



# ARM Group LLC

Engineers and Scientists

April 26, 2024

Mr. Shane Rozelle, Geologist  
Oil Control Program  
Maryland Department of the Environment  
1800 Washington Boulevard, Suite 620  
Baltimore, MD 21230

Re: Site Monitoring Status Report  
MDE Case No. 2013-0321-AA  
SMO Fort Meade Shell, SMO-1550  
2631 Annapolis Road, Hanover, MD  
ARM Project No. 190292

Dear Mr. Rozelle,

This submittal has been prepared to provide your Department with an update on the groundwater monitoring and remediation efforts at the above site. This submittal includes new data and information collected through April 2024. Two monitoring wells (MW17 and MW18 to replace MW8 and MW10, respectively) were installed in September 2023 pursuant to the Department's June 30, 2023 correspondence. The monitoring well network was sampled most recently on March 21, 2024 and is gauged nearly weekly to assess for the presence and thickness of non-aqueous phase liquid (NAPL or petroleum product), and if detected is manually removed via hand bailing. After several months of monthly well gauging, a weekly gauging frequency was initiated in July 2023 upon the discovery of 0.16 feet of NAPL in MW15; NAPL was detected at 0.06 to 0.28 feet during subsequent gauging events. NAPL was detected at 0.06 feet in MW17 in October, 2023; and 0.09 to 0.88 feet during subsequent gauging events. MW17 was constructed in the general area of former MW8 that was abandoned in September 2022 prior to a UST System upgrade project at that time. No NAPL was observed in MW8 during the 9+ years of monitoring before it was abandoned; however, MW8 groundwater samples contained up to 18.37 mg/L Total VOC and 1.3 mg/L Benzene in April 2013, indicative of the potential for NAPL. NAPL was detected at 0.67 feet in MW14 in November 2023, averaging approximately 3 feet thick through December 2023, and has subsequently diminished with nearly 7 feet rise in groundwater elevation in MW14 through April 2024. The reappearance of NAPL in MW14 is most likely due to sustained historically-low groundwater elevations – over 6.5 feet drop observed from September through December 2023.

## **GROUNDWATER OCCURRENCE**

Groundwater at the site is measured in two different zones: a perched zone composed of laterally-discontinuous and seasonally (precipitation)-dependent water-bearing zone and a deeper (more regional) groundwater zone. Monitoring wells screened in the perched groundwater zone include MW1, MW4, MW12 and MW16, and former MW7 and MW11. The average depth to water in these wells (including long-term fluctuations) is about 27 feet. Monitoring wells screened in the deep groundwater zone include MW2 (typically dry), MW9, MW14, MW15, MW17 and MW18, and former MW8 and MW10. The average depth to water in these wells is about 35.5 feet. Liquid levels in MW14 have been appreciably higher (shallower) than the other deep wells but substantially lower than the shallower wells. As such, it is assumed that the liquid levels in MW14 (and similarly in former wells MW8 and MW10) are affected by shallower perched layers transmitting groundwater and NAPL and are also affected by groundwater in the deeper saturated soils that MW9, MW15, MW17 and MW18 are also screened in.

Immediately south of the site is a temporal drainage ditch that flows westerly and is a tributary to the southern-flowing Midway Branch that parallels Rockenbach Road located south of the site, and ultimately passes through Fort George G. Meade. The elevation of this drainage ditch is consistent with the elevation of the perched groundwater zone, and several feet higher than the deeper groundwater zone. Groundwater

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flow in the perched groundwater zone is to the west/southwest, consistent with the flow of the temporal stream. Groundwater flow in the deeper zone had consistently been to the east/southeast with the lowest groundwater elevations observed in MW9 and MW18.

### **NAPL OCCURRENCE**

NAPL first appeared in MW7 in November 2013 with thicknesses up to 2.93 feet (averaging 1.11 feet) detected through April 2014. Beginning in April 2014, water levels in MW7 began to rise up to 4 feet higher than when NAPL was present. No NAPL was observed in MW7 from April 2014 until it was destroyed/abandoned in September 2022. For the two years prior to its removal, MW7 groundwater samples contained an average of 1.3 µg/L Benzene, 3 µg/L Total BTEX and 35 µg/L Total VOC, not indicative of a nearby NAPL source.

NAPL first appeared in MW9 shortly after it was constructed in April 2013 and continued to be detected at thicknesses up to 0.13 feet through December 2013. NAPL reappeared in June 2016 and was detected at thicknesses up to 0.11 feet (averaging 0.05 feet) through March 2017. NAPL has not been detected in MW9 since then. For the past two years, MW9 groundwater samples have contained an average of 4.3 µg/L Benzene, 51 µg/L Total BTEX and 142 µg/L Total VOC (not including TMBs), not indicative of a nearby NAPL source.

NAPL was detected in MW14 at thicknesses up to 2.9 feet from November 2013 to April 2014. Groundwater levels were higher starting in April 2014, and NAPL detections were sporadic through June 2014. Per MDE direction, MW14 was deepened in June 2014 from 30.3 to 43.6 feet bgs, and a sudden drop in water elevations (i.e., 9 feet lower) occurred through the remainder of 2014. NAPL reappeared in October 2014 and was sporadically detected at thicknesses up to 0.84 feet (averaging 0.18 feet) into February 2015. No NAPL was observed in MW14 from March 2015 into April 2022. From December 2015 to November 2020, groundwater elevations in MW14 rose about 10 feet. From November 2020 to April 2022, groundwater elevations in MW14 fell about 4.75 feet and NAPL reappeared. A vacuum truck Enhanced Fluid Recovery (EFR) event in May 2022 combined with quickly rising groundwater elevations between April and May 2022 resulted in the disappearance of NAPL until November 2023 when NAPL reappeared at a thickness of 0.67 feet due to rapidly falling groundwater elevations. MW14 was last sampled in September 2023 and contained 9.5 µg/L Benzene, 1176 µg/L BTEX and 1781 µg/L Total VOC including 218 µg/L Naphthalene, and no detectable MTBE. Based on the VOC analyte distribution of the September 2023 groundwater sample and field observations of color and odor, the NAPL in MW14 appears to be a very old gasoline product, with much of the Benzene removed.

NAPL appeared in MW15 in July 2023 with thicknesses up to 0.28 feet, and averaging 0.16 feet through April 2024. MW15 was last sampled in May 2023 and contained 592 µg/L Benzene, 4825 µg/L BTEX, and 5900 µg/L Total VOC including 244 µg/L Naphthalene, and 2.6 µg/L MTBE. Based on the VOC analyte distribution of the May 2023 groundwater sample and field observations of color and odor, the NAPL in MW15 appears to be an older gasoline product.

NAPL appeared in MW17 in October 2023 with thicknesses up to 0.88 feet, and averaging 0.32 feet through April 2024. MW17 has only been sampled once (September 2023) and contained 28 µg/L Benzene, 686 µg/L BTEX and 866 µg/L Total VOC including 121 µg/L Naphthalene and 0.6 µg/L MTBE. Based on the VOC analyte distribution of the September 2023 groundwater sample and field observations of color and odor, the NAPL in MW17 appears to be an older gasoline product.

Any NAPL encountered is manually removed by hand bailing and is stored in a properly-labeled and vented 55-gallon drum staged onsite.



## **SUMMARY OF GROUNDWATER, NAPL AND PETROLEUM CONCENTRATIONS**

**Appendix A** provides time-series graphs with groundwater elevations, NAPL thicknesses and dissolved-phase petroleum hydrocarbon (Total BTEX, Total VOC, etc.) concentrations for MW2, MW4, MW7, MW8, MW9, MW10, MW14, MW15 and MW17.

Groundwater gauging and sampling data is included in **Appendix B**.

**Appendix C** provides a site map with March 2024 contoured groundwater elevations and BTEX and MTBE concentrations.

**Appendix D** includes a copy of the March 2024 groundwater sample laboratory report of analyses.

Review of the graphs and data presented in **Appendix B** shows that:

1. MW7 (destroyed/abandoned in September 2022 during tankfield enlargement activities)
  - a. MW7 NAPL occurrence was dependent on groundwater elevation (present during low groundwater elevations, absent during periods with higher groundwater elevations).
  - b. NAPL was not detected after April 2014.
  - c. MW7 concentrations decreased significantly, and by early-2019 were not representative of a submerged/entrapped NAPL source in the area of MW7.
  - d. For the two years before MW7 removal, Benzene, Total BTEX and Total VOC concentrations averaged 3.9 µg/L, 5.63 µg/L and 22.15 µg/L, respectively, not including an average of 35.23 µg/L TMBs.
2. MW9
  - a. MW9 NAPL occurrence was dependent on groundwater elevation (historically appearing during low groundwater elevations, absent during periods with higher groundwater elevations).
  - b. NAPL has not been detected in MW9 since March 2017.
  - c. Current MW9 groundwater elevations are similar to the elevations when NAPL was last detected.
  - d. MW9 concentrations are dependent on groundwater elevation fluctuations (higher concentrations with shallower groundwater and lower concentrations with deeper groundwater). Total VOC concentrations in MW9 have decreased about two orders of magnitude since monitoring began; Benzene has decreased three orders of magnitude. Ethylbenzene and Xylenes concentrations disproportionately increased during the September and December 2023 sampling events to about 115 µg/L and 50 µg/L, respectively, but decreased to 0.8 µg/L and <3 µg/L, respectively, during the March 2024 sampling event. The average Benzene, Total BTEX and Total VOC concentrations for the past two years are 4.3 µg/L, 51 µg/L and 142 µg/L, respectively, not including an average of 6.3 µg/L TMBs (non-detectable concentrations in February 2023).
3. MW14
  - a. MW14 NAPL occurrence is dependent on groundwater elevation.
  - b. MW14 groundwater elevations have fluctuated within a range of over 10 feet.
  - c. NAPL was not detected from the May 2022 EFR event until November 2023 when rapidly falling groundwater elevations resulted in previously submerged/hydrostatically bound NAPL to enter the well.
  - d. MW14 contained 0.06 feet of NAPL during the March 2024 groundwater sampling event and was not sampled. MW14 was last sampled in September 2023 and contained 9.5 µg/L Benzene, 1176 µg/L BTEX and 1781 µg/L Total VOC including 218 µg/L Naphthalene, and no detectable MTBE.
4. MW15
  - a. NAPL was first detected in July 2023 coincident with very low groundwater elevations, and thicknesses have averaged 0.16 through April 2024.
  - b. Groundwater samples collected during the year before NAPL appeared in July 2023 contained an average of 362 µg/L Benzene, 2310 µg/L Total BTEX and 2555 µg/L Total VOC, not including an average of 560 µg/L TMBs.
  - c. Xylenes represent approximately 45% of the Total BTEX concentration, and 40% of the Total VOC concentration (not including TMBs).



## 5. MW17

- a. NAPL was first detected in October 2023 coincident with very low groundwater elevations, and thicknesses have averaged 0.32 feet since that time.
- b. MW17 was sampled in September 2023 and contained 28 µg/L Benzene, 686 µg/L Total BTEX and 866 µg/L Total VOC.
- c. Ethylbenzene and Xylenes represent approximately 95% of the Total BTEX concentration, and 76% of the Total VOC concentration.

## **SHALLOW GROUNDWATER ZONE WATER TESTING RESULTS**

For the past ten years, MW1, MW4, MW12 and MW16 have contained very low to no detectable VOC concentrations. The other two monitoring wells screened within the shallow water-bearing zone were former MW7 (discussed above, now destroyed) and to a lesser extent MW14 (also discussed above).

- MW1 is located in the upgradient/northeast portion of the site.
- MW4 is located hydraulically downgradient and south of the tankfield.
- MW12 is located in the downgradient/southwest area of the Site. The August 2020 and July 2021 groundwater sample testing data reported detectable VOCs contrary to a long history of low to no VOC concentrations. It is believed that the August 2020 and July 2021 results for MW12 are erroneous and a result of sampling error because of incomplete decontamination of sampling equipment between wells.
- MW16 is located proximate to the location where a former Stage-II vapor return line was damaged on the north side of the dispenser islands. Groundwater samples collected from MW16 have not contained detectable Benzene concentrations since late-2015 (e.g., over 8 years). During the two years leading into March 2024, Total VOC concentrations averaged about 24.2 µg/L, much of which is either Methyl Ethyl Ketone (MEK) and/or 1,1,2-Trichloroethane (112-TCA).

## **DEEP GROUNDWATER ZONE WATER TESTING RESULTS**

The deeper groundwater zone is represented by the groundwater levels in MW2, former MW8 and MW10, MW9, MW15, MW17 and MW18.

