April 19, 2023

Mr. Steven Moeller, P.G.
Professional Geologist 1
Division of Environmental Remediation, Region 9
New York State Department of Environmental Conservation
700 Delaware Avenue
Buffalo, New York 14209

Re: **Tecumseh Redevelopment Inc. - Lackawanna, New York Site**
EPA ID# NYD002134880
Hazardous Waste Management Units (HWMUs) 1A, 1B, and 2
2022 Annual Groundwater Quality Monitoring Report

Dear Mr. Moeller:

On behalf of Tecumseh Redevelopment Inc. (Tecumseh), TurnKey Environmental Restoration, LLC (TurnKey) has prepared this letter report to transmit the results of the 2022 annual groundwater monitoring event conducted at Hazardous Waste Management Unit No. 1 (HWMU-1A and HWMU-1B) and Hazardous Waste Management Unit No. 2 (HWMU-2) at the Tecumseh Site in Lackawanna, New York (see Figure 1).

TurnKey conducted the groundwater monitoring at HWMUs-1A, -1B and 2 on December 19 through December 21, 2022. The groundwater monitoring network wells are shown on Figures 2 and 3. Table 1 lists the site-specific constituents of concern (SSCOC[1]) that have been previously detected at concentrations above their respective NYSDEC Class GA Groundwater Quality Standards/Guidance Values (GWQS/GVs) at a minimum of one location for each HWMU. A summary of field activities and findings for each HWMU is presented below.

PURPOSE

The activities conducted during the December 2022 groundwater monitoring event were performed in general accordance with the 2017 Groundwater Monitoring, Sampling and Analysis Plan for HWMU-1 and HWMU-2, Tecumseh Redevelopment Inc.

This annual report includes a detailed discussion of current groundwater quality compared to historical data for HWMU-1A, -1B, and -2. Tables and graphs are provided to summarize groundwater elevations, analytical data, and illustrate trends in groundwater quality and flow patterns.

[1] SSCOCs as presented in the December 2017 Groundwater Monitoring, Sampling and Analysis Plan for HWMU-1 and HWMU-2 with added parameters 1,2,4-trimethylbenzene (HWMU-1B) and total phenolic compounds (all units).

GROUNDWATER ELEVATIONS & FLOW

On December 19 and 20, 2022, groundwater elevations were measured in 21 monitoring wells and four piezometers around HWMU-1A/1B and seven monitoring wells around HWMU-2. Table 2 summarizes the depth to water and calculated groundwater elevation for each monitored location. The Lake Erie elevation presented in Table 2 was obtained from the National Oceanic and Atmospheric Administration/National Ocean Service's (NOAA/NOS) Center for Operational Oceanographic Products and Services (CO-OPS) website; Great Lakes Water Level Data Inventory for Station Number 9063020 Buffalo, Lake Erie, New York. The lake elevation used is the average for the 24-hour period preceding the groundwater elevation measurements.

Groundwater elevation data for the current monitoring event are generally consistent with historical data. Attachment 1 includes historical elevation data and elevation versus time plots for each monitoring well and Lake Erie, showing seasonal fluctuations throughout each monitored year. Groundwater and Lake Erie elevations are generally trending downward to historic normal levels.

Figures 2 and 3 are isopotential maps representing the shallow groundwater within HWMU-1 and HWMU-2 using the December 19 and 20, 2022 groundwater elevations. As indicated, the shallow groundwater migrates toward Lake Erie with a localized mound flowing radially outward from HWMU-1B, which is consistent with historic flow patterns at the Site. The groundwater mounding, which is upwards of five feet beneath HWMU-1B, is due to the destruction of the temporary 30-mil reinforced polyvinyl chloride cover in 2005. Tecumseh proposed constructing a cover system over HWMU-1B as the final remedy in the 2019 Corrective Measures Study (CMS) Report. The cover system will be addressed under Operable Unit No. 8 (OU-8) that is part of the Order on Consent File No. R9-20190927-126 (commonly referred to as the Global Consent Order).

RESULTS OF OCTOBER 2021 GROUNDWATER MONITORING

Table 3 (HWMU-1) and Table 4 (HWMU-2) summarize the field-measured parameters and analytical results for the December 2022 groundwater monitoring event. Concentrations in groundwater that exceed NYSDEC Class GA GWQS/GVs are highlighted in yellow. Well MWS-11A served as the upgradient network monitoring sampling location at HWMU-2 due to Well MW-2U1 being historically dry. Attachment 2A includes the groundwater field forms. Attachment 2B includes the analytical data package. The purge water from wells sampled with pH readings greater than 12 were neutralized using dilute muriatic acid until a pH in the range of 9.0 to 10.0 was achieved prior to discharge to the ground surface.

GROUNDWATER QUALITY TRENDS

A comparison of the 2022 analytical results to historical concentrations for each HWMU indicates detections of similar parameters at similar concentrations with limited exceptions. Attachment 3 includes concentration versus time plots by HWMU for the SSCOCs identified in Table 1 along with trend lines for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted. Concentrations reported below method detection limits (MDLs) (i.e., non-detect) are not plotted. The long-term and short-term trends are presented below and provide a qualitative assessment of the long-term and short-term groundwater quality in each HWMU. The 2022 groundwater samples were analyzed for

phenolic compounds via EPA Method 8270 instead of total recoverable phenolics (TRP) via EPA Method 9066 as discussed and agreed with the Department. Attachment 3 includes plots of the sum of phenolic compounds using that historical data with recent data.

HWMU-1A TRENDS

- **Benzene:** Concentrations for this parameter in groundwater are above the GWQS of 1 ug/L in all four wells, with the highest concentration at upgradient Well MW-1U1. The long-term concentration trend is generally decreasing for all wells except MW-1D2, which has a neutral trend but is only slightly above the GWQS.
- **Toluene:** Concentrations for this parameter have been below the GWQS of 5 ug/L in Wells MW-1D2, MW-1D3 and MW-1D4 since 2015. The only well that has been above the GWQS since 2015 and historically the highest concentration is Well MW-1U1. The long-term concentration trends in groundwater are decreasing for Wells MW-1D3, MW-1D4, and MW-1U1. Concentrations in Well MW-1D2 have never been detected above the GWQS.
- **Total Xylenes:** The concentrations in all four wells were above the GWQS in 2022; however, the long-term concentration trend in groundwater is decreasing and approaching the GWQS of 5 ug/L in all four locations. Upgradient Well MW-1U1 had the highest concentration for this parameter consistent with historical findings.
- **1,2,4- and 1,3,5-Trimethylbenzene:** Analysis for these parameters began in 2010 (Wells MW-1D2, MW-1D3 and MW-1D4) and 2013 (Well MW-1U1), with detections above GWQS only observed in Well MW-1D2. The long-term concentration trend for these parameters in groundwater is slightly increasing for Well MW-1D2 with concentrations fluctuating slightly above and below the GWQS of 5 ug/L.
- **Naphthalene:** Concentrations in Well MW-1D4 have been at or below the GWQS for this parameter since 2014. Concentrations in Well MW-1D2 are the highest of the four wells and have historically been above the GWQS of 10 ug/L. The long-term concentration trend is decreasing for all wells except Well MW-1D3, which has a neutral trend with naphthalene concentrations typically below the GWQS.
- **Sum of Phenolic Compounds:** The groundwater concentration for the sum of phenolic compounds at all four wells exceeded the GWQS of 1 ug/L. The long-term trends in groundwater are increasing in all wells; however, the current concentrations are less than historical maximum concentrations for all wells.

In general, the SSCOC concentrations in all wells are trending downward or neutral except for phenolic compounds, 1,2,4- trimethylbenzene, and 1,3,5-trimethylbenzene. Generally, the concentrations of benzene, toluene, and xylene in the upgradient well (MW-1U1) are greater than downgradient wells. The concentrations for the SSCOC are below the historic maximum for the current monitoring period.

HWMU-1B TRENDS

- **Benzene:** Groundwater concentrations for this parameter are currently above the GWQS of 1 ug/L in Wells MW-1U1, MW-1D1, MW-1D7, and MWN-12 with the highest concentration in upgradient Well MW-1U1.The long-term trend is decreasing in Wells MW-1U1, MW-1D7, MW-1D8, and MWN-12. The long-term trend is increasing in Wells MW-1D1 and MW-1D6; however, concentrations were less than 10 and 1 ug/L respectively during the 2022 sampling event. Although the long-term trend is increasing at Well MW-1D1, it has a decreasing trend after 2011.
- **Ethylbenzene:** Groundwater concentrations for this parameter have been below the GWQS of 5 ug/L in all wells except MW-1D1. Although the long-term concentration trend is increasing in Well MW-1D1, concentrations after 2011 have a decreasing trend and dropped below the GWQS (2019 and 2020).
- **Toluene:** Groundwater concentrations for this parameter have been below the GWQS of 5 ug/L since 2019 in all wells except MW-1U1 and MW-1D1. The long-term trend is decreasing in Wells MW-1U1 and MW-1D8 but increasing in Well MW-1D1; however, concentrations in Well MW-1D1 have had a decreasing trend since 2011. Toluene has never been detected above GWQS in Wells MW-1D6, MW-1D7, and MWN-12.
- **Total Xylenes:** Groundwater concentrations for this parameter have been at or below the GWQS of 5 ug/L since 2019 in Wells MW-1D6, MW-1D7, and MWN-12. The long-term trend is decreasing in Wells MW-1U1 and MW-1D8 but increasing in Well MW-1D1; however, xylene has had a decreasing trend at Well MW-1D1 since 2011. Xylene has not been detected above the GWQS in Wells MW-1D6 and MWN-12. Well MW-1D7 has no plotted data because it has historically been non-detect.
- **1,2,4-Trimethylbenzene:** Although not identified as a SSCOC, 1,2,4-trimethylbenzene was detected above the GWQS of 5 ug/L in downgradient Well MW-1D1 starting in 2013; however, the long-term trend is decreasing. Concentrations at all wells except MW-1D1 have been historically below the GWQS of 5 ug/L. Wells MW-1D7 and MWS-12 have no plotted data because they have historically been non-detect.
- **Trichloroethene (TCE):** Groundwater concentrations for this parameter have been below the GWQS of 5 ug/L since 2018 in all wells. The long-term trend is decreasing in Wells MW-1D1 and MW-1D7; the remaining wells have historically been non-detect. Wells MW-1D8, MW-1U1, and MWS-12 have no plotted data because they have historically been non-detect.
- **Cis-1,2-Dichloroethene (DCE):** Groundwater concentrations for this parameter historically have been non-detect or below the GWQS of 5 ug/L in all wells except MW-1D7. The long-term concentration trend in Well MW-1D7 is decreasing. Wells MW-1D6, MW-1U1, and MWS-12 have no plotted data because they have historically been non-detect.
- **Trans-1,2-DCE:** Groundwater concentrations for this parameter historically have been non-detect in all wells except MW-1D7. The long-term concentration trend in Well MW-1D7 is increasing, with a concentration of 23 ug/L in 2022. The increasing trans-1,2-DCE and decreasing TCE concentrations at MW-1D7 may be indicative of TCE

degradation. Wells MW-1D1, MW-1D6, MW-1D8, MW-1U1, and MWS-12 have no plotted data because they have historically been non-detect.

- **Vinyl Chloride:** Groundwater concentrations for this parameter historically have been non-detect in all wells except MW-1D7. Concentrations in Well MW-1D7 show a slight long-term increasing trend; however, the concentration in 2022 was reported as 2.6 ug/L (compared to the GWQS of 2 ug/L). Wells MW-1D1, MW-1D6, MW-1D8, MW-1U1, and MWS-12 have no plotted data because they have historically been non-detect.
- **Benzo(a)anthracene:** Historically, groundwater concentrations for this parameter in Wells MW-1D6, MW-1U1, and MWN-12 have been above the GWQS of 0.002 ug/L. The long-term trend is decreasing for Wells MW-1U1 and MWS-12 but increasing in Well MW-1D6. Many of the results for the wells have been non-detect, although the MDL is higher than the GWQS due to analytical method limitations. Wells MW-1D1 and MW-1D7 have no plotted data because they have historically been non-detect.
- **Bis(2-ethylhexyl)phthalate (DEHP):** Groundwater concentrations for this parameter have been below the GWQS of 5 ug/L since 2019 in all wells except MW-1D1; however, the concentration in 2022 was reported as 7.5 ug/L. The long-term trend is decreasing in Wells MW-1D7 and MW-1D8 but increasing in Wells MW-1D1 and MWN-12, although the concentration in MWN-12 is currently below the GWQS. Concentrations of DEHP in Wells MW-1U1 and MW-1D6 have always been below the GWQS.
- **Chrysene:** Historically, groundwater concentrations for this parameter in Wells MW-1D6, MW-1U1, and MWN-12 have been above the GWQS of 0.002 ug/L. The long-term trend is decreasing for Well MWN-12 but increasing in Wells MW-1D6 and MW-1D8. Many of the results for the wells have been non-detect, although the MDL is higher than the GWQS due to analytical method limitations. Wells MW-1D1, MW-1D7, and MW-1D8 have no plotted data because they have historically been non-detect.
- **Naphthalene:** Groundwater concentrations for this parameter have historically been below the GWQS of 10 ug/L in Well MW-1D7. Concentrations in Wells MW-1D8, MW-1U1, and MWN-12 have an overall decreasing trend but are currently above the GWQS. Concentrations in Well MW-1D6 have an overall neutral trend but are currently equal to the GWQS. Concentrations in Well MW-1D1 have an overall increasing trend but concentrations have been decreasing since 2015.
- **Sum of Phenolic Compounds:** The groundwater concentrations for the sum of phenolic compounds at Wells MW-1D7 and MW-1D8 are currently below the GWQS of 1 ug/L. The concentration for the sum of phenolic compounds at Wells MW-1D1, MW-1D6, MW-1U1, and MWN-12 currently exceed the GWQS of 1 ug/L. The long-term trend is decreasing in Wells MW-1D1 and MW-1D8 but increasing in Well MW-1D6, MW-1U1, and MWN-12. However, the concentrations in Wells MW-1D6 and MWN-12 have decreased compared to 2020. The highest concentration for the sum of phenolic compounds for 2022 was observed in Well MWN-12 (3.86 ug/L) located on the upgradient side of the unit.

In general, the SSCOC concentrations in many wells are trending downward and approaching the GWQSs with a few wells having neutral or increasing trends for certain parameters, but

typically within an order of magnitude of the GWQS. The SSCOC concentrations are below the historic maximum for the current monitoring period except for trans-1,2,-DCE at Well MW-1D7 and benzo(a)anthracene and chyrsene at Well MW-1D6.

HWMU-2 TRENDS

- **Benzene:** Groundwater concentrations of this parameter in Well MW-2D2 have been historically below the GWQS of 1 ug/L. Concentrations in Wells MW-2D3 and MWS-11A have an overall decreasing trend but are currently above the GWQS. Concentrations in Well MW-2D4 show a long-term decreasing trend with concentrations below the GWQS starting in 2021.
- **Ethylbenzene:** Groundwater concentrations of this parameter in Well MW-2D3 trended and have remained below the GWQS of 5 ug/L since 2015. Concentrations in the remaining wells have never been detected above the GWQS.
- **Toluene:** Groundwater concentrations of this parameter in Well MW-2D3 has an overall decreasing trend and is currently below the GWQS. Concentrations in the remaining wells have never been detected above the GWQS.
- **Total Xylenes:** Groundwater concentrations of this parameter in Well MW-2D3 are currently above the GWQS of 5 ug/L but have an overall decreasing trend. Concentrations in Well MW-2D4 have an overall decreasing trend and have remained below the GWQS since 2008. The concentration observed in upgradient Well MWS-11A has an overall increasing trend but is currently below the GWQS. Concentrations in Well MW-2D2 have never been detected above the GWQS.
- **1,2,4-Trimethylbenzene:** This parameter was first detected in Well MW-2D3 in 2011 at a concentration slightly above the GWQS of 5 ug/L. Since 2014, the concentration in Well MW-2D3 has decreased and subsequently dropped below the GWQS in 2017. Concentrations in the remaining wells have never been detected above the GWQS. Wells MW-2D2 and MW-2D4 have no plotted data because they have historically been non-detect.
- **Chrysene:** Concentrations of this parameter in Well MW-2D3 have been reported above the GWQS of 0.002 ug/L; however, the long-term trend is neutral. In 2017, chrysene was detected in upgradient Well MWS-11A at a concentration above the GWQS. Many of the results for the wells have been non-detect, although the MDL is higher than the GWQS due to analytical method limitations. Wells MW-2D2 and MW-2D4 have no plotted data because they have historically been non-detect.
- **Naphthalene:** Groundwater concentrations of this parameter in Well MW-2D2 have historically been below the GWQS of 10 ug/L. Concentrations in Well MW-2D4 have an overall decreasing trend and have remained below the GWQS since 2008. Concentrations in Wells MW-2D3 and MWS-11A have an overall decreasing trend but currently exceed the GWQS.
- **Sum of Phenolic Compounds:** The sum of phenolic compounds has not been detected above GWQS in Wells MW-2D2 and MW-2D4. Upgradient Well MWS-11A had the highest concentration for the sum of phenolic compounds (44.2 ug/L, estimated) and

has an increasing trend. The concentration in Well MW-2D3 was reported slightly above the GWQS but has an overall decreasing trend.

In general, the SSCOC concentrations in all downgradient wells are trending downward with concentrations in Well MW-2D3 (center of unit) being greater than MW-2D2 and MW-2D4. SSCOC concentrations generally have been similar in upgradient Well MWS-11A and downgradient Well MW-2D3, indicating that HWMU 2 is not significantly impacting groundwater concentrations. The SSCOC concentrations are below the historic maximum for the current monitoring period except for chrysene (at MW-2D2, MW-2D4, and MWS-11A) and the sum of phenolic compounds (at MW-2D2 and MWS-11A). Additionally, the concentrations of SVOC SSCOCs in upgradient Well MWS-11A are greater than downgradient wells.

NYSDEC EQuIS Deliverables

On March 29, 2023, TurnKey submitted the analytical data in Electronic Data Deliverable (EDD) format to NYSDEC on behalf of Tecumseh using the NYSDEC database software application EQuIS™.

Cover System Inspection

On November 15, 2022, an inspection of the cover system over HWMU-1A was completed by TurnKey, as requested by NYSDEC in its December 11, 2018 CMS Report comment letter. The cover system is intact with a good stand of vegetation and no signs of erosion or breach by vectors. Attachment 4 includes the Field Inspection Report and photographs.

Planned Activities

The next groundwater monitoring event for HWMU-1 and HWMU-2 is tentatively scheduled for August 2023. The next HWMU-1A cover system inspection will be performed concurrent with the groundwater monitoring.

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

Brock Greene
Senior Project Environmental Scientist

Att.
ec: Stan Radon (NYSDEC Region 9)
Keith Nagel (Tecumseh Redevelopment)
Thomas Forbes (TurnKey)

File: 0071-022-240

TABLES

TABLE 1

SUMMARY OF SITE-SPECIFIC CONSTITUENTS OF CONCERN

Hazardous Waste Management Units HWMU-1 & HWMU-2
Tecumseh Redevelopment Inc.
Lackawanna, New York

Parameter	HWMU 1A	HWMU 1B	HWMU 2
Site-Specific Volatile Organic Compounds (SS-VOCs)-Method 8260C (CP-51 compounds in blue)			
Benzene	X	X	X
cis-1,2-Dichloroethene		X	
trans-1,2-Dichloroethene		X	
Ethylbenzene		X	X
Toluene	X	X	X
Trichloroethene		X	
1,2,4-Trimethylbenzene	X	X	X
1,3,5-Trimethylbenzene	X		
Vinyl chloride		X	
Xylenes, Total	X	X	X
TCL List Semi-Volatile Organic Compounds (SS-SVOCs)-Method 8270D			
Benzo(a)anthracene		X	
Bis(2-ethylhexyl) phthalate		X	
Chrysene		X	X
Naphthalene	X	X	X
Phenolic Compounds	X	X	X

Notes:

1. Parameter lists were modified in September 2009 with NYSDEC approval.

TABLE 2

SUMMARY OF GROUNDWATER ELEVATIONS
December 20, 2022

2022 Annual Event
Hazardous Waste Management Units HWMU-1 & HWMU-2
Tecumseh Redevelopment Inc.
Lackawanna, New York

Location	TOR Elevation [1]	DTW (fbTOR)	GWE [1]
HWMU-1A & 1B MONITORING WELLS (25)			
MW-1D1	610.59	32.76	577.83
MW-1D2	614.46	42.60	571.86
MW-1D3	612.69	40.22	572.47
MW-1D4	612.52	40.00	572.52
MW-1D5	613.49	41.03	572.46
MW-1D6	610.94	38.35	572.59
MW-1D7	611.26	36.13	575.13
MW-1D8	610.74	35.20	575.54
MW-1U1	613.18	40.04	573.14
MWN-03	611.96	39.77	572.19
MWN-04	623.45	51.80	571.65
MWN-05A	622.84	51.24	571.60
MWN-12	608.59	36.35	572.24
MWN-13A	607.32	33.81	573.51
MWN-28A	595.76	22.95	572.81
MWN-29A	596.19	23.43	572.76
MWN-35A	608.71	35.80	572.91
MWN-36A	598.42	24.76	573.66
MWN-42A	579.37	6.91	572.46
P-4S	610.85	38.55	572.30
P-5S	616.71	44.88	571.83
P-6S	618.92	47.10	571.82
P-7S	610.59	38.43	572.16
WT8-01	612.49	39.87	572.62
WT8-02	645.62	73.87	571.75
HWMU-2 MONITORING WELLS (8)			
MW-2D2	632.60	59.55	573.1
MW-2D3	635.52	62.42	573.1
MW-2D4	629.60	56.17	573.4
MW-2U1	629.69	DRY	DRY
MWS-09	630.82	57.96	572.9
MWS-11A	639.86	65.02	574.8
MWS-15	627.43	52.30	575.1
MWS-26A	625.61	53.07	572.5
LAKE ERIE			
Lake Erie [2]	NA	NA	571.5

Notes:
1. Top of Riser (TOR) elevation and Groundwater Elevation (GWE) are measured in feet referenced to NAVD 88 Datum.
2. Source: NOAA Tides & Currents Web Page - Buffalo, NY Station ID 9063020

= Measurment collected on 12/19/22

Acronyms:
fbTOR = feet below top of riser or casing
NA = Not applicable

TABLE 3

SUMMARY OF HWMU-1 GROUNDWATER ANALYTICAL RESULTS

December 2022 Annual Event
Hazardous Waste Management Units HWMU-1A & HWMU-1B
Tecumseh Redevelopment Inc.
Lackawanna, New York

Parameter[1]	GWQS[2]	Monitoring Well and HWMU Location																	
		MW-1D1 (HWMU-1B)		MW-1D2 (HWMU-1A)		MW-1D3 (HWMU-1A)		MW-1D4 (HWMU-1A)		MW-1D6 (HWMU-1B)		MW-1D7 (HWMU-1B)		MW-1D8 (HWMU-1B)		MWN-12 (HWMU-1B)		MW-1U1 (HWMU-1A/1B)	
Field Measurements[3]:																			
Sample No.	--	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*
pH (units)	**6.5 - 8.5**	**11.07**	**11.16**	**11.93**	**12.00**	**11.88**	**11.84**	**11.84**	**11.89**	**11.64**	**11.26**	8.39	8.33	**11.32**	**11.26**	**12.60**	**12.62**	**12.16**	**12.21**
Temperature (°C)	**NA**	12.1	11.9	10.7	10.4	11.3	11.4	12.1	12.2	11.8	12.1	12.9	12.4	12.1	12.3	11.6	11.4	10.7	10.1
Sp. Conductance (uS)	**NA**	3039	2978	2030	2038	3297	2669	2275	2069	3759	3719	3206	3208	2291	2296	3225	3226	2261	2277
Turbidity (NTU)	**NA**	10.60	16.90	24.40	20.90	25.3	18.2	3.92	3.55	26.60	19.80	4.93	5.08	4.29	3.72	1.75	1.70	14.10	19.20
DO (ppm)	**NA**	1.13	1.15	1.18	1.23	0.86	0.82	(5)	(5)	1.33	1.98	1.33	1.52	3.15	3.28	2.16	2.24	1.98	2.95
Eh (mV)	**NA**	--87	-89	-259	-260	-345	-344	-299	-302	-87	-140	-222	-225	-88	-58	-226	-225	-221	-222
Total Volume purged (gallons)	**NA**	6.5		5.5		7		5		2.25		10		7		8.5		6	
Appearance and Odor	**NA**	Clear, slight odor	Clear, slight odor	Clear, slight odor	Clear, slight odor	Clear, slight odor	Clear, slight odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor	Clear, no odor
Volatile Organic Compounds (ug/L):																			
Acetone	**50***	ND		--		--		--		3.7 J		ND		ND		ND		2.5 J	
Benzene	**1**	**7.7**		**2.3**		**10**		**8.1**		0.94		**7.2**		0.17 J		**2.9**		**36**	
Carbon Disulfide	**--**	ND		--		--		--		1.6 J		ND		ND		ND		ND	
1,1-Dichloroethane	**5**	ND		--		--		--		1 J		ND		ND		ND		ND	
cis-1,2-Dichloroethene	**5**	ND		--		--		--		ND		**19**		ND		ND		ND	
trans-1,2-Dichloroethene	**5**	ND		--		--		--		ND		**23**		ND		ND		ND	
Ethylbenzene	**5**	**15**		ND		ND		ND		ND		ND		ND		ND		ND	
Isopropylbenzene	**5**	0.71 J		ND		ND		ND		ND		ND		ND		ND		ND	
N-Propylbenzene	**5**	1.1 J		ND		ND		ND		ND		ND		ND		ND		ND	
Styrene	**5**	2.8		--		--		--		ND		ND		ND		ND		ND	
Toluene	**5**	**6.8**		2.2 J		4.1		3.2		ND		ND		ND		0.92 J		**6.7**	
Trichloroethene	**5**	5.0		--		--		--		ND		0.73		ND		ND		ND	
1,2,4-Trimethylbenzene	**5**	**25**		**12**		ND		ND		0.74 J		ND		ND		ND		0.72 J	
1,3,5-Trimethylbenzene	**5**	1.1 J		**6.7**		0.83 J		1.2 J		ND		ND		1 J		0.74 J		1 J	
Vinyl Chloride	**2**	ND		--		--		--		ND		**2.6**		ND		ND		ND	
m-Xylene & p Xylene	**5**	**14**		4.5		2.8		2.7		ND		ND		ND		0.77 J		4.9	
o-Xylene	**5**	**33**		3.2		4.3		2.9		ND		ND		ND		0.82 J		4.9	
Xylenes, Total	**5**	**47**		**7.7**		**7.1**		**5.6**		ND		ND		ND		1.59 J		**10**	

TABLE 3

SUMMARY OF HWMU-1 GROUNDWATER ANALYTICAL RESULTS

December 2022 Annual Event
Hazardous Waste Management Units HWMU-1A & HWMU-1B
Tecumseh Redevelopment Inc.
Lackawanna, New York

Parameter[1]	GWQS[2]	Monitoring Well and HWMU Location								
		MW-1D1 (HWMU-1B)	MW-1D2 (HWMU-1A)	MW-1D3 (HWMU-1A)	MW-1D4 (HWMU-1A)	MW-1D6 (HWMU-1B)	MW-1D7 (HWMU-1B)	MW-1D8 (HWMU-1B)	MWN-12 (HWMU-1B)	MW-1U1 (HWMU-1A/1B)
Semi-Volatile Organic Compounds (ug/L):										
2-Methylphenol	**1****	1 J	0.67 J	**3.2 J**	0.88 J	**1.2 J**	ND	ND	0.86 J	0.7 J
2-Methylnaphthalene	**--**	1.1	60	1.2	1.4	1.1	0.04 J	ND	8.2	1.2
3-Methylphenol/4-Methylphenol	**1****	0.97 J	**2 J**	**10**	**2.7 J**	**2 J**	ND	ND	**2.7 J**	**2.1 J**
Acenaphthene	**20***	0.26	0.96	0.62	0.74	0.22	0.49	0.05 J	3.2	0.66
Acenaphthylene	**--**	5.0	22	0.72	1.0	0.23	0.12	0.32	3.6	1.5
Acetophenone	**--**	ND	0.63 J	0.31	ND	ND	ND	ND	ND	ND
Anthracene	**50***	0.12	0.46	ND	0.26	0.51	0.26	0.12	3.1	0.45
Benzo(a)anthracene [4]	**0.002***	ND	**0.03 J**	ND	ND	**0.76**	ND	ND	**0.14**	**0.05 J**
Benzo(a)pyrene [4]	**0 (ND)**	ND	ND	ND	ND	**0.18**	ND	ND	ND	**0.03 J**
Benzo(b)fluoranthene [4]	**0.002***	**0.01 J**	ND	ND	ND	**0.64**	ND	ND	**0.03 J**	**0.05 J**
Benzo(ghi)perylene	**--**	ND	ND	ND	ND	0.1 J	ND	ND	ND	0.02 J
Benzo(k)fluoranthene [4]	**0.002***	ND	ND	ND	ND	**0.22**	ND	ND	**0.01 J**	**0.02 J**
Biphenyl	**5**	1.5 J	4.6	ND	ND	ND	ND	ND	1.9 J	ND
Bis(2-Ethylhexyl)phthalate	**5**	**7.5**	ND	ND	ND	2.2 J	ND	ND	ND	ND
Caprolactam	**--**	ND	ND	ND	ND	ND	ND	ND	ND	3.4 J
Carbazole	**--**	ND	1.5 J	1.4 J	1.7 J	2.5	ND	ND	6.7	1.7 J
Chrysene [4]	**0.002***	ND	**0.02 J**	**0.01 J**	**0.02 J**	**1.1**	ND	ND	**0.18**	**0.09 J**
Dibenzo(ah)anthracene	**--**	ND	ND	ND	ND	0.03 J	ND	ND	ND	ND
Dibenzofuran	**--**	1.6 J	6.9	0.71 J	1.1 J	1.2 J	ND	ND	8.0	0.95 J
Di-n-butylphthalate	**50**	ND	ND	ND	ND	ND	ND	0.39 J	0.58 J	ND
Fluoranthene	**50***	0.1	0.64	0.43	0.61	8.4	0.31	0.09 J	6.5	1.4
Fluorene	**50***	0.83	4	1.3	1.9	0.73	4.0	0.25	12	1.8
Indeno(1,2,3-cd)pyrene [4]	**0.002***	ND	ND	ND	ND	**0.12**	ND	ND	ND	**0.02 J**
Naphthalene	**10***	**140 D**	**170 D**	8.6	5.6	10	0.34	ND	**48**	**16**
NDPA/DPA	**--**	ND	ND	0.73 J	ND	ND	ND	ND	ND	ND
Pentachlorophenol	**1****	ND	0.74 J	0.63 J	0.58 J	ND	ND	ND	0.3 J	ND
Phenanthrene	**50***	0.20	2.7	1.7	2.5	12	0.07 J	0.05 J	24	2.9
Phenol	**1****	ND	**2.8 J**	**76**	ND	ND	ND	ND	ND	0.88 J
Pyrene	**50***	0.08 J	0.44	0.3	0.39	5.0	0.18	0.06 J	4.5	1.4
Total Phenolic Compounds	**1****	***1.97 J***	***6.21 J***	***89.83 J***	***6.08 J***	***3.2 J***	*ND*	*ND*	***3.86 J***	***3.68 J***

Notes:

1. Only those VOCs and SVOCs detected above the method detection limit at a minimum of one sample location are reported in this table.
2. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV) per 6 NYCRR Part 703.
3. Field measurements were collected immediately before and after groundwater sample collection.
4. Method detection limits for this compound are above the GWGV.
5. Dissolved oxygen meter malfunction.

