



Stantec Consulting Services Inc.
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March 10, 2020
File: 185751317

Attention: Mr. Jeff Newschwander
Washington State Department of Ecology
Central Regional Office
1250 West Alder Street
Union Gap, Washington 98903-0009

Reference: Former Bingo Fuel Stop Annual 2019 Groundwater Monitoring and Sampling Report, Agreed Order No. DE 02TCPCR-3976

- **Site Name:** Former Bingo Fuel Stop
- **Site Address:** Interstate 90 Eastbound Off-Ramp and Thorp Highway South, Thorp, Washington

Dear Mr. Jeff Newschwander,

On behalf of Burns Bros., Inc. (Burns Bros.), this letter report presents the results of the October 2019 groundwater monitoring event conducted at the offsite area adjacent to the former Bingo Fuel Stop property. Groundwater sample collection was performed by CDM Smith, Inc. (CDM Smith). Burns Bros. has retained Stantec Consulting Services Inc. (Stantec) to report the 2019 groundwater sampling results and to conduct additional soil sampling work required for the off-site area under the State of Washington Department of Ecology (Ecology) Agreed Order No. DE 02TCPCR-3976 ("Agreed Order").

The former Bingo Fuel Stop property is located at the intersection of Interstate 90 and Thorp Highway South, in Thorp, Washington. For the purposes of this letter report, the former Bingo Fuel Stop property and the offsite area consisting of the Thorp Highway right-of-way (ROW) and Interstate 90 eastbound off-ramp ROW, are collectively referred to as the "site." The site location is shown on **Figure 1**. Work was performed in general accordance with procedures outlined in CDM Smith's *Operation and Maintenance Plan Monitored Natural Attenuation*, dated August 15, 2002 (O&M Plan) developed under the Agreed Order for the offsite areas adjacent to the former Bingo Fuel Stop property.

SITE BACKGROUND

Historical releases of petroleum hydrocarbons from the former Bingo Fuel stop retail service station located on the property resulted in contamination of soil and groundwater underlying the site. For regulatory cleanup purposes, the property and surrounding area was divided into two areas: 1) the area encompassing the legal description of the former retail service station property, and 2) the adjacent areas (i.e., Thorp Highway ROW and Interstate 90 eastbound off-ramp ROW). The former Bingo Fuel Stop property is currently a vacant lot and is owned by a third party. The northwestern half of the site is paved while the northeastern half has a gravel surface and grass. Grass-covered slopes, drainage swales, and ditches border the paved roadways in the offsite area.

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Petroleum hydrocarbon contaminated soil and groundwater at the former Bingo Fuel Stop property was addressed under the previous Enforcement Order No. DE 92TC-C109, Agreed Order No. 93TC-C171, and Agreed Order No. 95TC-C236. Cleanup activities performed at the former Bingo Fuel Stop property included removing source area contamination beneath the property by excavating and treating approximately 15,700 cubic yards of petroleum contaminated soil and recovering and treating impacted groundwater. Soil containing petroleum hydrocarbon and BTEX concentrations exceeding the site cleanup levels, which were established in Agreed Order No. 95TC-C236, have been removed throughout the property limits. The previous limits of excavation for the soil removal action are shown on **Figure 2**.

Historical groundwater sampling data collected from monitoring wells installed within the property limits also demonstrate that groundwater underlying the site does not contain petroleum hydrocarbons or BTEX at concentrations exceeding the cleanup levels. As stated in a February 5, 2001 letter, Ecology concurs that soil and groundwater remediation within the legal boundaries of the property is complete. Monitoring wells located within the property limits (MW-1, MW-2, MW-3, MW-4 and MW-11) were abandoned by a licensed driller under CDM Smith's supervision on November 15, 2001.

Following the soil removal action completed in 2001, petroleum hydrocarbon-impacted soil and groundwater remained in place in the offsite areas adjacent to and downgradient of the former Bingo Fuel Stop property. Petroleum hydrocarbon contaminated soil and groundwater in the offsite area is addressed under the current Agreed Order (DE 02TCPCR-3976) and CDM Smith's 2002 O&M Plan. The O&M Plan selected monitored natural attenuation (MNA) as the remedy.

Groundwater cleanup levels (CULs) for the offsite area, established in the Agreed Order, are listed as follows:

- Gasoline-, diesel- and lube oil-range total petroleum hydrocarbons (TPH-G, TPH-D and TPH-O) at 1.0 milligrams per liter (mg/L) for each laboratory reported range;
- Benzene at 5.0 micrograms per liter (µg/L)
- Ethylbenzene at 400 µg/L;
- Toluene at 800 µg/L; and,
- Total xylenes at 8,000 µg/L.

From the period of 2002 through 2013, under the terms of the Agreed Order and O&M Plan, CDM Smith conducted annual groundwater monitoring at the point of compliance wells MW-6A, MW-8 and MW-12. Groundwater sampling data demonstrate a long-term trend of decreasing total petroleum hydrocarbon and BTEX concentrations within the offsite groundwater plume. While concentrations of TPH-G and benzene remained slightly greater than the cleanup levels, a decreasing long-term trend was observed, and concentrations were expected to continue to decrease over time. Monitoring of electron receptors indicated that biodegradation of petroleum hydrocarbons was continuing to occur and that there is sufficient assimilative capacity for complete biodegradation of BTEX. Groundwater monitoring data demonstrate that the plume has not migrated to the down-gradient monitoring well MW-12, which is located adjacent to the eastbound on-ramp of Interstate 90. The groundwater plume was assessed as existing in a stable to shrinking condition.

Based on discussions between CDM Smith and Ecology in 2014, additional interim remedial action was taken in an attempt to accelerate the degradation of petroleum hydrocarbons in the most impacted area of groundwater in the vicinity of MW-6A. Enhanced *in-situ* aerobic biodegradation with the installation of ORC

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Advanced® socks (ORC socks) in monitoring well MW-6A, coupled with MNA at the down-gradient wells MW-8 and MW-12, and institutional controls to prevent unintended human contact with contaminated soil and/or groundwater in the offsite area, was implemented as an interim cleanup action.

Natural attenuation occurs passively via a combination of physical, chemical, and biological processes to reduce the mass, toxicity, mobility, volume, and concentration of contaminants in soil and groundwater. ORC socks placed in the saturated interval of a monitoring well can be used to enhance and accelerate the natural degradation rate of residual petroleum hydrocarbon compounds present in groundwater by producing a controlled release of molecular oxygen over a period of up to 12 months per application. The release of molecular oxygen is used by aerobic microorganisms to transform organic contaminants such as petroleum hydrocarbons into carbon dioxide, water and microbial cell mass; thereby, turning the contaminants into substances without harmful effects to human health or the environment. During the period of January 2015 through October 2019, CDM Smith installed ORC socks in the monitoring well MW-6A and continued periodic groundwater monitoring and site inspections to evaluate the effectiveness of the remedy.

SCOPE OF SERVICES

The specific scope of services, completed in January, September and October 2019 consisted of the following items:

- Inspected the former Bingo Fuel Stop site and offsite area for signs of disturbance or development on January 28, 2019 and October 21, 2019;
- Installed ORC socks on January 28, 2019 in monitoring well MW-6A;
- Removed the ORC socks from monitoring well MW-6A on September 13, 2019, at least 30 days prior to collecting groundwater samples, to allow groundwater in the well casing to come to equilibrium with the surrounding formation;
- Measured water levels in five offsite monitoring wells MW6A, MW8, MW9, MW10, and MW12 on October 21, 2019;
- On October 21, 2019, collected groundwater samples from offsite monitoring wells MW6A, MW8, and MW12 via low-flow sampling methods and collected water quality measurements for pH, temperature, conductivity oxidation/reduction potential and dissolved oxygen, during well purging;
- Submitted groundwater samples to an analytical laboratory for analysis of TPH-G by Northwest Method NWTPH-Gx, TPH-D and TPH-O by Northwest Method NWTPH-Dx, and BTEX by EPA Method 8021; and
- Collected a field duplicate sample from monitoring well MW8 during the October 2019 sampling event.

Groundwater level measurements and groundwater sample collection were performed according to the procedures described in **Attachment A**. Groundwater sampling records documenting the field parameters and groundwater levels measured during the field work are included in **Attachment B**. Groundwater samples were delivered to OnSite Environmental Inc. (OnSite), located in Redmond, Washington for laboratory analysis. OnSite's analytical laboratory report is included in **Attachment C**. Analytical results reported by the laboratory were reviewed internally by Stantec for quality assurance/quality control (QA/QC). OnSite appears to have followed their internal QA/QC procedures and no significant anomalies were noted in the data. One result for diesel-range organics, in the sample collected from MW-6A, was reported with an "M" qualifier, indicating that hydrocarbons in the gasoline range are impacting the diesel

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range result. Overlap of gasoline-range organics into the diesel-range indicates that the reported values for diesel-range organics are likely to be biased high. Based on Stantec's review of the analytical report, the data are considered acceptable for use for the purposes of this project.

VISUAL INSPECTION OF THE SITE

Visual inspection of the former Bingo Fuel Stop property and the offsite area was performed by CDM Smith on January 28, 2019 and October 21, 2018. The site inspections revealed no recent signs of surface soil disturbance or development activities on, or adjacent to the former Bingo Fuel Stop property.

GROUNDWATER MONITORING AND SAMPLING RESULTS

Groundwater elevations across as calculated from measurements of the depth to water in the monitoring wells for the October 21, 2019 sampling event are shown on **Figure 2**. Depth to groundwater and elevation data are summarized in **Table 1**. Groundwater sampling analytical results are summarized in **Table 2**. **Figure 3** and **Figure 4** depict benzene and TPH-G concentrations, respectively, over time in groundwater samples collected from monitoring wells MW-6A and MW-8. The following table presents a summary of groundwater flow direction and overall water quality information for the last two sampling events. Groundwater flow and water quality data are relatively consistent with the previous gauging and sampling information for the site. The inferred direction of groundwater flow during the last two sampling events is towards the east southeast towards the Yakima River at a magnitude of approximately 0.002 to 0.004 feet/foot.