- More often than not, MW2 (located near MW9 near the southeast edge of the property along Annapolis Road) does not contain enough groundwater to be sampled. MW2 was constructed before December 2012 when current monitoring activities began. Groundwater samples were collected from MW2 in June and September 2014 (when groundwater elevations were higher) and contained average concentrations of 210 µg/L Benzene, 3450 µg/L Total BTEX and 4400 µg/L Total VOC. A groundwater sample was collected from MW2 in September 2015 that contained 240 µg/L Benzene, 720 µg/L Total BTEX and 1150 µg/L Total VOC. The most recent groundwater samples were collected from MW2 in March and June 2019 and contained about 250 µg/L Benzene, 1000 µg/L Total BTEX and 1222 µg/L Total VOC.
- Like MW14, former MW8 was replaced with a deeper monitoring well in June 2014 per MDE direction (from about 34 feet-deep to 43.5 feet-deep). Before the monitoring well was redrilled (e.g., when it was shallower), it contained only a few inches of groundwater with the groundwater samples containing about 1400 µg/L Benzene and 13.5 mg/L Total VOC. Soon after the well was replaced with a deeper screen interval, groundwater samples contained about 15 µg/L Benzene and 570 µg/L Total VOC. Groundwater elevations in MW8 appeared to be influenced by a combination of shallow zone drainage and the deeper zone groundwater. Beginning with a significant drop between October 2021 and April 2022, the groundwater elevations in MW8 appeared to be more coincident with deeper zone wells. For the most recent three-year period before its removal, groundwater samples contained average concentrations of 3 µg/L Benzene, 254 µg/L Total BTEX and 388 µg/L Total VOC, not including 65 to 720 µg/L TMBs. The April and July 2022 groundwater samples contained average concentrations of 1.4 µg/L Benzene, 65 µg/L Total BTEX and 190 µg/L Total VOC, not including about 65 to 200 µg/L TMBs. MW8 was abandoned on September 20, 2022 and is no longer available for monitoring.



- NAPL was observed in MW9 at thicknesses up to 0.13 feet from the time it was constructed in April 2013 through December 2013. As groundwater elevations rose, NAPL disappeared and was not detected again until mid-2016. NAPL reappeared when groundwater elevations were lower from July 2016 through March 2017 with thicknesses up to 0.11 feet. Starting in March 2017, groundwater elevations began to rise and NAPL was no longer detected. Groundwater elevations approached historical lows by early-2018 without the reappearance of NAPL, followed by periods with fluctuating groundwater levels. NAPL did not reappear during the eight months of 2023 when groundwater elevations in MW9 were about the same as when NAPL was observed in mid-2016. The average Benzene, Total BTEX and Total VOC concentrations for the past two years are 4.3 µg/L, 51 µg/L and 142 µg/L, respectively. These low concentrations are not indicative of a submerged or entrapped NAPL mass.
- Significant groundwater elevation drops of over 10 feet and over 6 feet occurred in MW10 and MW15, respectively, between April 2021 and April 2022. Consequently, the groundwater elevations in some of the “deeper” monitoring wells may be partly a function of perched groundwater draining downward within the screened/gravel pack interval of the wells, and affecting measured depths to groundwater, as well as contributing to the resulting VOC concentrations of samples collected from the “mixed” groundwaters.
- During the two years before abandonment, MW10 groundwater samples contained average concentrations of 57.2 µg/L Benzene, 427 µg/L Total BTEX and 562 µg/L Total VOC, not including an average of 540 µg/L TMBs. MW10 was abandoned September 20, 2022 and is no longer available for monitoring.
- NAPL appeared in MW15 in July 2023 with thicknesses up to 0.28 feet, and averaging 0.16 feet through April 2024. MW15 was last sampled in May 2023 and contained 592 µg/L Benzene, 4825 µg/L BTEX, and 5900 µg/L Total VOC including 244 µg/L Naphthalene, and 2.6 µg/L MTBE. Based on the VOC analyte distribution of the May 2023 groundwater sample and field observations of color and odor, the NAPL in MW15 appears to be an older gasoline product.
- NAPL appeared in MW17 in October 2023 with thicknesses up to 0.88 feet, and averaging 0.32 feet, have been detected since then. MW17 has only been sampled once in September 2023 and contained 28 µg/L Benzene, 686 µg/L BTEX and 866 µg/L Total VOC including 121 µg/L Naphthalene and 0.6 µg/L MTBE. Based on the VOC analyte distribution of the September 2023 groundwater sample and field observations of color and odor, the NAPL in MW17 appears to be an older gasoline product.
- MW18 was first sampled in September 2023, and contained 18 µg/L Benzene, 200 µg/L Total BTEX and 341 µg/L Total VOC. The December 2023 sample contained 12.4 µg/L Benzene, 244 µg/L Total BTEX and 541 µg/L Total VOC. The March 2024 sample contained 8.1 µg/L Benzene (non-detect for TEX analytes) and 62 µg/L Total VOC.

## **SUPPLY WELL TESTING**

Supply well samples collected in December 2019 (one from the bathroom sink and a second from an outside garden hose spigot) contained Toluene (8.7 µg/L in the spigot sample and 10.7 µg/L in the bathroom sink sample), Acetone (1.9 and 2.8 µg/L) and Methylene Chloride (0.85 and 1.1 µg/L), which the latter was also measured in the QA/QC Trip Blank. Subsequent testing of the potable water supply showed periodic detections for Acetone and Methylene Chloride, both of which are likely laboratory artifacts (i.e., also detected in trip or method blanks). The most recent sample was collected in March 2024 and did not contain detectable VOC concentrations. Per MDE direction, the supply well supply will be sampled on an annual frequency (during the first quarter) until further notice.



## **ACETONE & MEK DETECTIONS**

Noted above are the detections of Acetone and MEK (2-Butanone) in groundwater samples. The presence of both Acetone and MEK can be caused by laboratory artifact. However, review of the laboratory QA/QC shows these compounds were not identified out of standards in control samples. Studies have shown that Acetone and MEK can be produced biologically during the chemical breakdown of 2-butonal (*Acetone and 2-Butanone Creation Associated with Biological and Chemical Remediation of Environmental Contamination; Fowler, Thompson and Muller; Remediation; Wiley Periodicals; Winter 2011, p. 9-28*).

## **OXYGENATE CONCENTRATIONS**

Groundwater samples are analyzed for the following oxygenate analytes: tert-Amyl methyl ether (TAME), tert-Butyl Alcohol (TBA), Diethyl ethyl (Ethyl Ether), Ethyl-tert-butyl ether (ETBE), Methyl-tert-butyl ether (MTBE), and Ethanol (on occasion). A summary of oxygenate testing results reported for groundwater samples collected since late-2019 is presented in **Appendix E**.

- TAME
  - Shallow Monitoring Wells: MW7 (detected once in August 2020 at 2.2 µg/L)
  - Deep Monitoring Wells:
    - MW8 (detected once in February 2021 at 0.43 µg/L),
    - MW9 (detected up to 8.4 µg/L per February 2021; near/below reporting limits since April 2021),
    - MW10 (consistently detected with average of 3.3 µg/L),
    - MW14 (invariably detected below reporting limits),
    - MW15 (consistently detected with average of 7.2 µg/L).
    - MW18 (detected in September 2023 at 8 µg/L and March 2024 at 1.7 µg/L).
- TBA
  - Shallow Monitoring Wells: invariably detected
  - Deep Monitoring Wells:
    - MW8 (concentrations increased October 2021 to July 2022),
    - MW9 (consistently detected with average of 83.2 µg/L)
    - MW10 (usually detected with average of 11.9 µg/L),
    - MW14 (rarely detected, concentrations always below 10 µg/L),
    - MW15 (consistently detected with average of 33 µg/L).
    - MW18 (consistently detected with average of 59 µg/L).
- MTBE has routinely been included in historical sampling events and had been detected up to 630 µg/L (MW9 in February 2014).
  - Shallow Monitoring Wells: MTBE in shallow zone wells was invariably detected in MW7 at concentrations up to 2.7 µg/L in August 2020 but below reporting limits until it was destroyed in September 2022.
  - Deep Monitoring Wells:
    - MW8 – detections below reporting limits in early-2020 (well abandoned),
    - MW9 – the last time MTBE was detected above 20 µg/L in deeper wells was February 2021; MW9 contained 30.1 µg/L; concentrations had declined to less than 2 µg/L during the period of November 2022 through September 2023 with 6.5 µg/L reported for the December 2023 sample and 26 µg/L reported for the March 2024 sample,
    - MW10 – averaged less than 3 µg/L over the past four years before being abandoned,
    - MW14 – detections below reporting limits in early-2020,
    - MW15 – averaged 4.9 µg/L from September 2019 to May 2023,
    - MW17 – detection below reporting limit in September 2023,
    - MW18 – 15.8 µg/L September 2023, 11.6 µg/L December 2023, and 4.7 µg/L March 2024.



- Ethanol has been detected invariably in one monitoring well, MW15 (September 2019 and July 2021), and below detection limits in all other wells.
- 124-TMB and 135-TMB were not included in testing protocols before March 2020, but were included in the three remaining 2020 sampling events, three 2022 sampling events, and two 2023 sampling events.
  - Shallow Monitoring Wells: only MW7 with TMB concentrations: 2020 average 62 µg/L; 2022 average 43 µg/L.
  - Deep Monitoring Wells:
    - MW8: averaged >565 µg/L in 2020, 133 µg/L in 2022,
    - MW9: averaged 108 µg/L in 2020, 6.3 µg/L in 2022-2023
    - MW10: averaged >355 µg/L in 2020, large variation in 2022
    - MW14: averaged 572 µg/L 2020, large variation in 2022-2023; decreasing trend 2022-2023,
    - MW15: averaged 763 µg/L 2020, and 561 µg/L 2022-2023 with large variation

### **STATISTICAL REVIEW OF VOC CONCENTRATIONS**

Historical reports for this project have included hydrographs and concentration vs. time graphs for select wells that regularly contained detectable dissolved petroleum concentrations. Concentration vs. time graphs provide a useful method for assessing concentration trends and simultaneous review of dependency on groundwater elevation fluctuations. Per direction of the MDE, Mann-Kendall analysis is performed for each well normally containing more than non-detect concentrations. A copy of the Mann-Kendall tables is included in **Appendix F**, and a summary is presented in **Table 2** below.

Well	VOC Concentrations				Benzene Concentrations			
	Coefficient of Variation	MK Statistic	Confidence Factor	Concentration Trend	Coefficient of Variation	MK Statistic	Confidence Factor	Concentration Trend
MW2	0.86	0	37.5%	STABLE	0.13	-1	50.0%	STABLE
MW4	1.14	-45	71.7%	NO TREND	0.46	-28	63.7%	STABLE
MW7	1.58	-180	>99.9%	DECREASING	3.62	-58	82.1%	NO TREND
MW8	0.66	-70	85.6%	STABLE	1.51	-116	96.3%	DECREASING
MW9	2.06	-288	>99.9%	DECREASING	1.40	-294	>99.9%	DECREASING
MW10	1.18	-168	99.6%	DECREASING	1.35	-170	99.6%	DECREASING
MW14 (04/2015 to 3Q23)	2.01	-148	97.8%	DECREASING	1.55	-268	>99.9%	DECREASING
MW15 (06/2014 to 2Q23)	0.89	70	82.5%	NO TREND	0.85	66	80.1	NO TREND
MW15 (12/2019 to 2Q23)	0.83	-29	93.7%	PROBABLY DECREASING	0.63	-27	92.1%	PROBABLY DECREASING
MW16	3.80	60	77.0%	NO TREND	1.18	-89	85.5%	NO TREND

### **REVIEW OF SEVEN RISK FACTORS**

1. Historically, NAPL has been observed in MW7, MW9, MW14, and more recently MW15 and MW17.
  - a. NAPL was last detected in MW7 in April 2014 and was not observed through September 2022 when the well was destroyed.
  - b. NAPL was last detected in MW9 in March 2017 and groundwater elevations have fluctuated within the range where NAPL was last observed with no reappearance since then.
  - c. NAPL was not detected in MW14 from the May 2022 EFR event until November 2023 when rapidly falling groundwater elevations allowed previously submerged NAPL to enter the well. NAPL has been detected in MW14 up to 3.66 feet (December 2023) and is averaging 0.14 feet since December 2023.
  - d. The appearance of NAPL in MW15 coincides with a drop in groundwater elevations to a historic low in July 2023. NAPL has been detected in MW15 ranging from 0.06 to 0.28 feet and is averaging 0.19 feet since December 2023.



