-Dichloropropane	5.00	4.88	4.85	97.6	97.0	77.0-125			0.617	20
1,1-Dichloropropene	5.00	4.95	5.29	99.0	106	74.0-126			6.64	20
1,3-Dichloropropane	5.00	4.83	5.03	96.6	101	80.0-120			4.06	20
cis-1,3-Dichloropropene	5.00	5.10	5.14	102	103	80.0-123			0.781	20
trans-1,3-Dichloropropene	5.00	4.96	5.20	99.2	104	78.0-124			4.72	20
2,2-Dichloropropane	5.00	4.76	4.83	95.2	96.6	58.0-130			1.46	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3746515-1 12/30/21 09:29 • (LCSD) R3746515-2 12/30/21 09:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	5.00	4.95	4.88	99.0	97.6	74.0-126			1.42	20
Di-isopropyl ether	5.00	4.85	5.00	97.0	100	58.0-138			3.05	20
Ethylbenzene	5.00	5.06	5.04	101	101	79.0-123			0.396	20
4-Ethyltoluene	5.00	4.74	4.92	94.8	98.4	74.0-127			3.73	20
Hexachloro-1,3-butadiene	5.00	4.37	5.31	87.4	106	54.0-138			19.4	20
n-Hexane	5.00	3.77	4.50	75.4	90.0	57.0-133			17.7	20
Isopropylbenzene	5.00	4.92	5.03	98.4	101	76.0-127			2.21	20
p-Isopropyltoluene	5.00	4.91	4.96	98.2	99.2	76.0-125			1.01	20
2-Butanone (MEK)	25.0	26.5	27.4	106	110	44.0-160			3.34	20
Methyl Cyclohexane	5.00	4.34	4.71	86.8	94.2	68.0-126			8.18	20
Methylene Chloride	5.00	4.91	5.77	98.2	115	67.0-120			16.1	20
4-Methyl-2-pentanone (MIBK)	25.0	26.8	25.9	107	104	68.0-142			3.42	20
Methyl tert-butyl ether	5.00	5.25	5.31	105	106	68.0-125			1.14	20
Naphthalene	5.00	4.15	4.58	83.0	91.6	54.0-135			9.85	20
Propene	5.00	3.50	3.55	70.0	71.0	30.0-160			1.42	20
n-Propylbenzene	5.00	4.30	4.94	86.0	98.8	77.0-124			13.9	20
Styrene	5.00	4.72	4.98	94.4	99.6	73.0-130			5.36	20
1,1,1,2-Tetrachloroethane	5.00	5.45	5.37	109	107	75.0-125			1.48	20
1,1,2,2-Tetrachloroethane	5.00	4.57	4.67	91.4	93.4	65.0-130			2.16	20
Tetrachloroethene	5.00	5.14	5.47	103	109	72.0-132			6.22	20
Toluene	5.00	5.10	5.20	102	104	79.0-120			1.94	20
1,1,2-Trichlorotrifluoroethane	5.00	5.39	7.06	108	141	69.0-132		L1 R7	26.8	20
1,2,3-Trichlorobenzene	5.00	4.83	5.22	96.6	104	50.0-138			7.76	20
1,2,4-Trichlorobenzene	5.00	4.26	4.80	85.2	96.0	57.0-137			11.9	20
1,1,1-Trichloroethane	5.00	5.24	5.47	105	109	73.0-124			4.30	20
1,1,2-Trichloroethane	5.00	5.21	5.30	104	106	80.0-120			1.71	20
Trichloroethene	5.00	5.45	5.53	109	111	78.0-124			1.46	20
Trichlorofluoromethane	5.00	6.18	6.79	124	136	59.0-147			9.41	20
1,2,3-Trichloropropane	5.00	5.21	5.32	104	106	73.0-130			2.09	20
1,2,3-Trimethylbenzene	5.00	4.90	4.81	98.0	96.2	77.0-120			1.85	20
1,2,4-Trimethylbenzene	5.00	4.74	4.98	94.8	99.6	76.0-121			4.94	20
1,3,5-Trimethylbenzene	5.00	4.98	5.14	99.6	103	76.0-122			3.16	20
Vinyl chloride	5.00	5.24	5.43	105	109	67.0-131			3.56	20
Xylenes, Total	15.0	15.1	15.3	101	102	79.0-123			1.32	20
(S) Toluene-d8				117	114	80.0-120				
(S) 4-Bromofluorobenzene				108	106	77.0-126				
(S) 1,2-Dichloroethane-d4				120	123	70.0-130				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