Sampling Date	Depth to Water Range (feet below TOC)	Groundwater Flow Direction Estimate	Average Hydraulic Gradient (feet/foot)	Point of Compliance Wells Sampled for the Identified COCs	Wells with Analytical Results Exceeding the site specific CULs for the COCs
10/4/18	5.41 to 21.14	Primarily to east southeast	0.002	MW-6A, MW-8, MW-12	None
10/21/19	8.11 to 22.97	Primarily to east southeast	0.004	MW-6A, MW-8, MW-12	None

COC – Contaminants of Concern

CUL – Cleanup Levels established by Agreed Order No. DE 02TCPCR-3976

TOC – Top of Casing

DISCUSSION

Total petroleum hydrocarbons and BTEX in the groundwater samples collected from the point of compliance monitoring wells (MW-6A, MW-8 and MW-12) have been less than the CULs for the last two annual sampling events conducted in October 2018 and October 2019. Installation of ORC socks in the monitoring well MW-6A, over the period of January 2015 through September 2019, appears to have accelerated the rate of degradation of residual TPH-G and BTEX in groundwater in the vicinity of MW-6A.

The Natural Attenuation Decision Flow Chart, from CDM Smith's O&M Plan, is shown on **Figure 5**. The measured TPH and BTEX concentrations in groundwater samples collected from monitoring wells MW-6A,

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MW-8 and MW-12 have been less than the CULs for two consecutive rounds of sampling. As discussed in the O&M Plan, two consecutive rounds of groundwater sampling with measured TPH and BTEX concentrations less than the CULs, triggers the next phase of confirmation soil sampling. Confirmation soil sampling will evaluate and address residual soil contamination in the offsite area as discussed in the O&M Plan and Agreed Order.

NEXT STEPS

Stantec recommends initiating the soil confirmation sampling at the offsite area of the site, as described in the O&M plan. The scope of work is recommended to include advancing four to six soil borings in the vicinity of the soil samples, identified in the O&M Plan, where confirmation soil samples collected from the excavation limits contained TPH and/or BTEX at concentrations exceeding the CULs. The confirmation soil samples include S191 and S221, located in the Interstate 90 ROW near the northwest corner of the soil removal excavation, and S171, S174 and S175, located in the Thorp Highway ROW along the eastern and northeastern limits of the soil removal excavation. The approximate locations of the confirmation soil samples referenced in the O&M Plan and Agreed Order are shown on **Figure 2**.

Stantec will prepare a work plan with additional detail on the proposed drilling and soil sampling locations and submit the work plan to Ecology for agreement prior to beginning the work. Soil borings should be advanced until groundwater is encountered, and soil samples should be collected from near the top of the water table when water levels are seasonally low. Soil samples will be analyzed for TPH, by the NWTPH-Gx and NWTPH-Dx Methods, and BTEX by EPA Method 8021B. Soil samples will also be collected from shallower depths (i.e. above the water table) if field screening results indicate evidence for contamination in the vadose zone.

LIMITATIONS AND CERTIFICATION

This document entitled Former Bingo Fuel Stop Annual 2019 Groundwater Monitoring and Sampling Report, Agreed Order No. DE 02TCPCR-3976 was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Burns Bros. Inc. (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

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Prepared by August Welch
(signature)

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Reviewed by Cyrus Gorman
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Regards,

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Attachment: Tables and Figures
Attachment A – Low Flow Groundwater Sampling Procedure
Attachment B – Groundwater Sampling Forms
Attachment C – Laboratory Analytical Report

c. Burns Bros. Inc

TABLES AND FIGURES

Table 1
Groundwater Level Measurements
Former Bingo Fuel Stop Site
Thorp, Washington

Well ID	Date	Reference (Top of Casing) Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft amsl)
MW6A	10/21/19	1639.45	22.97	1616.48
MW7	10/21/19	NE	NM	NE
MW8	10/21/19	1626.66	10.53	1616.13
MW9	10/21/19	1617.20	10.15	1607.05
MW10	10/21/19	1628.27	11.35	1616.92
MW12	10/21/19	1623.53	8.11	1615.42

Notes:
ft - feet
amsl - above mean sea level
NE - Not established
NM - Not measured

Table 2
Summary of Chemical Analyses - Groundwater
Former Bingo Fuel Stop
Thorp, Washington

Well I.D.	Sample I.D.	Date	EPA Method 8021				TPH	
			Benzene	Ethylbenzene	Toluene	Xylenes	Gasoline	Diesel ^a
			µg/L				mg/L	
MW6A	MW6A	09/21/99	72	1,000	96	3,650	34	5.1/<0.50
	MW6A	12/16/99	190	610	1,000	2,300	26	<0.25/<0.50
	MW6A	03/23/00	84	100	47	1,600	18	3.3/<0.50
	MW6A	06/15/00	63	28	50	1,580	14	<0.25/<0.50
	MW6A	11/20/00	39	230	21	465	7.5	2.1/<0.50
	MW6A	03/08/01	40	190	30	660	10.0	1.2/<0.50
	MW6A Duplicate	03/08/01	39	200	33	720	10.0	1.6/<0.50
	MW6A	07/13/01	20	2.0	<1.0	11.1	0.63	<0.25/<0.50
	MW-6A-2/02	02/28/02	24	110	11	250	2.5	<0.25/<0.50
	MW-6A	01/15/03	23	87	14	240	2.3	0.6/<0.41
	MW-6A	02/10/04	23	120	19	250	2.2	<0.26/<0.41
	MW-6A	02/15/05	10	110	13	263	2.1	<0.25/<0.40
	MW6A	02/15/06	8.9	190	29	740	4.3	<0.25/<0.40
	MW6A	02/16/07	<1.0	6.6	<1.0	14.4	<0.1	<0.25/<0.40
	MW6A	03/19/08	7.1	220	7.4	534	2.1	<0.25/<0.40
	MW6A	02/09/09	4.6	170	7.9	477	3.0	<0.26/<0.41
	MW6A	02/11/10	5.4	130	3.4	286	2.3	<0.28/<0.41
	MW6A	03/30/11	7.9	180	12.0	730	4.0	<0.36/<0.41
	MW6A	03/29/12	12.0	110	<4.0	292	2.2	<0.28/<0.42
	MW6A	06/20/13	10	24	1.4	76	0.930	<0.6/0.44
	MW6A	01/30/15	14	7.0	<1.0	4.9	1.000	--
	MW6A	08/19/16	5.5	8.2	<1.0	12.1	0.590	0.64/<0.41
	MW6A	10/04/18	3.2	2.0	<1.0	<2.0	0.610	0.51/<0.41 M
	MW6A	10/21/19	1.8	15.0	<1.0	36.5	0.690	0.44/0.41 M
MW8	MW8-10/93	10/29/93	2,800	410	79	950	3.0	<1.0
	MW8-4/95	04/06/95	1,500	330	19	490	3.3	<0.24
	MW8-01/96	01/31/96	1,920	536	33	874	6.32	<0.25/<0.75
	MW8-05/96	05/30/96	267	72	4	58	0.63	<0.25/ 0.76
	MW8-08/96	08/29/96	72.5	17	<1.0	2	0.12	<0.25/<0.75
	MW8-11/96	11/25/96	1,360	338	36	630	2.89	<0.25/<0.75
	MW8-02/97	02/26/97	24.8	8	<1.0	<1.0	0.05	NA
	MW8-5/28/97	05/28/97	799.0	199	11	200	1.84	<0.25/<0.75
	MW8	08/28/97	385	128	3	60	0.87	<0.25
	MW8	11/18/97	411	136	3	41	0.90	0.28
	MW8	02/17/98	47	28	<1.0	<1.0	0.27	<0.25/<0.50
	MW8	03/27/98	760	300	7.5	80	2.4	<0.25/<0.50
	MW8	04/27/98	520	230	<1.0	6.6	1.5	<0.25/<0.50
	MW8	05/22/98	200	75	<1.0	<5.0	0.51	<0.25
	MW8	06/18/98	490	180	21	101	1.60	<0.25/<0.50
	MW8	09/28/98	74	19	9.6	10	0.19	<0.25/<0.50
	MW8	12/09/98	380	120	10.0	113	1.10	<0.25/<0.50
	MW8	03/10/99	320	210	17	200	1.50	<0.25/<0.50
	MW8	06/16/99	250	98	5.3	44	0.70	<0.25/<0.50
	MW8	09/21/99	260	65	5.6	43	0.59	<0.25/<0.50
	MW8	12/16/99	1,700	680	33	640	7.1	<0.25/<0.50
	MW8	03/23/00	700	490	22	414	3.9	<0.25/<0.50
	MW8	06/15/00	94	9.5	<1.0	<1.0	<0.10	<0.25/<0.50
	MW8	11/20/00	550	150	6.6	18.8	1.2	<0.25/<0.50
	MW8	03/08/01	850	250	26	130.0	2.9	<0.25/<0.50
	MW8	07/13/01	120	<5.0	<5.0	<5.0	<0.5	<0.25/<0.50
	MW8 Duplicate	07/13/01	100	<5.0	5.5	<5.0	<0.5	<0.25/<0.50
	MW8-2/02	02/28/02	960	56	6.1	12.0	1.0	<0.25/<0.50
	MW8	01/14/03	1,100	580	81	499	5.2	<0.25/<0.50

Table 2
Summary of Chemical Analyses - Groundwater
Former Bingo Fuel Stop
Thorp, Washington