Acronyms:

J = Estimated Value

BOLD = exceeds GWQS/GV

"--" = Not analyzed for this parameter

ND = Parameter was not detected above laboratory method detection limit.

" * " = The Guidance Value was used where a Standard has not been established.

" ** " = General GWQS of 1.0 ug/L for total phenolic compounds.

TABLE 4

SUMMARY OF HWMU-2 GROUNDWATER ANALYTICAL RESULTS

December 2022 Annual Event
Hazardous Waste Management Unit HWMU-2
Tecumseh Redevelopment Inc.
Lackawanna, New York

Parameter [1]	GWQS [2]	Monitoring Well							
		MW-2D2		MW-2D3		MW-2D4		MWS-11A	
Field Measurements [3]:									
Sample No.	--	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*	*Initial*	*Final*
pH (units)	**6.5 - 8.5**	**9.80**	**9.80**	**11.40**	**11.38**	8.04	8.04	**12.13**	**11.91**
Temperature (°C)	**NA**	14.3	14.6	12	12	13.2	13.4	10.7	10.5
Sp. Conductance (mS)	**NA**	969.3	970.8	1163	1134	1330	1320	1890	1828
Turbidity (NTU)	**NA**	7.11	8.65	20.2	33.5	5.37	5.22	50	47.9
DO (ppm)	**NA**	2.47	2.41	3.00	2.43	9.03	8.99	2.7	3.24
Eh (mV)	**NA**	-59	-53	-256	-242	101	110	-251	-242
Total Volume Purged (gallons)	--	4		1.75		3.5		18	
Appearance and Odor	**NA**	Clear No odor	Clear No odor	Clear Slight odor	Clear Slight odor	Clear No odor	Clear No odor	Clear Slight odor	Clear Slight odor
Volatile Organic Compounds (ug/L):									
Benzene	**1**	ND		**8.3**		ND		**2.0**	
Ethylbenzene	**5**	ND		1.5 J		ND		ND	
Toluene	**5**	ND		4.4		ND		1.4 J	
1,2,4-Trimethylbenzene	**5**	ND		2.5		ND		2.5	
1,3,5-Trimethylbenzene	**5**	ND		1.2 J		ND		1.2 J	
m-Xylene & p-Xylene	**5**	ND		**8.4**		ND		3.1	
o-Xylene	**5**	ND		**5.3**		ND		1.5 J	
Xylenes, Total	**5**	ND		**13.7**		ND		4.6	
Semi-Volatile Organic Compounds (ug/L):									
Acenaphthene	**20***	ND		1.8		0.02 J		7.8	
Acenaphthylene	--	0.09 J		12		0.1 J		10	
Anthracene	**50***	0.1 J		1.9		0.07 J		1.4	
3-Methylphenol/4-Methylphenol	**1****	ND		**1.8 J**		ND		**20**	
2-Methylnaphthalene	--	0.05 J		8.9		0.54		30	
2-Methylphenol	**1****	ND		1 J		ND		**9.1**	
2,4-Dimethylphenol	**1****	ND		ND		ND		**4.5 J**	
Benzo(a)anthracene [4]	**0.002***	**0.04 J**		**0.27**		**0.03 J**		**0.74**	
Benzo(a)pyrene [4]	**0 (ND)**	**0.02 J**		**0.16**		ND		**0.51**	
Benzo(b)fluoranthene [4]	**0.002***	**0.04 J**		**0.21**		**0.05 J**		**0.67**	
Benzo(ghi)perylene	--	0.02 J		0.06 J		0.03 J		0.28	
Benzo(k)fluoranthene [4]	**0.002***	**0.02 J**		**0.06 J**		**0.02 J**		**0.19**	
Biphenyl	**5**	ND		1.8 J		ND		**6.1**	
Carbazole	--	ND		8.8		ND		3.1	
Chrysene [4]	**0.002***	**0.03 J**		**0.28**		**0.03 J**		**0.66**	
Dibenzo(ah)anthracene	--	ND		0.02 J		ND		0.08 J	
Dibenzofuran	--	ND		6.3		ND		9.4	
Fluoranthene	**50***	0.09 J		2.6		0.11		5.0	
Fluorene	**50***	0.09 J		10		0.08 J		7	
Indeno(1,2,3-cd)pyrene [4]	**0.002***	**0.02 J**		**0.06 J**		**0.04 J**		**0.31**	
Naphthalene	**10***	0.23		**71**		2.6		**100 D**	
Pentachlorophenol	**1****	0.25 J		0.46 J		ND		**1.3**	
Phenanthrene	**50***	0.25		13		0.13		8.4	
Phenol	**1****	ND		ND		ND		**9.3**	
Pyrene	**50***	0.06 J		1.7		0.09 J		4.3	
Total Phenolic Compounds	**1****	*0.25 J*		***3.26 J***		ND		***44.2 J***	

Notes:

1. Only those compounds detected above the method detection limit at a minimum of one sample location are reported in this table.
2. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) as per 6 NYCRR Part 703.
3. Field measurements were collected immediately before and after groundwater sample collection.
4. Method detection limits for benzo(a)anthracene and chrysene are above the GWQS/GV.
5. Dissolved oxygen meter malfunction

Acronyms:

J = Estimated value

BOLD = exceeds GWQS/GV

ND = Indicates parameter was not detected above laboratory reporting limit.

F1 = MS and/or MSD recovery exceeds control limits.

" -- " = Not analyzed for this parameter or no GWQS/GV exists for this parameter.

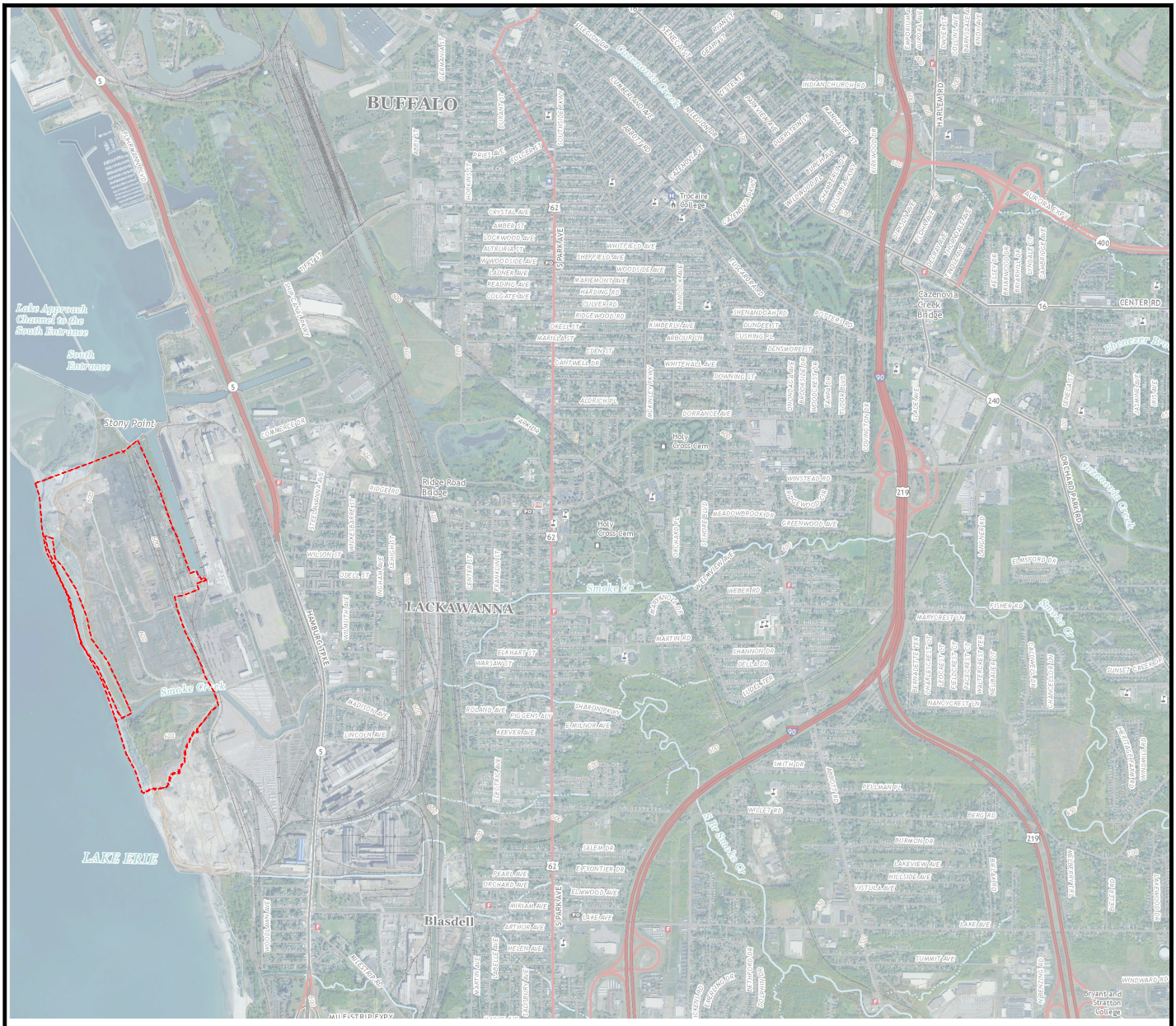
" * " = The Guidance Value was used where a Standard has not been established.

" ** " = General GWQS of 1.0 ug/L for total phenolic compounds.

FIGURES

F:\CAD\TurnKey\Tecumseh Redevelopment\HWMU Groundwater Sampling\2020\Figure 1; Site Location and Vicinity Map.dwg, 1/11/2021 11:25:53 AM

FIGURE 1



BASEMAP PER USGS QUADRANGLE BUFFALO SOUTHEAST 2019

N

4,000' 0' 4,000' 8,000'

SCALE: 1 INCH = 4,000 FEET
SCALE IN FEET
(approximate)

LEGEND:

TECUMSEH REDEVELOPMENT CMS AREA

QUADRANGLE LOCATION

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

PROJECT NO.: 0071-020-240

DATE: OCTOBER 2020

DRAFTED BY: RFL

SITE LOCATION & VICINITY MAP

HWMU-1 & HWMU-2 ANNUAL GROUNDWATER MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKAWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT INC.

DISCLAIMER:
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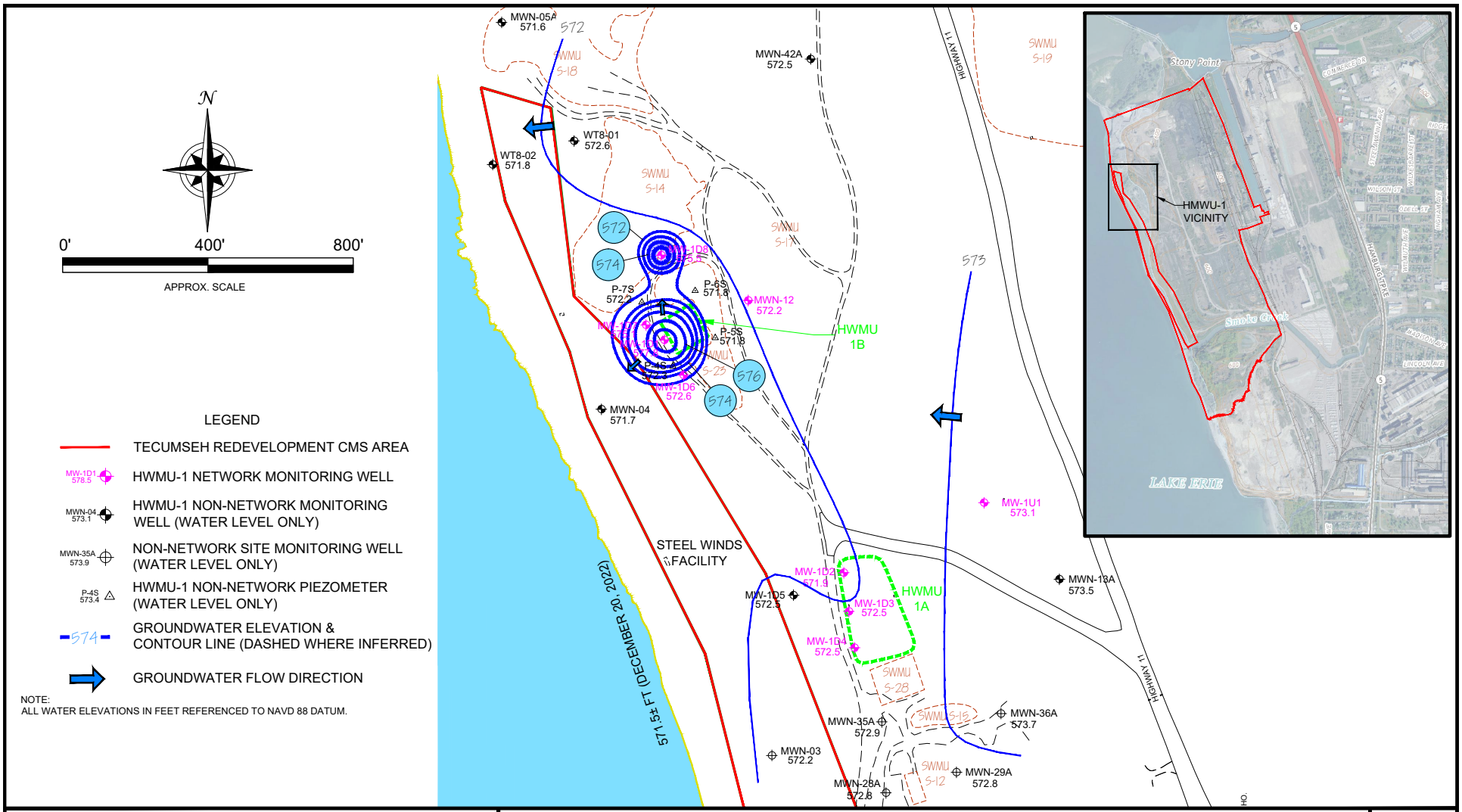
F:\CAD\TurnKey\Tecumseh Redevelopment\HWMU Groundwater Sampling\2022\Figure 2; HWMU-1 Shallow GW Isopotential Map - Dec 20, 2022 rev.dwg, 3/24/2023 1:19:16 PM



TurnKey Environmental Restoration, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0071-022-240

DATE: FEBRUARY 2023

DRAFTED BY: CMC

HWMU-1 SHALLOW GROUNDWATER ISOPOTENTIAL MAP DECEMBER 20, 2022

HWMU-1 & HWMU-2 ANNUAL GROUNDWATER MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKAWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT INC.

FIGURE 2

DISCLAIMER:
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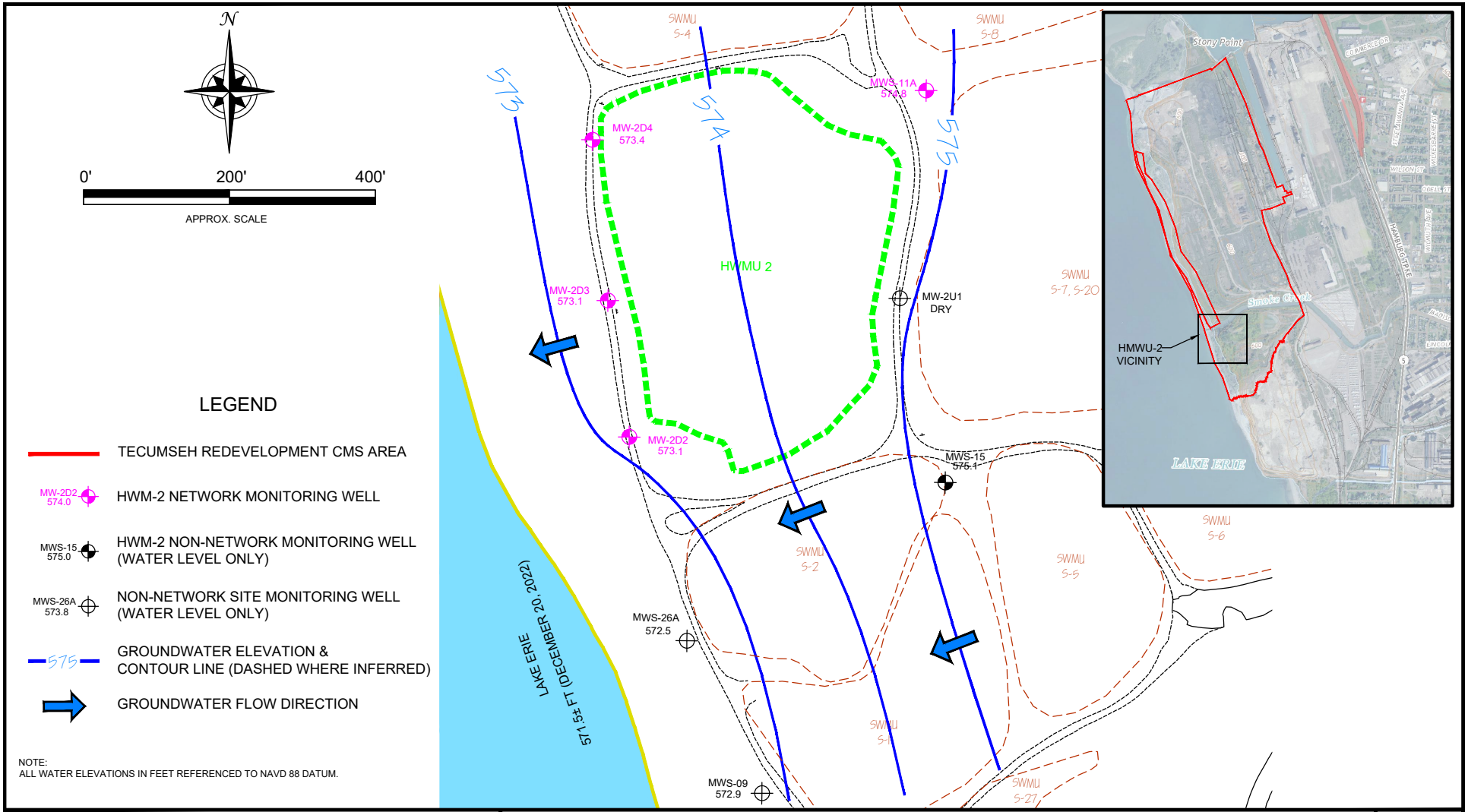
F:\CAD\TurnKey\Tecumseh Redevelopment\HWMU Groundwater Sampling\2022\Figure 3; HWMU-2 Shallow GW Isopotential Map - Dec 20, 2022.dwg, 2/25/2023 9:02:57 PM



TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0071-022-240

DATE: FEBRUARY 2023

DRAFTED BY: CMC

HWMU-2 SHALLOW GROUNDWATER ISOPOTENTIAL MAP DECEMBER 20, 2022

HWMU-1 & HWMU-2 ANNUAL GROUNDWATER MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKAWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT INC.

FIGURE 3

DISCLAIMER:
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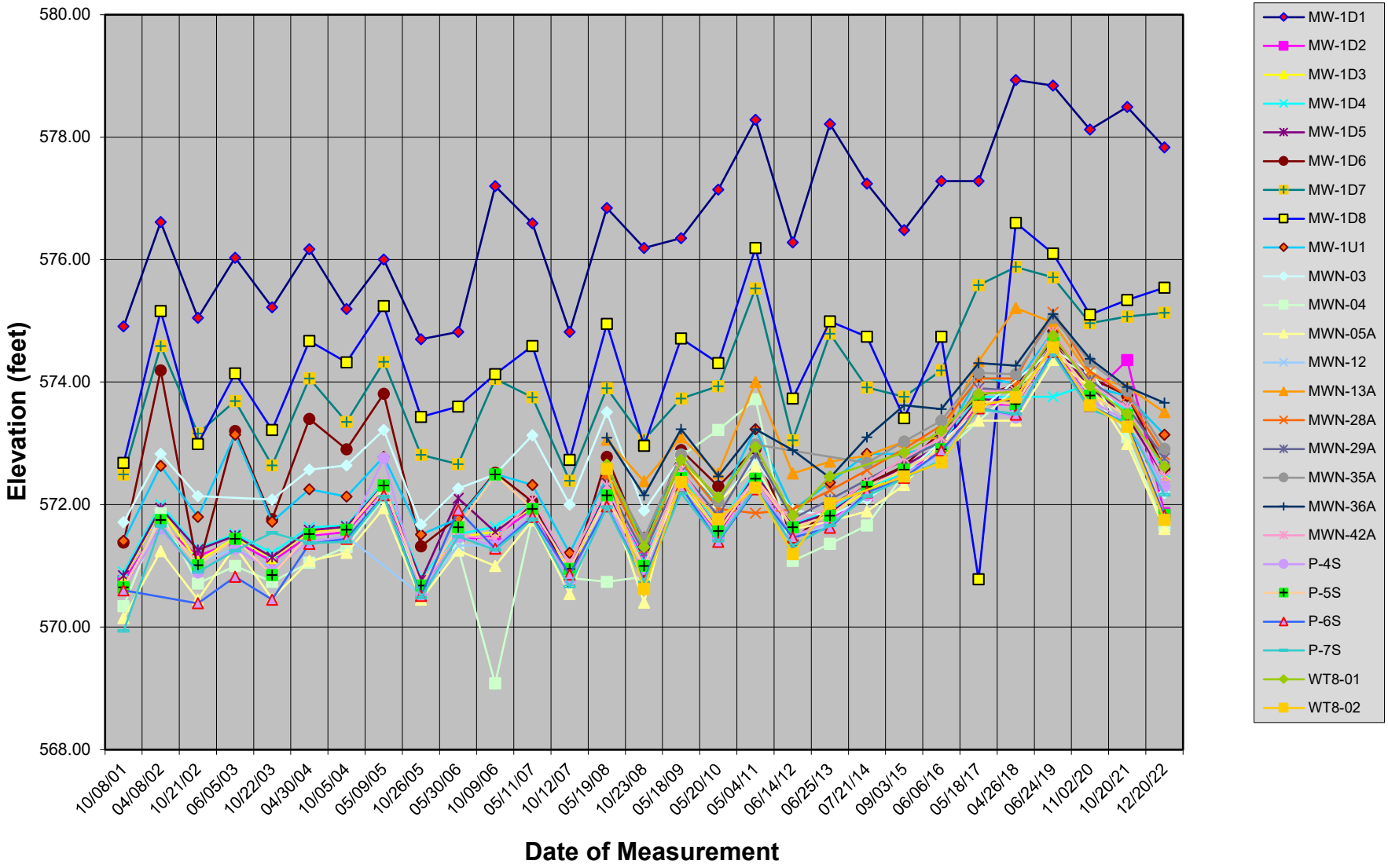
ATTACHMENT 1

HISTORICAL GROUNDWATER ELEVATION SUMMARY

ATTACHMENT 1

HISTORICAL GROUNDWATER ELEVATIONS
HWMU-1A & 1B

2001 to Present



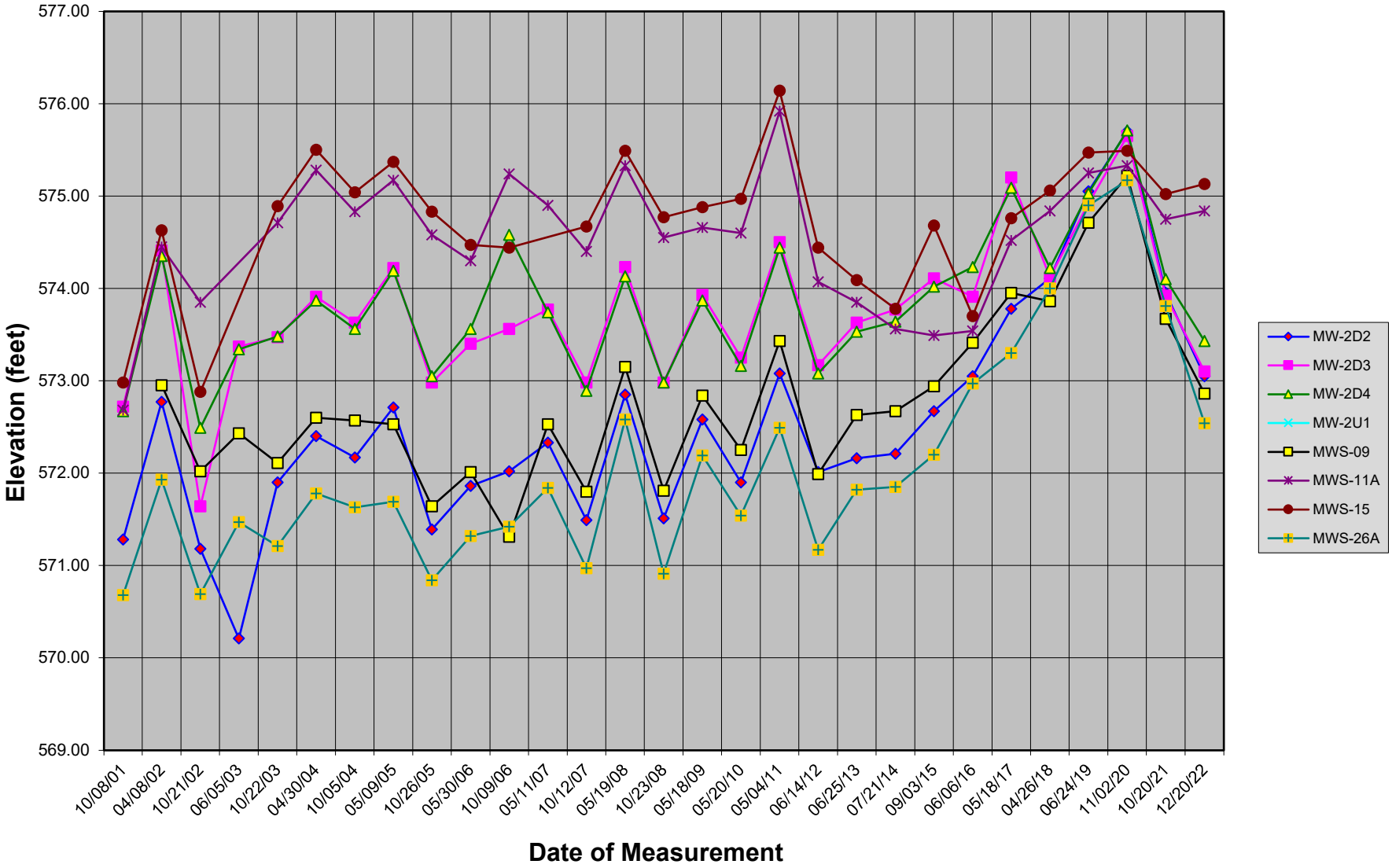
Note:

1. All water elevations in feet referenced to NAVD 88 Datum.

ATTACHMENT 1

HISTORICAL GROUNDWATER ELEVATIONS
HWMU-2

2001 to Present



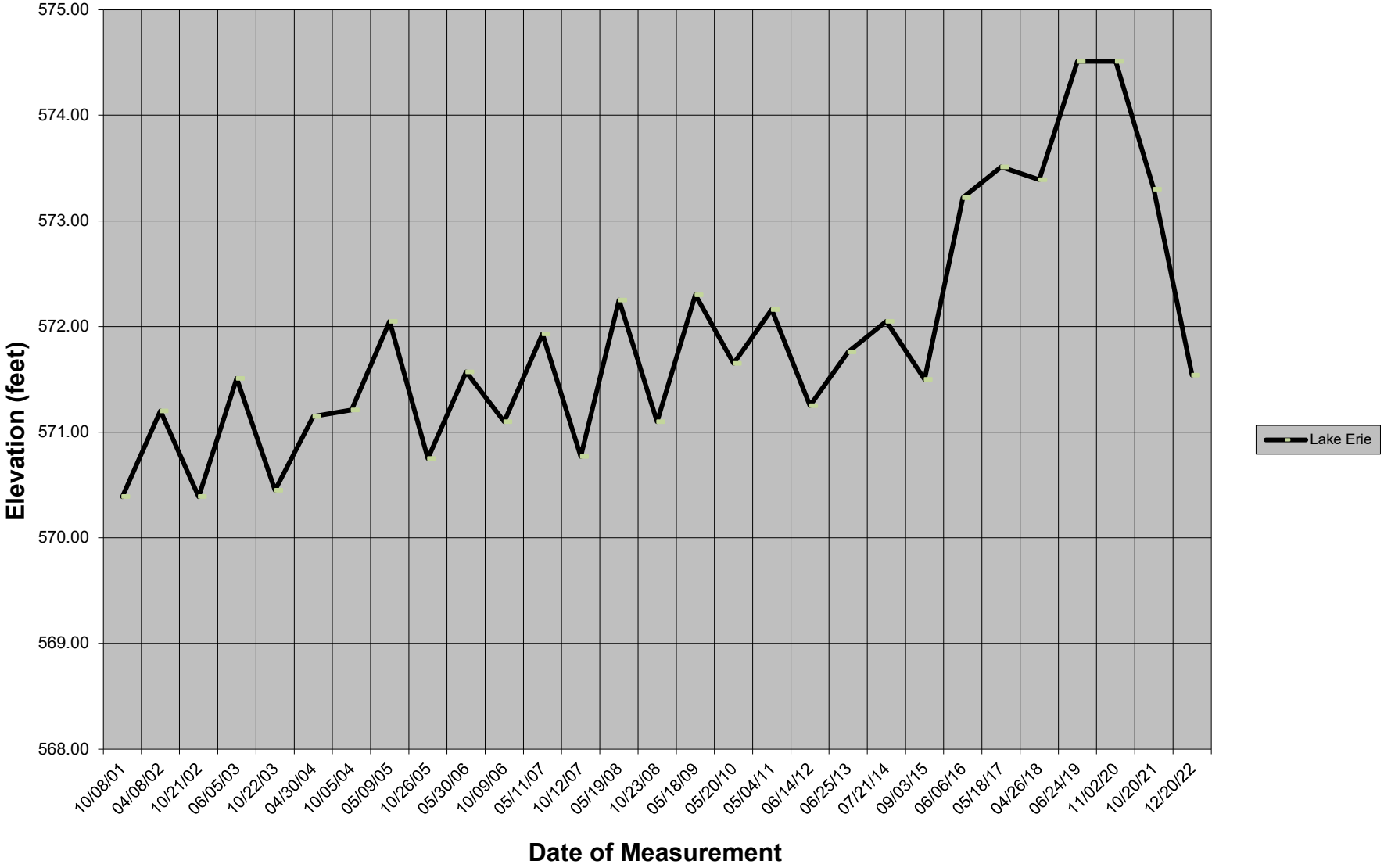
Note:

1. All water elevations in feet referenced to NAVD 88 Datum.

ATTACHMENT 1

HISTORICAL GROUNDWATER ELEVATIONS
LAKE ERIE

2001 to Present



Note:

1. All water elevations in feet referenced to NAVD 88 Datum.

ATTACHMENT 2A

GROUNDWATER FIELD FORMS AND CALIBRATION LOGS

TABLE 3

SUMMARY OF GROUNDWATER ELEVATIONS

12/20/22 (DATE)

Annual Event
Hazardous Waste Management Facilities HWMU-1 & HWMU-2
Tecumseh Redevelopment Inc.
Lackawanna, New York

Location	TOR Elevation [1] (fmsl)	DTP (if present) (fbTOR)	DTW (fbTOR)	Product Thickness (feet)	GWE [1] (fmsl)	Corrected GWE [2] (fmsl)
HWM-1A & 1B MONITORING WELLS (25)						
MW-1D1	610.59		32.76	0.00	610.59	610.59
MW-1D2	614.46		42.60	0.00	614.46	614.46
MW-1D3	612.69		40.22	0.00	612.69	612.69
MW-1D4	612.52		40.00	0.00	612.52	612.52
MW-1D5	613.49		41.03	0.00	613.49	613.49
MW-1D6	610.94		38.35	0.00	610.94	610.94
MW-1D7	611.26		36.13	0.00	611.26	611.26
MW-1D8	610.74		35.20	0.00	610.74	610.74
MW-1U1	613.18		40.04	0.00	613.18	613.18
MWN-03	611.96		39.77	0.00	611.96	611.96
MWN-04	623.45		51.80	0.00	623.45	623.45
MWN-05A	622.84			0.00	622.84	622.84
MWN-12	608.59		36.35	0.00	608.59	608.59
MWN-13A	607.32		33.81	0.00	607.32	607.32
MWN-28A	595.76		22.95	0.00	595.76	595.76
MWN-29A	596.19		23.43	0.00	596.19	596.19
MWN-35A	608.71		35.80	0.00	608.71	608.71
MWN-36A	598.42		24.76	0.00	598.42	598.42
MWN-42A	579.37		6.91	0.00	579.37	579.37
P-4S	610.85		38.55	0.00	610.85	610.85
P-5S	616.71		44.88	0.00	616.71	616.71
P-6S	618.92		47.10	0.00	618.92	618.92
P-7S	610.59		38.43	0.00	610.59	610.59
WT8-01	612.49		39.87	0.00	612.49	612.49
WT8-02	645.62		73.87	0.00	645.62	645.62
HWM-2 MONITORING WELLS (8)						
MW-2D2	632.11		59.55	0.00	632.11	632.11
MW-2D3	636.52	~~62.~~	62.42	0.00	636.52	636.52
MW-2D4	630.44	~~56.17~~	56.17	0.00	630.44	630.44
MW-2U1	628.32	DRY	DRY	DRY	DRY	DRY
MWS-09	630.82		57.96	0.00	630.82	630.82
MWS-11A	639.56		65.02	0.00	639.56	639.56
MWS-15	627.09	~~52.30~~	52.30	0.00	627.09	627.09
MWS-26A	624.80		53.07	0.00	624.80	624.80
LAKE ERIE						
Lake Erie [3]	NA	NA	NA	NA		

Notes:

1. Top of Riser (TOR) elevation and Groundwater Elevation (GWE) is measured in feet; distance above mean sea level (fmsl).
2. Groundwater elevation (GWE) corrected based on the presence of free product (i.e., LNAPL), if applicable.
3. Source: NOAA Tides & Currents Web Page- Buffalo, NY Station ID 9063020
4. fbTOR = feet below top of riser or casing
5. fmsl = feet above mean sea level.
6. NM = not measured
7. NP = no product was present.

TurnKey Environmental Restoration LLC

GROUNDWATER FIELD FORM

Project Name: Tecumseh HWMU Date:

Location: Tecumseh Redevelopment, Inc Project No.: Field Team:

Well No. MW-101			Diameter (inches): 4 inch			Sample Date / Time: 12-19-22 / 1345			
Product Depth (fbTOR):			Water Column (ft): 12.19			DTW when sampled: 37.05			
DTW (static) (fbTOR): 32.76			One Well Volume (gal): 7.96			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 44.95			Total Volume Purged (gal): 6.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1330	0 Initial	0.00	11.06	12.3	3015	143	1.27	-95	SL Turbid, SL Petrol odor
1333	1 34.12	1.25	10.95	12.3	3036	32.3	1.08	-86	Clear, SL Petrol odor
1336	2 35.18	2.50	11.07	12.2	3039	20.4	1.11	-87	" " "
1338	3 35.82	3.25	11.09	12.3	3041	15.7	1.34	-90	" " "
1340	4 36.40	4.00	11.10	12.4	3045	12.5	1.06	-90	" " "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1345	S1 37.05	5.25	11.07	12.1	3039	10.6	1.13	-87	Clear, SL Petrol odor
1351	S2 37.76	6.50	11.16	11.9	2978	16.9	1.15	-89	" " "

Well No. MW-102			Diameter (inches): 4-inch			Sample Date / Time: 12-20-22 / 0950			
Product Depth (fbTOR):			Water Column (ft): 6.9			DTW when sampled: 42.35			
DTW (static) (fbTOR): 42.6			One Well Volume (gal): 4.5			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 49.5			Total Volume Purged (gal): 5.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0930	0 Initial	0.00	12.19	8.9	2048	95.4	1.25	-264	Clear, SL Petrol odor
0933	1 42.36	2.00	11.96	10.2	2052	41.7	1.30	-257	Clear " "
0937	2 42.35	2.50	11.94	10.5	2056	32.4	1.12	-267	" " "
0939	3 42.39	3.00	11.84	11.0	2046	28.1	1.16	-266	" " "
0943	4 42.40	3.50	12.00	10.8	2031	24.6	1.22	-260	" " "
0945	5 42.40	4.00	11.93	10.3	2020	26.2	1.10	-268	" " "
0947	6 42.40	4.50	11.94	10.5	2023	24.6	1.06	-266	" " "
	7								
	8								
	9								
	10								
Sample Information:									
0950	S1 42.35	5.00	11.93	10.7	2030	24.4	1.18	-259	Clear, SL Petrol odor
0953	S2 42.39	5.50	12.00	10.4	2038	20.9	1.23	-260	" " "

REMARKS: MW-102 designated Pump needs new fuse

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Tecumseh HWMU
Location: Tecumseh Redevelopment, Inc
Project No.:
Date: 12-20-22
Field Team: CE H

Well No. MW-103	Diameter (inches): 4"	Sample Date / Time: 12-20-22 / 1045
Product Depth (fbTOR):	Water Column (ft): 7.88	DTW when sampled: 40.35
DTW (static) (fbTOR): 40.22	One Well Volume (gal): 5.15	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 48.10	Total Volume Purged (gal): 7.00	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1028	0	Initial	0.00	11.95	9.9	3990	159	0.16	-356	clear, sl petro odor
1031	1	40.35	2.00	11.96	12.1	3875	82.4	0.58	-350	" " "
1034	2	40.35	2.75	11.49	10.9	3751	55.1	0.45	-363	" " "
1036	3	40.35	3.50	11.82	11.2	3596	42.6	0.63	-356	" " "
1038	4	40.35	4.25	11.87	11.7	3456	35.8	0.89	-350	" " "
1040	5	40.35	5.00	11.90	11.7	3388	31.9	0.67	-350	" " "
1042	6	40.35	5.75	11.95	11.9	3330	27.4	0.93	-342	" " "
	7									
	8									
	9									
	10									
Sample Information:										
1045	S1	40.35	6.25	11.88	11.3	3297	25.3	0.86	-345	" " "
1048	S2	40.35	7.00	11.84	11.4	2669	18.2	0.82	-344	" " "

Well No. MW-104	Diameter (inches): 4"	Sample Date / Time: 12-20-22 / 1142
Product Depth (fbTOR):	Water Column (ft): 6.39	DTW when sampled: 40.05
DTW (static) (fbTOR): 40.00	One Well Volume (gal): 4.17	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 46.39	Total Volume Purged (gal): 5.00	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1120	0	Initial	0.00	11.95	11.2	2256	8.30	0.77	-307	clear, no odor
1123	1	40.10	0.50	12.10	11.7	2240	10.20	1.07	-302	" " "
1126	2	40.05	1.00	12.13	11.7	2251	7.97	1.35	-303	" " "
1128	3	40.05	1.50	12.13	12.0	2254	6.18	1.08	-305	" " "
1130	4	40.07	2.00	11.96	12.0	2275	4.80	MALF	-303	" " "
1132	5	40.07	2.50	12.05	12.0	2287	4.48	MALF	-306	" " "
1136	6	40.07	3.00	11.84	12.0	2282	4.89	MALF	-304	" " "
1137	7	40.04	3.50	11.86	11.9	2289	4.74	MALF	-304	" " "
1140	8	40.04	4.00	11.88	12.0	2280	4.79	MALF	-300	" " "
	9									
	10									
Sample Information:										
1142	S1	40.04	4.50	11.82	12.1	2275	3.92	MALF	-299	" " "
1145	S2	40.05	5.00	11.89	12.2	2267	3.55	MALF	-302	" " "

REMARKS: MW-103 designated pump insert broken

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Tecumseh HWMU Date:

Location: Tecumseh Redevelopment, Inc Project No.: Field Team: CEH

Well No. MW-1D6			Diameter (inches): 2"			Sample Date / Time: 12-19-22 / 1300			
Product Depth (fbTOR):			Water Column (ft): 3.8			DTW when sampled: 38.98			
DTW (static) (fbTOR): 38.35			One Well Volume (gal): 0.62			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 42.15			Total Volume Purged (gal): 2.25			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1246	0 Initial	0.00	11.34	12.2	3383	484	1.80	13	Turbid, no odor
1251	1 Dry	1.25							
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1300	S1 38.98	1.25	11.64	11.8	3759	26.6	1.33	-87	clear, no odor
1305	S2 TDP	2.25	11.26	12.1	3719	19.8	1.98	-140	" " "

Well No. MW-1D7			Diameter (inches): 2"			Sample Date / Time: 12-19-22 / 1440			
Product Depth (fbTOR):			Water Column (ft): 9.32			DTW when sampled: 36.88			
DTW (static) (fbTOR): 36.13			One Well Volume (gal): 1.52			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 45.45			Total Volume Purged (gal): 10.00			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1410	0 Initial	0.00	8.82	12.1	3583	34.6	1.50	-29	clear, no odor
1414	1 36.60	1.00	9.30	12.2	2681	14.4	3.29	-53	" " "
1416	2 36.60	1.50	9.23	12.7	2772	13.3	2.80	-97	" " "
1419	3 36.69	2.25	8.84	12.8	2887	8.06	2.43	-141	" " "
1421	4 36.75	3.00	8.87	13.1	2969	6.83	1.87	-180	" " "
1424	5 36.78	3.75	8.80	13.1	3026	8.24	1.72	-201	" " "
1426	6 36.76	5.00	8.67	12.8	3093	5.10	1.64	-214	" " "
	7								
	8								
	9								
	10								
Sample Information:									
1440	S1 36.88	8.00	8.39	12.9	3206	4.93	1.33	-222	clear, no odor
1445	S2 36.93	10.00	8.33	12.4	3208	5.08	1.52	-225	" " "

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Tecumseh HWMU
Location: Tecumseh Redevelopment, Inc Project No.:
Date: 12-20-22
Field Team: CEH

Well No. MW-108 | Diameter (inches): 2" | Sample Date / Time: 12.19.22 / 1518
Product Depth (fbTOR): | Water Column (ft): 8.35 | DTW when sampled: 35.83
DTW (static) (fbTOR): 35.20 | One Well Volume (gal): 1.36 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 43.55 | Total Volume Purged (gal): 7.00 | Purge Method: Low Flow

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1505	0 Initial	0.00	11.17	14.5	2230	24.3	1.99	-166	clear, no odor
1509	1 35.68	1.50	11.29	13.1	2251	10.5	2.73	-115	" " "
1511	2 35.73	2.50	11.32	12.9	2272	7.09	3.06	-99	" " "
1513	3 35.78	3.50	11.31	12.8	2277	7.12	3.09	-88	" " "
1515	4 35.80	4.50	11.25	13.0	2283	5.88	3.18	-85	" " "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1518	S1 35.83	5.50	11.32	12.1	2291	4.29	3.15	-88	clear, no odor
1524	S2 35.84	7.00	11.26	12.3	2296	3.72	3.28	-58	" " "

Well No. MW-101 | Diameter (inches): 4" | Sample Date / Time: 12-20-22 / 0900
Product Depth (fbTOR): | Water Column (ft): 26.46 | DTW when sampled: 40.05
DTW (static) (fbTOR): 40.04 | One Well Volume (gal): 17.28 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 66.5 | Total Volume Purged (gal): 6.00 | Purge Method: Low Flow

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0842	0 Initial	0.00	11.83	9.7	1982	6.97	2.32	-166	clear, no odor
0847	1 40.05	1.00	12.09	10.6	2241	11.50	1.87	-219	" " "
0850	2 40.05	2.00	12.08	10.9	2278	6.02	1.78	-222	" " "
0853	3 40.05	3.00	12.11	10.9	2276	10.90	1.96	-225	" " "
0857	4 40.05	4.00	12.14	10.8	2282	12.3	2.08	-218	" " "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
0900	S1 40.05	5.00	12.16	10.7	2261	14.1	1.94	-221	" " "
0905	S2 40.05	6.00	12.21	10.1	2277	19.2	2.95	-222	" " "

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Tecumseh HWMU Date:

Location: Tecumseh Redevelopment, Inc Project No.: Field Team:

Well No. MW-12			Diameter (inches): 4"			Sample Date / Time: 12-19-22 / 1600			
Product Depth (fbTOR):			Water Column (ft): 4.05			DTW when sampled: 37.73			
DTW (static) (fbTOR): 36.35			One Well Volume (gal): 2.64			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 40.40			Total Volume Purged (gal): 8.50			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1546	0 Initial	0.00	12.39	12.2	3403	19.2	2.80	-189	clear, no odor
1548	1 36.70	1.50	12.63	11.6	3275	6.54	2.32	-219	" " "
1550	2 36.72	2.50	12.35	11.7	3260	3.05	1.96	-225	" " "
1552	3 36.72	4.00	12.55	11.9	3238	2.73	1.96	-230	" " "
1554	4 36.72	5.50	12.59	12.0	3235	2.15	2.08	-231	" " "
1556	5 37.72	6.50	12.58	11.8	3233	2.10	2.27	-229	" " "
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1600	S1 37.73	7.50	12.60	11.6	3225	1.75	2.16	-226	clear, no odor
1603	S2 37.72	8.50	12.62	11.4	3226	1.70	2.24	-225	" " "

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Tecumseh HWMU
Location: Tecumseh Redevelopment, Inc
Project No.:
Date: 12-21-22
Field Team: CEH

Well No. MW-202			Diameter (inches): 4			Sample Date / Time: 12-21-22 / 1130			
Product Depth (fbTOR):			Water Column (ft): 5.6			DTW when sampled: 59.81			
DTW (static) (fbTOR): 59.60			One Well Volume (gal): 3.66			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 65.20			Total Volume Purged (gal): 4.00			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
[illegible]	0 Initial	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1120	1 Initial	0.00	10.00	12.6	984.2	28.4	2.28	-179	clear, no odor
1122	2 59.80	1.00	9.85	13.5	972.4	17.3	2.41	-133	" " "
1123	3 59.81	1.50	9.87	14.2	977.8	12.0	2.44	-106	" " "
1124	4 59.81	2.00	9.80	14.6	978.0	11.2	2.51	-92	" " "
1125	5 59.81	2.50	9.82	14.8	970.7	9.64	2.44	-86	" " "
1127	6 59.81	3.00	9.84	14.7	974.1	7.79	2.45	-78	" " "
	7								
	8								
	9								
	10								
Sample Information:									
1130	S1 59.81	3.50	9.80	14.3	969.3	7.11	2.47	-59	clear, no odor
1133	S2 59.81	4.00	9.80	14.6	970.8	8.65	2.41	-53	" "

Well No. MW-203			Diameter (inches): 4"			Sample Date / Time: 12-21-22 / 1035			
Product Depth (fbTOR):			Water Column (ft): 4.84			DTW when sampled: 62.38			
DTW (static) (fbTOR): 62.36			One Well Volume (gal): 3.16			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 67.2			Total Volume Purged (gal): 1.75			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1016	0 Initial	0.00	11.36	9.6	1102	115	3.33	-242	SL turbid, SL Petrol odor
1019	1 62.37	0.50	11.51	10.6	1182	70.3	3.24	-246	clear, " " "
1021	2 62.37	0.75	11.48	11.7	1177	34.6	3.20	-246	" " " "
1024	3 62.38	1.00	11.46	12.2	1170	26.0	3.15	-245	" " " "
1033	4 62.38	1.25	11.48	11.1	1157	23.6	3.03	-253	" " " "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1035	S1 62.38	1.50	11.40	12.0	1163	20.2	3.00	-256	clear, SL Petrol odor
1050	S2 62.37	1.75	11.38	12.0	1134	33.5	2.43	-242	" " "

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Tecumseh HWMU
Location: Tecumseh Redevelopment, Inc
Project No.:
Date: 12-21-2022
Field Team: CEH

Well No. MW-204 | Diameter (inches): 4" | Sample Date / Time: 12-21-22 / 0952
Product Depth (fbTOR): | Water Column (ft): 6.44 | DTW when sampled: 57.01
DTW (static) (fbTOR): 56.16 | One Well Volume (gal): 4.21 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 62.60 | Total Volume Purged (gal): 3.50 | Purge Method: Low Flow

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0939	0 Initial	0.00	7.68	10.1	1352	16.3	9.36	97	clear, no odor
0941	1 56.54	0.25	7.95	11.9	1403	46.5	8.63	99	" " "
0943	2 56.67	0.50	7.99	13.0	1360	21.3	8.85	106	" " "
0946	3 56.71	0.75	8.00	13.6	1342	10.7	9.03	112	" " "
0948	4 56.95	1.50	8.02	13.5	1334	7.72	9.10	114	" " "
0950	5 57.05	2.25	8.04	13.5	1330	5.67	9.12	104	" " "
	6								
	7								
	8								
	9								
	10								
Sample Information:									
0952	S1 57.01	3.00	8.04	13.2	1330	5.37	9.03	101	" " "
0957	S2 57.01	3.50	8.04	13.4	1320	5.22	8.99	110	" " "

Well No. MWS-11A | Diameter (inches): 4" | Sample Date / Time: 12-21-22 / 13:30
Product Depth (fbTOR): 65.01 | Water Column (ft): 8.76 | DTW when sampled:
DTW (static) (fbTOR): 65.02 | One Well Volume (gal): 5.72 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 73.78 | Total Volume Purged (gal): | Purge Method: Bailer

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1302	0 Initial	0.00	11.53	12.4	1940	26.7	0.95	-263	clear, sl petrol odor
1311	1 65.03	6.00	12.98	12.5	1915	63.5	1.91	-269	" " "
1321	2 65.02	12.00	12.02	10.9	1905	50.0	1.82	-242	" " "
1330	3 65.02	18.00	12.11	10.9	1899	48.0	1.74	-249	" " "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1329	S1 65.02	14.00	12.13	10.7	1890	50.0	2.70	-251	" " "
1335	S2 65.02	18.00	11.95	10.5	1828	47.9	3.24	-242	" " "

REMARKS:
MWS-11A has light sheen.
Used bailer at MWS-11A due to product present in well.

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

TurnKey Environmental Restoration, LLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Tecumseh HWMU

Project No.:

Client:

Date: 12-19-22

Instrument Source: [X] BM [ ] Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
[X] pH meter	units	0930	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [ ] 6212375 [ ] 6223973 [ ]	CEH	4.00 7.00 10.01	4.04 7.07 9.97	
[X] Turbidity meter	NTU	0930	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) [ ] 13120C030432 (Q) [X]	CEH	< 0.4 or 10 for 2100 Q 20 100 800	10.2	
[ ] Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) [ ]		0.0 NTU 1.0 NTU 10.0 NTU		
[X] Sp. Cond. meter	uS mS	0930	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [ ] 6212375 [ ] 6223973 [ ]	CEH	7000 mS @ 25 °C	6999	
[ ] PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
[X] Dissolved Oxygen	ppm	0930	HACH Model HQ30d	080700023281 [ ] 100500041867 [ ] 1402000100319 [X]	CEH	100% Satuartion	100%	101% slope
[ ] Particulate meter	mg/m^3					zero air		
[ ] Oxygen	%					open air		
[ ] Hydrogen sulfide	ppm					open air		
[ ] Carbon monoxide	ppm					open air		
[ ] LEL	%					open air		
[ ] Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: **DATE:**

TurnKey Environmental Restoration, LLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Tecumseh HWMU

Project No.:

Client:

Date: 12-20-22

Instrument Source: [X] BM [ ] Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
[X] pH meter	units	0800	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [ ] 6212375 [ ] 6223973 [ ]	CEH	4.00 7.00 10.01	4.00 7.05 9.99	
[X] Turbidity meter	NTU	0800	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) [ ] 13120C030432 (Q) [X]	CEH	< 0.4 or 10 for 2100 Q 20 100 800	10.8	
[ ] Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) [ ]		0.0 NTU 1.0 NTU 10.0 NTU		
[X] Sp. Cond. meter	uS mS	0800	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [ ] 6212375 [ ] 6223973 [ ]	CEH	7000 mS @ 25 °C	7004	
[ ] PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
[X] Dissolved Oxygen	ppm	0800	HACH Model HQ30d	080700023281 [ ] 100500041867 [ ] 1402000100319 [X]	CEH	100% Satuartion	100%	
[ ] Particulate meter	mg/m^3					zero air		
[ ] Oxygen	%					open air		
[ ] Hydrogen sulfide	ppm					open air		
[ ] Carbon monoxide	ppm					open air		
[ ] LEL	%					open air		
[ ] Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: **DATE:**

ATTACHMENT 2B

ANALYTICAL DATA PACKAGE

ANALYTICAL REPORT

Lab Number:	L2271943
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Brock Greene
Phone:	(716) 856-0599
Project Name:	TECUMSEH-HWMU
Project Number:	T0071-021-910
Report Date:	02/21/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2271943-01	MW-1D2	WATER	BUFFALO, NY	12/20/22 09:50	12/21/22
L2271943-02	MW-1D3	WATER	BUFFALO, NY	12/20/22 10:45	12/21/22
L2271943-03	MW-1D4	WATER	BUFFALO, NY	12/20/22 11:42	12/21/22
L2271943-04	MW2D2	WATER	BUFFALO, NY	12/21/22 11:30	12/21/22
L2271943-05	MW2D3	WATER	BUFFALO, NY	12/21/22 10:35	12/21/22
L2271943-06	MW2D4	WATER	BUFFALO, NY	12/21/22 09:52	12/21/22
L2271943-07	MWS11A	WATER	BUFFALO, NY	12/21/22 13:30	12/21/22
L2271943-08	MW-1D1	WATER	BUFFALO, NY	12/19/22 13:45	12/21/22
L2271943-09	MW-1D6	WATER	BUFFALO, NY	12/19/22 13:00	12/21/22
L2271943-10	MW-1D7	WATER	BUFFALO, NY	12/19/22 14:40	12/21/22
L2271943-11	MW-1D8	WATER	BUFFALO, NY	12/19/22 15:18	12/21/22
L2271943-12	MW1U1	WATER	BUFFALO, NY	12/20/22 09:00	12/21/22
L2271943-13	MWN-12	WATER	BUFFALO, NY	12/19/22 16:00	12/21/22
L2271943-14	TRIP BLANK	WATER	BUFFALO, NY	12/19/22 00:00	12/21/22

Project Name:	TECUMSEH-HWMU	**Lab Number:**	L2271943
Project Number:	T0071-021-910	**Report Date:**	02/21/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TECUMSEH-HWMU	**Lab Number:**	L2271943
Project Number:	T0071-021-910	**Report Date:**	02/21/23

Case Narrative (continued)

Report Revision

February 21, 2023: The Volatile Organics analyte list has been amended on L2271943-01 through -07.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 02/21/23

ORGANICS

VOLATILES

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-01
Client ID: MW-1D2
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 09:50
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 13:29
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	2.3		ug/l	0.50	0.16	1
Toluene	2.2	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	4.5		ug/l	2.5	0.70	1
o-Xylene	3.2		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	6.7		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	12		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-02
Client ID: MW-1D3
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 10:45
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 13:50
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	10		ug/l	0.50	0.16	1
Toluene	4.1		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	2.8		ug/l	2.5	0.70	1
o-Xylene	4.3		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	0.83	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-03
Client ID: MW-1D4
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 11:42
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 14:12
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	8.1		ug/l	0.50	0.16	1
Toluene	3.2		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	2.7		ug/l	2.5	0.70	1
o-Xylene	2.9		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.2	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-04
Client ID: MW2D2
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 11:30
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 14:33
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	103		70-130

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-05
Client ID: MW2D3
Sample Location: BUFFALO, NY
Date Collected: 12/21/22 10:35
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 14:55
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	8.3		ug/l	0.50	0.16	1
Toluene	4.4		ug/l	2.5	0.70	1
Ethylbenzene	1.5	J	ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	8.4		ug/l	2.5	0.70	1
o-Xylene	5.3		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.2	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	2.5		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-06
Client ID: MW2D4
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 09:52
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 15:17
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-07
Client ID: MWS11A
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 13:30
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 15:38
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	2.0		ug/l	0.50	0.16	1
Toluene	1.4	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	3.1		ug/l	2.5	0.70	1
o-Xylene	1.5	J	ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.2	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	2.5		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-08
Client ID: MW-1D1
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 13:45
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/28/22 10:49
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	7.7		ug/l	0.50	0.16	1
Toluene	6.8		ug/l	2.5	0.70	1
Ethylbenzene	15		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.0		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-08 Date Collected: 12/19/22 13:45