- e. NAPL was first detected in MW17 in October 2023 and has been detected ranging from 0.06 to 0.88 feet and is averaging 0.19 feet since December 2023.
  - f. The NAPLs in MW15 and MW17 have been observed to be similar, very weathered, and amber in color; the MW14 NAPL appears to be less weathered and golden in color.
2. The Site is served by a private supply well and several other formerly-used supply wells are located on or adjacent to the subject property (i.e., formerly-used supply wells on the Ridgeview Plaza property, and nearby Exxon facility on the north side of Annapolis Road).
- a. The two Ridgeview wells were constructed to depths of 466 and 485 feet, respectively. The groundwater elevation in the Ridgeview wells is estimated to be approximately 41 feet, about 170 feet deeper than the groundwater elevations of Site monitoring wells.
  - b. The Exxon well is reported to be constructed to a depth of 145 feet with groundwater at a depth of approximately 60 feet.
  - c. These three wells are screened within much deeper aquifers than the regional water table that the Site's "deep" monitoring well network is screened (with groundwater elevation estimated to be approximately 210 feet).
  - d. The Site's supply well is reported to be constructed to a depth of 465 feet with screen from 440 to 465 feet and groundwater at 205 feet. Regular testing of water samples collected from the station's supply well system since December 2012 have contained sporadic, low-level concentrations of acetone and methylene chloride that were most likely laboratory artifacts. Per MDE direction, sampling of the water supply will be reduced to an annual frequency, with the next sampling event planned for 1Q25.
3. Groundwater samples collected from shallow groundwater zone wells MW1, MW4, MW12, and MW16 contain VOCs at low or non-detectable concentrations. MW2 is rarely sampled because of the lack of groundwater in the well. Groundwater samples collected from the other seven deeper groundwater monitoring wells (former MW8 and MW10, MW9, MW14, MW15, MW17 and MW18) consistently contained/contain detectable VOCs.
- a. Former MW8 contained an average of 1.3 µg/L Benzene, 80 µg/L Total BTEX and 143 µg/L Total VOCs during the five sampling events before its removal.
  - b. Total VOC concentrations decreased to low or non-detect concentrations in MW9 in March and May 2023, but rebounded per the September and December 2023 and March 2024 groundwater sampling events.
  - c. Former MW10 contained an average of 57 µg/L Benzene, 427 µg/L Total BTEX and 562 µg/L Total VOC, not including an average of 540 µg/L TMBs during the two years before its removal.
  - d. MW14 was last sampled in September 2023 and contained 9.5 µg/L Benzene, 1176 µg/L BTEX and 1781 µg/L Total VOC including 218 µg/L Naphthalene, and no detectable MTBE.
  - e. Groundwater samples collected from MW15 during the year before NAPL appeared in 2023 contained an average of 362 µg/L Benzene, 2310 µg/L Total BTEX and 2555 µg/L Total VOC, not including an average of 560 µg/L TMBs.
  - f. MW17 and MW18 were added to the monitoring well network in September 2023, and contained 866 µg/L and 341 µg/L Total VOC, respectively per the September 2023 sampling event. NAPL was first detected in MW17 on October 25, 2023. MW17 contained NAPL during the December 2023 and March 2024 sampling events and therefore was not sampled.
  - g. MW18 contained 541 µg/L and 62 µg/L Total VOC, respectively, per the December 2023 and March 2024 sampling events.

The petroleum plume impacting the deeper groundwater zone does not appear to be migrating, but rather is shrinking and/or is stable with some fluctuations in response to rising and falling groundwater elevations. The recent reappearance of NAPL is most likely due to the rapidly falling groundwater table allowing previously submerged NAPL to enter the wells with decreasing thicknesses observed during the first quarter of 2024 as the groundwater table has risen again. The presence of NAPL in the wells is also



suspected to be a result of the wells' screen intervals extending into shallower (vadose and/or perched water forming) soil layers where elevated petroleum concentrations were encountered, and NAPL draining from shallower soil to the water level in the wells.

4. There are no known subsurface utilities approaching the shallowest groundwater at the Site. PID concentrations averaging 400 ppm-V PID-VOC were observed for the soils from about 10 and 22 feet below ground surface (bgs) during the installation of MW17 and MW18. Similar readings prevailed in soil samples collected at similar depths in former MW8 and MW9 when they were constructed. There has been no report of vapor intrusion within the C-store since monitoring began over ten years ago. Item 2 above addresses an additional identified potential exposure to local private supply wells.
5. There are no known or identified potentially, environmentally-sensitive ecological conditions at risk for impact from the current site and groundwater quality conditions. The nearby drainage feature along the east side of the Site is coincident with the depth of shallow groundwater at the Site. The shallow groundwater contains low to non-detectable VOC concentrations.
6. As noted above, there are no known utilities (other than the product lines between the dispensers and the tankfield, electrical conduits between the dispensers, tankfield and the C-store and sanitary sewer service lateral) that extend to depths where soils and groundwater are impacted.
7. No other sensitive receptors have been identified.

### **VACUUM TRUCK EFR/REMEDIAL EFFORTS**

Vacuum truck EFR events were conducted fifteen times between October 2013 and December 2014. Three additional EFR events were conducted in June-August 2016, two EFR events were conducted in February and July 2017 in response to NAPL and/or elevated concentrations in MW9 and MW15, and three EFR events were conducted in October/November 2017 and January 2018. An additional EFR event was performed on MW14 in May 2022 to address the NAPL observed during the April 2022 gauging event.

Approximately 14560-gallons of impacted groundwater and NAPL have been removed to date. The average extraction rate during the 2017-18 events was about 625 gallons of total fluids per event including the February 2017 event that netted only 100 gallons (because of relatively deeper groundwater elevations and inability to use vacuum-extraction beyond a depth of about 30 feet). Approximately 784 gallons of impacted groundwater/NAPL mix were removed during the May 18, 2022 EFR event. An estimated 293 gallons of NAPL have been removed by EFR with an additional 50 gallons removed by hand bailing for a total of about 343 gallons of NAPL removed to date. **Appendix G** includes a petroleum recovery database and time-series recovery graph.

The current approximate depths to groundwater in the three NAPL-impacted wells are 26 feet in MW14, 34.5 feet in MW15 and 33 feet in MW17. Vacuum truck EFR is typically effective with liquid levels are less than 28 feet below grade. Vacuum-assisted, air-entrainment methods can be effective to about 30 feet below grade (e.g., using a perforated stinger pipe to allow air-entrainment beyond what vacuum (suction) lift can provide). Consequently, current depths to groundwater in two of the three NAPL wells are beyond those where typical vacuum truck EFR can be effective. Other applicable product recovery methods include vacuum-assisted total-fluids pumping (permanent system or temporary trailer unit), automated/depth-adjusting product-only skimmer pumps, continued weekly gauging and bailing. With the higher groundwater elevations observed during the first quarter 2024 due to the Spring recharge, it is likely that NAPL thicknesses will continue to decrease, and possibly disappear – and then would reappear if/when groundwater elevations fall to conditions observed in late-December 2023.



The next quarterly sampling event will be scheduled for June 2024. If you have any questions concerning this submittal, please contact us below.

Sincerely,  
ARM Group LLC



Guy Davis  
Senior Scientist



Douglas O. Hamilton  
Senior Project Manager/Senior Geologist

cc. Ron Thompson, Southern Maryland Oil c/o The Wills Group, 102 Centennial Street, LaPlata, MD 20646