Well I.D.	Sample I.D.	Date	EPA Method 8021				TPH	
			Benzene	Ethylbenzene	Toluene	Xylenes	Gasoline	Diesel ^a
			µg/L				mg/L	
	MW8A (Duplicate)	01/14/03	1,100	590	89	516	5.6	<0.25/<0.50
	MW8	02/10/04	640	530	81	820	6.2	<0.26/<0.41
	MW8A (Duplicate)	02/10/04	660	550	86	840	6.5	<0.26/<0.41
	MW8	02/15/05	120	1.2	<1.0	<1.0	0.38	<0.26/<0.41
	MW8A (Duplicate)	02/15/05	120	<1.0	<1.0	<1.0	0.28	<0.26/<0.41
	MW8	02/15/06	340	130	26	55.0	1.1	<0.26/<0.41
	MW8A (Duplicate)	02/15/06	360	140	29	58.0	1.1	<0.26/<0.41
	MW8	02/16/07	100	10	5.0	1.8	0.35	<0.25/<0.40
	MW8A (Duplicate)	02/16/07	120	11	5.7	1.9	0.38	<0.25/<0.40
	MW8	03/18/08	180	52	5.7	5.3	0.47	<0.25/<0.41
	MW8A (Duplicate)	03/18/08	190	59	6.3	6.3	0.52	<0.25/<0.40
	MW8	02/09/09	210	100	14.0	118.4	1.4	<0.25/<0.40
	MW8	02/11/10	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW8 (Duplicate)	02/11/10	<1.0	<1.0	<1.0	<1.0	<0.10	<0.25/<0.40
	MW8	03/30/11	28	25	4.6	30.3	0.29	<0.26/<0.41
	MW8 (Duplicate)	03/30/11	30	28	5.1	33.6	0.32	<0.26/<0.42
	MW8	03/29/12	6.9	1.1	<1.0	<2.0	<0.10	<0.26/<0.41
	MW8A (Duplicate)	03/29/12	8.5	1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW8	06/20/13	2.7	<1.0	<1.0	<2.0	<0.10	<0.27/<0.43
	MW8A (Duplicate)	06/20/13	3.4	<1.0	<1.0	<2.0	<0.10	<0.27/<0.44
	MW8	08/19/16	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW8	10/04/18	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW8	10/21/19	<1.0	<1.0	<1.0	<1.0	<0.10	<0.27/<0.43
	MW8A (Duplicate)	10/21/19	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
MW12	MW12	07/14/01	<1.0	<1.0	<1.0	<1.0	<0.10	<0.25/<0.50
	MW12-2/02	02/28/02	<1.0	<1.0	<1.0	<1.0	<0.10	<0.25/<0.50
	MW12	01/15/03	<1.0	<1.0	<1.0	<1.0	<0.10	<0.25/<0.40
	MW12	02/10/04	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	02/15/05	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	02/15/06	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	02/16/07	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	03/18/08	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	02/09/09	<1.0	<1.0	<1.0	<1.0	<0.10	<0.25/<0.40
	MW12	02/11/10	<1.0	<1.0	<1.0	<1.0	<0.10	<0.25/<0.40
	MW12	03/30/11	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.42
	MW12	03/29/12	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	06/20/13	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.42
	MW12	08/19/16	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	10/04/18	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.41
	MW12	10/21/19	<1.0	<1.0	<1.0	<1.0	<0.10	<0.26/<0.42
Bingo Fuel Stop Cleanup Levels			5.0	400	800	8,000	1.0	1.0

Notes:

Bold values indicate the reported concentration exceeds the cleanup level.

Well MW6 was replaced in September 1999 by well MW6A.

a) Northwest Method NWTPH-Dx, quantified as diesel/oil.

mg/L - milligrams per liter.

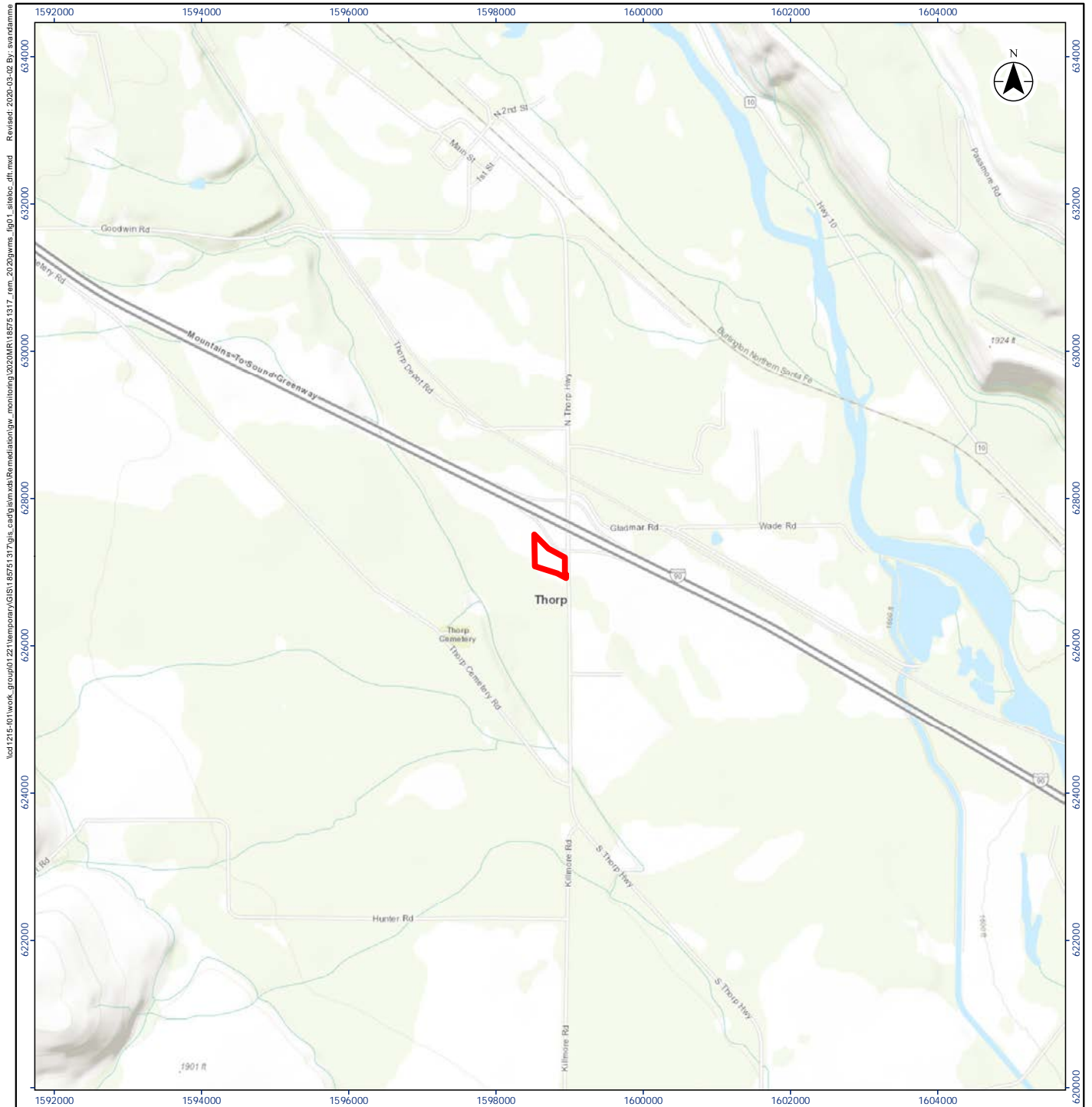
µg/L - micrograms per liter.

NA - not analyzed.

TPH-G and TPH-D analyses in 1993 performed using EPA 8015 Modified.

< - analyte not detected at/or greater than the stated concentration.

M - Hydrocarbons in the gasoline range are impacting the diesel result.



Legend

Approximate Site Boundary

0 1,000 2,000 Feet

1:24,000 (at original document size of 8.5x11)