Client ID: MW-1D1 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	14		ug/l	2.5	0.70	1
o-Xylene	33		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	2.8		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.71	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	1.1	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.1	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	25		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-09
Client ID: MW-1D6
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 13:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/28/22 11:15
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	1.0	J	ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.94		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-09 Date Collected: 12/19/22 13:00

Client ID: MW-1D6 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.7	J	ug/l	5.0	1.5	1
Carbon disulfide	1.6	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.74	J	ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-10
Client ID: MW-1D7
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 14:40
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/28/22 11:41
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	7.2		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	2.6		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	23		ug/l	2.5	0.70	1
Trichloroethene	0.73		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-10 Date Collected: 12/19/22 14:40

Client ID: MW-1D7 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	19		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-11 Date Collected: 12/19/22 15:18
Client ID: MW-1D8 Date Received: 12/21/22
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/28/22 12:07
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.17	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-11 Date Collected: 12/19/22 15:18

Client ID: MW-1D8 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.0	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-12
Client ID: MW1U1
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 09:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/30/22 16:00
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	36		ug/l	0.50	0.16	1
Toluene	6.7		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-12 Date Collected: 12/20/22 09:00

Client ID: MW1U1 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	4.9		ug/l	2.5	0.70	1
o-Xylene	4.9		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.0	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.72	J	ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-13
Client ID: MWN-12
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 16:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/28/22 12:33
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	2.9		ug/l	0.50	0.16	1
Toluene	0.92	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-13 Date Collected: 12/19/22 16:00

Client ID: MWN-12 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.77	J	ug/l	2.5	0.70	1
o-Xylene	0.82	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	0.74	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-14
Client ID: TRIP BLANK
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 00:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/28/22 13:00
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-14 Date Collected: 12/19/22 00:00

Client ID: TRIP BLANK Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/28/22 10:23
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-11,13-14 Batch: WG1728370-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/28/22 10:23
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-11,13-14 Batch: WG1728370-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/28/22 10:23
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-11,13-14 Batch: WG1728370-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	100		70-130

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/30/22 09:56
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,12 Batch: WG1729489-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/30/22 09:56
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,12 Batch: WG1729489-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/30/22 09:56
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,12 Batch: WG1729489-5					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11,13-14 Batch: WG1728370-3 WG1728370-4								
Methylene chloride	94		92		70-130	2		20
1,1-Dichloroethane	100		98		70-130	2		20
Chloroform	100		95		70-130	5		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	99		94		70-130	5		20
Dibromochloromethane	96		92		63-130	4		20
1,1,2-Trichloroethane	89		86		70-130	3		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	99		96		62-150	3		20
1,2-Dichloroethane	97		95		70-130	2		20
1,1,1-Trichloroethane	100		98		67-130	2		20
Bromodichloromethane	96		92		67-130	4		20
trans-1,3-Dichloropropene	89		85		70-130	5		20
cis-1,3-Dichloropropene	92		90		70-130	2		20
Bromoform	90		91		54-136	1		20
1,1,2,2-Tetrachloroethane	85		85		67-130	0		20
Benzene	100		98		70-130	2		20
Toluene	100		95		70-130	5		20
Ethylbenzene	100		94		70-130	6		20
Chloromethane	93		90		64-130	3		20
Bromomethane	89		82		39-139	8		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11,13-14 Batch: WG1728370-3 WG1728370-4								
Chloroethane	**180**	Q	**160**	Q	55-138	12		20
1,1-Dichloroethene	99		95		61-145	4		20
trans-1,2-Dichloroethene	100		98		70-130	2		20
Trichloroethene	96		92		70-130	4		20
1,2-Dichlorobenzene	100		96		70-130	4		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	83		83		63-130	0		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		97		70-130	3		20
Styrene	100		90		70-130	11		20
Dichlorodifluoromethane	97		93		36-147	4		20
Acetone	74		75		58-148	1		20
Carbon disulfide	73		70		51-130	4		20
2-Butanone	65		68		63-138	5		20
4-Methyl-2-pentanone	70		68		59-130	3		20
2-Hexanone	65		67		57-130	3		20
Bromochloromethane	110		100		70-130	10		20
1,2-Dibromoethane	95		92		70-130	3		20
n-Butylbenzene	94		91		53-136	3		20
sec-Butylbenzene	99		95		70-130	4		20
1,2-Dibromo-3-chloropropane	81		81		41-144	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11,13-14 Batch: WG1728370-3 WG1728370-4								
Isopropylbenzene	96		93		70-130	3		20
p-Isopropyltoluene	96		94		70-130	2		20
n-Propylbenzene	97		94		69-130	3		20
1,2,3-Trichlorobenzene	78		78		70-130	0		20
1,2,4-Trichlorobenzene	84		83		70-130	1		20
1,3,5-Trimethylbenzene	97		92		64-130	5		20
1,2,4-Trimethylbenzene	93		91		70-130	2		20
Methyl Acetate	**69**	Q	**69**	Q	70-130	0		20
Cyclohexane	94		91		70-130	3		20
1,4-Dioxane	96		100		56-162	4		20
Freon-113	110		100		70-130	10		20
Methyl cyclohexane	95		91		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	90		90		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,12 Batch: WG1729489-3 WG1729489-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	110		98		70-130	12		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	89		94		63-130	5		20
1,1,2-Trichloroethane	92		96		70-130	4		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	96		100		70-130	4		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	98		96		67-130	2		20
trans-1,3-Dichloropropene	82		84		70-130	2		20
cis-1,3-Dichloropropene	98		98		70-130	0		20
Bromoform	93		94		54-136	1		20
1,1,2,2-Tetrachloroethane	94		98		67-130	4		20
Benzene	110		100		70-130	10		20
Toluene	100		99		70-130	1		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	110		100		64-130	10		20
Bromomethane	110		120		39-139	9		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,12 Batch: WG1729489-3 WG1729489-4								
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	98		100		70-130	2		20
Methyl tert butyl ether	97		98		63-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	99		110		70-130	11		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	91		100		58-148	9		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	70		83		63-138	17		20
4-Methyl-2-pentanone	80		95		59-130	17		20
2-Hexanone	91		96		57-130	5		20
Bromochloromethane	110		100		70-130	10		20
1,2-Dibromoethane	94		92		70-130	2		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,12 Batch: WG1729489-3 WG1729489-4								
1,2-Dibromo-3-chloropropane	87		92		41-144	6		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	96		98		64-130	2		20
1,2,4-Trimethylbenzene	95		97		70-130	2		20
Methyl Acetate	96		92		70-130	4		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	110		110		56-162	0		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		99		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	104		102		70-130
Dibromofluoromethane	105		100		70-130

SEMIVOLATILES

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-01
Client ID: MW-1D2
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 09:50
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/28/22 04:33
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	4.6		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	6.9		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	0.63	J	ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-01 Date Collected: 12/20/22 09:50

Client ID: MW-1D2 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	2.8	J	ug/l	5.0	0.57	1
2-Methylphenol	0.67	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	2.0	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	1.5	J	ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	79		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-01
Client ID: MW-1D2
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 09:50
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 10:41
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.96		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.64		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	130	E	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	22		ug/l	0.10	0.01	1
Anthracene	0.46		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	4.0		ug/l	0.10	0.01	1
Phenanthrene	2.7		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.44		ug/l	0.10	0.02	1
2-Methylnaphthalene	60		ug/l	0.10	0.02	1
Pentachlorophenol	0.74	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-01 Date Collected: 12/20/22 09:50

Client ID: MW-1D2 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	**124**	Q	23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	**139**	Q	10-120
4-Terphenyl-d14	82		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-01 D
Client ID: MW-1D2
Sample Location: BUFFALO, NY

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 14:32
Analyst: WR

Date Collected: 12/20/22 09:50
Date Received: 12/21/22
Field Prep: Not Specified

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	170		ug/l	0.50	0.24	5

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-02
Client ID: MW-1D3
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 10:45
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/28/22 04:57
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	0.73	J	ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	0.71	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-02 Date Collected: 12/20/22 10:45

Client ID: MW-1D3 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	76.		ug/l	5.0	0.57	1
2-Methylphenol	3.2	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	10.		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	1.4	J	ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	68		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-02
Client ID: MW-1D3
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 10:45
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 10:58
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.62		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.43		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	8.6		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.01	J	ug/l	0.10	0.01	1
Acenaphthylene	0.72		ug/l	0.10	0.01	1
Anthracene	0.31		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	1.3		ug/l	0.10	0.01	1
Phenanthrene	1.7		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.30		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.2		ug/l	0.10	0.02	1
Pentachlorophenol	0.63	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-02 Date Collected: 12/20/22 10:45

Client ID: MW-1D3 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	**135**	Q	10-120
4-Terphenyl-d14	75		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-03
Client ID: MW-1D4
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 11:42
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/28/22 03:21
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	1.1	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-03 Date Collected: 12/20/22 11:42

Client ID: MW-1D4 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	0.88	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	2.7	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	1.7	J	ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	67		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-03
Client ID: MW-1D4
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 11:42
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 11:14
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.74		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.61		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	5.6		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	1.0		ug/l	0.10	0.01	1
Anthracene	0.26		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	1.9		ug/l	0.10	0.01	1
Phenanthrene	2.5		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.39		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.4		ug/l	0.10	0.02	1
Pentachlorophenol	0.58	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-03 Date Collected: 12/20/22 11:42

Client ID: MW-1D4 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	**132**	Q	10-120
4-Terphenyl-d14	77		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-04
Client ID: MW2D2
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 11:30
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/23/22 16:03
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 00:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-04 Date Collected: 12/21/22 11:30

Client ID: MW2D2 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	67		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-04
Client ID: MW2D2
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 11:30
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 13:09
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.09	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.23		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	0.09	J	ug/l	0.10	0.01	1
Anthracene	0.10	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.09	J	ug/l	0.10	0.01	1
Phenanthrene	0.25		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.06	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.25	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-04 Date Collected: 12/21/22 11:30

Client ID: MW2D2 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	118		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	**130**	Q	10-120
4-Terphenyl-d14	78		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-05
Client ID: MW2D3
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 10:35
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/24/22 13:56
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 00:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	1.8	J	ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	6.3		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-05 Date Collected: 12/21/22 10:35

Client ID: MW2D3 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	1.0	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	1.8	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	8.8		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	60		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-05
Client ID: MW2D3
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 10:35
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 13:26
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	1.8		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	2.6		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	71		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.27		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.16		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.21		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.01	1
Chrysene	0.28		ug/l	0.10	0.01	1
Acenaphthylene	12		ug/l	0.10	0.01	1
Anthracene	1.9		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.01	1
Fluorene	10		ug/l	0.10	0.01	1
Phenanthrene	13		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.06	J	ug/l	0.10	0.01	1
Pyrene	1.7		ug/l	0.10	0.02	1
2-Methylnaphthalene	8.9		ug/l	0.10	0.02	1
Pentachlorophenol	0.46	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-05 Date Collected: 12/21/22 10:35

Client ID: MW2D3 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	**128**	Q	10-120
4-Terphenyl-d14	72		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-06
Client ID: MW2D4
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 09:52
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/24/22 14:19
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 00:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-06 Date Collected: 12/21/22 09:52

Client ID: MW2D4 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	107		10-120
4-Terphenyl-d14	68		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-06
Client ID: MW2D4
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 09:52
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 13:42
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.11		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	2.6		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	0.10	J	ug/l	0.10	0.01	1
Anthracene	0.07	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01	1
Fluorene	0.08	J	ug/l	0.10	0.01	1
Phenanthrene	0.13		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.09	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.54		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-06 Date Collected: 12/21/22 09:52

Client ID: MW2D4 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	**125**	Q	23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	**143**	Q	10-120
4-Terphenyl-d14	80		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-07
Client ID: MWS11A
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 13:30
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/24/22 14:42
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 00:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	6.1		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	9.4		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-07 Date Collected: 12/21/22 13:30

Client ID: MWS11A Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	4.5	J	ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	9.3		ug/l	5.0	0.57	1
2-Methylphenol	9.1		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	20.		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	3.1		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	66		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-07
Client ID: MWS11A
Sample Location: BUFFALO, NY

Date Collected: 12/21/22 13:30
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 13:59
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	7.8		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	5.0		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	83	E	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.74		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.51		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.67		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.19		ug/l	0.10	0.01	1
Chrysene	0.66		ug/l	0.10	0.01	1
Acenaphthylene	10		ug/l	0.10	0.01	1
Anthracene	1.4		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.28		ug/l	0.10	0.01	1
Fluorene	7.0		ug/l	0.10	0.01	1
Phenanthrene	8.4		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.08	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.31		ug/l	0.10	0.01	1
Pyrene	4.3		ug/l	0.10	0.02	1
2-Methylnaphthalene	30		ug/l	0.10	0.02	1
Pentachlorophenol	1.3		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-07 Date Collected: 12/21/22 13:30

Client ID: MWS11A Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	**133**	Q	10-120
4-Terphenyl-d14	77		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-07 D
Client ID: MWS11A
Sample Location: BUFFALO, NY

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 14:48
Analyst: WR

Date Collected: 12/21/22 13:30
Date Received: 12/21/22
Field Prep: Not Specified

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	100		ug/l	0.50	0.24	5

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-08
Client ID: MW-1D1
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 13:45
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/23/22 04:51
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	7.5		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	1.5	J	ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	1.6	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-08 Date Collected: 12/19/22 13:45

Client ID: MW-1D1 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	1.0	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	0.97	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	73		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	117		10-120
4-Terphenyl-d14	98		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-08
Client ID: MW-1D1
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 13:45
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 11:31
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.26		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	96	E	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	5.0		ug/l	0.10	0.01	1
Anthracene	0.12		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.83		ug/l	0.10	0.01	1
Phenanthrene	0.20		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.08	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	1.1		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-08 Date Collected: 12/19/22 13:45

Client ID: MW-1D1 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	**128**	Q	23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	**151**	Q	10-120
4-Terphenyl-d14	88		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-08 D
Client ID: MW-1D1
Sample Location: BUFFALO, NY

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 15:54
Analyst: WR

Date Collected: 12/19/22 13:45
Date Received: 12/21/22
Field Prep: Not Specified

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	140		ug/l	0.50	0.24	5

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-09
Client ID: MW-1D6
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 13:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/23/22 05:14
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.2	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	1.2	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-09 Date Collected: 12/19/22 13:00

Client ID: MW-1D6 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	1.2	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	2.0	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	2.5		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		21-120
Phenol-d6	73		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	95		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-09
Client ID: MW-1D6
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 13:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 11:47
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.22		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	8.4		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	10		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.76		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.18		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.64		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.22		ug/l	0.10	0.01	1
Chrysene	1.1		ug/l	0.10	0.01	1
Acenaphthylene	0.23		ug/l	0.10	0.01	1
Anthracene	0.51		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.10	J	ug/l	0.10	0.01	1
Fluorene	0.73		ug/l	0.10	0.01	1
Phenanthrene	12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.12		ug/l	0.10	0.01	1
Pyrene	5.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.1		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-09 Date Collected: 12/19/22 13:00

Client ID: MW-1D6 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		21-120
Phenol-d6	75		10-120
Nitrobenzene-d5	**152**	Q	23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	**192**	Q	10-120
4-Terphenyl-d14	109		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-10
Client ID: MW-1D7
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 14:40
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/23/22 05:38
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-10 Date Collected: 12/19/22 14:40

Client ID: MW-1D7 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		21-120
Phenol-d6	67		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	99		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-10
Client ID: MW-1D7
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 14:40
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 12:04
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.49		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.31		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.34		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.12		ug/l	0.10	0.01	1
Anthracene	0.26		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	4.0		ug/l	0.10	0.01	1
Phenanthrene	0.07	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.18		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-10 Date Collected: 12/19/22 14:40

Client ID: MW-1D7 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		21-120
Phenol-d6	71		10-120
Nitrobenzene-d5	**143**	Q	23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	**177**	Q	10-120
4-Terphenyl-d14	99		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-11
Client ID: MW-1D8
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 15:18
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/23/22 06:01
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.39	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-11 Date Collected: 12/19/22 15:18

Client ID: MW-1D8 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	90		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-11
Client ID: MW-1D8
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 15:18
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 12:20
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.05	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.09	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.32		ug/l	0.10	0.01	1
Anthracene	0.12		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.25		ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.06	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-11 Date Collected: 12/19/22 15:18

Client ID: MW-1D8 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	**147**	Q	23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	**178**	Q	10-120
4-Terphenyl-d14	105		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-12
Client ID: MW1U1
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 09:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/28/22 04:09
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	0.95	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-12 Date Collected: 12/20/22 09:00

Client ID: MW1U1 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	0.88	J	ug/l	5.0	0.57	1
2-Methylphenol	0.70	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	2.1	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	1.7	J	ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	3.4	J	ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	79		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-12
Client ID: MW1U1
Sample Location: BUFFALO, NY

Date Collected: 12/20/22 09:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 12:37
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 21:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.66		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	1.4		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	16		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.09	J	ug/l	0.10	0.01	1
Acenaphthylene	1.5		ug/l	0.10	0.01	1
Anthracene	0.45		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	1.8		ug/l	0.10	0.01	1
Phenanthrene	2.9		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	1.4		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.2		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-12 Date Collected: 12/20/22 09:00

Client ID: MW1U1 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	**126**	Q	23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	**152**	Q	10-120
4-Terphenyl-d14	89		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-13
Client ID: MWN-12
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 16:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 12/23/22 06:25
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.58	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	1.9	J	ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	8.0		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-13 Date Collected: 12/19/22 16:00

Client ID: MWN-12 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	0.86	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	2.7	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	6.7		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	85		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-13
Client ID: MWN-12
Sample Location: BUFFALO, NY

Date Collected: 12/19/22 16:00
Date Received: 12/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 12:53
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 15:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	3.2		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	6.5		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	48		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.14		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.18		ug/l	0.10	0.01	1
Acenaphthylene	3.6		ug/l	0.10	0.01	1
Anthracene	3.1		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	12		ug/l	0.10	0.01	1
Phenanthrene	24		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	4.5		ug/l	0.10	0.02	1
2-Methylnaphthalene	8.2		ug/l	0.10	0.02	1
Pentachlorophenol	0.30	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

SAMPLE RESULTS

Lab ID: L2271943-13 Date Collected: 12/19/22 16:00

Client ID: MWN-12 Date Received: 12/21/22

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	119		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	**152**	Q	10-120
4-Terphenyl-d14	91		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/22/22 13:35
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 05:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,08-13 Batch: WG1726425-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/22/22 13:35
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 05:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,08-13 Batch: WG1726425-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	64		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/22/22 12:57
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 05:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03,08-13 Batch: WG1726426-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.01	J	ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/22/22 12:57
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/22/22 05:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03,08-13 Batch: WG1726426-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	**132**	Q	23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	**139**	Q	10-120
4-Terphenyl-d14	87		41-149

Project Name: TECUMSEH-HWMU **Lab Number:** L2271943

Project Number: T0071-021-910 **Report Date:** 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/23/22 08:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 00:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-07 Batch: WG1726894-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/23/22 08:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 00:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-07 Batch: WG1726894-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	70		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 15:05
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 01:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04-07 Batch: WG1726896-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910
Lab Number: L2271943
Report Date: 02/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 15:05
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/23/22 01:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04-07 Batch: WG1726896-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	**148**	Q	23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	**180**	Q	10-120
4-Terphenyl-d14	115		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,08-13 Batch: WG1726425-2 WG1726425-3								
Bis(2-chloroethyl)ether	69		59		40-140	16		30
3,3'-Dichlorobenzidine	71		61		40-140	15		30
2,4-Dinitrotoluene	85		77		48-143	10		30
2,6-Dinitrotoluene	85		72		40-140	17		30
4-Chlorophenyl phenyl ether	71		65		40-140	9		30
4-Bromophenyl phenyl ether	78		70		40-140	11		30
Bis(2-chloroisopropyl)ether	69		60		40-140	14		30
Bis(2-chloroethoxy)methane	72		63		40-140	13		30
Hexachlorocyclopentadiene	80		69		40-140	15		30
Isophorone	70		60		40-140	15		30
Nitrobenzene	76		68		40-140	11		30
NDPA/DPA	76		69		40-140	10		30
n-Nitrosodi-n-propylamine	70		65		29-132	7		30
Bis(2-ethylhexyl)phthalate	90		82		40-140	9		30
Butyl benzyl phthalate	86		77		40-140	11		30
Di-n-butylphthalate	82		73		40-140	12		30
Di-n-octylphthalate	87		78		40-140	11		30
Diethyl phthalate	76		72		40-140	5		30
Dimethyl phthalate	76		70		40-140	8		30
Biphenyl	79		71		40-140	11		30
4-Chloroaniline	48		47		40-140	2		30
2-Nitroaniline	81		77		52-143	5		30
3-Nitroaniline	69		65		25-145	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,08-13 Batch: WG1726425-2 WG1726425-3

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
4-Nitroaniline	81		70		51-143	15		30
Dibenzofuran	72		67		40-140	7		30
1,2,4,5-Tetrachlorobenzene	80		76		2-134	5		30
Acetophenone	84		74		39-129	13		30
2,4,6-Trichlorophenol	97		89		30-130	9		30
p-Chloro-m-cresol	80		75		23-97	6		30
2-Chlorophenol	77		69		27-123	11		30
2,4-Dichlorophenol	84		74		30-130	13		30
2,4-Dimethylphenol	64		50		30-130	25		30
2-Nitrophenol	104		91		30-130	13		30
4-Nitrophenol	**81**	Q	77		10-80	5		30
2,4-Dinitrophenol	119		109		20-130	9		30
4,6-Dinitro-o-cresol	121		110		20-164	10		30
Phenol	60		55		12-110	9		30
2-Methylphenol	73		62		30-130	16		30
3-Methylphenol/4-Methylphenol	76		66		30-130	14		30
2,4,5-Trichlorophenol	85		78		30-130	9		30
Carbazole	77		68		55-144	12		30
Atrazine	98		82		40-140	18		30
Benzaldehyde	83		74		40-140	11		30
Caprolactam	39		35		10-130	11		30
2,3,4,6-Tetrachlorophenol	102		91		40-140	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,08-13 Batch: WG1726425-2 WG1726425-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		66		21-120
Phenol-d6	65		57		10-120
Nitrobenzene-d5	80		69		23-120
2-Fluorobiphenyl	75		68		15-120
2,4,6-Tribromophenol	106		101		10-120
4-Terphenyl-d14	82		72		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03,08-13 Batch: WG1726426-2 WG1726426-3								
Acenaphthene	82		85		40-140	4		40
2-Chloronaphthalene	76		80		40-140	5		40
Fluoranthene	82		102		40-140	22		40
Hexachlorobutadiene	73		70		40-140	4		40
Naphthalene	80		85		40-140	6		40
Benzo(a)anthracene	86		95		40-140	10		40
Benzo(a)pyrene	87		98		40-140	12		40
Benzo(b)fluoranthene	86		97		40-140	12		40
Benzo(k)fluoranthene	87		94		40-140	8		40
Chrysene	86		91		40-140	6		40
Acenaphthylene	84		88		40-140	5		40
Anthracene	84		91		40-140	8		40
Benzo(ghi)perylene	92		102		40-140	10		40
Fluorene	84		89		40-140	6		40
Phenanthrene	84		90		40-140	7		40
Dibenzo(a,h)anthracene	97		109		40-140	12		40
Indeno(1,2,3-cd)pyrene	98		109		40-140	11		40
Pyrene	84		89		40-140	6		40
2-Methylnaphthalene	76		81		40-140	6		40
Pentachlorophenol	**149**	Q	**161**	Q	40-140	8		40
Hexachlorobenzene	124		92		40-140	30		40
Hexachloroethane	79		78		40-140	1		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03,08-13 Batch: WG1726426-2 WG1726426-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		84		21-120
Phenol-d6	68		73		10-120
Nitrobenzene-d5	**131**	Q	**141**	Q	23-120
2-Fluorobiphenyl	77		81		15-120
2,4,6-Tribromophenol	**136**	Q	**150**	Q	10-120
4-Terphenyl-d14	79		86		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07 Batch: WG1726894-2 WG1726894-3								
Bis(2-chloroethyl)ether	62		60		40-140	3		30
3,3'-Dichlorobenzidine	61		61		40-140	0		30
2,4-Dinitrotoluene	75		75		48-143	0		30
2,6-Dinitrotoluene	80		71		40-140	12		30
4-Chlorophenyl phenyl ether	67		60		40-140	11		30
4-Bromophenyl phenyl ether	65		63		40-140	3		30
Bis(2-chloroisopropyl)ether	60		57		40-140	5		30
Bis(2-chloroethoxy)methane	66		62		40-140	6		30
Hexachlorocyclopentadiene	68		65		40-140	5		30
Isophorone	62		59		40-140	5		30
Nitrobenzene	68		66		40-140	3		30
NDPA/DPA	67		64		40-140	5		30
n-Nitrosodi-n-propylamine	62		61		29-132	2		30
Bis(2-ethylhexyl)phthalate	74		72		40-140	3		30
Butyl benzyl phthalate	73		68		40-140	7		30
Di-n-butylphthalate	68		65		40-140	5		30
Di-n-octylphthalate	70		68		40-140	3		30
Diethyl phthalate	70		63		40-140	11		30
Dimethyl phthalate	69		66		40-140	4		30
Biphenyl	70		68		40-140	3		30
4-Chloroaniline	57		49		40-140	15		30
2-Nitroaniline	71		72		52-143	1		30
3-Nitroaniline	61		64		25-145	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07 Batch: WG1726894-2 WG1726894-3								
4-Nitroaniline	73		69		51-143	6		30
Dibenzofuran	65		62		40-140	5		30
1,2,4,5-Tetrachlorobenzene	74		72		2-134	3		30
Acetophenone	73		70		39-129	4		30
2,4,6-Trichlorophenol	85		83		30-130	2		30
p-Chloro-m-cresol	69		70		23-97	1		30
2-Chlorophenol	66		62		27-123	6		30
2,4-Dichlorophenol	73		73		30-130	0		30
2,4-Dimethylphenol	60		59		30-130	2		30
2-Nitrophenol	89		86		30-130	3		30
4-Nitrophenol	57		55		10-80	4		30
2,4-Dinitrophenol	114		104		20-130	9		30
4,6-Dinitro-o-cresol	123		108		20-164	13		30
Phenol	44		41		12-110	7		30
2-Methylphenol	58		57		30-130	2		30
3-Methylphenol/4-Methylphenol	60		59		30-130	2		30
2,4,5-Trichlorophenol	76		75		30-130	1		30
Carbazole	67		62		55-144	8		30
Atrazine	78		83		40-140	6		30
Benzaldehyde	70		68		40-140	3		30
Caprolactam	30		32		10-130	6		30
2,3,4,6-Tetrachlorophenol	86		86		40-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TECUMSEH-HWMU

Project Number: T0071-021-910

Lab Number: L2271943

Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07 Batch: WG1726894-2 WG1726894-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		51		21-120
Phenol-d6	46		44		10-120
Nitrobenzene-d5	70		66		23-120
2-Fluorobiphenyl	68		63		15-120
2,4,6-Tribromophenol	97		93		10-120
4-Terphenyl-d14	69		65		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04-07 Batch: WG1726896-2 WG1726896-3								
Acenaphthene	91		88		40-140	3		40
2-Chloronaphthalene	92		90		40-140	2		40
Fluoranthene	107		106		40-140	1		40
Hexachlorobutadiene	84		86		40-140	2		40
Naphthalene	90		87		40-140	3		40
Benzo(a)anthracene	102		99		40-140	3		40
Benzo(a)pyrene	108		106		40-140	2		40
Benzo(b)fluoranthene	103		105		40-140	2		40
Benzo(k)fluoranthene	109		104		40-140	5		40
Chrysene	104		99		40-140	5		40
Acenaphthylene	100		98		40-140	2		40
Anthracene	99		97		40-140	2		40
Benzo(ghi)perylene	104		100		40-140	4		40
Fluorene	96		96		40-140	0		40
Phenanthrene	95		94		40-140	1		40
Dibenzo(a,h)anthracene	114		110		40-140	4		40
Indeno(1,2,3-cd)pyrene	112		108		40-140	4		40
Pyrene	109		108		40-140	1		40
2-Methylnaphthalene	87		86		40-140	1		40
Pentachlorophenol	140		134		40-140	4		40
Hexachlorobenzene	106		104		40-140	2		40
Hexachloroethane	87		98		40-140	12		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04-07 Batch: WG1726896-2 WG1726896-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		75		21-120
Phenol-d6	68		66		10-120
Nitrobenzene-d5	**148**	Q	**149**	Q	23-120
2-Fluorobiphenyl	94		93		15-120
2,4,6-Tribromophenol	**182**	Q	**171**	Q	10-120
4-Terphenyl-d14	115		113		41-149

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271943-01A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-01B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-01C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-01D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-01E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-02A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-02B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-02C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-02D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-02E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-03A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-03B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-03C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-03D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-03E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-04A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-04B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-04C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-04D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-04E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-05A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-05B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
Report Date: 02/21/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271943-05C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-05D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-05E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-06A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-06B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-06C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-06D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-06E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-07A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-07B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-07C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-07D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-07E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-08A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-08B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-08C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-08D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-08E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-09A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-09B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-09C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-09D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-09E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-10A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-10B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-10C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-10D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-10E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: TECUMSEH-HWMU
Project Number: T0071-021-910

Lab Number: L2271943
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271943-11A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-11B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-11C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-11D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-11E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-12A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-12B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-12C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-12D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-12E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-13A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-13B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-13C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-13D	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-13E	Amber 250ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2271943-14A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-14B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-14C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L2271943-14D	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	TECUMSEH-HWMU	**Lab Number:**	L2271943
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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	TECUMSEH-HWMU	**Lab Number:**	L2271943
Project Number:	T0071-021-910	**Report Date:**	02/21/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/22/22

ALPHA Job #: L2271943

Client Information

Client: Benchmark Environmental
Address: 2558 Hamburg Turnpike, Ste300
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: bgreene@bm-tk.com

Project Information

Project Name: Tecumseh HWMU
Project Location: Buffalo, NY
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☑

Other project specific requirements/comments:

* VOC minus Naphthalene ** SVOC plus Naphthalene

Please specify Metals or TAL.