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**APPENDIX A**

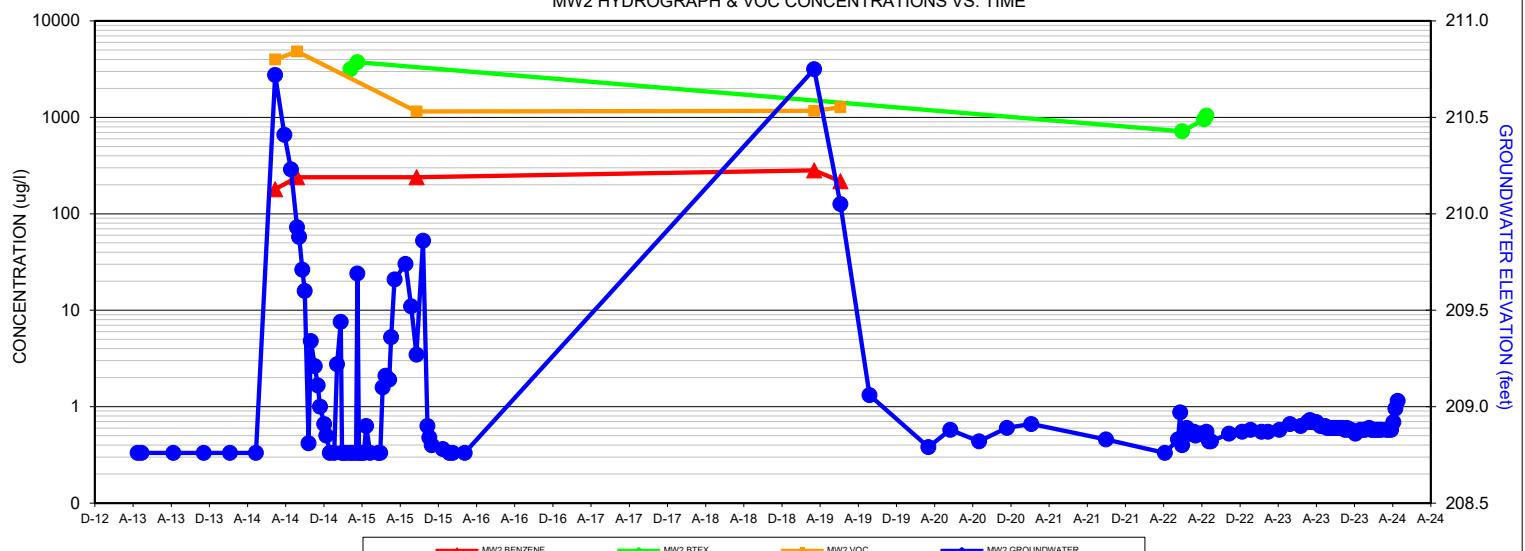
**TIME-SERIES GRAPHS**

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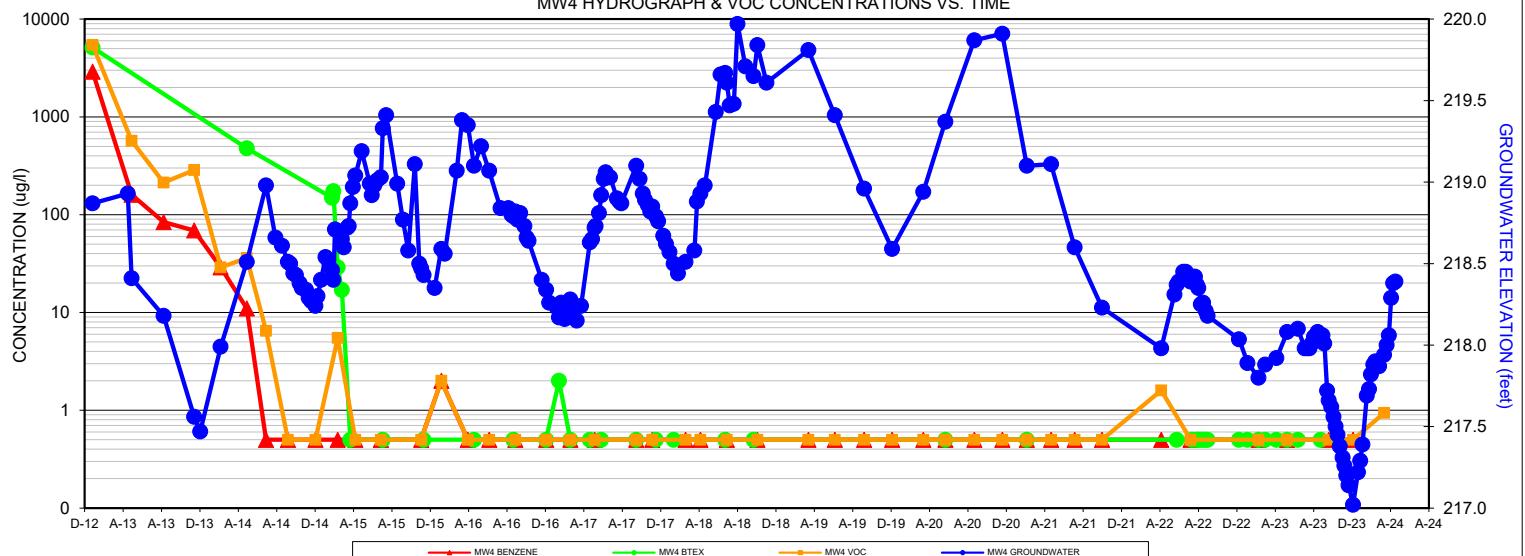
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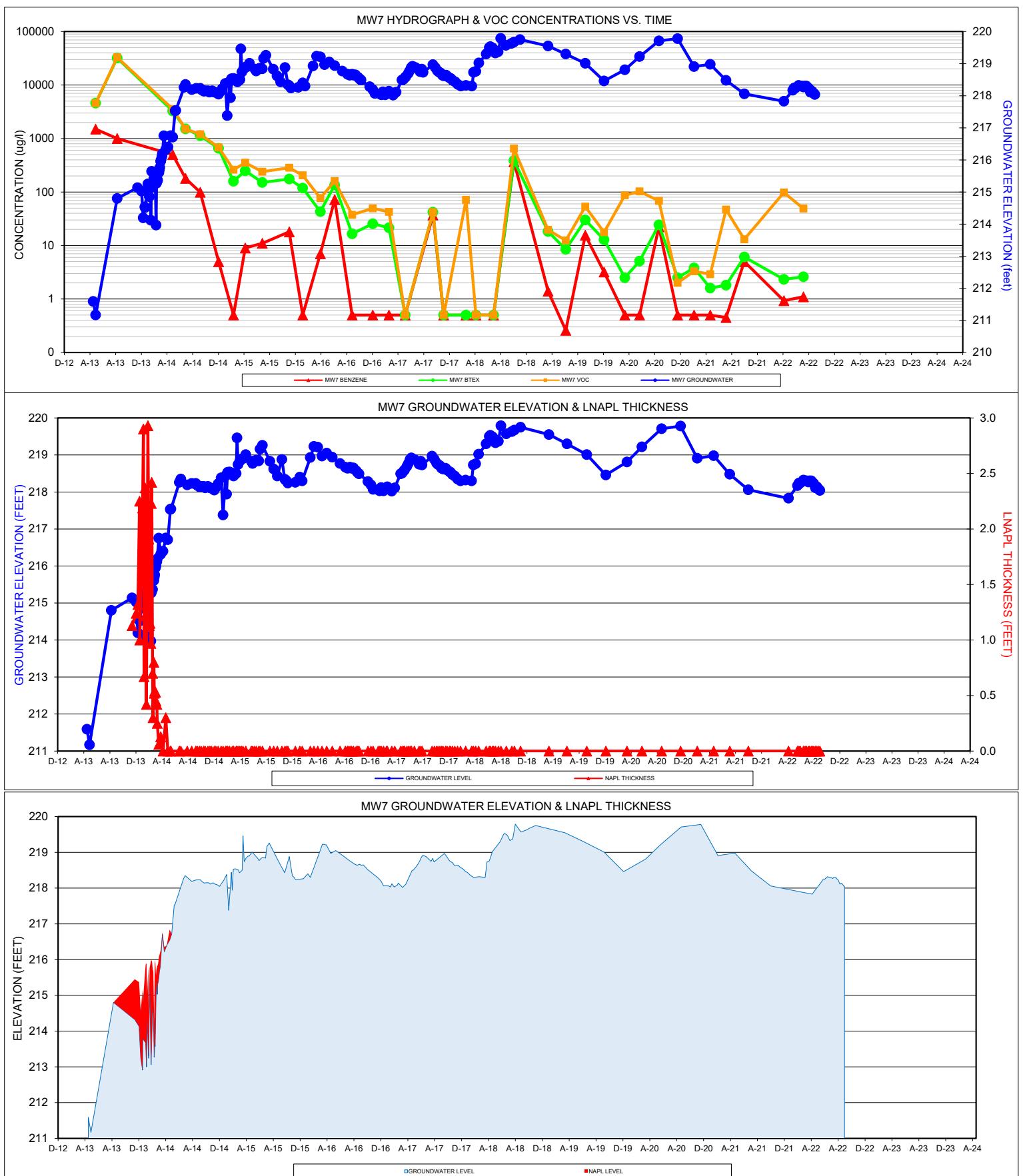


### MW2 HYDROGRAPH & VOC CONCENTRATIONS VS. TIME

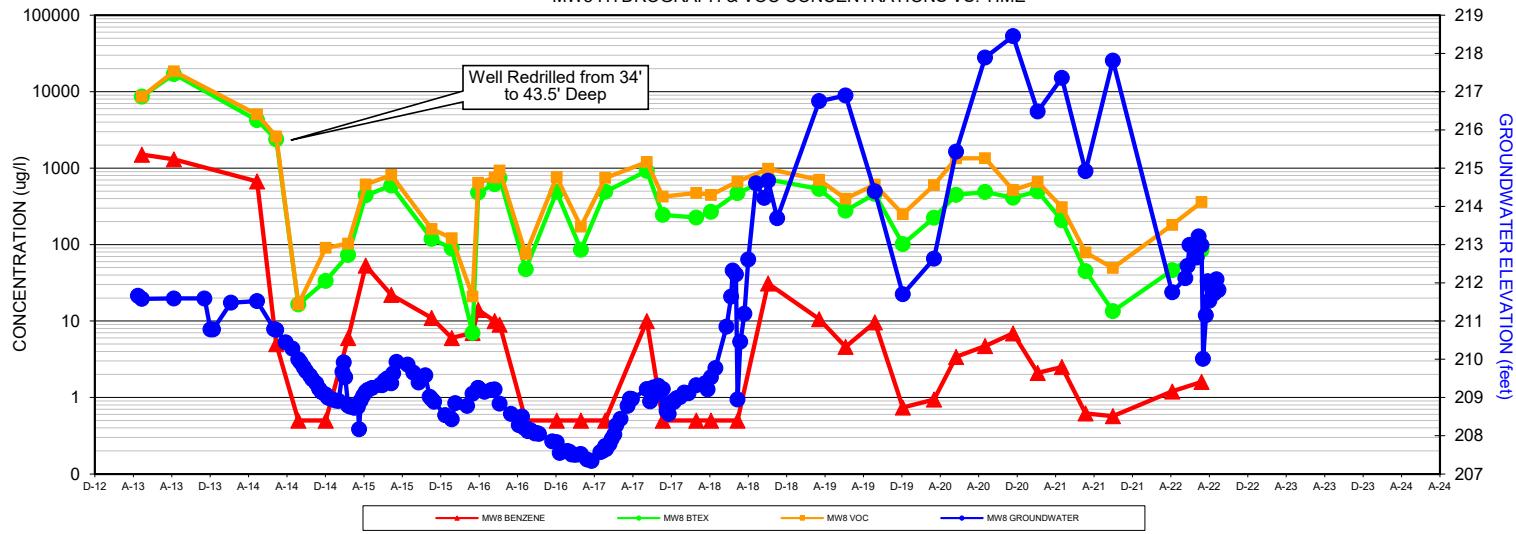


### MW4 HYDROGRAPH & VOC CONCENTRATIONS VS. TIME

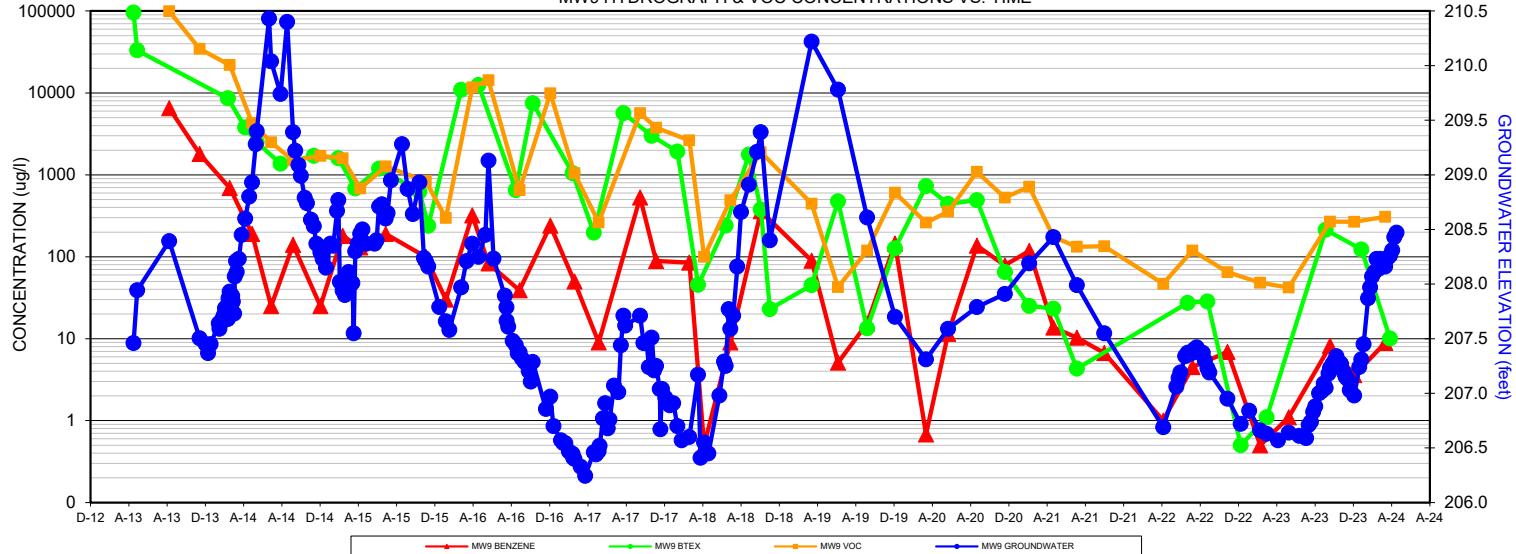




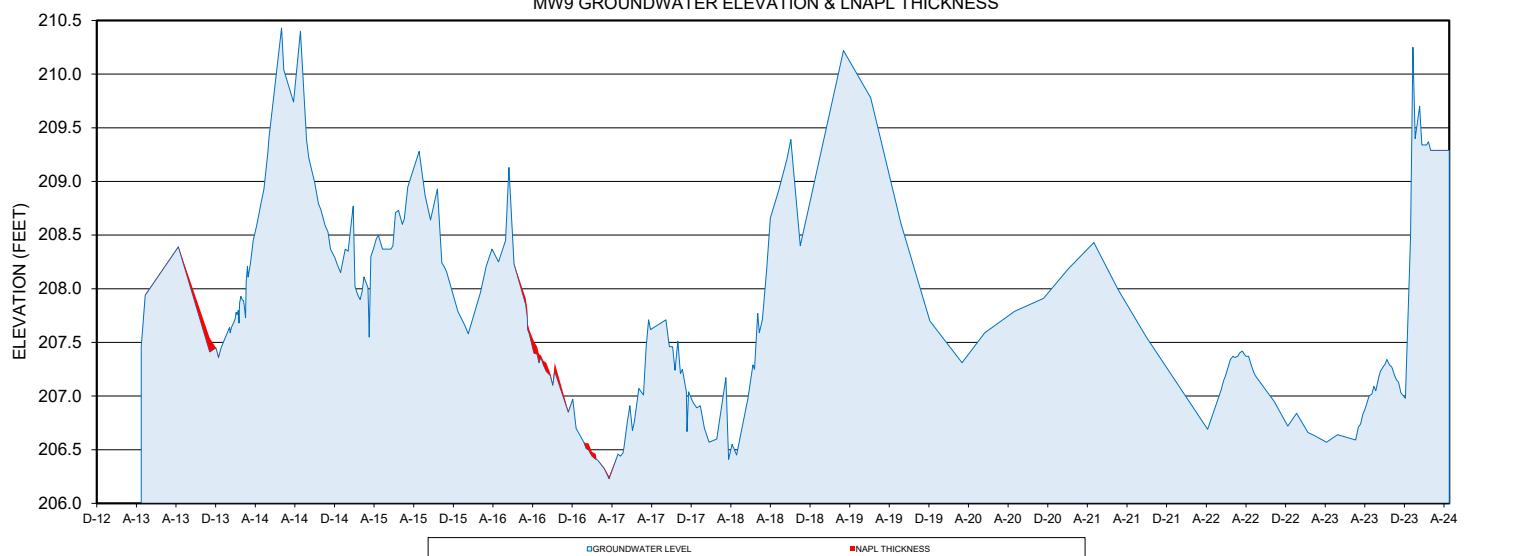
### MW8 HYDROGRAPH & VOC CONCENTRATIONS VS. TIME