Project Location
Thorp, Washington

185751317
Prepared by SVD on 3/2/2020

Client/Project
BURNS BROS INC. / BINGO FUEL STOP
2019 GROUNDWATER MONITORING REPORT
THORP, WASHINGTON

Figure No.
1

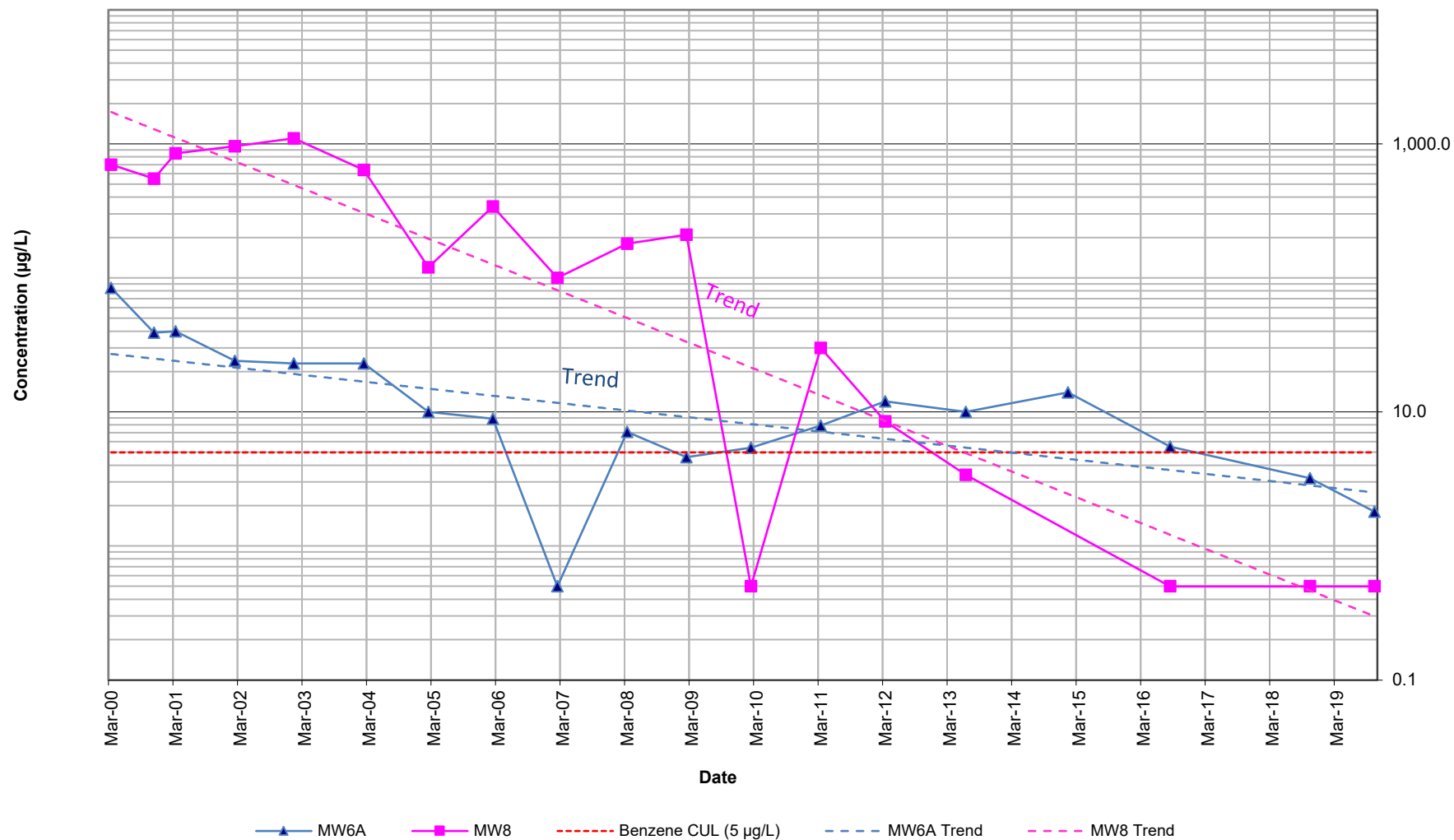
Title
Site Vicinity Map

Notes

1. Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet
2. Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
3. This figure is to be viewed in the context of the accompanying report and is subject to the limitations specified in that report.

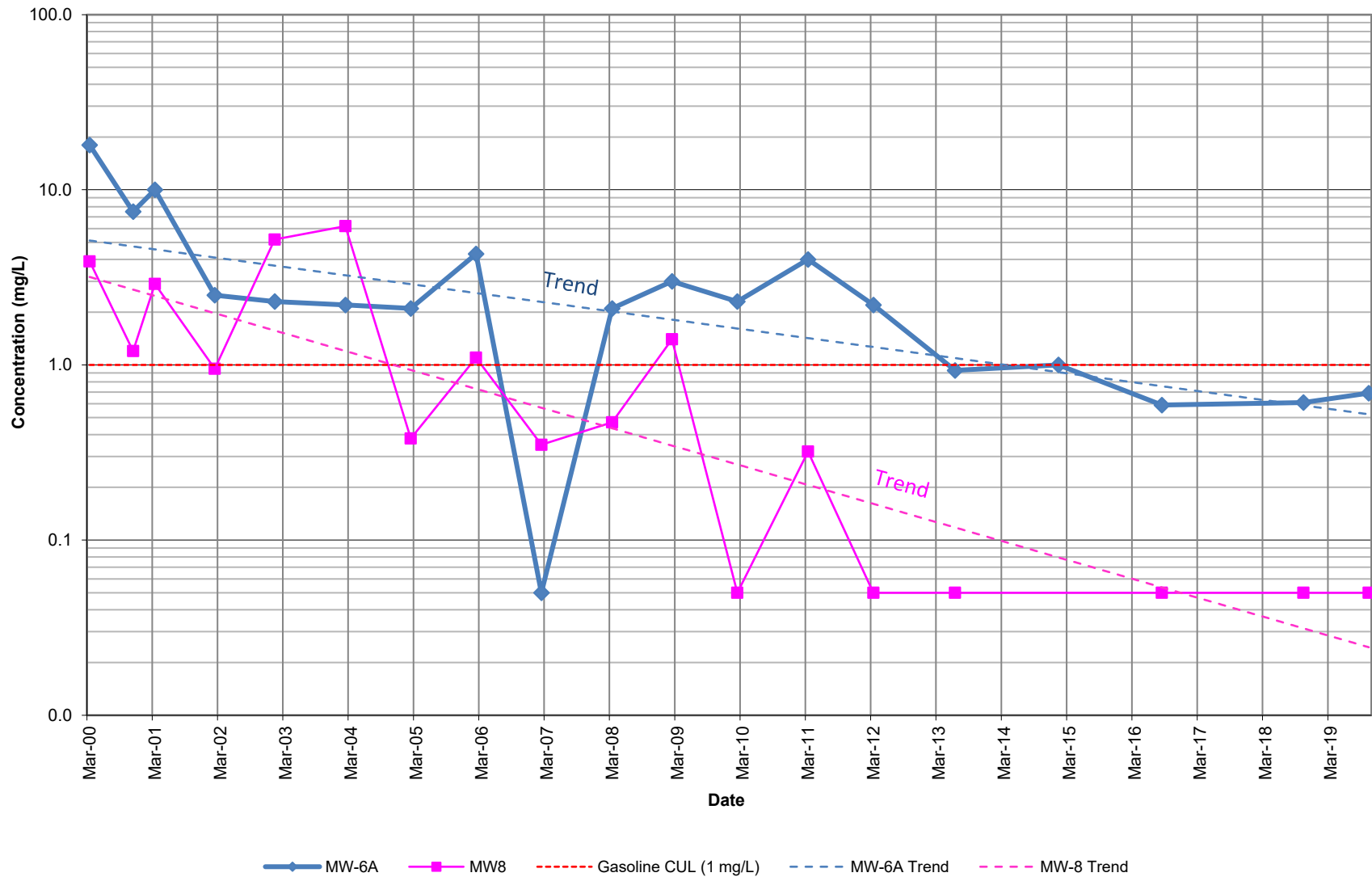
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Benzene Concentrations in Groundwater Samples

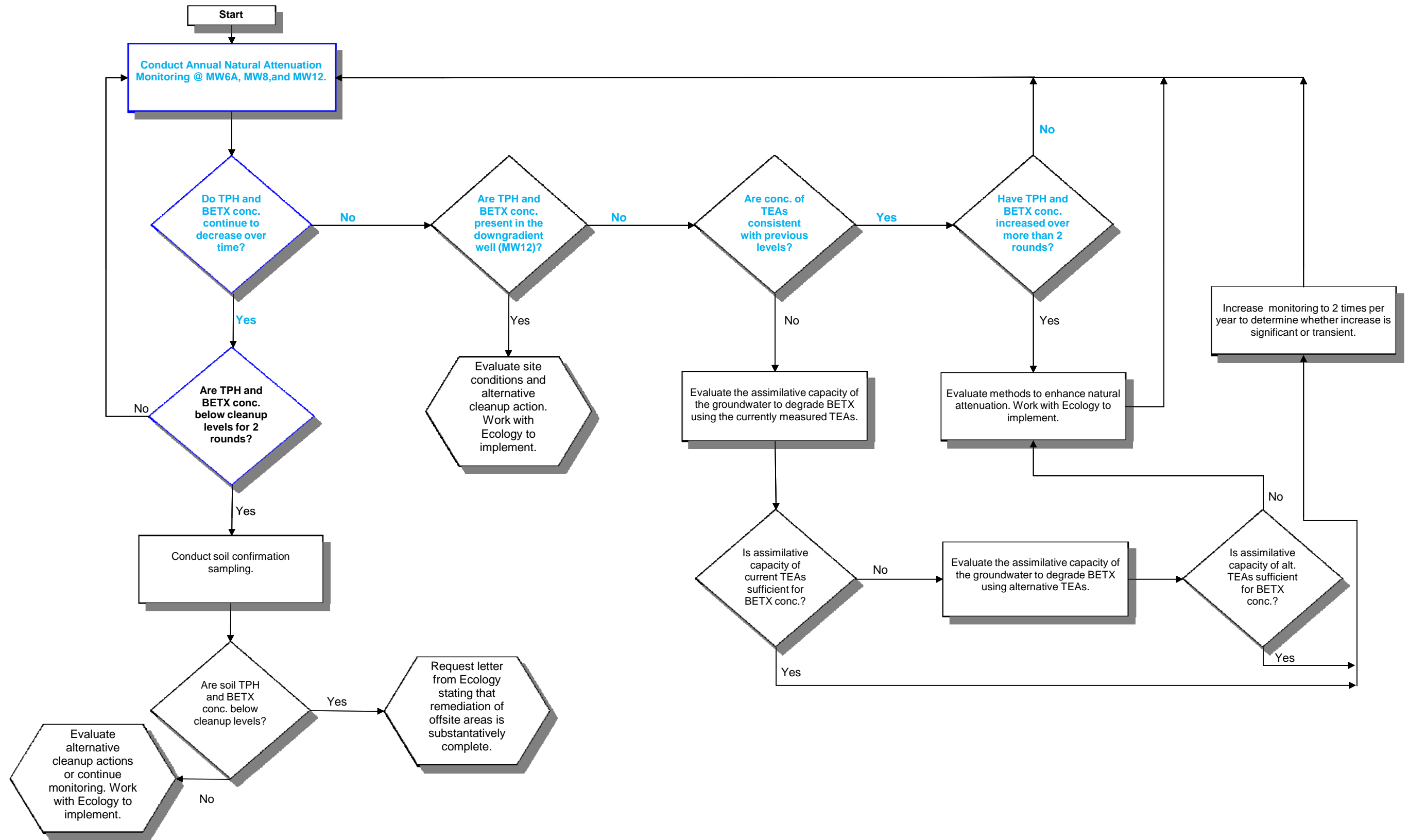


Notes: Non-detect results are reported at one half the method detection limit
 µg/L - micrograms per liter