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CP-51 VOC*	TCL SVOC**	TCL + CP-51 VOC*						Sample Specific Comments	Total Bottles
71943 01	MW-1D2	12-20-22	0950	Water	CEH	X	X								5
-02	MW-1D3	12-20-22	1045	Water	CEH	X	X								5
-03	MW-1D4	12-20-22	1142	Water	CEH	X	X								5
-04	MW2D2	12-21-22	1130	Water	CEH	X	X								5
-05	MW2D3	12-21-22	1035	Water	CEH	X	X								5
-06	MW2D4	12-21-22	0952	Water	CEH	X	X								5
-07	MWS11A	12-21-22	1330	Water	CEH	X	X								5
-08	MW-1D1	12-19-22	1345	Water	CEH		X	X							5
-09	MW-1D6	12-19-22	1300	Water	CEH		X	X							5
-10	MW-1D7	12-19-22	1440	Water	CEH		X	X							5
					Container Type	V	A	V							
					Preservative	B	A	B							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Chester Hochreiter	12-21-22 / 1430	Dayan F. Smith AAL	15:40 12/21/22
Dayan F. Smith	12-21-22 / 16:10		12/22/22 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 12/22/22

ALPHA Job #: L2271943

Client Information
Client: Benchmark Environmental
Address: 2558 Hamburg Turnpike,Ste300
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: bgreene@bm-tk.com

Project Information
Project Name: Tecumseh HWMU
Project Location: Buffalo, NY
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☑

Other project specific requirements/comments:
* VOC minus Naphthalene ** SVOC plus Naphthalene

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CP-51 VOC*	TCL SVOC**	TCL + CP-51 VOC*						Total Bottles
71943-11	MW-1D8	12-19-22	1518	Water	CEH		X	X						5
-12	MW1U1	12-20-22	0900	Water	CEH		X	X						5
-13	MWN-12	12-19-22	1600	Water	CEH		X	X						5
-14	Trip Blank	12-19-22	0900	water	CEH	X		X						

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Container Type	V	A	V											
Preservative	B	A	B											

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Chester Horkowski	12-21-22/1430	Logan F. Smith AAL	12/21/22 15:40
Logan F. Smith	12-21-22/1610		12/22/22 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ATTACHMENT 3

TIME-CONCENTRATION PLOTS

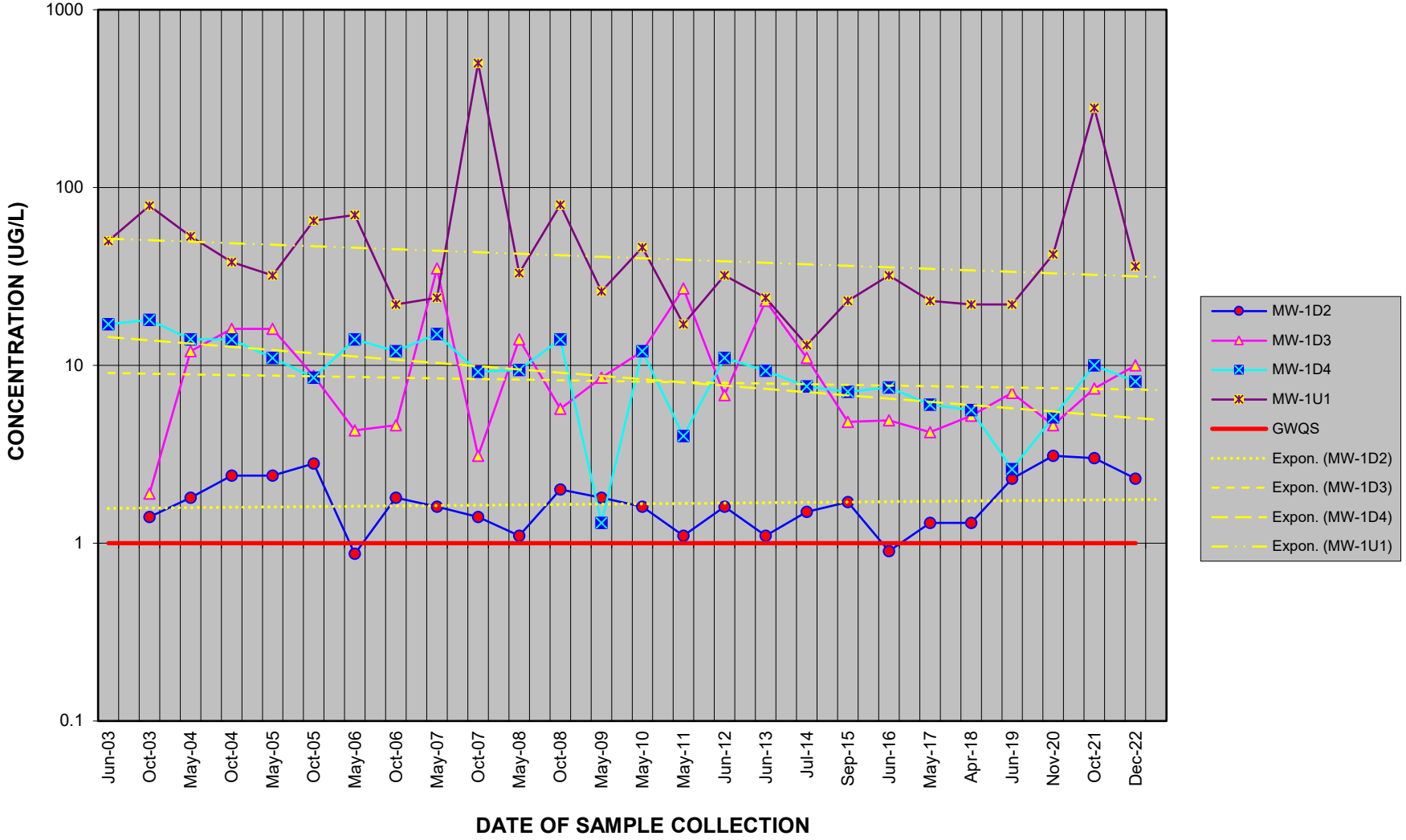
ATTACHMENT 3A

TIME-CONCENTRATION PLOTS

HWMU-1A

BENZENE

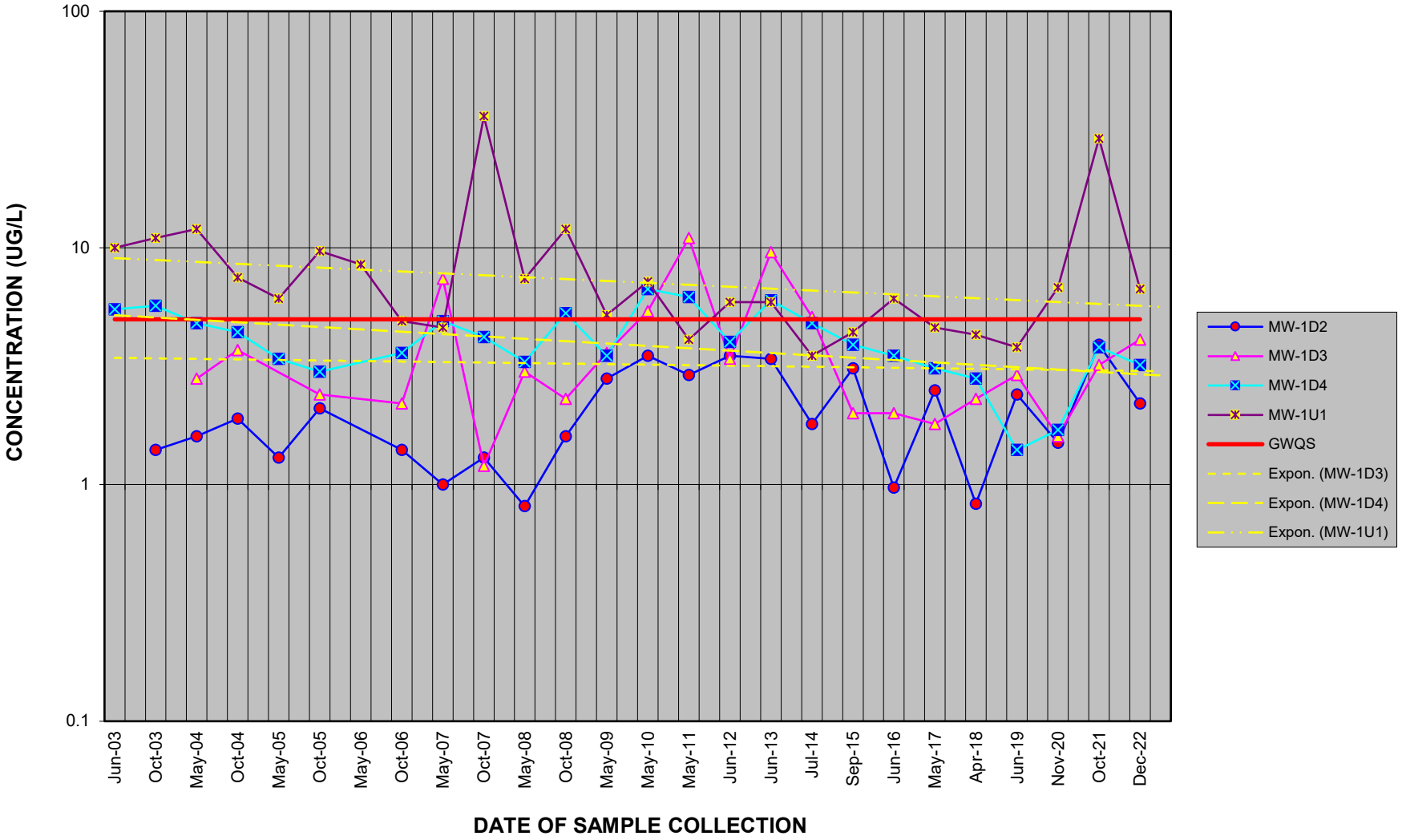
HAZARDOUS WASTE MANAGEMENT UNIT 1A
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

TOLUENE

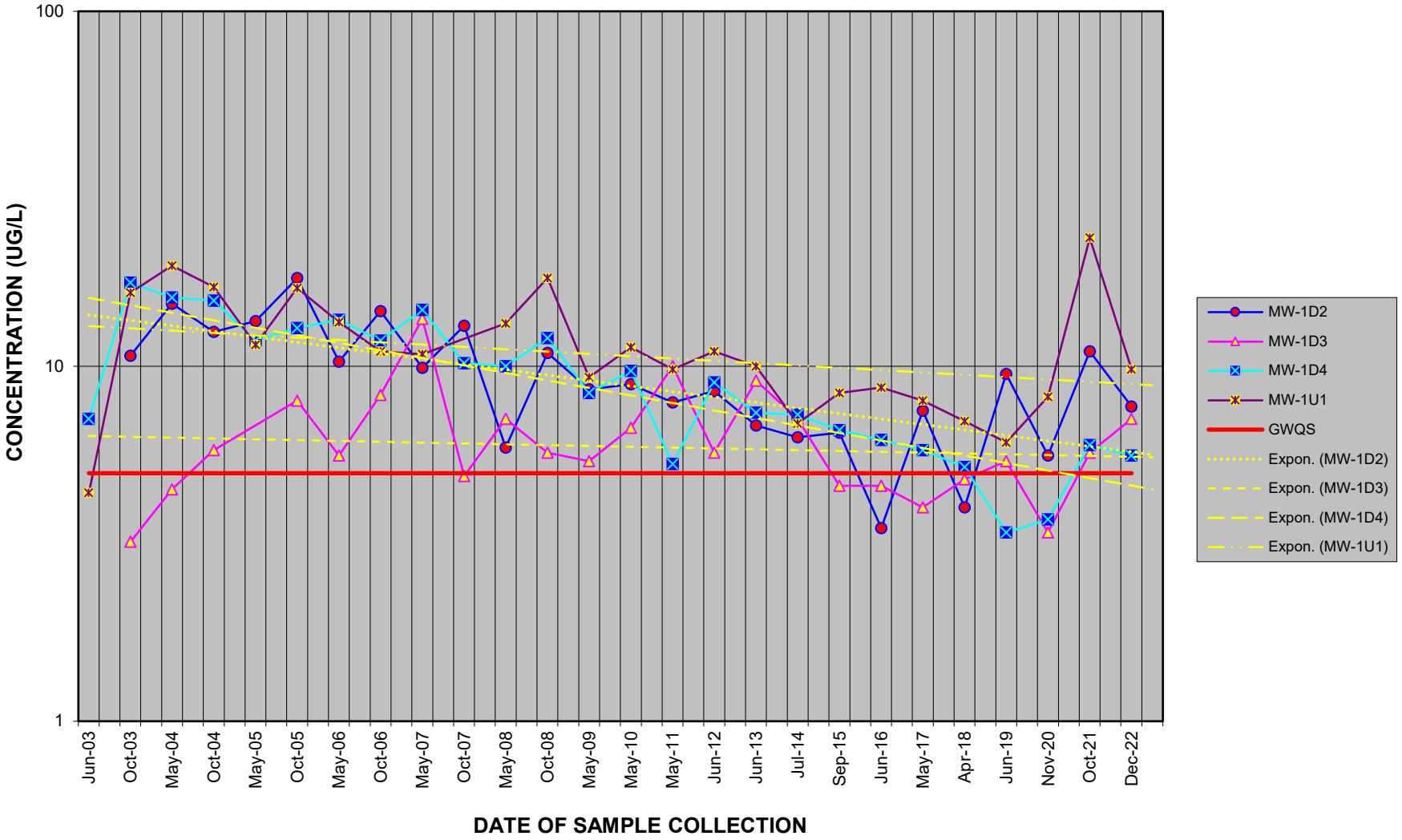
HAZARDOUS WASTE MANAGEMENT UNIT 1A
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

TOTAL XYLENES

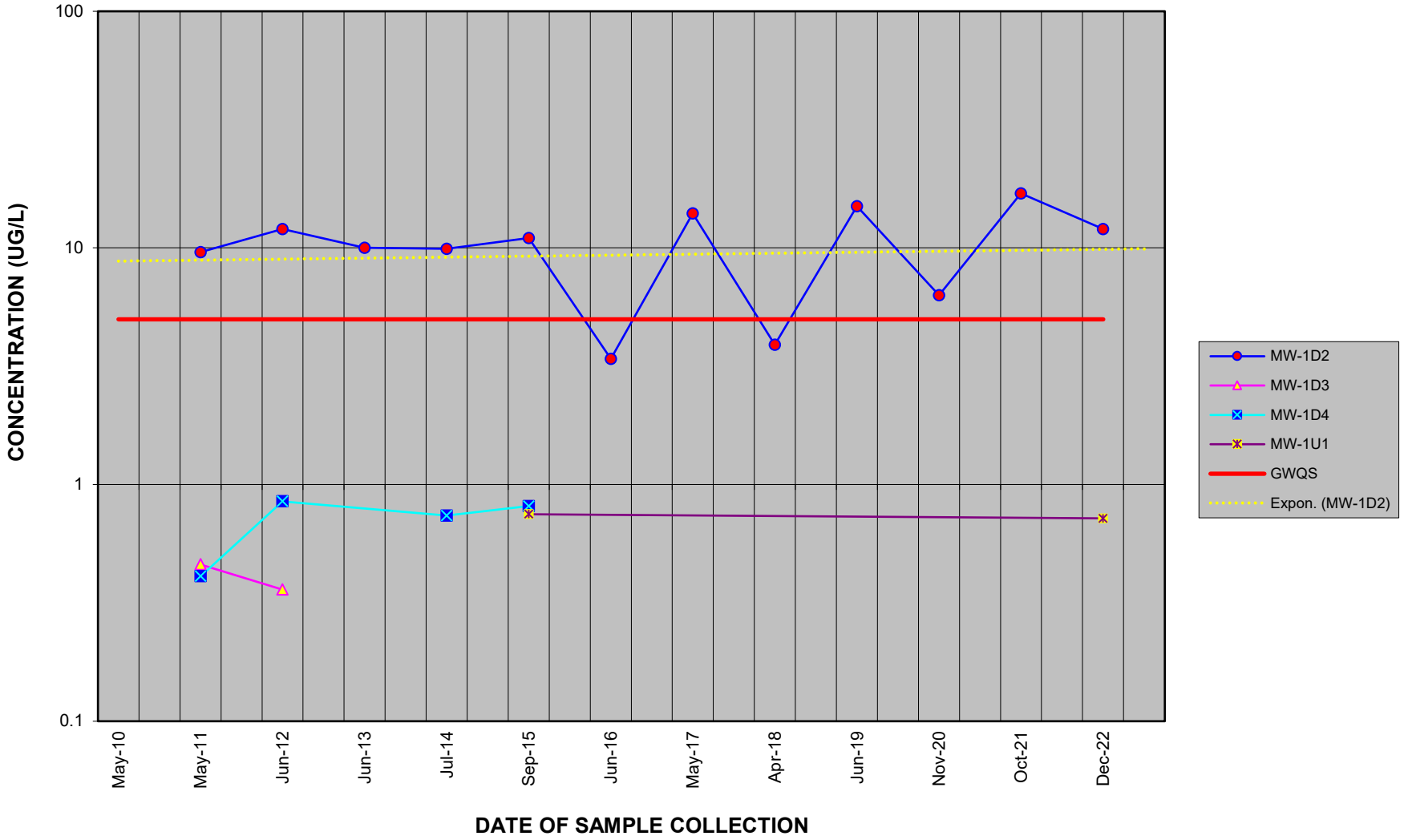
HAZARDOUS WASTE MANAGEMENT UNIT 1A
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

1,2,4-TRIMETHYLBENZENE

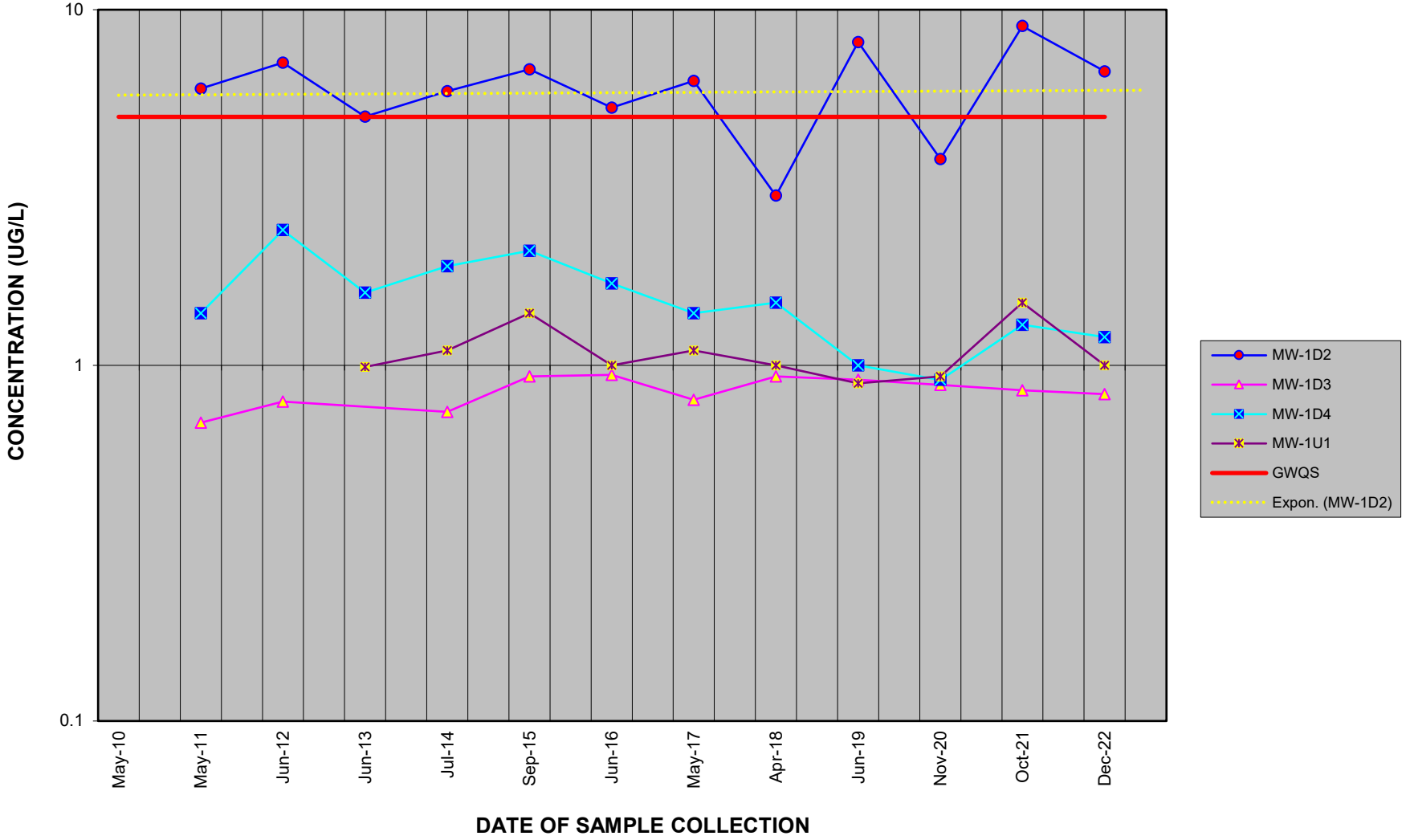
HAZARDOUS WASTE MANAGEMENT UNIT 1A
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

1,3,5-TRIMETHYLBENZENE

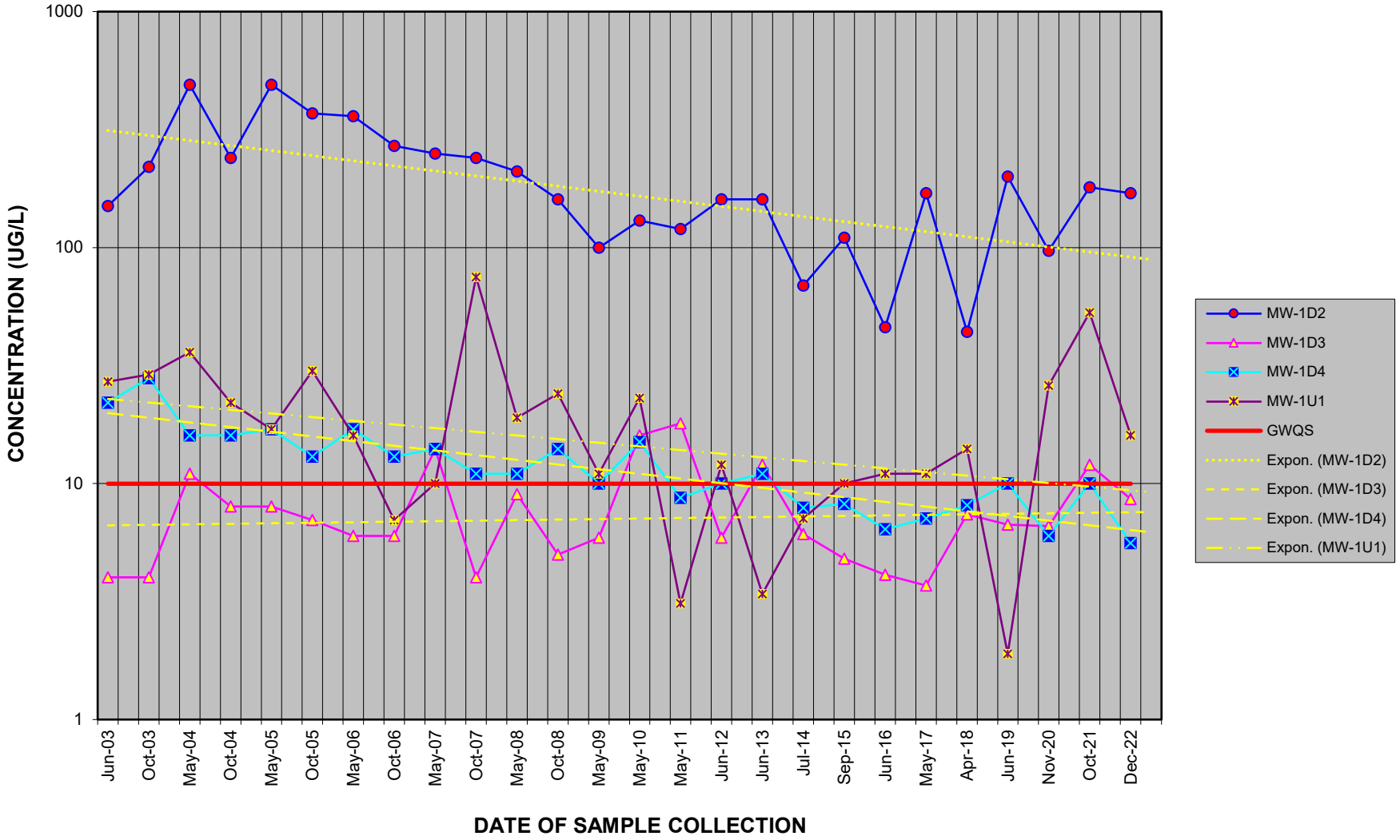
HAZARDOUS WASTE MANAGEMENT UNIT 1A
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

NAPHTHALENE

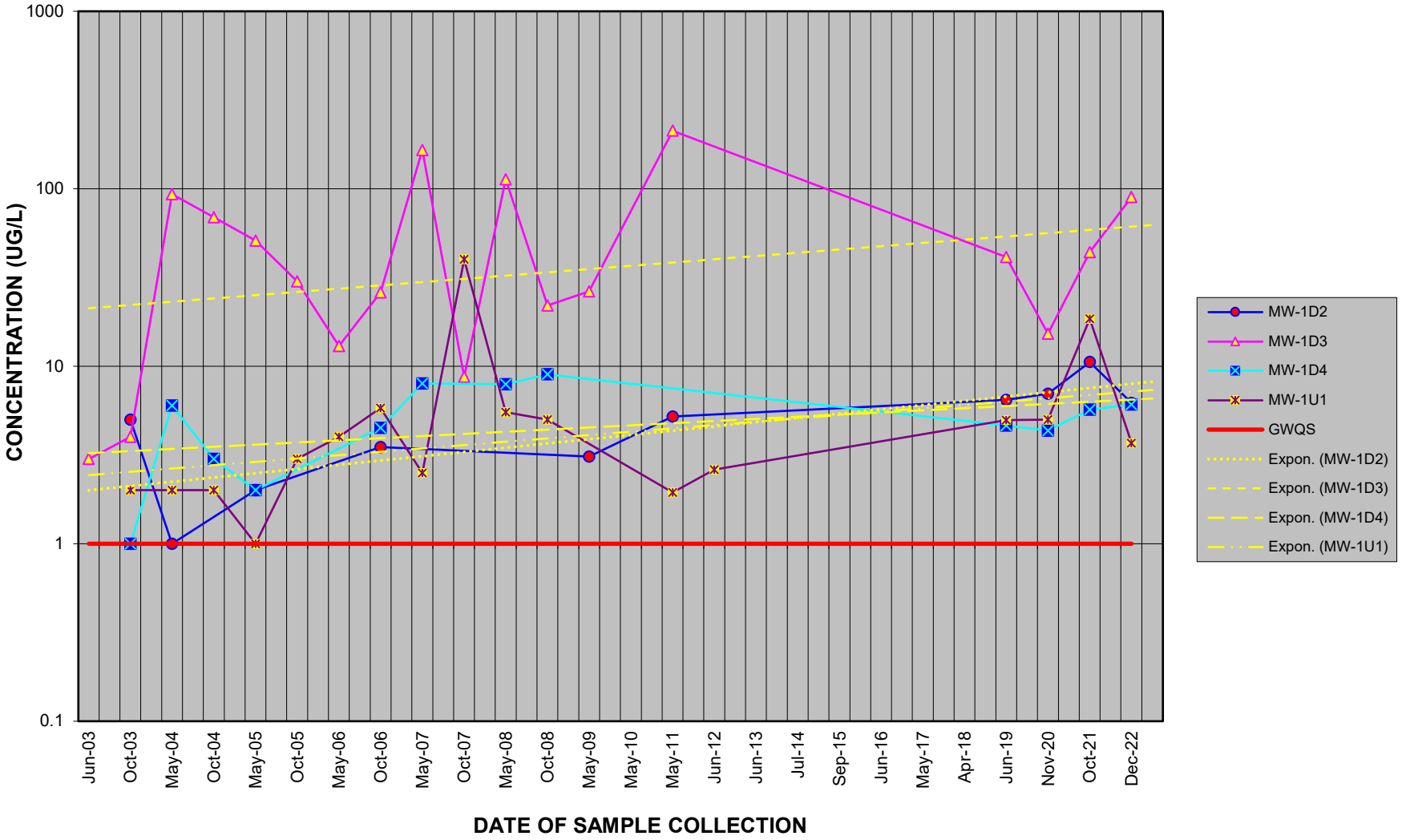
HAZARDOUS WASTE MANAGEMENT UNIT 1A
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