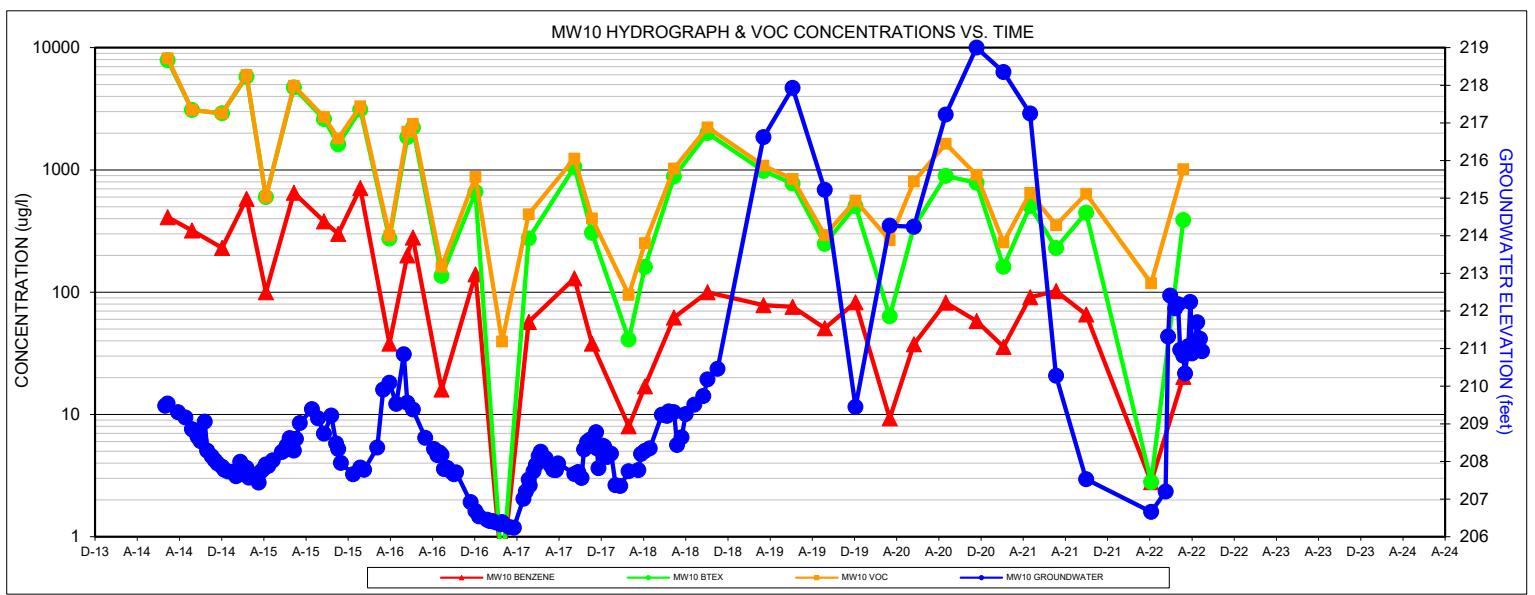


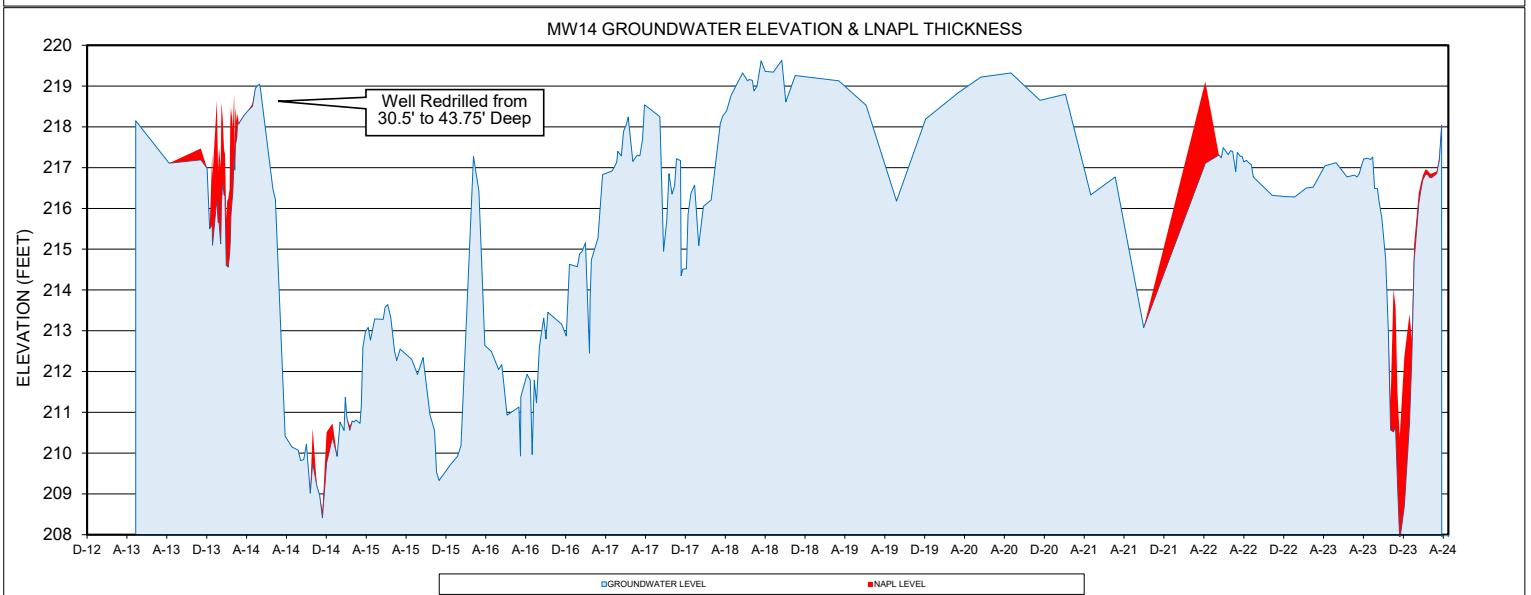
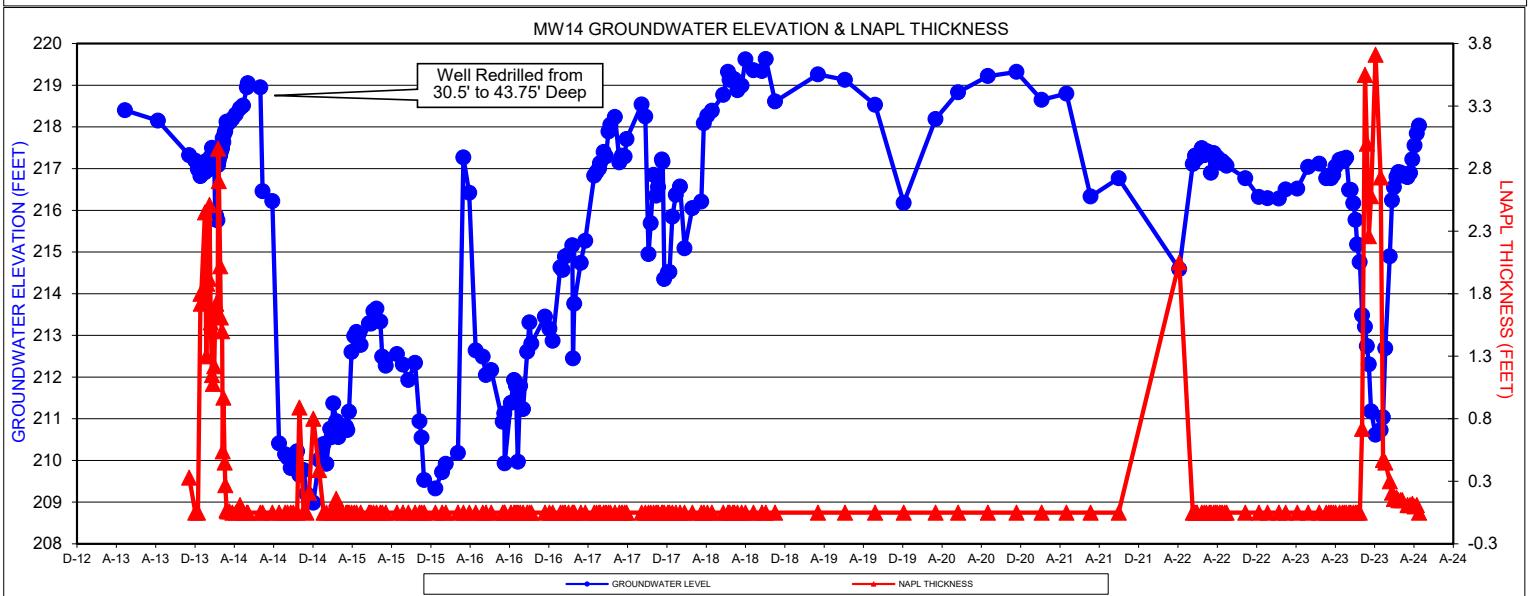
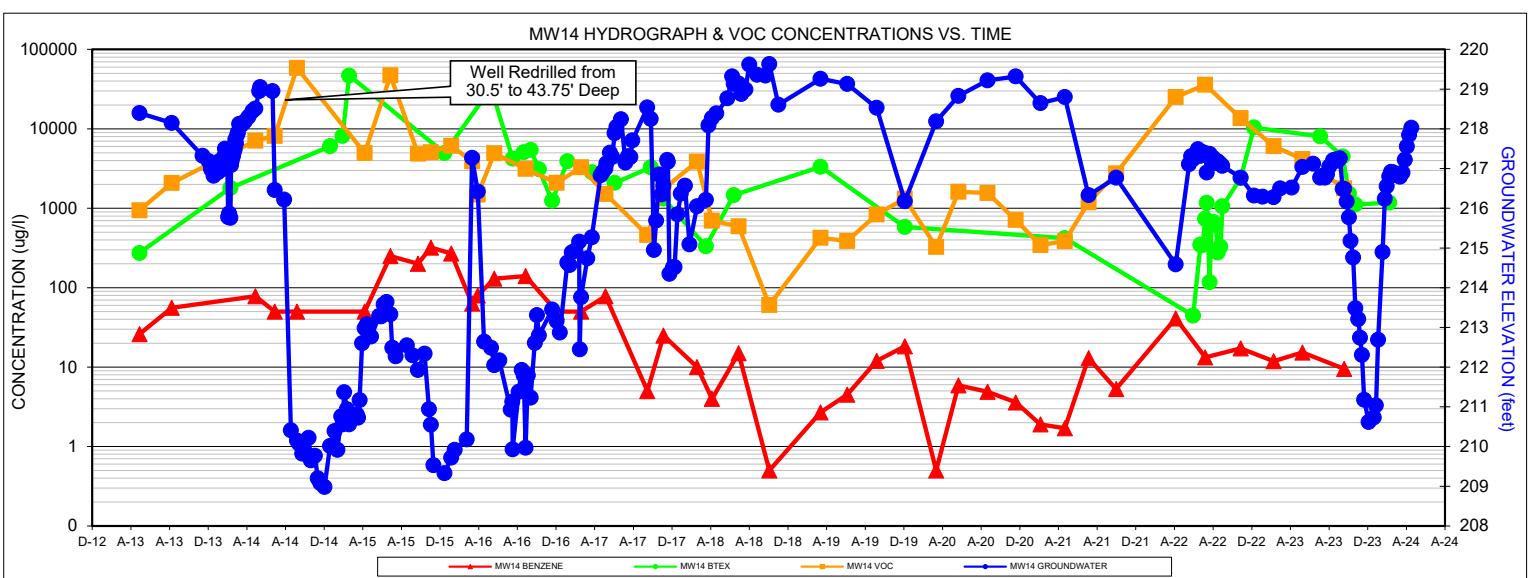
### MW9 HYDROGRAPH & VOC CONCENTRATIONS VS. TIME