Gasoline Concentrations in Groundwater Samples



Notes: Non-detect results are reported at one half the method detection limit
mg/L - micrograms per liter



BURNS BROS., INC. / FORMER BINGO FUEL STOP
2019 Groundwater Monitoring Report
Thorp, Washington

Figure 5
Natural Attenuation
Decision Flowchart

ATTACHMENT A

LOW FLOW GROUNDWATER SAMPLING PROCEDURE

Low-Flow Groundwater Sampling Procedure

Groundwater samples will be collected using low-flow sampling techniques to minimize loss of volatile organic compounds (VOCs). A peristaltic pump will be used to sample wells MW-6A, MW-8 and MW12. During well purging, field parameters will be measured by connecting the tubing containing the purge water directly to a flow cell (or equivalent). A portable water quality meter installed in the flow-through cell is used to measure pH, temperature, conductivity, oxidation/reduction potential (ORP), dissolved oxygen (DO), and turbidity. Parameter measurement sensors were calibrated against standards prior to each day of field use.

Groundwater purging, parameter measurement, and sample collection techniques are described in the steps below:

1. Measure water depth to the nearest 0.01 foot using an electronic water-level sounder. Record depth to water measurement on the groundwater sampling form.
2. Connect parameter measurement equipment probes to the flow-through cell.
3. Install the peristaltic pump inlet to the mid-point of the well screen interval.
4. Connect the flow-through cell to the peristaltic or bladder pump discharge line using new tubing for each well.
5. Set controller to initial purge rate of 0.2 to 0.4 liter per minute, directing purge water to the flow through cell.
6. During purging, measure depth to water in the well at 3 to 5-minute intervals and compare this water level to the initial water level. If the purge rate is exceeding the recharge rate, decrease the purge rate to 0.1 liter per minute.
7. Monitor and record the field indicator parameters pH, temperature, conductivity, ORP, DO, and turbidity and record readings at 3 to 5-minute intervals. Record parameter measurements on the groundwater sampling form.
8. Purging is considered complete when indicator parameters have stabilized for three consecutive readings as follows:
 - +/- 0.1 unit for pH
 - +/- 3 percent for conductivity
 - +/- 10 mv for oxidation/reduction potential
 - +/- 10 percent for dissolved oxygen
 - +/- 10 percent for turbidity
9. Immediately after field parameters are stabilized, disconnect the tubing to the flow-through cell and pump water directly into the laboratory supplied sample containers.

Sampling Equipment Decontamination Methods

Disposable polyethylene tubing will be used to sample wells with the peristaltic pump. Any non-dedicated well monitoring equipment (water level indicator) will be decontaminated before and after each sampling or measurement event at each well. The specific procedure is as follows:

1. Wash in solution of non-phosphate-based soap (Alconox) and distilled water. Use nylon pads and brushes to facilitate washing.
2. Rinse in distilled water.

ATTACHMENT B

GROUNDWATER SAMPLING FORMS

[illegible]

Additional Comments _____



LOW FLOW GROUNDWATER SAMPLING RECORD

Sample ID MW-6AWell No. MW-6AProject: Bingo Fuel StopDate: 10-21-19

Project No.: _____

Sampled By: fwWeather: Cloudy

Reviewed By: _____

PURGING	Static Water Level (TOC) <u>22.97</u>				Time <u>1035</u>		Comments		
	Water Volume in Casing				Total Well Depth (TOC)				
	Volume Purged Before Sampling				Screened Interval (TOC)				
	Purging Method <u>Peristaltic</u>				Stabilized Flow Rate <u>~200 ml/min</u>				
	Time	DTW	Cumulative Volume	Temp (°C)	Specific Conductance (microsiemens/cm)	pH	Turbidity	Dissolved Oxygen	Oxidation-Reduction Potential
	1200	Start							
1215	23.05		12.5	737	7.17	L	2.36	-78.9	
1220	23.05		12.6	732	7.15	L	2.24	-78.4	
1224	23.05		12.5	718	7.14	L	2.08	-78.7	
1228	23.05	~1.5 gal	12.5	713	7.14	L	2.05	-78.3	
SAMPLING	Sampling Method								
	Analytical Matrix <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Attached Time Sampled								
	Sample Container		Preserved By		At What pH		Filter Type		Cooled By
	3x 40 ml UBA		HCl		C2		—		RCE
	2x 500 ml Amber		HCl		C2		—		✓
SAMPLE DATA	Appearance / Odor <u>clear / slight</u>								
	pH (last stabilized) <u>7.14</u>				Temperature (°C) <u>12.5</u>				
	Eh (millivolts)				Specific Conductance (microsiemens/cm) <u>713</u>				
	OVM-PID Headspace (ppm)				ORP <u>-78.3</u>				
DISPOSITION	Chain-of-Custody <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Chain-of-Custody ID								
	Duplicate Sample ID				Replicate Sample Nos.				
	Analytical Lab	Lab Name <u>On Site</u>			Date Sent to Lab <u>10/22/19</u>				
		Shipment Method <u>Drive</u>							
	Split with	Name (s)							
		Organization (s)							
	Other								
	Comments								



LOW FLOW GROUNDWATER SAMPLING RECORD

Sample ID MW-8 Well No. MW-8

Project: Bingo Fuel Shop Date: 10/21/19
Project No.: _____ Sampled By: AW
Weather: Cloudy Reviewed By: _____

PURGING	Static Water Level (TOC) <u>10.53</u>				Time <u>10.53</u>		Comments	
	Water Volume in Casing				Total Well Depth (TOC)			
	Volume Purged Before Sampling				Screened Interval (TOC)			
	Purging Method <u>Peristaltic</u>				Stabilized Flow Rate <u>~200 ml/min</u>			
	1300	Start						
	Time	DTW	Cumulative Volume	Temp (°C)	Specific Conductance (microsiemens/cm)	pH	Turbidity	Dissolved Oxygen
	1315	10.56		15.1	285	6.84	L	4.64
	1320	10.56		15.2	273	6.88	L	4.58
	1324	10.56		15.2	273	6.87	L	4.57
	1328	10.56	~1.5 gal	15.3	270	6.87	L	4.54
SAMPLING	Sampling Method <u>Peristaltic</u>							
	Analytical Matrix <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Attached Time Sampled							
	Sample Container		Preserved By		At What pH		Filter Type	
	3x 40 ml VOA		HCl		LL		—	
	2x 500ml Amber		HCl		LL LL		—	
SAMPLE DATA	Appearance / Odor <u>Clear / none</u>							
	pH (last stabilized) <u>6.87</u>				Temperature (°C) <u>15.3</u>			
	Eh (millivolts)				Specific Conductance (microsiemens/cm) <u>270</u>			
	OVM-PID Headspace (ppm)				ORP <u>0.3</u>			
DISPOSITION	Chain-of-Custody <input type="checkbox"/> Yes <input type="checkbox"/> No Chain-of-Custody ID							
	Duplicate Sample ID <u>MW-99</u>				Replicate Sample Nos.			
	Analytical Lab	Lab Name <u>OnSite</u>			Date Sent to Lab <u>10/22/19</u>			
		Shipment Method <u>Drive</u>						
	Split with	Name (s)						
		Organization (s)						
	Other							
Comments								



LOW FLOW GROUNDWATER SAMPLING RECORD

Sample ID MW-12Well No. MW-12Project: Bingo Fuel StopDate: 10-21-19

Project No.: _____

Sampled By: fwWeather: Light Rain

Reviewed By: _____

PURGING	Static Water Level (TOC) <u>8.11</u>				Time <u>1058</u>		Comments	
	Water Volume in Casing				Total Well Depth (TOC)			
	Volume Purged Before Sampling				Screened Interval (TOC)			
	Purging Method <u>Peristaltic</u>				Stabilized Flow Rate <u>~200 ml/min</u>			
	1105	start						
	Time	DTW	Cumulative Volume	Temp (°C)	Specific Conductance (microsiemens/cm)	pH	Turbidity	Dissolved Oxygen
	1120	8.12		14.6	416.4	6.96	L	4.16
	1124	8.12		14.7	416.2	6.98	L	4.16
	1128	8.12	~1.5 gal	14.6	416.7	6.99	L	3.97
SAMPLING	Sampling Method <u>Peristaltic</u>							
	Analytical Matrix <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Attached				Time Sampled			
	Sample Container		Preserved By		At What pH		Filter Type	
	3 x 40 ml VOA		HCL		22		—	
	2 x 500 ml Amber		HCL		22		—	
SAMPLE DATA	Appearance / Odor <u>clear / none</u>							
	pH (last stabilized) <u>6.99</u>				Temperature (°C) <u>14.6</u>			
	Eh (millivolts)				Specific Conductance (microsiemens/cm) <u>416.7</u>			
	OVM-PID Headspace (ppm)				ORP			
DISPOSITION	Chain-of-Custody <input type="checkbox"/> Yes <input type="checkbox"/> No				Chain-of-Custody ID			
	Duplicate Sample ID				Replicate Sample Nos.			
	Analytical Lab	Lab Name <u>On Site</u>			Date Sent to Lab <u>10/22/19</u>			
		Shipment Method <u>Drive</u>						
	Split with	Name (s)						
		Organization (s)						
	Other							
	Comments							