SUM OF PHENOLIC COMPOUNDS

HAZARDOUS WASTE MANAGEMENT UNIT 1A
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

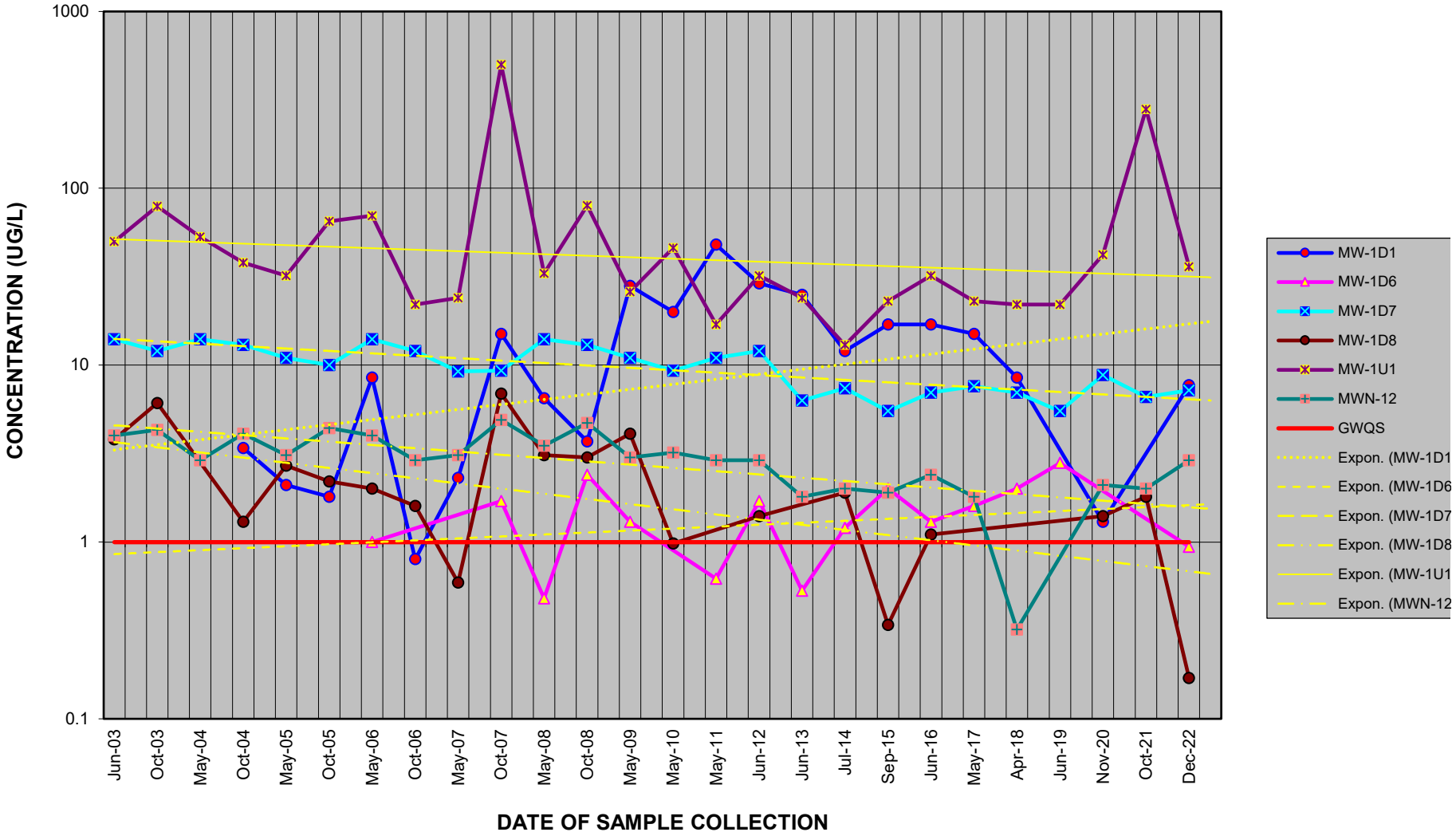
ATTACHMENT 3B

TIME-CONCENTRATION PLOTS

HWMU-1B

BENZENE

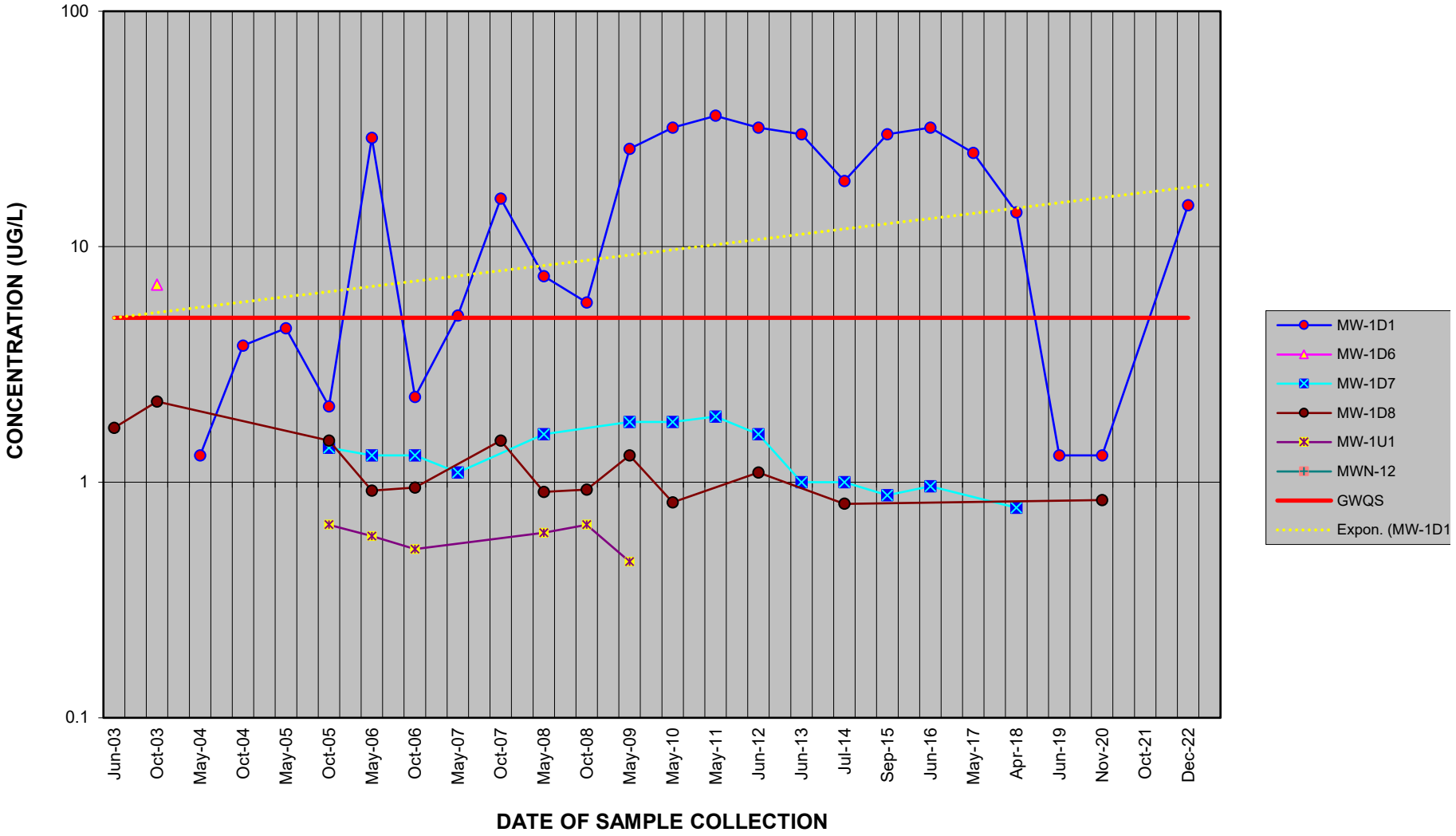
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

ETHYLBENZENE

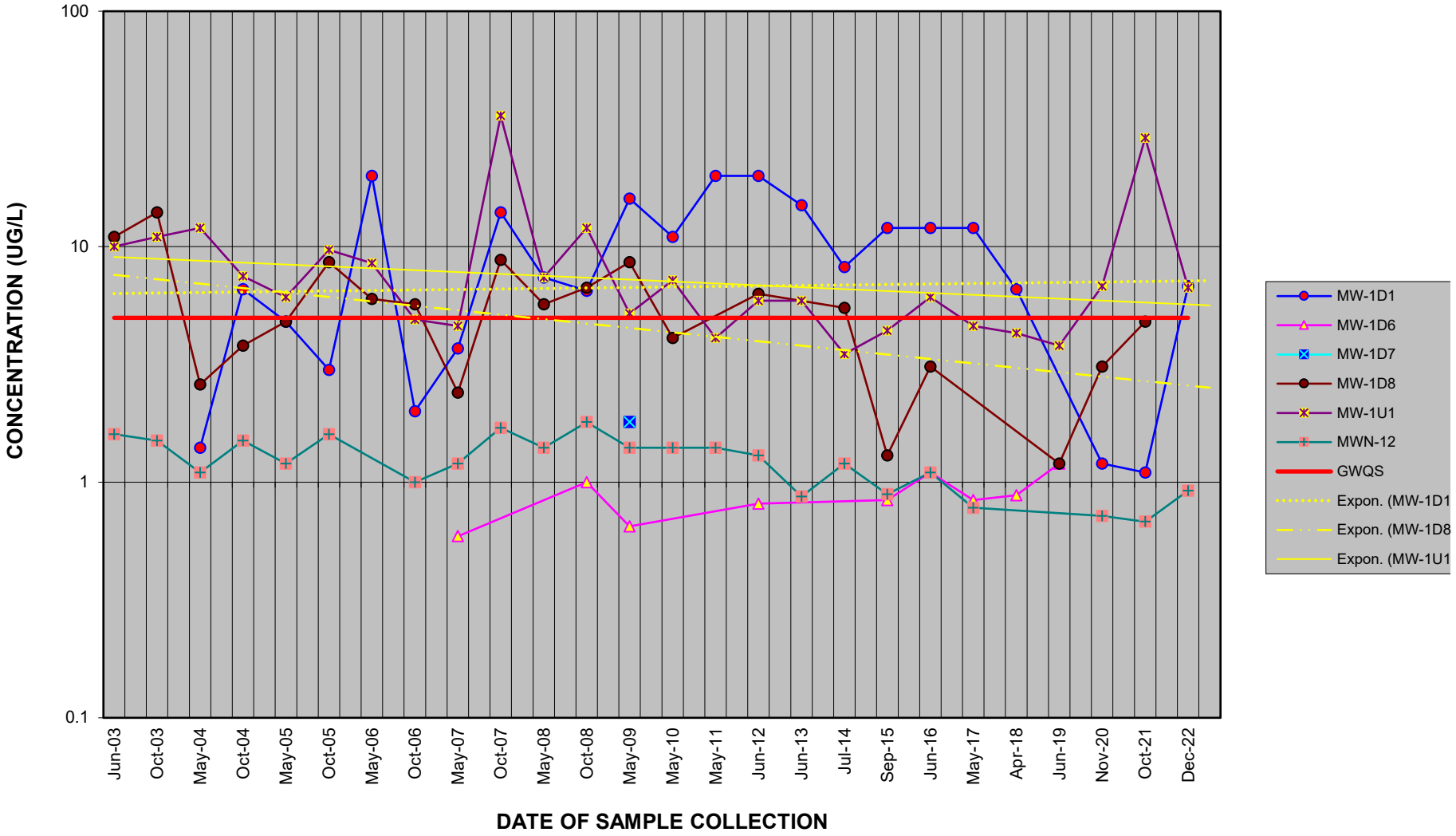
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

TOLUENE

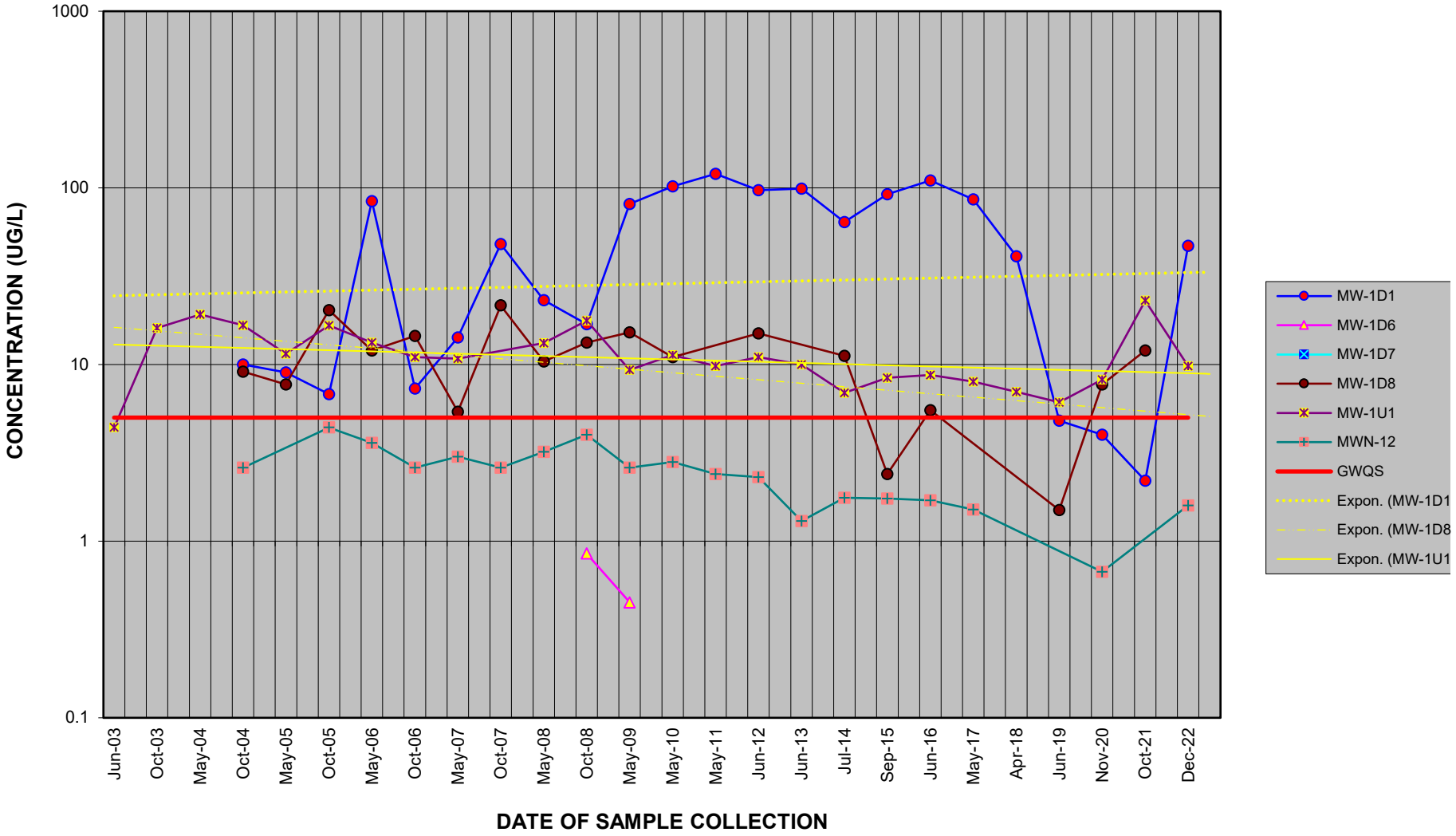
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

TOTAL XYLENES

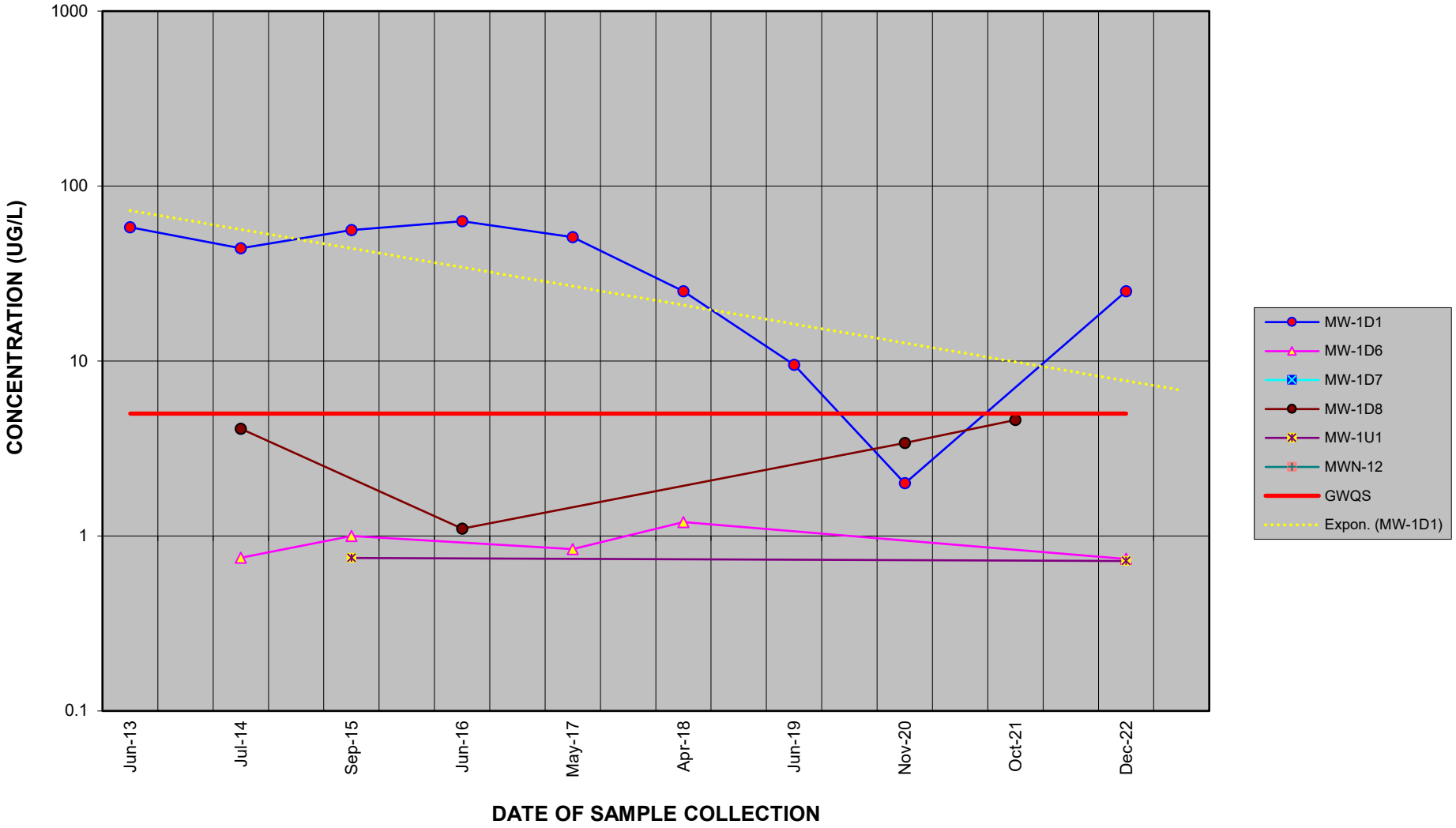
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

1,2,4-TRIMETHYLBENZENE

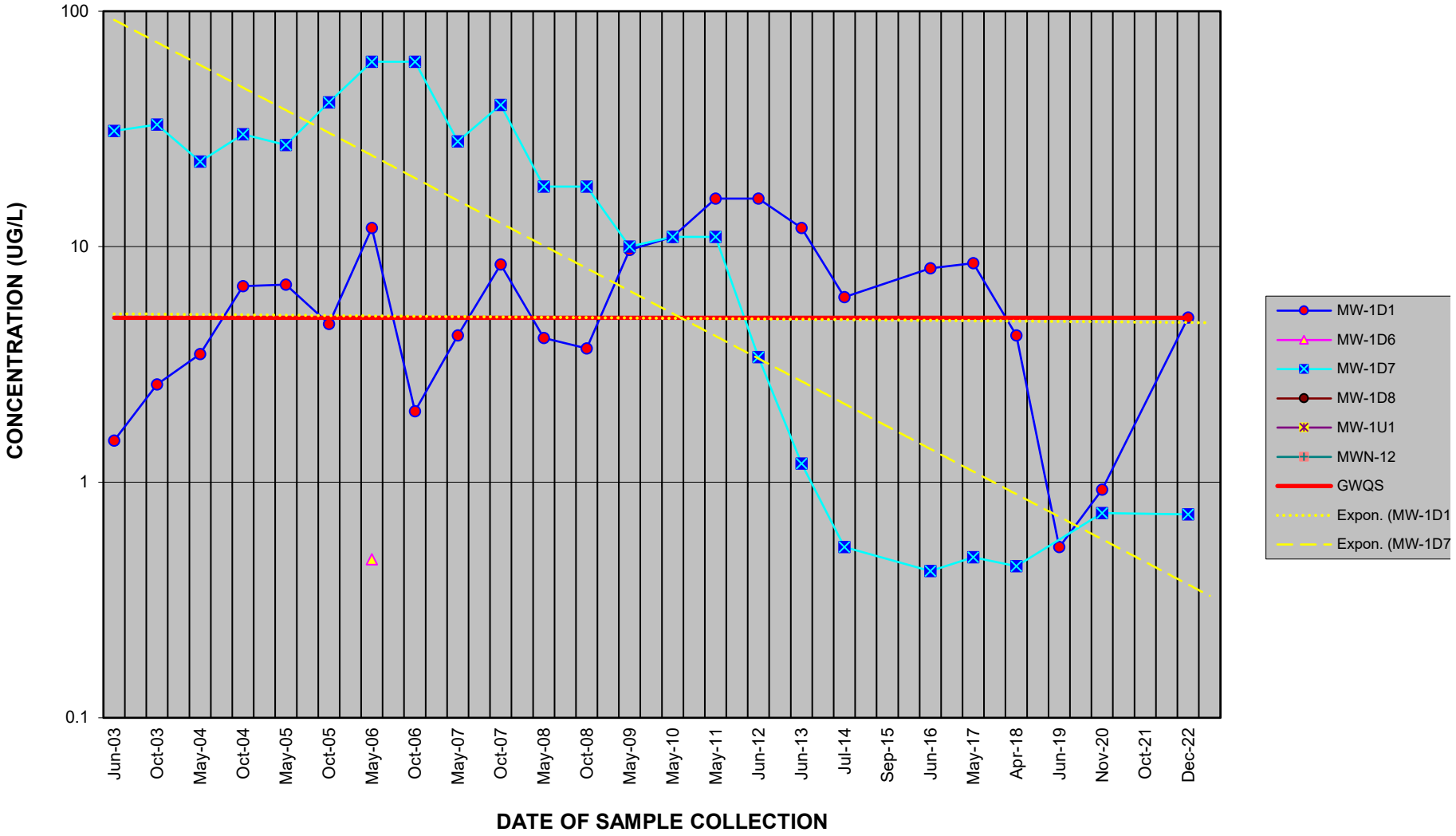
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

TRICHLOROETHENE

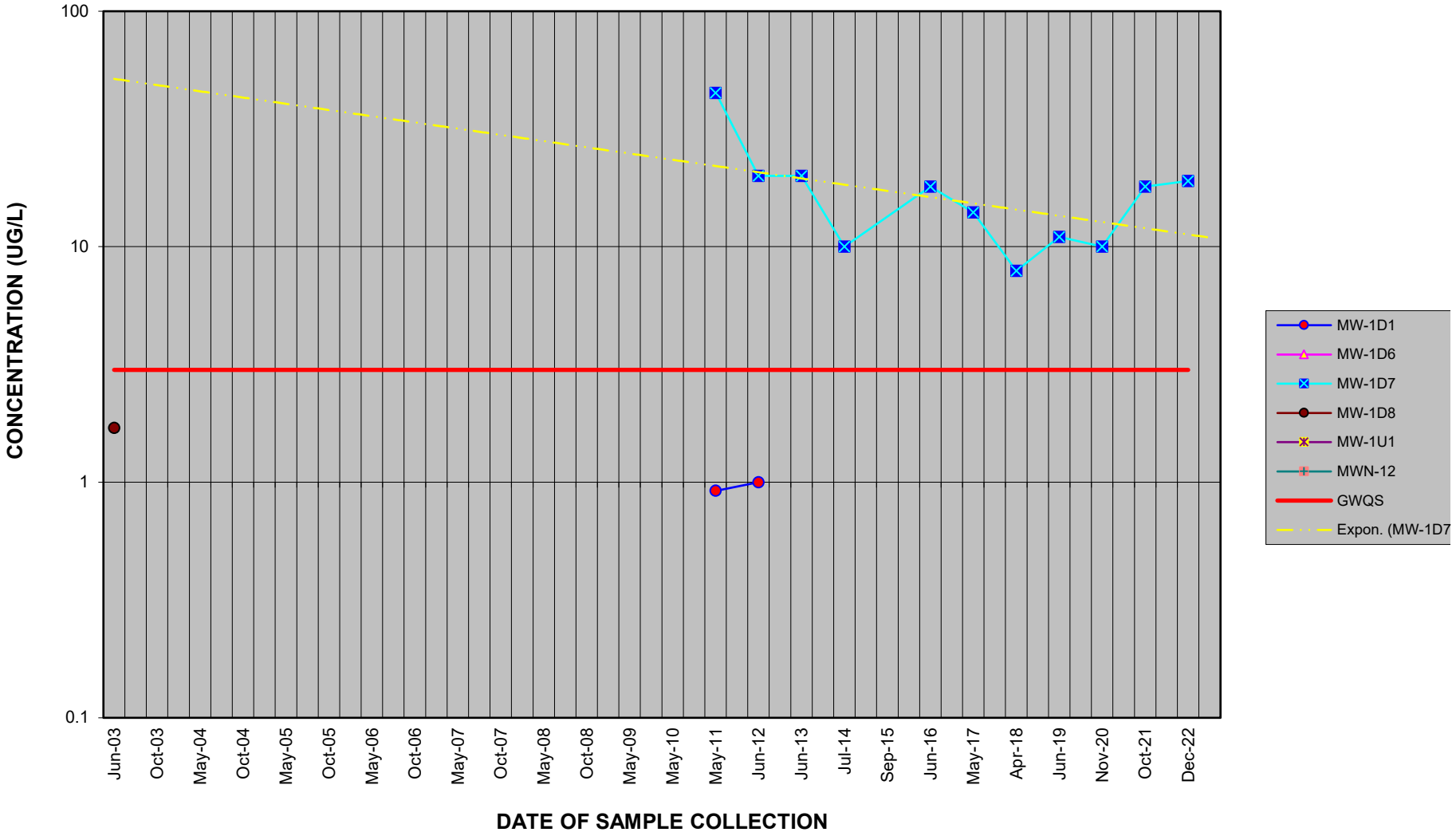
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

cis-1,2-DICHLOROETHENE

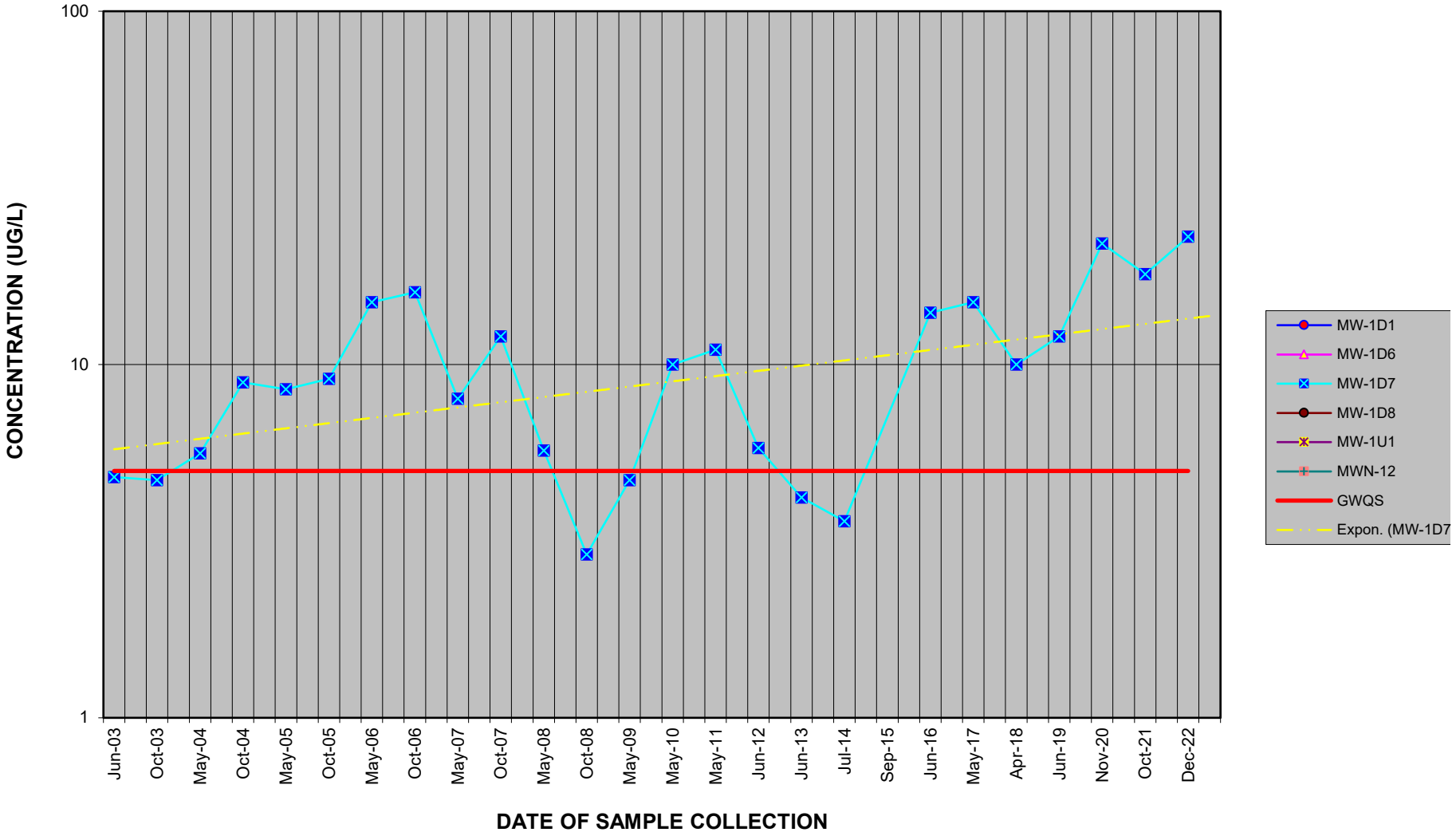
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