L1445615-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1445615-02 12/30/21 16:30 • (MS) R3746515-4 12/30/21 21:03 • (MSD) R3746515-5 12/30/21 21:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	31.8	30.7	127	123	1	10.0-160			3.52	35
Acrolein	25.0	U	35.5	35.3	142	141	1	10.0-160			0.565	39
Acrylonitrile	25.0	U	31.0	29.9	124	120	1	21.0-160			3.61	32
Benzene	5.00	3.14	9.29	9.15	123	120	1	17.0-158			1.52	27
Bromobenzene	5.00	U	5.64	5.59	113	112	1	30.0-149			0.890	28
Bromodichloromethane	5.00	U	6.41	5.97	128	119	1	31.0-150			7.11	27
Bromoform	5.00	U	5.70	5.98	114	120	1	29.0-150			4.79	29
Bromomethane	5.00	U	2.38	2.76	47.6	55.2	1	10.0-160			14.8	38
1,3-Butadiene	5.00	U	6.98	6.82	140	136	1	10.0-160			2.32	22
n-Butylbenzene	5.00	U	5.21	5.33	104	107	1	31.0-150			2.28	30
sec-Butylbenzene	5.00	0.172	5.72	5.73	111	111	1	33.0-155			0.175	29
tert-Butylbenzene	5.00	U	5.71	5.65	114	113	1	34.0-153			1.06	28
Carbon disulfide	5.00	U	4.71	4.75	94.2	95.0	1	10.0-156			0.846	28
Carbon tetrachloride	5.00	U	7.04	6.62	141	132	1	23.0-159			6.15	28
Chlorobenzene	5.00	U	5.66	5.70	113	114	1	33.0-152			0.704	27
Chlorodibromomethane	5.00	U	5.83	6.03	117	121	1	37.0-149			3.37	27
Chloroethane	5.00	U	7.62	7.27	152	145	1	10.0-160			4.70	30
Chloroform	5.00	U	6.27	6.31	125	126	1	29.0-154			0.636	28
Chloromethane	5.00	U	3.83	3.84	76.6	76.8	1	10.0-160			0.261	29
Cyclohexane	5.00	5.93	11.8	11.3	117	107	1	19.0-160			4.33	23
2-Chlorotoluene	5.00	U	5.69	5.53	114	111	1	32.0-153			2.85	28
4-Chlorotoluene	5.00	U	5.20	5.38	104	108	1	32.0-150			3.40	28
1,2-Dibromo-3-Chloropropane	5.00	U	5.31	5.32	106	106	1	22.0-151			0.188	34
1,2-Dibromoethane	5.00	U	5.65	5.93	113	119	1	34.0-147			4.84	27
Dibromomethane	5.00	U	6.24	6.17	125	123	1	30.0-151			1.13	27
1,2-Dichlorobenzene	5.00	U	5.51	5.48	110	110	1	34.0-149			0.546	28
1,3-Dichlorobenzene	5.00	U	5.28	5.67	106	113	1	36.0-146			7.12	27
1,4-Dichlorobenzene	5.00	U	5.34	5.43	107	109	1	35.0-142			1.67	27
Dichlorodifluoromethane	5.00	U	7.14	6.96	143	139	1	10.0-160			2.55	29
1,1-Dichloroethane	5.00	U	6.08	6.15	122	123	1	25.0-158			1.14	27
1,2-Dichloroethane	5.00	0.199	5.93	5.79	115	112	1	29.0-151			2.39	27
1,1-Dichloroethene	5.00	U	5.79	5.99	116	120	1	11.0-160			3.40	29
cis-1,2-Dichloroethene	5.00	U	5.81	5.52	116	110	1	10.0-160			5.12	27
trans-1,2-Dichloroethene	5.00	U	5.75	5.95	115	119	1	17.0-153			3.42	27
1,2-Dichloropropane	5.00	U	5.59	5.50	112	110	1	30.0-156			1.62	27
1,1-Dichloropropene	5.00	U	6.30	6.28	126	126	1	25.0-158			0.318	27
1,3-Dichloropropane	5.00	U	5.56	5.33	111	107	1	38.0-147			4.22	27
cis-1,3-Dichloropropene	5.00	U	5.65	5.59	113	112	1	34.0-149			1.07	28
trans-1,3-Dichloropropene	5.00	U	5.53	5.69	111	114	1	32.0-149			2.85	28
2,2-Dichloropropane	5.00	U	6.10	6.17	122	123	1	24.0-152			1.14	29