ATTACHMENT C

LABORATORY ANALYTICAL REPORT



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 25, 2019

August Welch
CDM Smith, Inc
14432 SE Eastgate Way, Suite 100
Bellevue, WA 98007-6493

Re: Analytical Data for Project 220378
Laboratory Reference No. 1910-276

Dear August:

Enclosed are the analytical results and associated quality control data for samples submitted on October 21, 2019.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 25, 2019
Samples Submitted: October 21, 2019
Laboratory Reference: 1910-276
Project: 220378

Case Narrative

Samples were collected on October 21, 2019 and received by the laboratory on October 21, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 25, 2019
 Samples Submitted: October 21, 2019
 Laboratory Reference: 1910-276
 Project: 220378

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6A					
Laboratory ID:	10-276-01					
Benzene	1.8	1.0	EPA 8021B	10-23-19	10-23-19	
Toluene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Ethyl Benzene	15	1.0	EPA 8021B	10-23-19	10-23-19	
m,p-Xylene	32	1.0	EPA 8021B	10-23-19	10-23-19	
o-Xylene	4.5	1.0	EPA 8021B	10-23-19	10-23-19	
Gasoline	690	100	NWTPH-Gx	10-23-19	10-23-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	101	59-122				
Client ID:	MW-8					
Laboratory ID:	10-276-02					
Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Toluene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Ethyl Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
m,p-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
o-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Gasoline	ND	100	NWTPH-Gx	10-23-19	10-23-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	59-122				
Client ID:	MW-12					
Laboratory ID:	10-276-03					
Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Toluene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Ethyl Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
m,p-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
o-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Gasoline	ND	100	NWTPH-Gx	10-23-19	10-23-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	59-122				



Date of Report: October 25, 2019
 Samples Submitted: October 21, 2019
 Laboratory Reference: 1910-276
 Project: 220378

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-99					
Laboratory ID:	10-276-04					
Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Toluene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Ethyl Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
m,p-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
o-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Gasoline	ND	100	NWTPH-Gx	10-23-19	10-23-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	59-122				



Date of Report: October 25, 2019
 Samples Submitted: October 21, 2019
 Laboratory Reference: 1910-276
 Project: 220378

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1023W1					
Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Toluene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Ethyl Benzene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
m,p-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
o-Xylene	ND	1.0	EPA 8021B	10-23-19	10-23-19	
Gasoline	ND	100	NWTPH-Gx	10-23-19	10-23-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	96	59-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-240-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				95	96	59-122		

SPIKE BLANKS

Laboratory ID:	SB1023W1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	50.3	47.5	50.0	50.0	101	95	76-120	6	11
Toluene	52.3	49.6	50.0	50.0	105	99	80-116	5	12
Ethyl Benzene	53.2	50.5	50.0	50.0	106	101	80-116	5	12
m,p-Xylene	53.8	51.2	50.0	50.0	108	102	76-117	5	12
o-Xylene	52.7	50.1	50.0	50.0	105	100	79-114	5	11
Surrogate:									
Fluorobenzene				101	100	59-122			



Date of Report: October 25, 2019
 Samples Submitted: October 21, 2019
 Laboratory Reference: 1910-276
 Project: 220378

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6A					
Laboratory ID:	10-276-01					
Diesel Range Organics	0.44	0.26	NWTPH-Dx	10-23-19	10-23-19	M
Lube Oil Range Organics	0.41	0.41	NWTPH-Dx	10-23-19	10-23-19	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	98	50-150				

Client ID:	MW-8					
Laboratory ID:	10-276-02					
Diesel Range Organics	ND	0.27	NWTPH-Dx	10-23-19	10-23-19	
Lube Oil Range Organics	ND	0.43	NWTPH-Dx	10-23-19	10-23-19	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	100	50-150				

Client ID:	MW-12					
Laboratory ID:	10-276-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	10-23-19	10-23-19	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	10-23-19	10-23-19	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	96	50-150				

Client ID:	MW-99					
Laboratory ID:	10-276-04					
Diesel Range Organics	ND	0.26	NWTPH-Dx	10-23-19	10-23-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	10-23-19	10-23-19	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	103	50-150				



Date of Report: October 25, 2019
 Samples Submitted: October 21, 2019
 Laboratory Reference: 1910-276
 Project: 220378

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1023W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	10-23-19	10-23-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	10-23-19	10-23-19	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	88	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-276-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
Surrogate:								
o-Terphenyl				103	103	50-150		