trans-1,2-DICHLOROETHENE

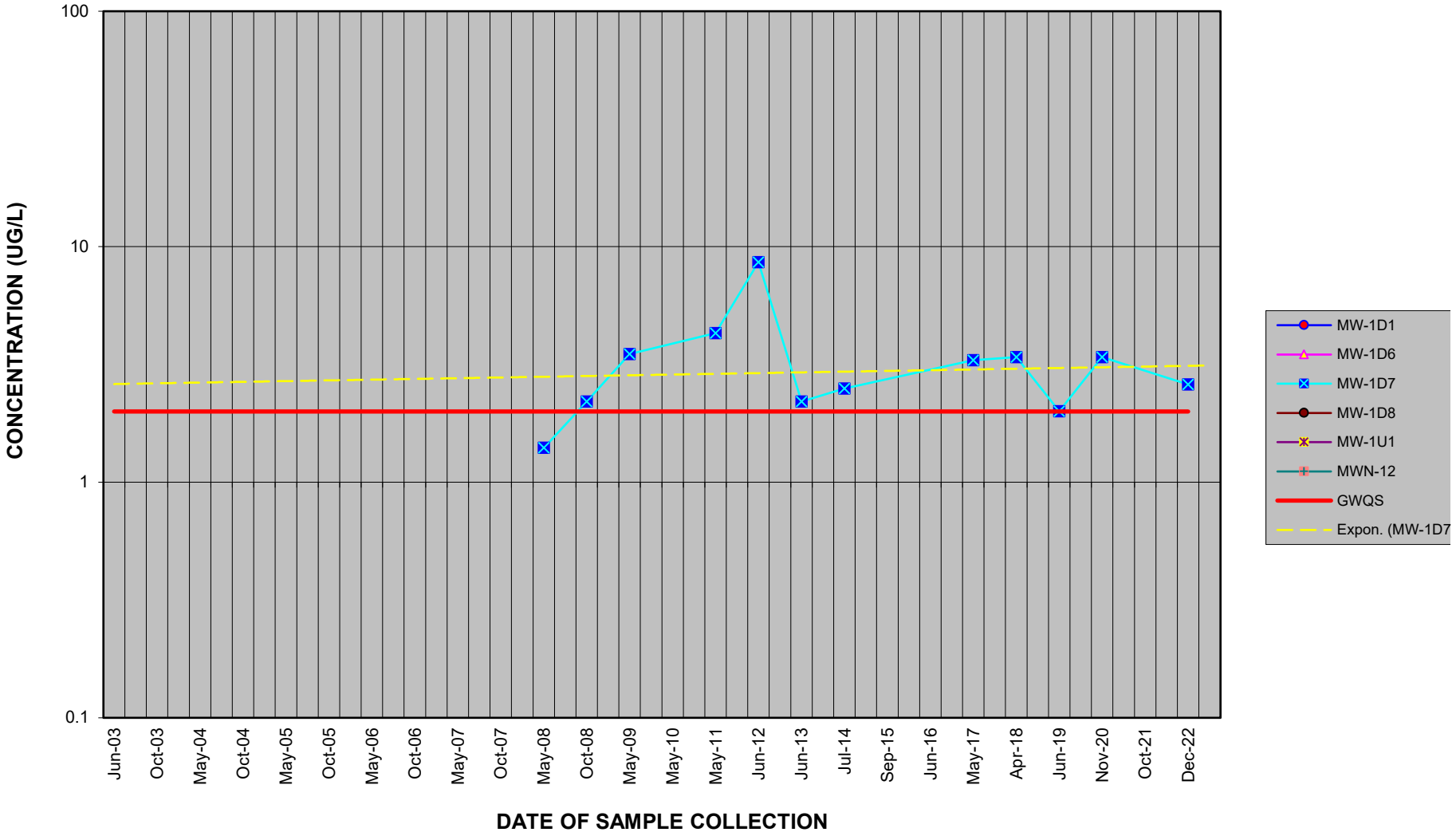
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

VINYL CHLORIDE

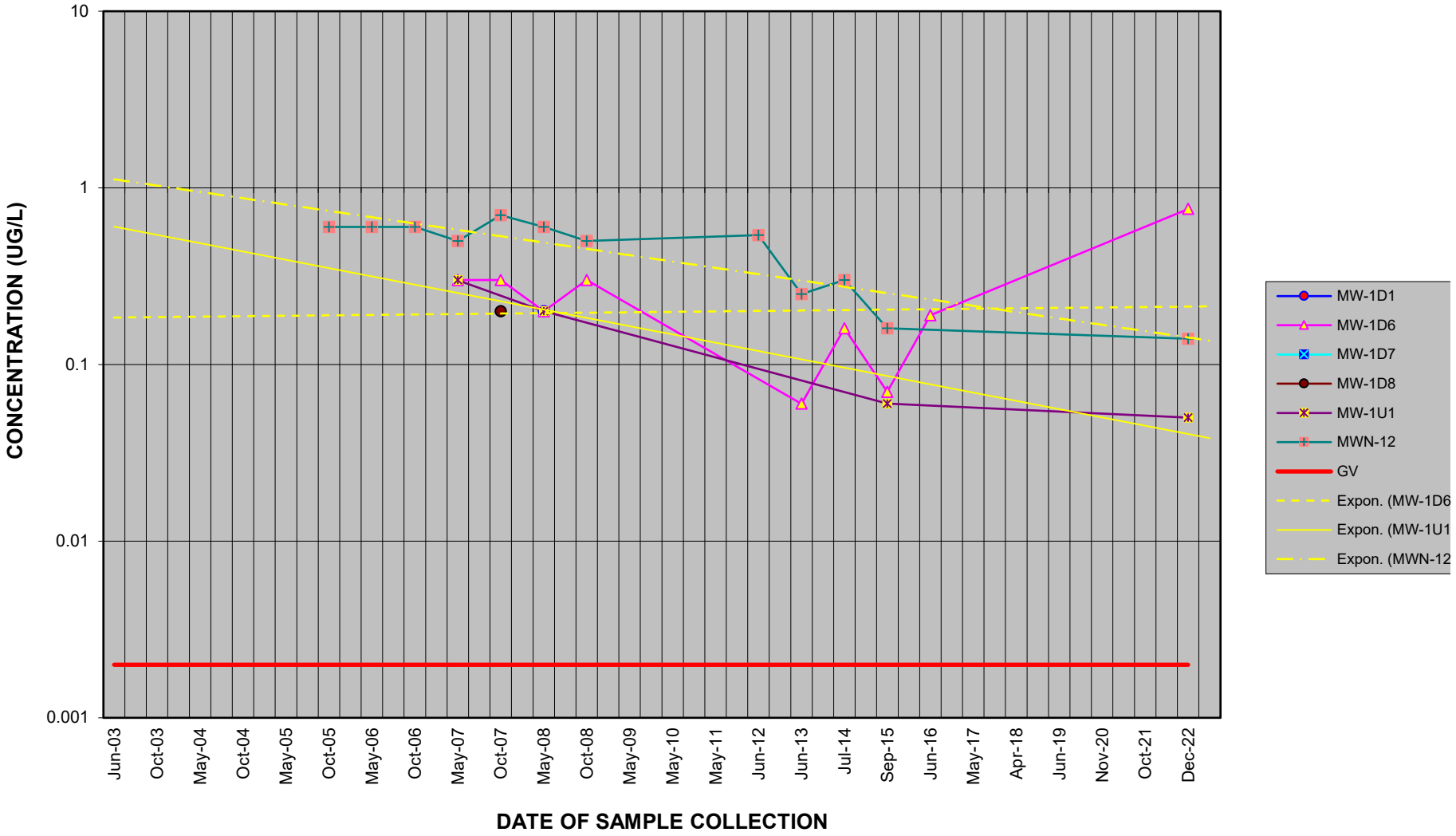
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

BENZO(A)ANTHRACENE

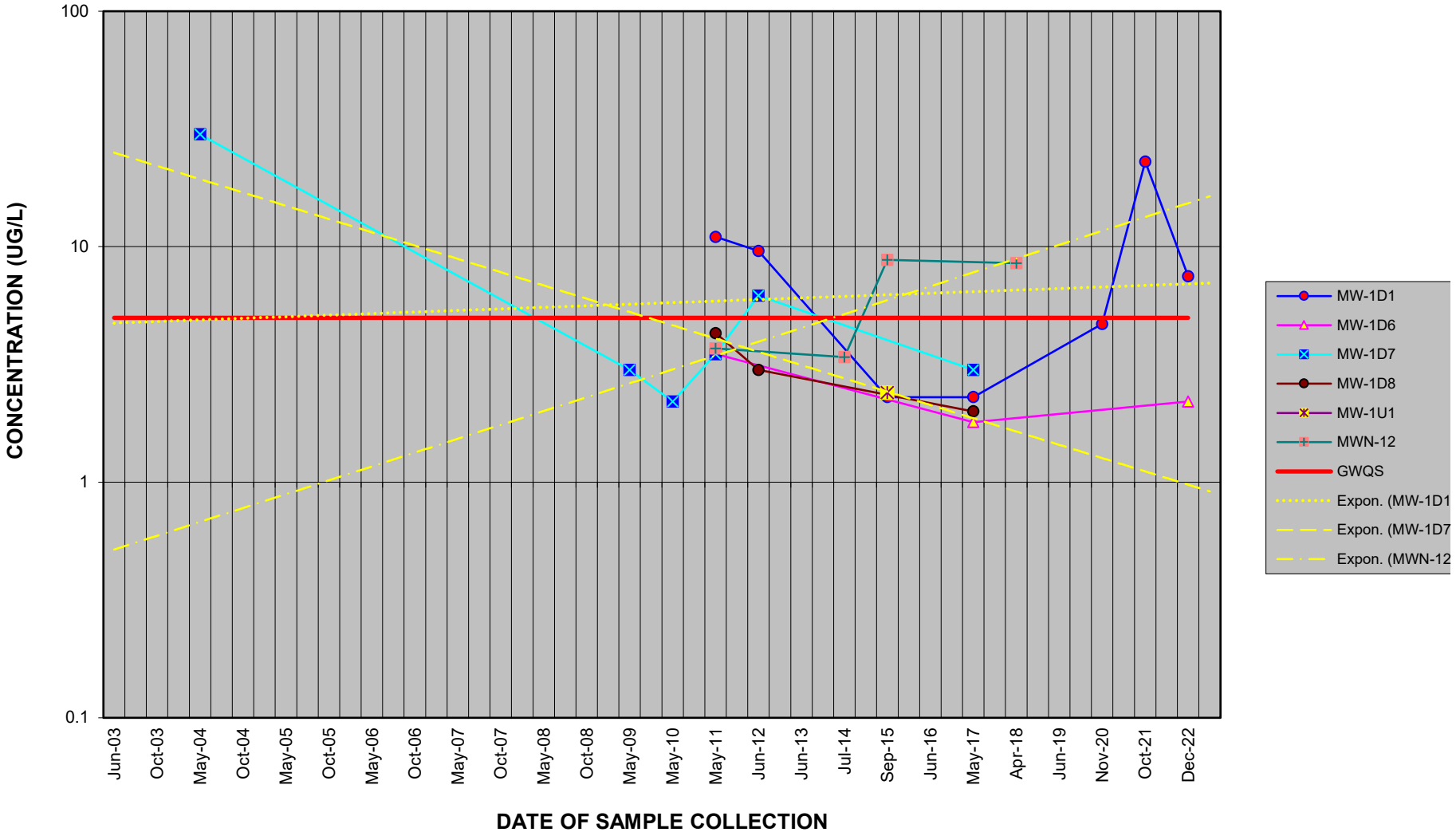
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

BIS(2-ETHYLHEXYL)PHTHALATE

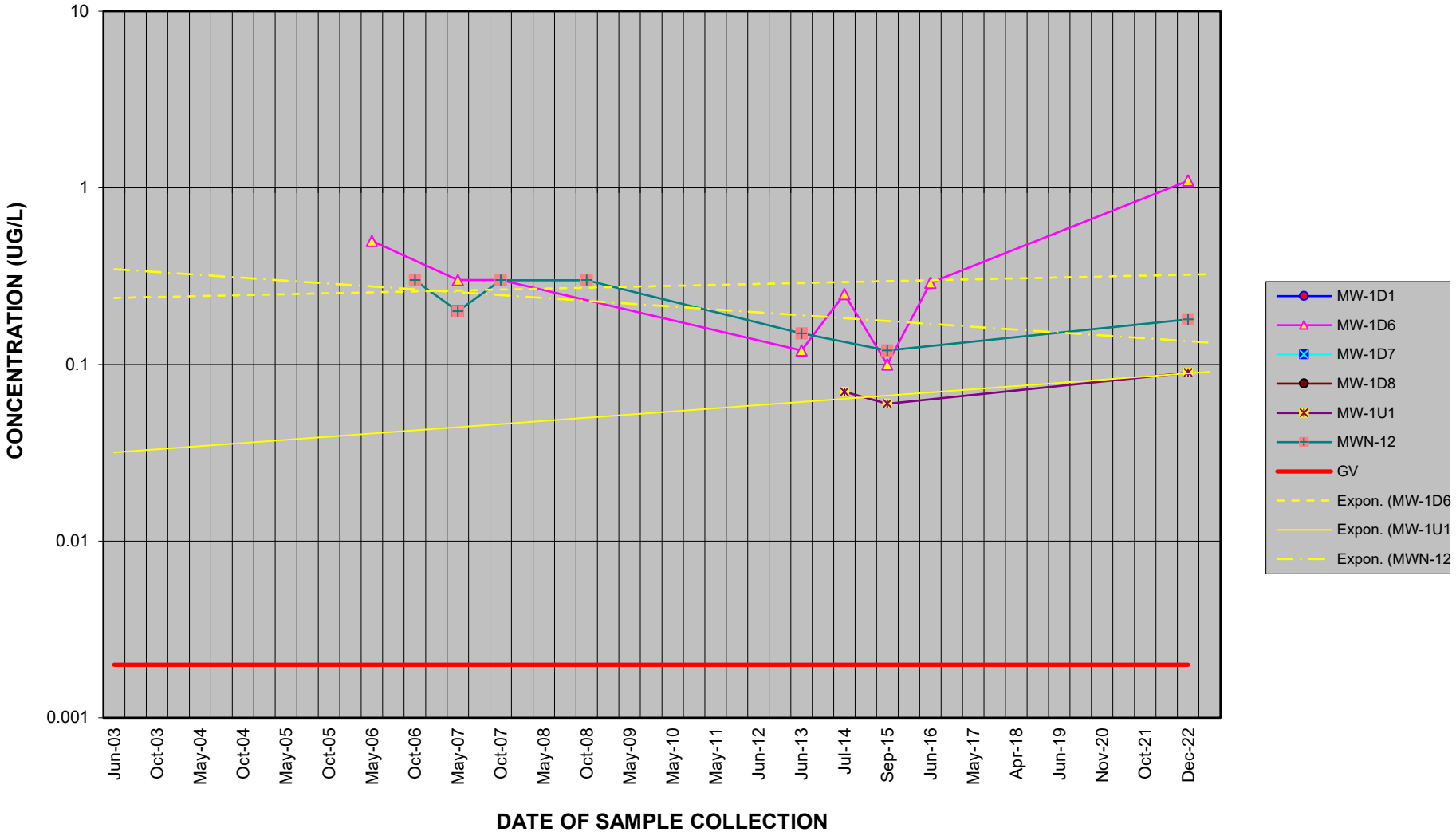
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

CHRYSENE

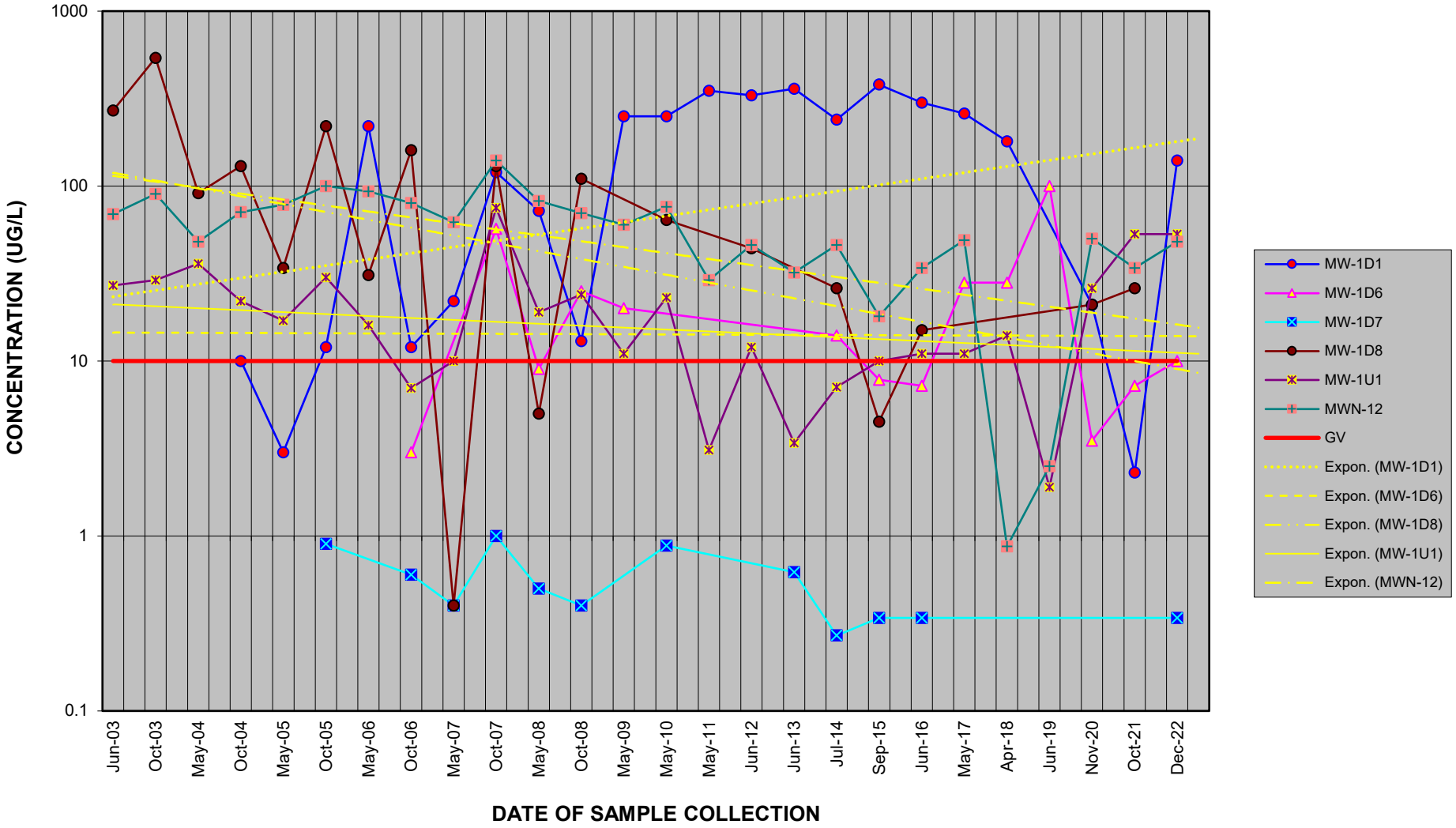
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

NAPHTHALENE

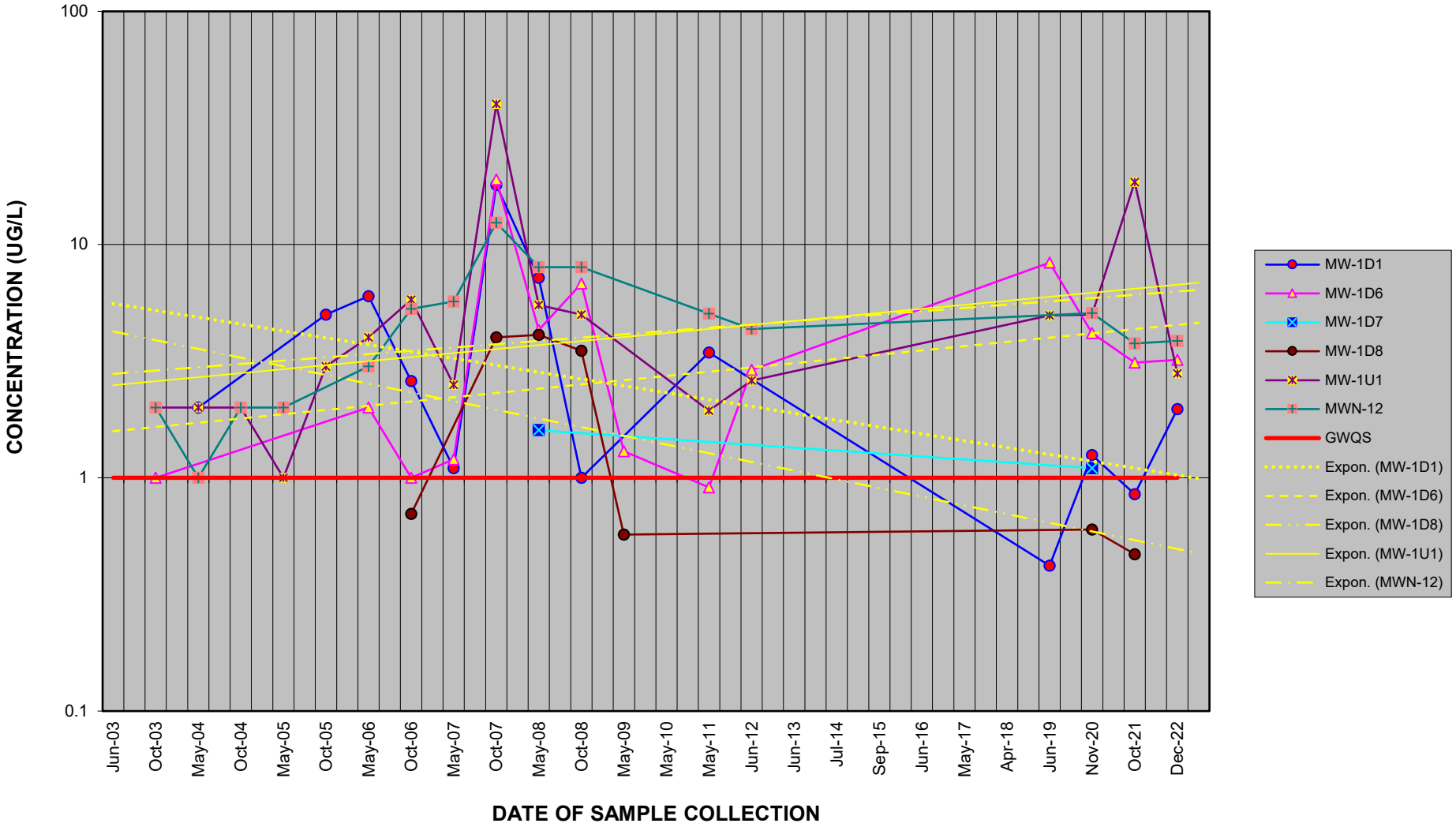
HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

SUM OF PHENOLICS COMPOUNDS

HAZARDOUS WASTE MANAGEMENT UNIT 1B
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

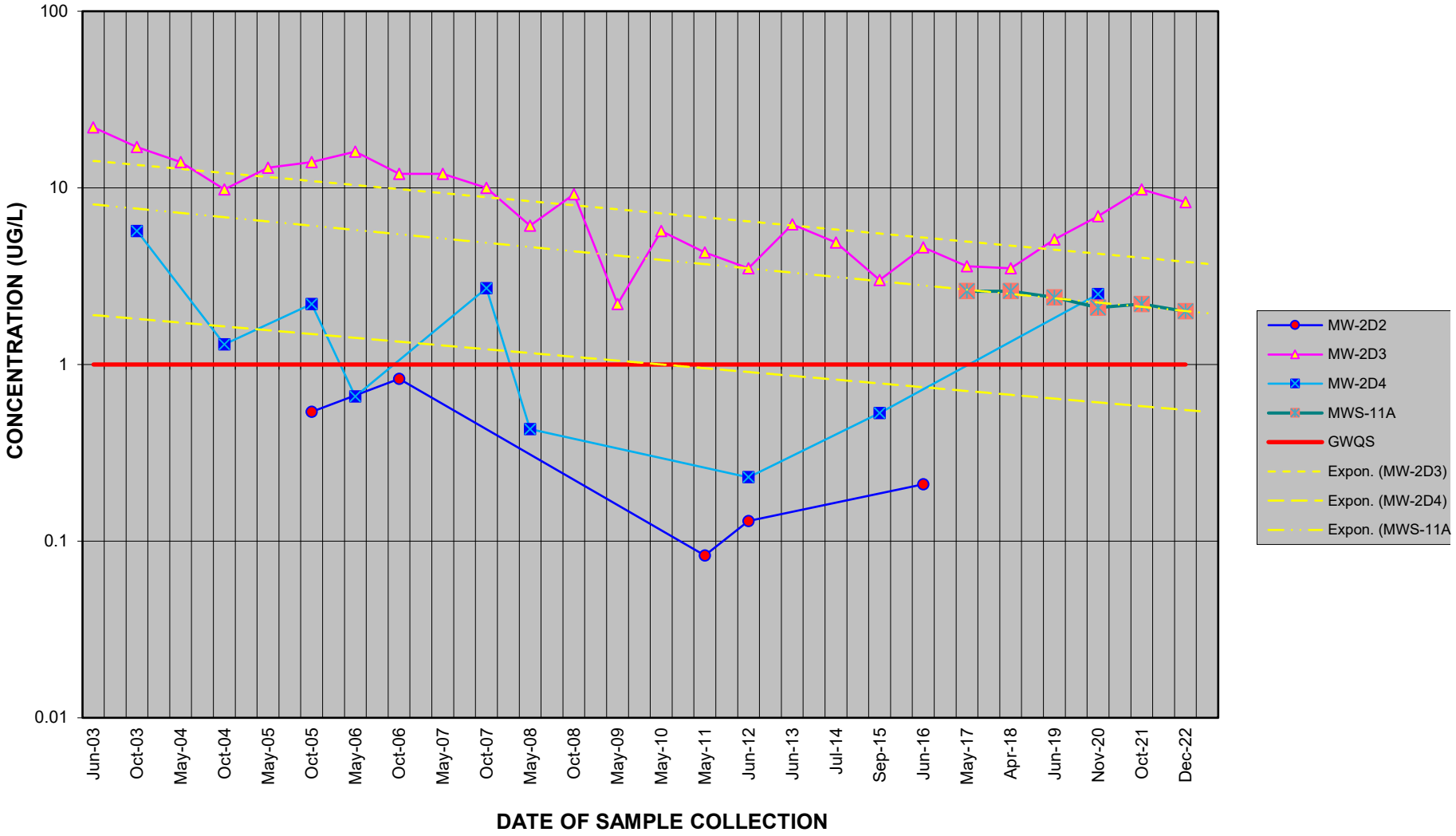
ATTACHMENT 3C

TIME-CONCENTRATION PLOTS

HWMU-2

BENZENE

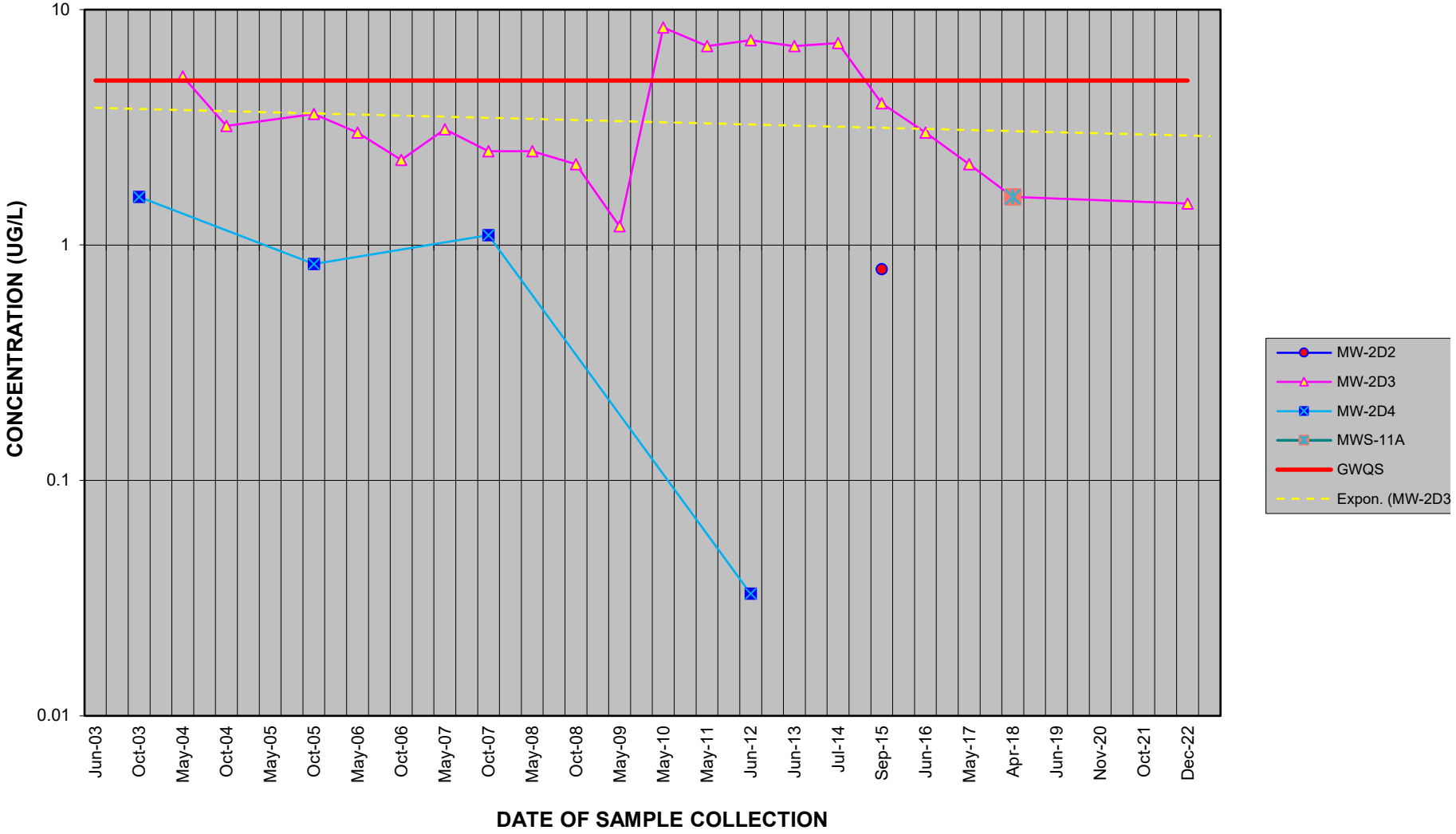
HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