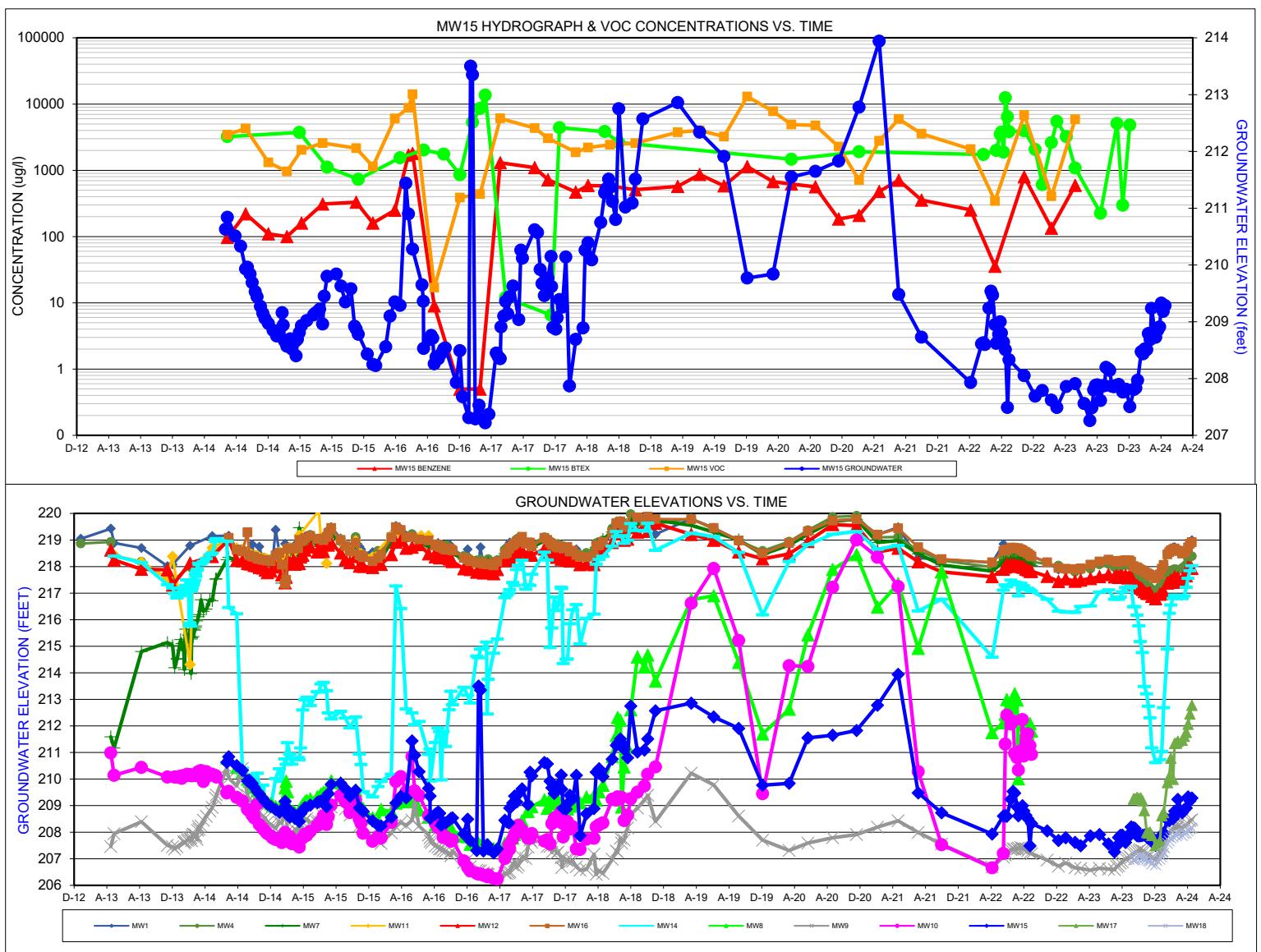


### MW9 GROUNDWATER ELEVATION & LNAPL THICKNESS









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**APPENDIX B**

**GROUNDWATER GAUGING AND SAMPLING DATABASE**

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Well	Date	Well	Well	Depth to	LNAPL	Depth to	Gallons	Cumulative	Corrected	Benzene	Toluene	Ethy-	m+p-	o-	MTBE	Cyclo-	Methyl-	Cumene	Naph-	VOC	GRO	DRO
		Elev.	Depth	LNAPL	Water	Removed	Removed	Water Elevation	Water Elevation			-benzene	Xylenes	Xylenes		hexane	cyclo-	hexane	thalene			
		Feet (ft)										Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)
MW1	12/26/12			Clear	25.95			219.05	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	<0.2	0.35
	04/17/13			Clear	25.57			219.43														
	04/29/13			Clear	26.11			218.89	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	<0.2	<0.22
	08/09/13			Clear	26.30			218.70	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	<0.2	<0.19
	11/14/13			Clear	26.98			218.02	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	<0.2	<0.21
	12/03/13			Clear	26.92			218.08														
	02/06/14			Clear	26.21			218.79	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	<0.2	<0.22
	04/30/14			Clear	25.85			219.15	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	2.30	<0.22
	06/30/14			Clear	25.84			219.16	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	<0.2	<0.22
	07/30/14			Clear	26.34			218.66														
MW1	08/20/14			Clear	26.43			218.57														
	09/08/14			Clear	26.48			218.52	<1	<1	<1	<2	<1	<1	<5	<5	<5	<1	<10	0.0	<0.2	<0.21
	09/15/14			Clear	26.57			218.43														
	09/25/14			Clear	26.16			218.84														
	10/03/14			Clear	26.62			218.38														
	10/15/14			Clear	26.58			218.42														
	10/22/14			Clear	26.25			218.75														
	11/04/14			Clear	26.75			218.25														
	11/13/14			Clear	26.78			218.22														
	11/21/14			Clear	26.79			218.21														
MW1	12/04/14			Clear	26.77			218.23	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.22
	12/11/14			Clear	26.75			218.25														
	12/22/14			Clear	25.61			219.39														
	01/05/15			Clear	26.47			218.53														
	01/14/15			Clear	26.91			218.09														
	01/26/15			Clear	26.14			218.86														
	01/30/15			Clear	26.38			218.62														
	02/04/15			Clear	26.34			218.66														
	02/13/15			Clear	26.28			218.72	<1	<1	<1	14.0	5.0	<5	<5	<5	<5	<5	17.0	36.0	0.73	0.38
	02/26/15			Clear	26.28			218.72														
MW1	03/04/15			Clear	26.19			218.81														
	03/16/15			Clear	26.14			218.86														
	03/20/15			Clear	26.71			218.29														
	03/25/15			Clear	26.55			218.45														
	04/02/15			Clear	25.94			219.06														
	04/10/15			Clear	25.87			219.13	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<10	0.0	0.27	0.36
	04/30/15			Clear	25.81			219.19														
	05/26/15			Clear	25.96			219.04														
	06/01/15			Clear	25.95			219.05														
	06/09/15			Clear	25.94			219.06														
MW1	06/30/15			Clear	25.84			219.16	<1	<1	<1	13.0	<5	<5	<5	<5	8.0	<5	10.0	31.0	0.26	0.81
	07/06/15			Clear	25.71			219.29														
	07/17/15			Clear	25.51			219.49														
	08/21/15			Clear	25.94			219.06														
	09/08/15			Clear	26.20			218.80														
	09/25/15			Clear	26.30			218.70														
	10/16/15			Clear	25.92			219.08														
	10/30/15			Clear	26.25			218.75														
	11/05/15	245.00	34.75	Clear	26.35			218.65	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.22
	11/13/15			Clear	26.50			218.50														
MW1	12/18/15			Clear	26.46			218.54														
	01/08/16			Clear	26.69			218.31	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.23
	01/19/16			Clear	26.71			218.29														
	02/26/16			Clear	25.80			219.20														
	03/14/16			Clear	25.47			219.53														
	04/01/16			Clear	25.58			219.42	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.2
	04/21/16			Clear	25.83			219.17														
	05/13/16			Clear	25.78			219.22														
	06/08/16			Clear	25.97			219.03	<1	<1	37.0	130.0	30.0	<5	<5	6.0	15.0	80.0	298.0	6.00	4.00	
	07/14/16			Clear	26.05			218.95														
MW1	08/08/16			Clear	26.27			218.73														
	08/18/16			Clear	26.11			218.89														
	08/24/16			Clear	26.23			218.77														
	08/30/16			Clear	26.28			218.72	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.21
	09/06/16			Clear	26.35			218.65														
	09/15/16			Clear	26.32			218.68														
	09/28/16			Clear	26.15			218.85														
	10/05/16			Clear	26.30			218.70														
	10/11/16			Clear	26.29			218.71														
	11/22/16			Clear	26.66			218.34														
MW1	12/06/16			Clear	26.35			218.65	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.21
	12/16/16			Clear	26.80			218.20														
	01/09/17			Clear	26.68			218.12														
	01/16/17			Clear	26.68			218.12														
	01/23/17			Clear	26.27			218.73														
	02/03/17			Clear	26.95			218.05														
	02/17/17			Clear	26.95			218.05														
	02/21/17			Clear	26.97			218.03	<1	<1	2.0	13.0	<5	<5	<5	<5	<5	<5	<10	15.0	0.25	0.38
	03/13/17			Clear	27.03			217.97														
	03/27/17			Clear	26.87			218.13														
MW1	04/24/17			Clear	26.31			218.69														
	05/01/17			Clear	26.28			218.72														
	05/09/17			Clear																		

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )									Milligrams per Liter (mg/l)			
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclo-hexane	Methyl-cyclo-hexane	Cumene	Naphthalene	VOC	GRO	DRO
										Feet (ft)												
	11/20/17			Clear	26.23				218.77													
	11/27/17			Clear	26.32				218.68													
	12/08/17			Clear	26.30				218.70													
	12/13/17			Clear	26.32				218.68													
	12/22/17			Clear	26.43				218.57													
	01/02/18			Clear	26.46				218.54													
	01/15/18			Clear	26.35				218.65													
	01/29/18			Clear	26.63				218.37													
	02/22/18			Clear	26.62				218.38	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.22	<0.2
	03/22/18			Clear	26.40				218.60													
	03/30/18			Clear	26.24				218.76													
	04/10/18			Clear	26.18				218.82	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.2
	04/24/18			Clear	26.11				218.89													
	05/29/18			Clear	25.76				219.24													
	06/13/18			Clear	25.40				219.60													
	06/18/18			Clear	25.36				219.64													
	06/28/18			Clear	25.28				219.72													
	07/03/18			Clear	25.40				219.60	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	0.21
	07/12/18			Clear	25.45				219.55													
	07/25/18			Clear	25.46				219.54													
	08/06/18			Clear	24.89				220.11													
	08/31/18			Clear	25.14				219.86													
	09/26/18			Clear	25.18				219.82													
	10/08/18			Clear	25.12				219.88	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	0.24
	11/06/18			Clear	25.78				219.22													
	03/19/19			Clear	25.20				219.80	<1	0.5	<1	1.4	0.5	<1			<2	2.4	<0.2	<0.098	
	06/11/19			Clear	25.54				219.46	<1	<1	<1	<2	<1	<1			<2	0.5	<0.2	0.08	
	09/12/19			Clear	26.01				218.99	<1	<1	<1	<1	<1	<1			<2	0.5	<0.2	0.06	
	12/10/19			Clear	26.51				218.49	<1	<1	<1	<2	<1	<1			<2	0.5	<0.2	0.09	
	03/18/20			Clear	26.17				218.83	<1	<1	<1	<2	<1	<1			<2	0.5	<0.2	0.09	
	05/27/20			Clear	25.69				219.31	<1	<1	<1	<2	<1	<1			<2	1.1	<0.2	0.10	
	08/27/20			Clear	25.33				219.67	<1	<1	<1	<2	<1	<1			<2	1.1	<0.2	0.08	
	11/24/20			Clear	25.20				219.80	<1	<1	<1	<2	<1	<1			<2	0.0	<0.2	0.10	
	02/10/21			Clear	25.79				219.21	<1	<1	<1	<2	<1	<1			<2	0.0	<0.2	0.11	
	04/28/21			Clear	25.52				219.48	<1	<1	<1	<2	<1	<1			<2	0.7	<0.2	<0.11	
	07/12/21			Clear	26.68				218.32	<1	<1	<1	<2	<1	<1			<2	0.0	<0.2	0.09	
	10/07/21			Clear	26.73				218.27	<1	<1	<1	<2	<1	<1			<2	28.8	<0.2	<0.10	
	04/13/22			Clear	26.85				218.15	<1	<1	<1	<2	<1	<1			<2	1.7	<0.2	0.09	
	05/25/22			Clear	26.15				218.85													
	06/01/22			Clear	26.37				218.63													
	06/07/22			Clear	26.34				218.66													
	06/22/22			Clear	26.34				218.66													
	06/30/22			Clear	26.28				218.72													
	07/06/22			Clear	26.30				218.70	<1	<1	<1	<2	<1	<1			<4	1.0	<0.2	<0.10	
	07/15/22			Clear	26.30				218.69													
	07/20/22			Clear	26.31				218.65													
	07/29/22			Clear	26.35				218.61													
	08/04/22			Clear	26.39				218.66													
	08/09/22			Clear	26.42				218.58													
	08/17/22			Clear	26.46				218.54													
	08/24/22			Clear	26.51				218.49													
	09/01/22			Clear	26.56				218.44													
	09/07/22			Clear	26.61				218.39													
	11/04/22			Clear	26.84				218.16	<1	<1	<1	<2	<1	<1			<4	1.0	<0.2	<0.097	
	12/16/22			Clear	27.11				217.89													
	01/12/23			Clear	27.10				217.90													
	02/16/23			Clear	27.10				217.90	<1	<1	<1	<2	<1	<1			<4	1.0	<0.2	<0.12	
	03/09/23			Clear	27.07				217.93													
	04/14/23			Clear	26.94				218.06													
	05/18/23			Clear	26.82				218.18	<1	<1	<1	<2	<1	<1			<4	1.0	<0.2	<0.12	
	06/21/23			Clear	26.74				218.26													
	07/13/23			Clear	26.81				218.19													
	07/21/23			Clear	26.81				218.19													
	07/28/23			Clear	26.84				218.16													
	08/04/23			Clear	26.81				218.19													
	08/11/23			Clear	26.80				218.20													
	08/23/23			Clear	26.77				218.23													
	09/07/23			Clear	26.77				218.23													
	09/13/23			Clear	26.81				218.19													
	09/22/23			Clear	26.98				218.02													
	09/27/23			Clear	27.02				217.98	<1	<1	<1	<2	<1	<1			<4	1.0	<0.2	<0.1	
	10/05/23			Clear	27.03				217.97													
	10/12/23			Clear	27.08				217.92													
	10/19/23			Clear	27.12				217.88													
	10/25/23			Clear	27.15				217.85													
	11/01/23			Clear	27.19				217.81													
	11/10/23			Clear	27.23				217.77													
	11/16/23			Clear	27.27				217.73	</td												