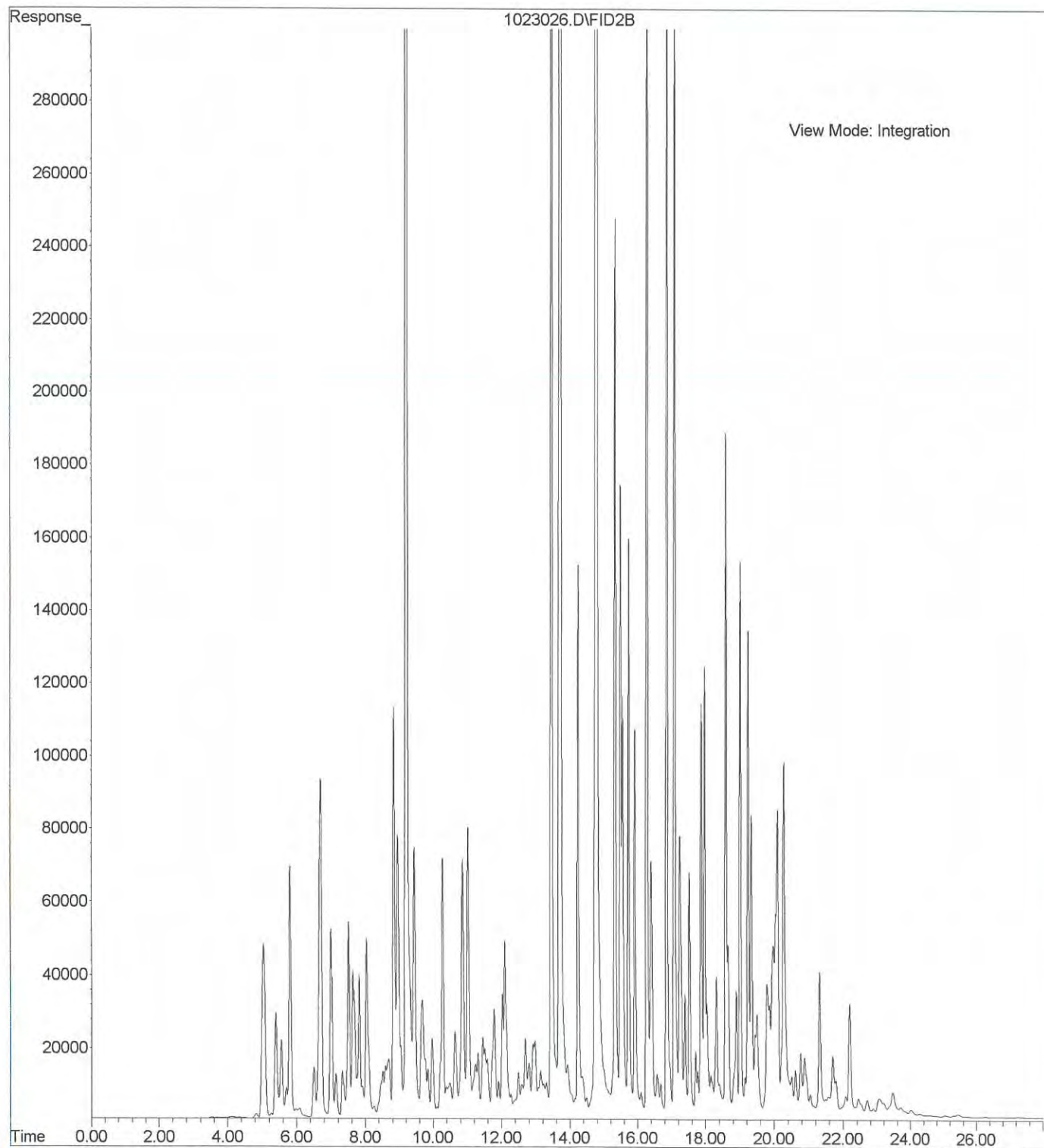


Data Qualifiers and Abbreviations

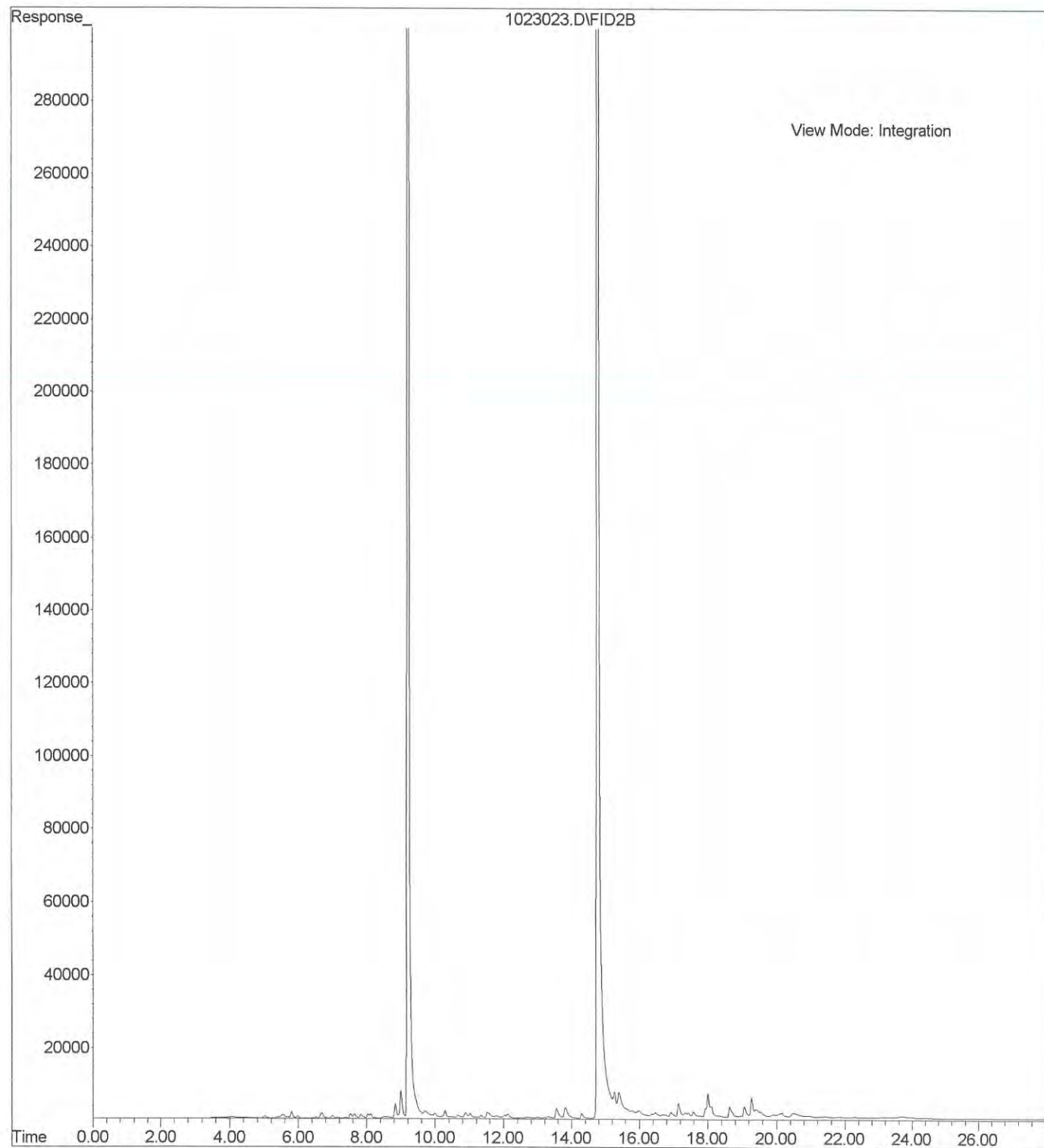
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



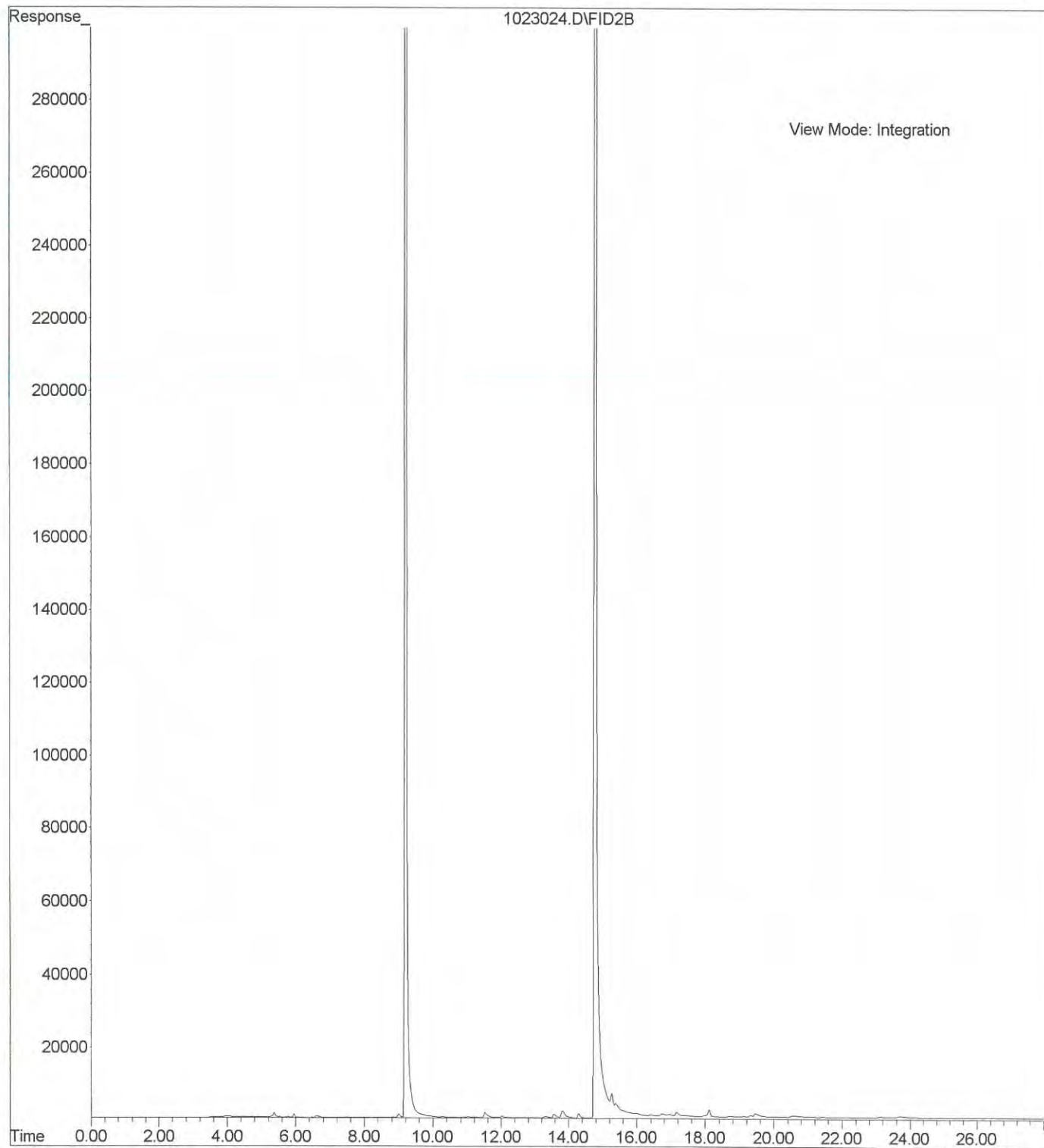
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Operator :
Acquired : 24 Oct 2019 2:42 using AcqMethod 191022B.M
Instrument : Hope
Sample Name: 10-276-01c
Misc Info :
Vial Number: 26



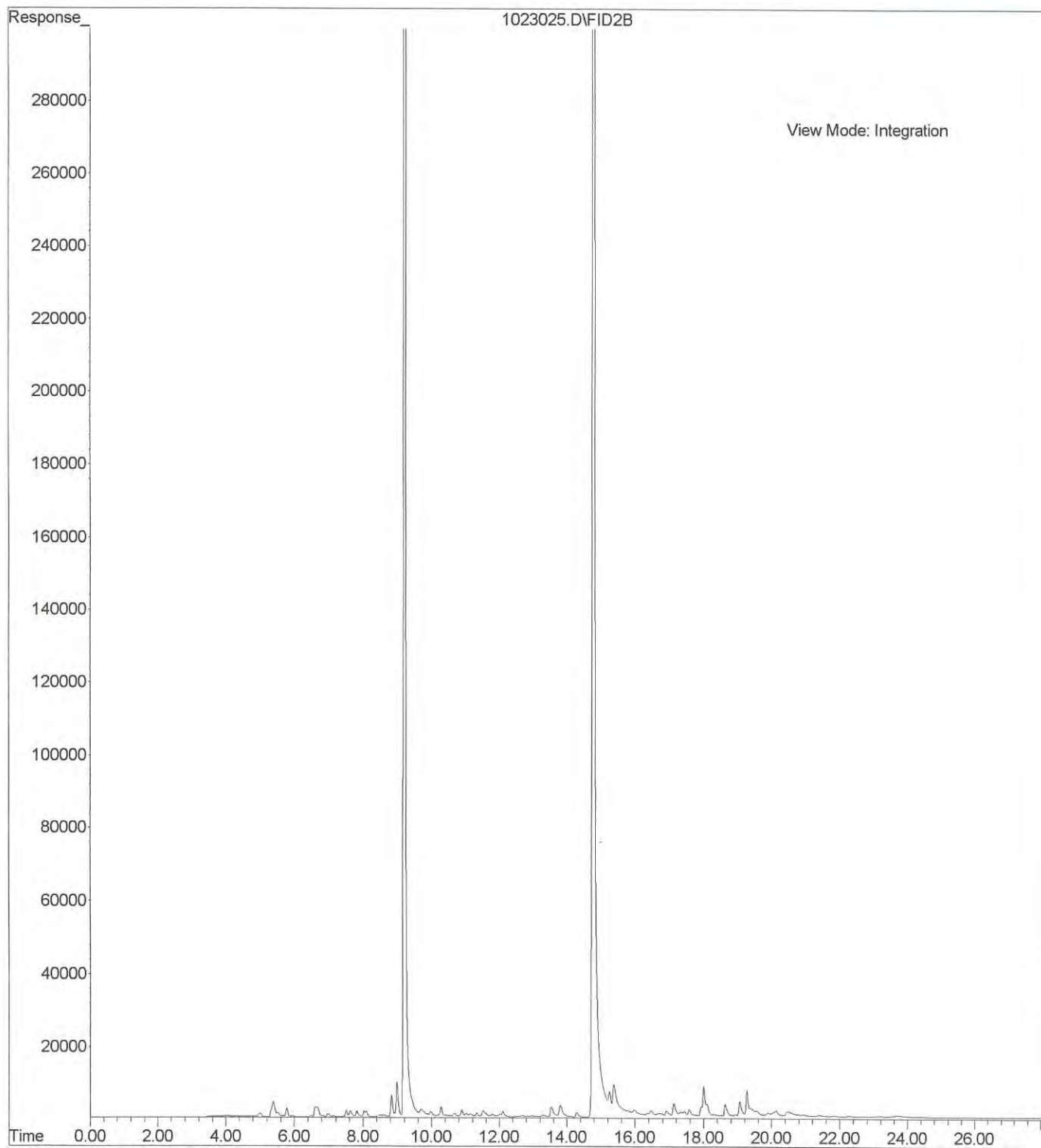
File : X:\BTEX\HOPE\DATA\H191023\1023023.D
Operator :
Acquired : 24 Oct 2019 00:57 using AcqMethod 191022B.M
Instrument : Hope
Sample Name: 10-276-02c
Misc Info :
Vial Number: 23