ETHYLBENZENE

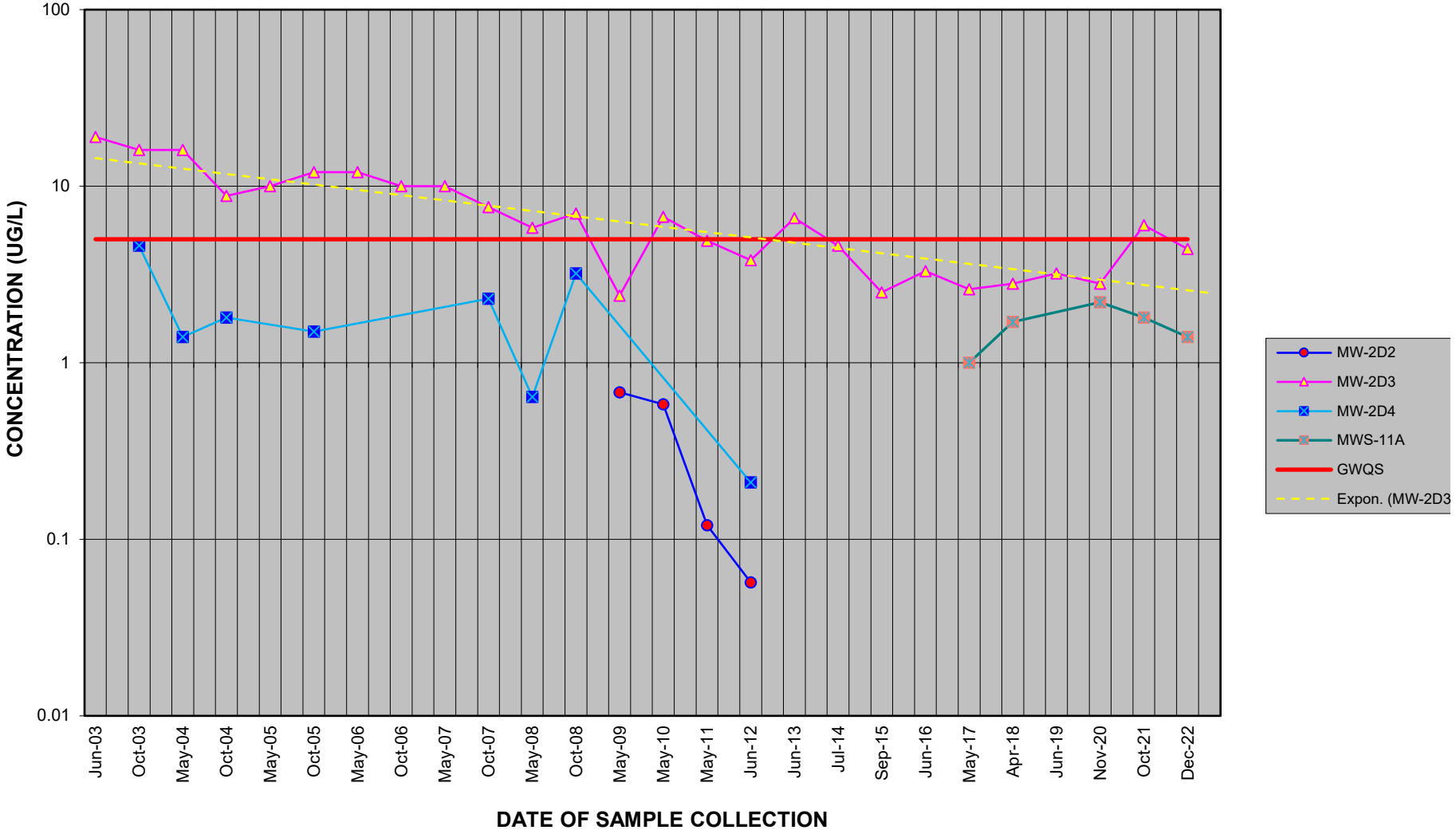
HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

TOLUENE

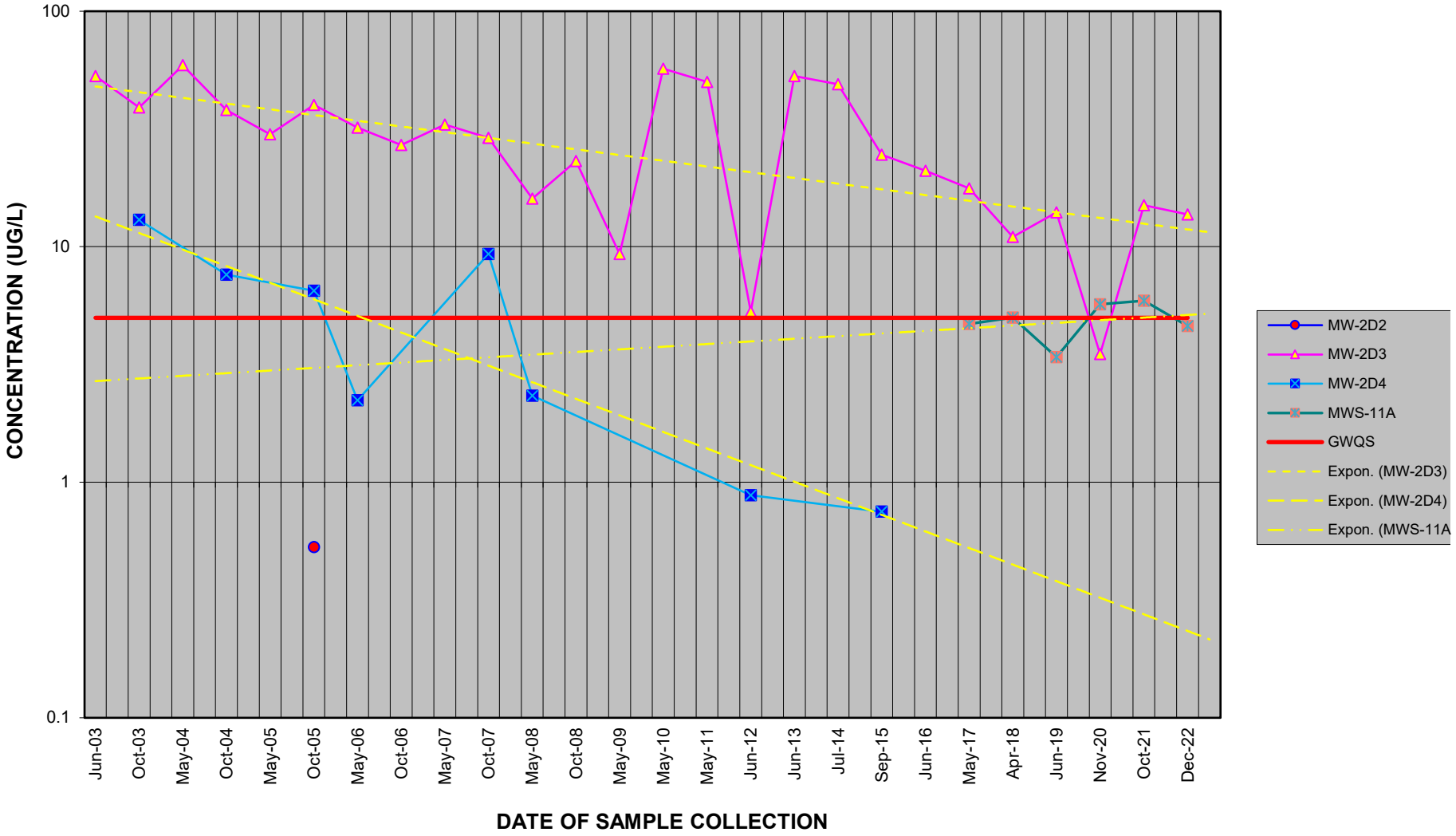
HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

TOTAL XYLENES

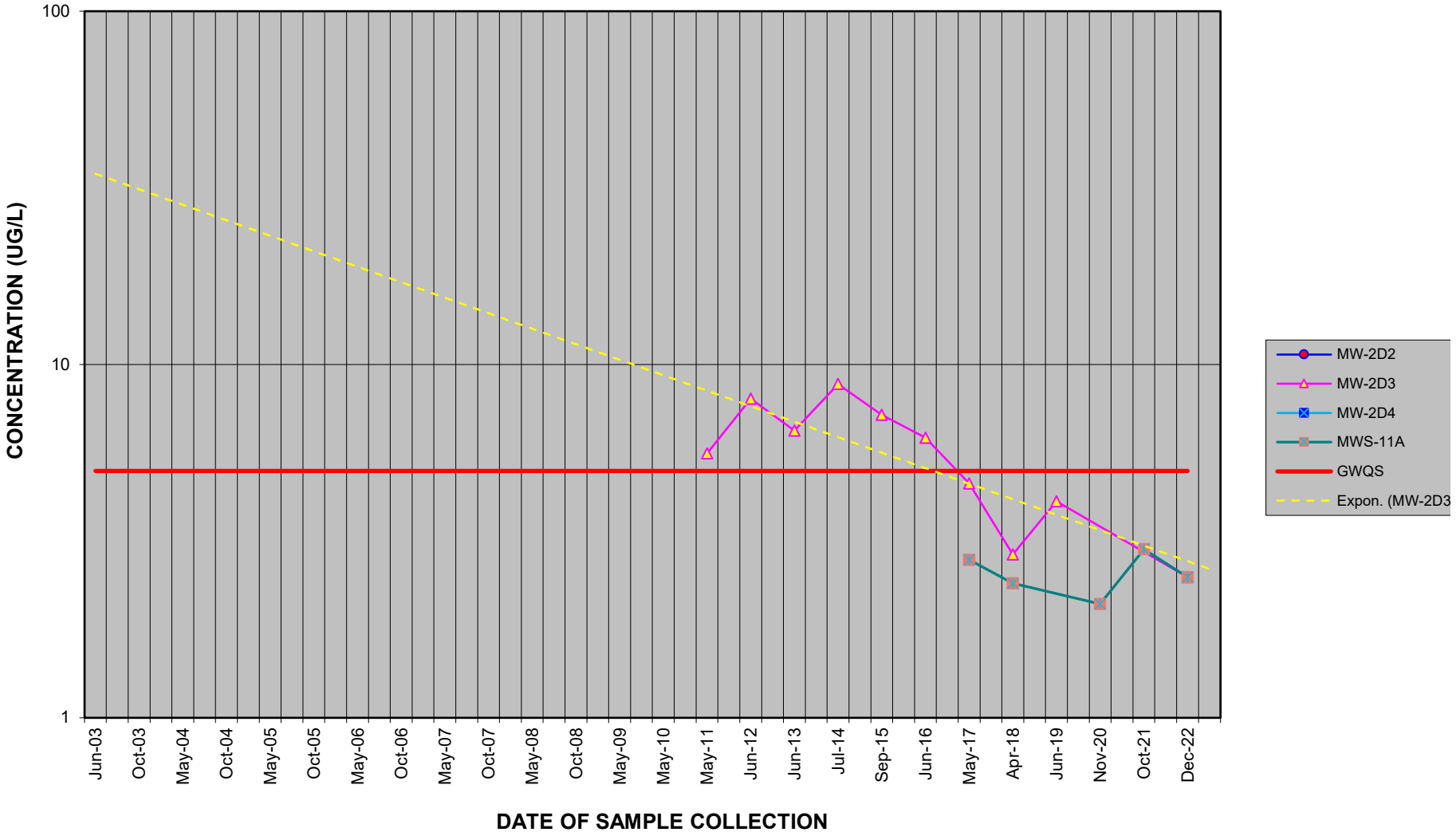
HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

1,2,4-TRIMETHYLBENZENE

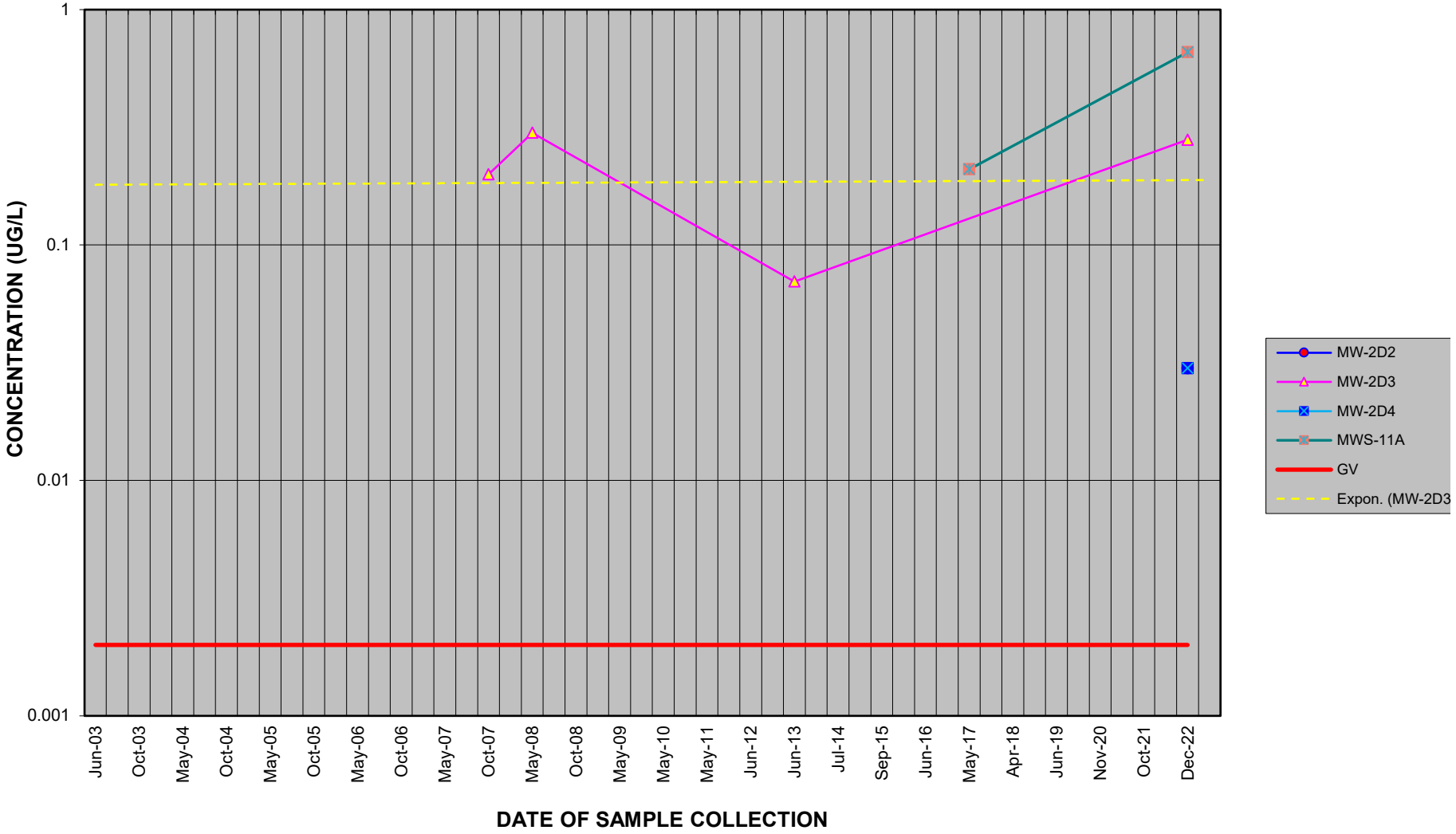
HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

CHRYSENE

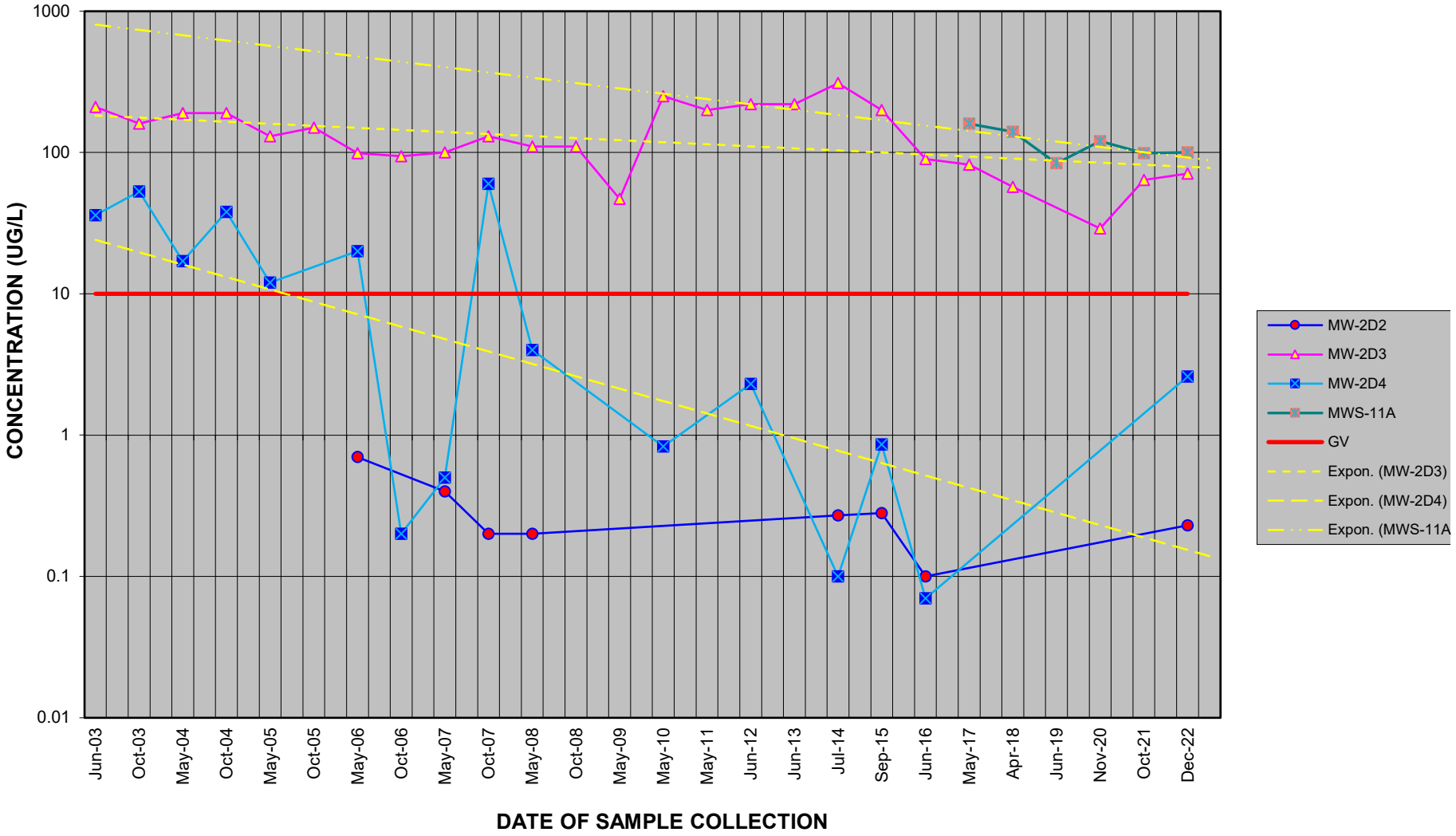
HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

NAPHTHALENE

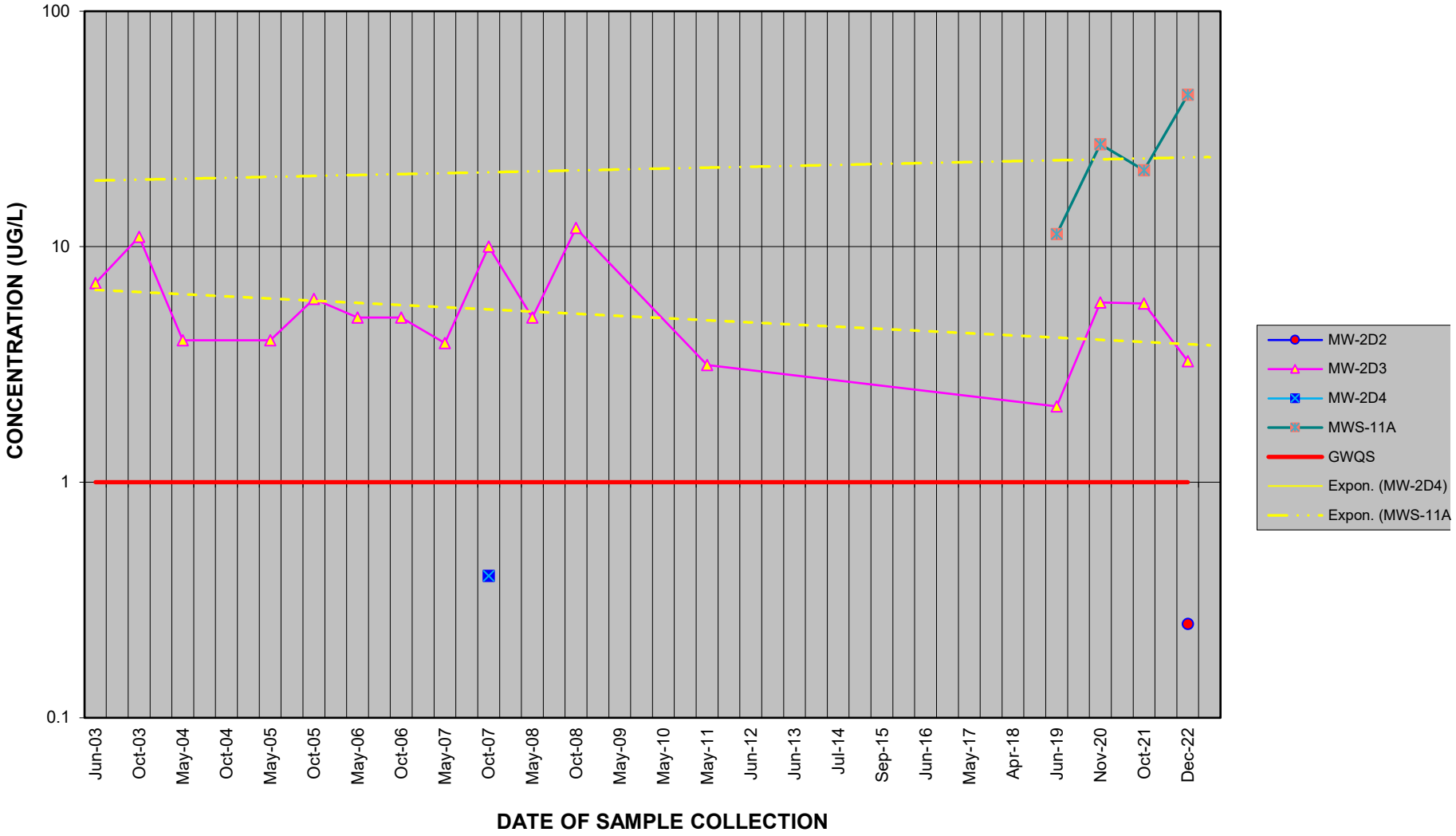
HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

SUM OF PHENOLICS COMPOUNDS

HAZARDOUS WASTE MANAGEMENT UNIT 2
HISTORICAL ANALYTICAL SUMMARY



Note: Concentrations reported below method detection limits (i.e., non-detect) are not included in the plot. Trend lines are only plotted for wells that have at least one detection greater than GWQS/GVs and have at least three points plotted.

ATTACHMENT 4

HWMU 1A COVER SYSTEM INSPECTION REPORT

Field Inspection Report
HWMU 1A

Property Name: Tecumseh Redevelopment Site	Project No.: T0071-020-240
Client: Tecumseh Redevelopment	
Property Address: HWMU 1A	Lackawanna, NY
Preparer: Paul W. Werthman	Date/Time: November 15, 2022

CERTIFICATION

The results of this inspection were discussed with the Site Manager. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Action Form has been completed. Proper implementation of these corrective actions have been discussed with the Site Manager, agreed upon, and scheduled.

Preparer / Inspector: Paul W Werthman **Date:** November 15, 2022

Signature: Paul W Werthman

Next Scheduled Inspection Date: August 2023

Property Access

1. Is the access road in need of repair?	☐ yes	☑ no	☐ N/A
2. Sufficient signage posted (No Trespassing)?	☑ yes	☐ no	☐ N/A
3. Has there been any noted or reported trespassing?	☐ yes	☑ no	☐ N/A

Please note any irregularities/ changes in site access and security:

Final Surface Cover / Vegetation

The integrity of the vegetative soil cover or other surface coverage (e.g., asphalt, concrete) over the entire Site must be maintained. The following documents the condition of the above.

1. Final Cover is in Place and in good condition?	☑ yes	☐ no	☐ N/A
Cover consists of (mainly): Vegetative Grass Cover			
2. Evidence of erosion?	☐ yes	☑ no	☐ N/A
3. Cracks visible in pavement?	☐ yes	☐ no	☑ N/A
4. Evidence of distressed vegetation/turf?	☐ yes	☑ no	☐ N/A
5. Evidence of unintended traffic and/or rutting?	☐ yes	☑ no	☐ N/A
6. Evidence of uneven settlement and/or ponding?	☐ yes	☑ no	☐ N/A
7. Damage to any surface coverage?	☐ yes	☑ no	☐ N/A

Final Surface Cover / Vegetation

If yes to questions 2 through 7 above, please provide more information below.

Gas Vent System Monitoring and Maintenance

Are there signs of stressed vegetation around gas vents? ☐ yes ☐ no ☑ N/A

Are the gas vents currently intact and operational? ☐ yes ☐ no ☑ N/A

Has regular maintenance and monitoring been documented and enclosed or referenced?
☐ yes ☐ no ☑ N/A

Groundwater Monitoring

Is there a plan in place and currently being followed? ☑ yes ☐ no ☐ N/A

Are the wells currently intact and operational? ☑ yes ☐ no ☐ N/A

When was the most recent sampling event report and submittal? Date: October 2021

When is the next projected sampling event? Date: December 2022

Property Use Changes / Site Development

Has the property usage changed, or site been redeveloped since the last inspection?
☐ yes ☑ no ☐ N/A

If yes, please list with date: _____

New Information

Has any new information been brought to the owner/engineer's attention regarding any and/or all engineering and institutional controls and their operation and effectiveness?

☐ yes ☑ no ☐ N/A

Comments:

This space for Notes and Comments

Photos taken during the inspection.

Top photo: HWMU 1A impoundment area looking east. Bottom left photo: HWMU 1A area looking southwest.

Bottom right photo: HWMU 1A area looking northeast.

Photos taken during the inspection.

Top left photo: HWMU 1A sign looking northeast. Top right photo: HWMU 1A top of cap looking northeast.

Bottom left photo: HWMU 1A top of cap looking southwest.