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1445615-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1445615-02 12/30/21 16:30 • (MS) R3746515-4 12/30/21 21:03 • (MSD) R3746515-5 12/30/21 21:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dicyclopentadiene	5.00	U	5.16	5.18	103	104	1	51.0-139			0.387	20
Di-isopropyl ether	5.00	U	5.85	5.71	117	114	1	21.0-160			2.42	28
Ethylbenzene	5.00	3.47	16.2	9.76	255	126	1	30.0-155	M1	R5	49.6	27
4-Ethyltoluene	5.00	U	5.40	5.50	108	110	1	10.0-160			1.83	20
Hexachloro-1,3-butadiene	5.00	U	5.86	6.23	117	125	1	20.0-154			6.12	34
Isopropylbenzene	5.00	0.754	6.95	6.81	124	121	1	28.0-157			2.03	27
p-Isopropyltoluene	5.00	U	5.62	5.71	112	114	1	30.0-154			1.59	29
2-Butanone (MEK)	25.0	U	29.4	29.8	118	119	1	10.0-160			1.35	32
Methyl Cyclohexane	5.00	1.66	6.58	6.18	98.4	90.4	1	11.0-160			6.27	24
Methylene Chloride	5.00	U	5.43	5.35	109	107	1	23.0-144			1.48	28
4-Methyl-2-pentanone (MIBK)	25.0	U	30.6	30.4	122	122	1	29.0-160			0.656	29
Methyl tert-butyl ether	5.00	2.74	9.32	9.15	132	128	1	28.0-150			1.84	29
Naphthalene	5.00	U	18.4	7.24	368	145	1	12.0-156	M1	R5	87.1	35
Propene	5.00	1.17	4.82	4.73	73.0	71.2	1	10.0-160			1.88	29
n-Propylbenzene	5.00	1.98	8.27	7.56	126	112	1	31.0-154			8.97	28
Styrene	5.00	U	5.49	5.45	110	109	1	33.0-155			0.731	28
1,1,1,2-Tetrachloroethane	5.00	U	6.19	5.99	124	120	1	36.0-151			3.28	29
1,1,2,2-Tetrachloroethane	5.00	U	5.42	5.53	108	111	1	33.0-150			2.01	28
Tetrachloroethene	5.00	U	6.21	6.22	124	124	1	10.0-160			0.161	27
Toluene	5.00	U	5.72	5.89	114	118	1	26.0-154			2.93	28
1,1,2-Trichlorotrifluoroethane	5.00	U	6.68	7.28	134	146	1	23.0-160			8.60	30
1,2,3-Trichlorobenzene	5.00	U	5.28	5.75	106	115	1	17.0-150			8.52	36
1,2,4-Trichlorobenzene	5.00	U	5.10	4.97	102	99.4	1	24.0-150			2.58	33
1,1,1-Trichloroethane	5.00	U	6.33	6.71	127	134	1	23.0-160			5.83	28
1,1,2-Trichloroethane	5.00	U	5.87	5.91	117	118	1	35.0-147			0.679	27
Trichloroethene	5.00	U	6.22	6.26	124	125	1	10.0-160			0.641	25
Trichlorofluoromethane	5.00	U	8.11	8.37	162	167	1	17.0-160	M1	M1	3.16	31
1,2,3-Trichloropropane	5.00	U	5.90	5.53	118	111	1	34.0-151			6.47	29
1,2,3-Trimethylbenzene	5.00	0.446	5.71	5.67	105	104	1	32.0-149			0.703	28
1,2,4-Trimethylbenzene	5.00	U	5.25	5.29	105	106	1	26.0-154			0.759	27
1,3,5-Trimethylbenzene	5.00	0.211	5.79	5.77	112	111	1	28.0-153			0.346	27
n-Hexane	5.00	U	4.43	4.46	88.6	89.2	1	10.0-153			0.675	28
Vinyl chloride	5.00	U	6.41	6.19	128	124	1	10.0-160			3.49	27
Xylenes, Total	15.0	U	17.2	17.6	115	117	1	29.0-154			2.30	28
(S) Toluene-d8					113	113		80.0-120				
(S) 4-Bromofluorobenzene					105	107		77.0-126				
(S) 1,2-Dichloroethane-d4					122	125		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3746877-3 12/31/21 11:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.190	1.00
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	93.6			77.0-126
(S) 1,2-Dichloroethane-d4	92.3			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3746877-1 12/31/21 09:29 • (LCSD) R3746877-2 12/31/21 09:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethene	5.00	4.40	4.18	88.0	83.6	78.0-124			5.13	20
(S) Toluene-d8				99.0	98.1	80.0-120				
(S) 4-Bromofluorobenzene				94.4	94.2	77.0-126				
(S) 1,2-Dichloroethane-d4				89.8	91.4	70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3746007-3 12/27/21 20:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	98.4			77.0-127