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)			
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclo-hexane	Methyl-cyclo-hexane	Cumene	Naphthalene	VOC	GRO	DRO	
	04/17/13			Dry	34.75				208.76														
	04/29/13			Dry	34.75				208.76														
	08/09/13			Dry	34.75				208.76														
	11/14/13			Dry	34.75				208.76														
	02/06/14			Dry	34.75				208.76														
	04/30/14			Dry	34.75				208.76														
	06/30/14			Clear	32.79				210.72	180.0	57.0	1000.0	1800.0	120.0	<50	<50	<50	72.0	760.0	3989.0	12.00	7.80	
	07/30/14			Clear	33.10				210.41														
	08/20/14			Clear	33.28				210.23														
	09/08/14			Clear	33.58				209.93	240.0	<10	1600.0	1900.0	<50	<50	73.0	120.0	150.0	740.0	4823.0	34.00	20.00	
	09/15/14			Clear	33.63				209.88														
	09/25/14			Clear	33.80				209.71														
	10/03/14			Clear	33.91				209.60														
	10/15/14			Clear	34.70				208.81														
	10/22/14			Clear	34.17				209.34														
	11/04/14			Clear	34.30				209.21														
	11/13/14			Clear	34.40				209.11														
	11/21/14			Clear	34.51				209.00														
	12/04/14			Clear	34.60				208.91														
	12/11/14			Clear	34.66				208.85														
	12/22/14			Dry	34.75				208.76														
	01/05/15			Dry	34.75				208.76														
	01/14/15			Clear	34.29				209.22														
	01/26/15			Clear	34.07				209.44														
	01/30/15			Dry	34.75				208.76														
	02/04/15			Dry	34.75				208.76														
	02/13/15			Dry	34.75				208.76														
	02/26/15			Dry	34.75				208.76														
	03/04/15			Dry	34.75				208.76														
	03/16/15			Dry	34.75				208.76														
	03/20/15			Clear	33.82				209.69														
	03/25/15			Dry	34.75				208.76														
	04/02/15			Dry	34.75				208.76														
	04/10/15			Dry	34.75				208.76														
	04/17/15			Clear	34.61				208.90														
	04/30/15			Dry	34.75				208.76														
	05/26/15			Clear	34.75				208.76														
	06/01/15			Dry	34.75				208.76														
	06/09/15			Clear	34.41				209.10														
	06/18/15			Clear	34.35				209.16														
	06/30/15			Clear	34.37				209.14														
	07/06/15			Clear	34.15				209.36														
	07/17/15			Clear	33.85				209.66														
	08/21/15			Clear	33.77				209.74														
	09/08/15			Clear	33.99				209.52														
	09/25/15			Clear	34.24				209.27	240.0	18.0	300.0	160.0	<25	<25	49.0	65.0	49.0	270.0	1151.0	14.00	15.00	
	10/16/15			Clear	33.65				209.86														
	10/30/15			Clear	34.61				208.90														
	11/05/15			Clear	34.67				208.84														
	11/13/15			Clear	34.71				208.80														
	12/18/15			Clear	34.73				208.78														
	01/08/16			Dry	34.75				208.76														
	01/19/16			Dry	34.75				208.76														
	02/26/16			Dry	34.75				208.76														
	03/19/19			Clear	32.76				210.75	282.0	12.7	535.0	116.0	9.4	9.8					156.0	1171.3	3.97	6.60
	06/11/19			Clear	33.46				210.05	218.0	10.5	626.0	184.0	6.1	3.9					203.0	1272.9	3.51	4.20
	09/12/19			Clear	34.45				209.06														
	03/18/20			Dry	34.72				208.79														
	05/27/20			Clear	34.63				208.88														
	08/27/20			Clear	34.69				208.82														
	11/24/20			Clear	34.62				208.89														
	02/10/21	243.51	34.75	Clear	34.60				208.91														
	10/07/21			Clear	34.68				208.83														
	04/13/22			Dry	34.75				208.76														
	05/25/22			Clear	34.68				208.83														
	06/01/22			Clear	34.54				208.97														
	06/07/22			Clear	34.71				208.80														
	06/23/22			Clear	34.62				208.89														
	06/30/22			Clear	34.65				208.88														
	07/15/22			Clear	34.64				208.87														
	07/20/22			Clear	34.66				208.85														
	07/29/22			Clear	34.65				208.86														
	08/04/22			Clear	34.65				208.86														
	08/17/22			Clear	34.65				208.86														
	08/24/22			Clear	34.64				208.87														
	09/01/22			Clear	34.69				208.82														
	09/07/22			Clear	34.69				208.82														
	11/04/22			Clear	34.65				208.86														
	12/16/22			Clear	34.64				208.87														
	01/12/23			Clear	34.63				208.88														
	02/16/23			Clear	34.64				208.87														
	03/09/23			Clear	34.63				208.88														
	04/14/23			Clear	34.63				208.88														
	05/18/23			Clear	34.60				208.91														
	06/21/23			Clear	34.61				208.90														
	07/13/23			Clear</td																			

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclo-hexane	Methyl-cyclo-hexane	Cumene	Naphthalene	VOC	GRO	DRO	
										Feet (ft)						Micrograms Per Liter ( $\mu\text{g/l}$ )							
	12/26/12			Clear	26.34				218.87	2900.0	300.0	690.0	1200.0	41.0	61.0	220.0	<100	35.0	<200	5447.0	9.90	0.28	
	04/17/13			Clear	26.28				218.93														
	04/29/13			Clear	26.80				218.41	160.0	110.0	62.0	120.0	26.0	<10	92.0	<50	<10	<100	570.0	3.10	0.37	
	08/09/13			Clear	27.03				218.18	84.0	9.0	25.0	31.0	<5	<5	35.0	29.0	<5	<50	213.0	1.90	<0.2	
	11/14/13			Clear	27.65				217.56	69.0	10.0	19.0	61.0	15.0	<1	52.0	33.0	5.0	22.0	286.0	2.80	0.55	
	12/03/13			Clear	27.74				217.47														
	02/06/14			Clear	27.22				217.99	29.0	<10	<10	<20	<10	<10	<50	<50	<10	<100	29.0	1.40	<0.22	
	04/30/14			Clear	26.70				218.51	11.0	<1	1.0	5.0	<1	<1	9.0	10.0	<1	<10	36.0	1.40	0.40	
	06/30/14			Clear	26.23				218.98	0.5	<1	<1	6.0	<1	<5	<5	<5	<5	<10	6.5	0.33	0.25	
	07/30/14			Clear	26.55				218.66														
	08/20/14			Clear	26.60				218.61														
	09/08/14			Clear	26.70				218.51	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	0.28	0.23	
	09/15/14			Clear	26.71				218.50														
	09/25/14			Clear	26.77				218.44														
	10/03/14			Clear	26.78				218.43														
	10/15/14			Clear	26.83				218.38														
	10/22/14			Clear	26.86				218.35														
	11/04/14			Clear	26.87				218.34														
	11/13/14			Clear	26.92				218.29														
	11/21/14			Clear	26.94				218.27														
	12/04/14			Clear	26.97				218.24	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	0.24	0.25	
	12/11/14			Clear	26.91				218.30														
	12/22/14			Clear	26.81				218.40														
	01/05/15			Clear	26.67				218.64														
	01/14/15			Clear	26.69				218.62														
	01/26/15			Clear	26.75				218.46														
	01/30/15			Clear	26.81				218.40														
	02/04/15			Clear	26.59				218.71														
	02/13/15			Clear	26.51				218.70	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	5.5	0.38	0.24	
	02/26/15			Clear	26.56				218.65														
	03/04/15			Clear	26.61				218.60														
	03/16/15			Clear	26.49				218.72														
	03/20/15			Clear	26.48				218.73														
	03/25/15			Clear	26.34				218.87														
	04/02/15			Clear	26.24				218.97														
	04/10/15			Clear	26.17				219.04	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.2	<0.22	
	04/30/15			Clear	26.02				219.19														
	05/26/15			Clear	26.22				218.99														
	06/01/15			Clear	26.29				218.92														
	06/09/15			Clear	26.23				218.98														
	06/18/15			Clear	26.20				219.01														
	06/30/15			Clear	26.18				219.03	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.2	<0.23	
	07/06/15			Clear	25.88				219.33														
	07/17/15			Clear	25.80				219.41														
	08/21/15			Clear	26.22				218.99														
	09/08/15			Clear	26.44				218.77														
	09/25/15			Clear	26.63				218.58														
	10/16/15			Clear	26.10				219.11														
	10/30/15			Clear	26.71				218.50														
	11/05/15			Clear	26.74				218.47	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.2	<0.23	
	11/13/15			Clear	26.78				218.43														
	12/18/15			Clear	26.85				218.35														
	01/08/16	245.21	34.10	Clear	26.62				218.59	2.0	<1	<1	<5	<5	<5	<5	<5	<5	<10	2.0	<0.2	0.30	
	01/19/16			Clear	26.65				218.56														
	02/26/16			Clear	26.14				219.07														
	03/14/16			Clear	25.83				219.38														
	04/01/16			Clear	25.86				219.35	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	0.42	0.51	
	04/21/16			Clear	26.11				219.10														
	05/13/16			Clear	25.99				219.22														
	06/08/16			Clear	26.14				219.07	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.22	0.37	
	07/14/16			Clear	26.37				218.84														
	08/08/16			Clear	26.37				218.84														
	08/18/16			Clear	26.41				218.80														
	08/24/16			Clear	26.42				218.79														
	08/30/16			Clear	26.39				218.82	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.22	0.27	
	09/06/16			Clear	26.44				218.77														
	09/15/16			Clear	26.40				218.81														
	09/28/16			Clear	26.29				218.92														
	05/07/17			Clear	26.19				219.02														
	06/07/17			Clear	26.19				219.02														
	06/13/17			Clear	26.15				219.06														
	06/27/17			Clear	26.18				219.03														
	07/19/17			Clear	26.31				218.90														
	07/27/17			Clear	26.33				218.88														
	08/02/17			Clear	26.34				218.87														
	09/18/17			Clear	26.11				219.10	0.5	<1	<1	<5	<5	<5								