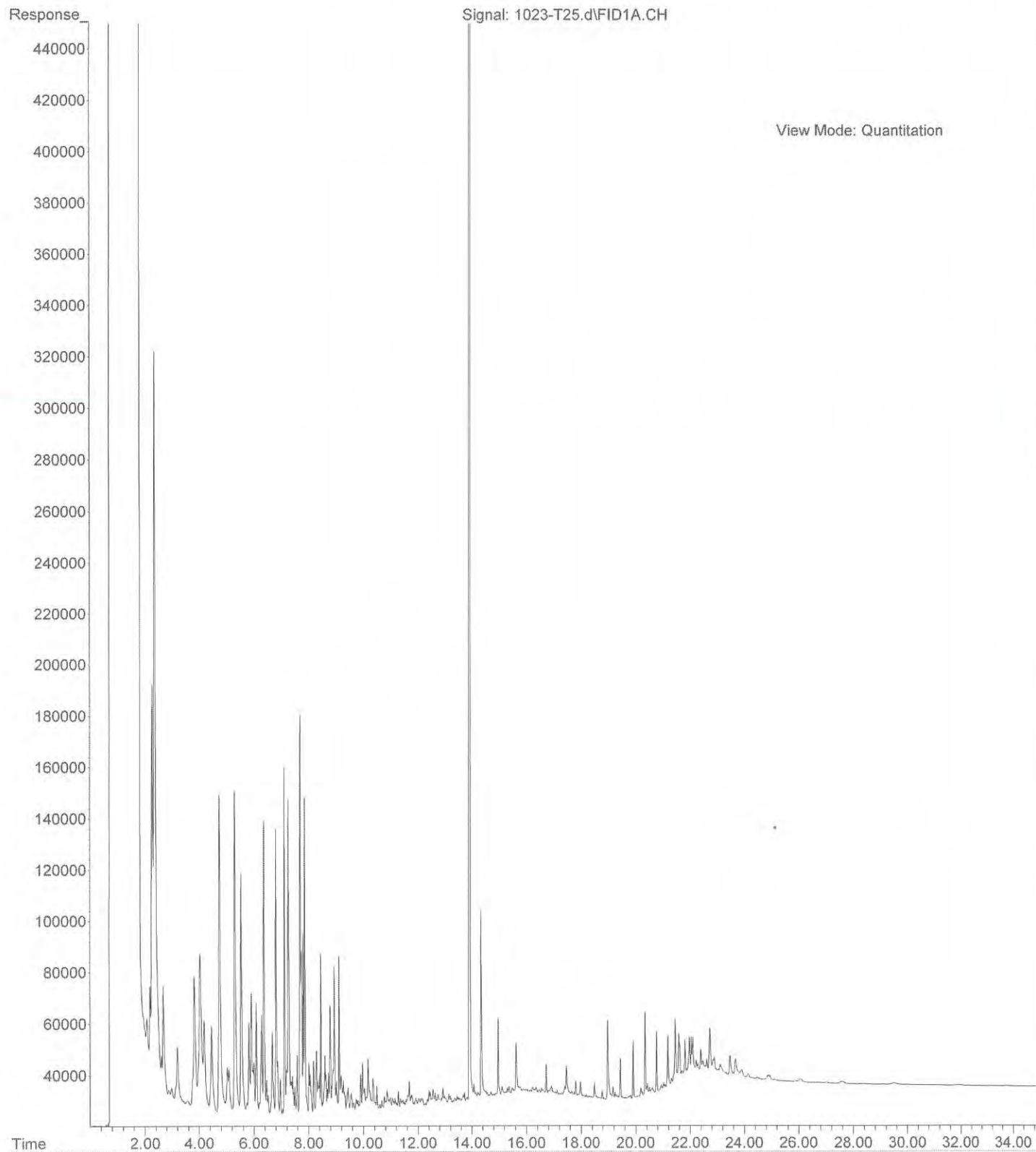
File : X:\BTEX\HOPE\DATA\H191023\1023024.D
Operator :
Acquired : 24 Oct 2019 1:27 using AcqMethod 191022B.M
Instrument : Hope
Sample Name: 10-276-03c
Misc Info :
Vial Number: 24



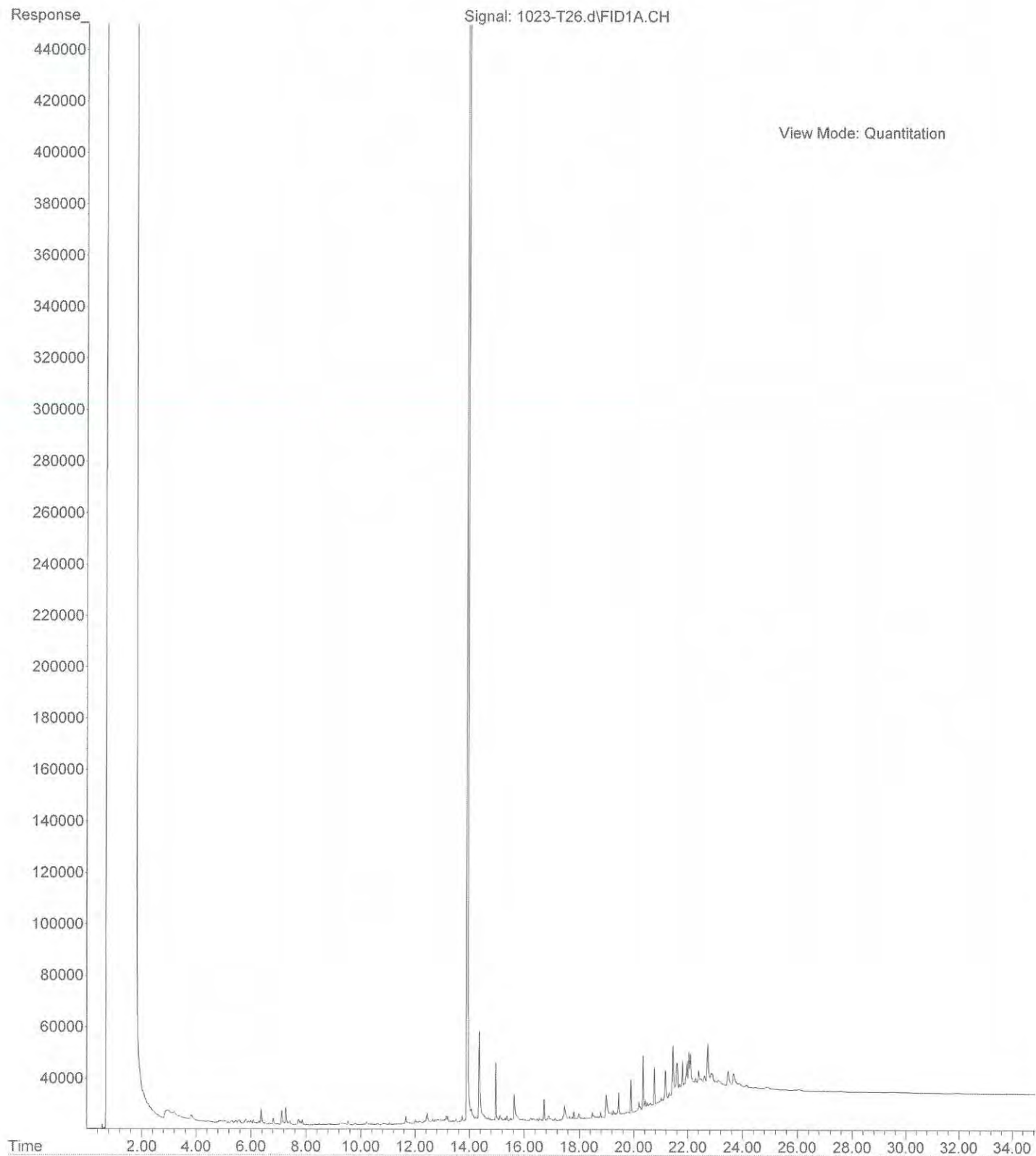
File : X:\BTEX\HOPE\DATA\H191023\1023025.D
Operator :
Acquired : 24 Oct 2019 2:12 using AcqMethod 191022B.M
Instrument : Hope
Sample Name: 10-276-04c
Misc Info :
Vial Number: 25



File :X:\DIESELS\TERI\DATA\T191023\1023-T25.d
Operator : JT
Acquired : 23 Oct 2019 23:43 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-276-01
Misc Info :
Vial Number: 25



File :X:\DIESELS\TERI\DATA\T191023\1023-T26.d
Operator : JT
Acquired : 24 Oct 2019 0:25 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-276-02
Misc Info :
Vial Number: 26



File :X:\DIESELS\TERI\DATA\T191023\1023-T27.d
Operator : JT
Acquired : 24 Oct 2019 1:07 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-276-03
Misc Info :
Vial Number: 27



File :X:\DIESELS\TERI\DATA\T191023.SEC\1023-T75.D
Operator : JT
Acquired : 23 Oct 2019 23:43 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-276-04
Misc Info :
Vial Number: 75