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3746007-1 12/27/21 18:13 • (LCSD) R3746007-2 12/27/21 18:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
1,4-Dioxane	50.0	45.6	46.1	91.2	92.2	55.0-138			1.09	24
(S) Toluene-d8				99.7	99.3	77.0-127				

L1444886-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1444886-06 12/27/21 21:12 • (MS) R3746007-4 12/27/21 22:32 • (MSD) R3746007-5 12/27/21 22:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
1,4-Dioxane	50.0	4.68	39.6	36.2	69.8	63.0	1	13.0-160			8.97	31
(S) Toluene-d8					98.6	98.1		77.0-127				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS16 • File ID: 1231\_02

12/31/21 09:29

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	1231_02	710651	272275	158680
Upper Limit		1421302	544550	317360
Lower Limit		355326	136138	79340
LCS R3746877-1 WG1796911 1x	1231_02LCS	710651	272275	158680
LCSD R3746877-2 WG1796911 1x	1231_03	711750	269863	153077
BLANK R3746877-3 WG1796911 1x	1231_07	743175	284912	172535
L1445691-02 WG1796911 25x	1231_08	747832	284733	158819
L1445691-03 WG1796911 25x	1231_09	735938	281457	159406

## Instrument: VOCMS23 • File ID: 1230\_03

12/30/21 09:29

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	1230_03	538231	244264	236387
Upper Limit		1076462	488528	472774
Lower Limit		269116	122132	118194
LCS R3746515-1 WG1796559 1x	1230_03LCSB	538231	244264	236387
LCSD R3746515-2 WG1796559 1x	1230_04B	537312	249207	215554
BLANK R3746515-3 WG1796559 1x	1230_06B	519818	229149	214489
L1445691-04 WG1796559 1x	1230_13	517306	235388	198646
L1445691-01 WG1796559 1x	1230_20	487812	221321	192674
L1445691-02 WG1796559 1x	1230_28	483192	220196	189683
L1445691-03 WG1796559 1x	1230_29	476980	208823	186168
MS R3746515-4 WG1796559 1x	1230_31	507798	239167	211889
MSD R3746515-5 WG1796559 1x	1230_32	498044	232085	211862

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS27 • File ID: 1227\_03

12/27/21 17:53

Sample ID	File ID	8260-1,4-DIFLUOROBENZENE Response
Standard	1227_03	970409
Upper Limit		1940818
Lower Limit		485205
LCS R3746007-1 WG1795312 1x	1227_04	895806
LCSD R3746007-2 WG1795312 1x	1227_05	884944
BLANK R3746007-3 WG1795312 1x	1227_08	886012
L1445691-01 WG1795312 1x	1227_11	820316
L1445691-02 WG1795312 1x	1227_12	789337
L1445691-03 WG1795312 1x	1227_13	791738
MS R3746007-4 WG1795312 1x	1227_14	798031
MSD R3746007-5 WG1795312 1x	1227_15	805786

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Is
- <sup>8</sup> Gl
- <sup>9</sup> Al
- <sup>10</sup> Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
R5	MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
R7	LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits.





# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

**Geosyntec**  
 11811 N. Tatum Blvd.,  
 Suite P186  
 Phoenix, AZ 85028

Billing Information:  
**Accounts Payable**  
 11811 N Tatum Blvd, Ste P186,  
 Phoenix, Arizona 85028

CC: [tluttermoser@geosyntec.com](mailto:tluttermoser@geosyntec.com)

Report to:  
**Tory Luttermoser; Fabrizio Mascioni**

Email To:  
**FMascioni@Geosyntec.com**

Project **Nammo Defense Systems, Inc.**  
 Description: **NDS TTU Sampling**

City/State  
 Collected: **Mesa, AZ**

Phone: **480-748-6283**  
 Fax:

Client Project #  
**SP0101GW21/02**

Lab Project #

Collected by (print):  
*Ryan Ayala*

Site/Facility ID #

P.O. #

Collected by (signature):  
*[Signature]*

**Rush?** (Lab MUST Be Notified)

Quote #  
**GEOSYNPAZ052019S**

\_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Date Results Needed

*Standard*

Immediately  
 Packed on Ice N \_\_\_ Y **X**

No. of  
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Perchlorate 314.0/ 125mL HDPE/ No Pres	VOC 8260B/ 40mL amber/HCl	1,4 Dioxane V8260LL14D/40mL amb/HCl
TTU-1-20211221-22	Grab	GW	-	12-21-21	1236	5	X	X	X
TTU-2-20211221-22			-		1258	1	X	X	X
TTU-2-20211221-02p			-		1258	1	X	X	X
Trip Blank				12-22-21		1		X	

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



L # **L1445691**  
**C143**

Accnum: **GEOSYNPAZ**

Template:

Prelogin:

TSR: **Chris Ward**

PB:

Shipped Via:

Remarks Sample # (lab only)

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:

\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)

*[Signature]*

Date:

12-22-21

Time:

1334

Received by: (Signature)

*[Signature]*

Trip Blank Received: Yes / No

HCL / MeOH  
 TBR

Relinquished by: (Signature)

*[Signature]*

Date:

12/22/21

Time:

1800

Received by: (Signature)

*[Signature]*

Temp: \_\_\_\_\_ °C

27.0 / 2.7

Bottles Received:

15

If preservation required by Login: Date/Time

Relinquished by: (Signature)

*[Signature]*

Date:

12/23/21

Time:

830

Received by: (Signature)

*[Signature]*

Date:

12/23/21

Time:

830

Hold:

Condition:

NCF / OK

DNPAZ