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )									Milligrams per Liter (mg/l)			
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclo-hexane	Methyl-cyclo-hexane	Cumene	Naphthalene	VOC	GRO	DRO
MW4	01/15/18	245.21	34.10	Clear	26.71				218.50													
	01/29/18			Clear	26.77				218.44													
	02/22/18			Clear	26.70				218.51	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.21	0.26
	03/22/18			Clear	26.63				218.58													
	03/30/18			Clear	26.33				218.88													
	04/10/18			Clear	26.28				218.93	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.2	0.46
	04/24/18			Clear	26.23				218.98													
	05/29/18			Clear	25.78				219.43													
	06/13/18			Clear	25.55				219.66													
	06/18/18			Clear	25.55				219.66													
	06/28/18			Clear	25.54				219.67													
	07/03/18			Clear	25.60				219.61	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.2	0.41
	07/12/18			Clear	25.74				219.47													
	07/25/18			Clear	25.73				219.48													
	08/06/18			Clear	25.24				219.97													
	08/31/18			Clear	25.50				219.71													
	09/26/18			Clear	25.56				219.65													
	10/08/18			Clear	25.37				219.84	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	<0.2	0.44
	11/06/18			Clear	25.60				219.61													
	03/19/19			Clear	25.40				219.81	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.42	
	06/11/19			Clear	25.80				219.41	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.46	
	09/12/19			Clear	26.25				218.96	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.26	
	12/10/19			Clear	26.62				218.59	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.17	
	03/18/20			Clear	26.27				218.94	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.28	
	06/27/20			Clear	25.84				219.37	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.24	
	08/27/20			Clear	25.34				219.87	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.23	
	11/24/20			Clear	25.30				219.91	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.31	
	02/10/21			Clear	26.11				219.10	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.24	
	04/28/21			Clear	26.10				219.11	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	<0.1	
	07/12/21			Clear	26.61				218.60	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.08	
	10/07/21			Clear	26.98				218.23	0.5	<1	<1	<2	<1	<1	<1	<2	<2	0.5	<0.2	0.12	
	04/13/22			Clear	27.23				217.98	0.5	<1	<1	<2	<1	<1	<1	<2	<2	1.6	<0.2	0.28	
	05/25/22			Clear	26.90				218.31													
	06/01/22			Clear	26.84				218.37													
	06/07/22			Clear	26.82				218.39													
	06/22/22			Clear	26.76				218.45													
	06/30/22			Clear	26.76				218.45													
	07/06/22			Clear	26.78				218.43													
	07/15/22			Clear	26.82				218.39	0.5	<1	<1	<2	<1	<1	<1	<4	<4	0.5	<0.2	0.07	
	07/20/22			Clear	26.80				218.41													
	07/29/22			Clear	26.79				218.42													
	08/04/22			Clear	26.84				218.37													
	08/09/22			Clear	26.86				218.35													
	08/17/22			Clear	26.96				218.25													
	08/24/22			Clear	26.95				218.26													
	09/01/22			Clear	27.00				218.21													
	09/07/22			Clear	27.03				218.18													
	12/16/22			Clear	27.18				218.04													
	01/12/23			Clear	27.32				217.89													
	02/16/23			Clear	27.41				217.80	0.5	<1	<1	<2	<1	<1	<1	<4	<4	0.5	<0.2	<0.11	
	03/09/23			Clear	27.33				217.88													
	04/14/23			Clear	27.29				217.92													
	05/18/23			Clear	27.13				218.08	0.5	<1	<1	<2	<1	<1	<1	<4	<4	0.5	<0.2	0.16	
	06/21/23			Clear	27.11				218.10													
	07/13/23			Clear	27.23				217.98													
	07/21/23			Clear	27.23				217.98													
	07/28/23			Clear	27.23				217.98													
	08/04/23			Clear	27.20				218.01													
	08/23/23			Clear	27.16				218.05													
	09/23/23			Clear	27.13				218.08													
	09/30/23			Clear	27.15				218.06													
	10/05/23			Clear	27.15				218.06													
	10/12/23			Clear	27.65				217.66													
	10/19/23			Clear	27.71				217.60													
	10/25/23			Clear	27.76				217.45													
	11/01/23			Clear	27.83				217.38													
	11/10/23			Clear	27.90				217.31													
	11/16/23			Clear	27.95				217.26													
	11/22/23			Clear	28.01				217.20													
	11/29/23			Clear	28.07				217.14													
	12/13/23			Clear	28.19				217.02	0.5	<1	<1	<2	<1	<1	<1	<4	<4	0.5	<0.2	<0.21	
	12/29/23			Clear	27.99				217.22													
	01/05/24																					

Well	Date	Well	Well	Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	<i>o</i> -Xylenes	MTBE	Cyclohexane	Methyl-cyclohexane	Cumene	Naphthalene	VOC	GRO	DRO		
		Feet (ft)																							
	04/17/13		Clear	32.76							211.59														
	04/29/13		Clear	33.18							211.17	1500.0	800.0	620.0	1500.0	160.0	<100	<500	<100	<1000	4580.0	20.00	3.40		
	08/09/13		Clear	29.55							214.80	1000.0	19000.0	2400.0	7000.0	2600.0	<50	<250	<250	<250	210.0	650.0	32860.0	44.00	24.00
	11/14/13		28.90	30.03	1.13	1.75					215.14														
	12/03/13		28.98	30.22	1.24	1.75					215.03														
	12/11/13		29.79	31.11	1.32	2.25					214.19														
	12/19/13		29.19	31.44	2.25	1.50					214.54														
	12/20/13		29.56	30.56	1.00	0.50					214.51														
	01/02/14		28.49	30.68	2.19	2.25					215.25														
	01/06/14		28.45	31.35	2.90	2.25					215.10														
	01/09/14		29.31	29.98	0.67	0.25					214.85														
	01/14/14		28.57	30.94	2.37	1.50					215.12														
	01/16/14		29.69	31.11	1.22	1.00					214.12														
	01/20/14		28.59	29.01	0.42	2.00					215.64														
	01/27/14		28.36	31.29	2.93	1.00					215.18														
	01/31/14		28.40	30.31	1.91	1.50					215.42														
	02/03/14		28.61	29.74	1.13	3.25					215.43														
	02/06/14		28.68	29.83	1.15	3.00					215.35														
	02/10/14		30.11	31.08	0.97	3.00					215.97														
	02/12/14		28.46	30.69	2.23	3.75					215.27														
	02/14/14		28.36	30.78	2.42	1.50					215.32														
	02/18/14		28.79	29.49	0.70	0.10					215.37														
	02/20/14		28.63	28.93	0.30	0.10					215.64														
	02/24/14		28.52	29.32	0.80	0.20					215.61														
	02/26/14		28.51	29.03	0.52	0.30					215.70														
	02/28/14		28.44	28.98	0.54	0.20					215.76														
	03/04/14		28.25	28.78	0.53	0.35					215.95														
	03/06/14		28.22	28.67	0.45	0.50					216.01														
	03/10/14		28.12	28.54	0.42	0.05					216.11														
	03/12/14		28.09	28.34	0.25	0.05					216.19														
	03/19/14		27.58	27.64	0.06	0.10					216.75														
	03/28/14		28.00	28.13	0.13	0.05					216.31														
	04/08/14		27.95	27.95	0.00	0.00					216.40														
	04/21/14		27.51	27.81	0.30	0.35					216.76														
	04/30/14		27.64	27.64	0.00	0.00					216.71	500.0	1100.0	440.0	1000.0	230.0	<10	51.0	58.0	46.0	110.0	3564.0	8.70	3.40	
	05/12/14		26.82	26.82	0.00	0.00					217.53														
	05/15/14		26.81	26.81	0.00	0.00					217.54														
	06/23/14		26.09	26.09	0.00	0.00					218.26														
	08/30/14		26.00	26.00	0.00	0.00					218.35	218.0	450.0	250.0	540.0	92.0	<50	<50	<50	<50	<100	1512.0	7.10	7.60	
	07/30/14		26.16	26.16	0.00	0.00					218.19														
	08/20/14		26.12	26.12	0.00	0.00					218.23														
	09/09/14		26.12	26.12	0.00	0.00					218.23	99.0	320.0	230.0	430.0	53.0	<50	<50	70.0	<50	<100	1202.0	9.40	2.40	
	09/15/14		26.17	26.17	0.00	0.00					218.18														
	09/25/14		26.21	26.21	0.00	0.00					218.14														
	10/03/14		26.20	26.20	0.00	0.00					218.15														
	10/15/14		26.20	26.20	0.00	0.00					218.15														
	10/22/14		26.24	26.24	0.00	0.00					218.11														
	11/04/14		26.20	26.20	0.00	0.00					218.15														
	11/13/14		26.24	26.24	0.00	0.00					218.11														
	11/21/14		26.25	26.25	0.00	0.00					218.10														
	12/04/14		26.30	26.30	0.00	0.00					218.05	5.0	<10	250.0	400.0	<50	<50	<50	<50	<50	<100	684.0	5.70	1.40	
	12/11/14		26.23	26.23	0.00	0.00					218.12														
	12/22/14	244.35	34.10	26.13	26.13	0.00	0.00				218.22														
	01/05/15		25.97	25.97	0.00	0.00					218.38														
	01/14/15		26.97	26.97	0.00	0.00					217.38														
	01/26/15		25.91	25.91	0.00	0.00					218.44														
	01/30/15		26.41	26.41	0.00	0.00					217.94														
	02/04/15		25.82	25.82	0.00	0.00					218.53														
	02/13/15		25.81	25.81	0.00	0.00					218.54	0.5	<1	63.0	89.0	6.0	<5	<5	25.0	31.0	17.0	31.0	353.0	3.60	3.90
	02/26/15		25.84	25.84	0.00	0.00					218.51														
	03/04/15		25.92	25.92	0.00	0.00					218.43														
	03/16/15		25.85	25.85	0.00	0.00					218.50														
	03/20/15		24.89	24.89	0.00	0.00					219.46														
	03/25/15		25.61	25.61	0.00	0.00					218.74														
	04/02/15		25.52	25.52	0.00	0.00					218.83														
	04/10/15		25.46	25.46	0.00	0.00					218.89	9.0	<1	110.0	130.0	<5	<5	25.0	31.0	17.0	31.0	353.0	3.60	1.70	
	04/17/15		25.45	25.45	0.00	0.00					218.90														
	04/30/15		25.34	25.34	0.00	0.00					219.01														
	05/26/15		25.52	25.52	0.00	0.00					218.83														
	06/01/15		25.58	25.58	0.00	0.00					218.77														
	06/05/15		25.52	25.52	0.00	0.00					218.83														
	06/18/15		25.49	25.49	0.00	0.00					218.86														
	06/30/15		25.51	25.51	0.00	0.00					218.84	11.0	8.0	52.0	80.0	<5	<5	22.0	37.0	11.0	19.0	240.0	3.00	2.40	
	07/17/15		25.09	25.09	0.00	0.00					219.26														
	08/21/15		25.52	25.52	0.00	0.00					218.83</td														

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)		
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclohexane	Methyl-cyclohexane	Cumene	Naphthalene	VOC	GRO	DRO
	01/16/17			26.32	26.32	0.00	0.00	36.35	218.03													
	01/23/17			26.23	26.23	0.00	0.00	36.35	218.12													
	02/03/17			26.32	26.32	0.00	0.00	36.35	218.03													
	02/17/17			26.27	26.27	0.00	0.00	36.35	218.08													
	02/21/17			26.21	26.21	0.00	0.00	36.35	218.14	0.5	<1	11.0	10.0	<5	<5	6.0	15.0	<5	<10	42.5	1.50	1.50
	03/13/17			26.33	26.33	0.00	0.00	36.35	218.02													
	03/27/17			26.24	26.24	0.00	0.00	36.35	218.11													
	04/24/17			25.86	25.86	0.00	0.00	36.35	218.49													
	05/01/17			25.84	25.84	0.00	0.00	36.35	218.51													
	05/09/17			25.78	25.78	0.00	0.00	36.35	218.57	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	0.81	3.70
	05/12/17			25.76	25.76	0.00	0.00	36.35	218.59													
	05/23/17			25.66	25.66	0.00	0.00	36.35	218.69													
	05/30/17			25.58	25.58	0.00	0.00	36.35	218.77													
	06/07/17			25.47	25.47	0.00	0.00	36.35	218.88													
	06/13/17			25.43	25.43	0.00	0.00	36.35	218.92													
	06/27/17			25.47	25.47	0.00	0.00	36.35	218.86													
	07/19/17			25.60	25.60	0.00	0.00	36.35	218.75													
	07/27/17			25.52	25.52	0.00	0.00	36.35	218.83													
	08/02/17			25.62	25.62	0.00	0.00	36.35	218.73													
	08/18/17			25.38	25.38	0.00	0.00	36.35	218.97	37.0	<1	5.0	<5	<5	<5	<5	<5	<5	<10	42.0	0.27	0.87
	08/29/17			25.47	25.47	0.00	0.00	36.35	218.88													
	10/09/17			25.57	25.57	0.00	0.00	36.35	218.78													
	10/16/17			25.61	25.61	0.00	0.00	36.35	218.74													
	10/25/17			25.64	25.64	0.00	0.00	36.35	218.71													
	11/02/17			25.71	25.71	0.00	0.00	36.35	218.64													
	11/08/17			25.73	25.73	0.00	0.00	36.35	218.62	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	0.28	1.20
	11/20/17			25.71	25.71	0.00	0.00	36.35	218.64													
	11/27/17			25.76	25.76	0.00	0.00	36.35	218.59													
	12/08/17			25.80	25.80	0.00	0.00	36.35	218.55													
	12/13/17			25.82	25.82	0.00	0.00	36.35	218.53													
	12/22/17			25.88	25.88	0.00	0.00	36.35	218.47													
	01/02/18			25.92	25.92	0.00	0.00	36.35	218.43													
	01/15/18			26.00	26.00	0.00	0.00	36.35	218.35													
	01/29/18			26.05	26.05	0.00	0.00	36.35	218.30													
	02/22/18			26.03	26.03	0.00	0.00	36.35	218.32	0.5	<1	<1	<5	<5	<5	<5	6.0	<5	<10	71.0	1.10	0.92
	03/22/18			26.05	26.05	0.00	0.00	36.35	218.30													
	03/30/18			25.62	25.62	0.00	0.00	36.35	218.73													
	04/10/18			25.59	25.59	0.00	0.00	36.35	218.76	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	0.29	0.56
	04/24/18			25.33	25.33	0.00	0.00	36.35	219.02													
	05/29/18			25.05	25.05	0.00	0.00	36.35	219.30													
	06/13/18			24.85	24.85	0.00	0.00	36.35	219.50													
	06/18/18			24.82	24.82	0.00	0.00	36.35	219.53													
	06/28/18			24.86	24.86	0.00	0.00	36.35	219.49													
	07/03/18			24.90	24.90	0.00	0.00	36.35	219.45	0.5	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.5	0.57	1.10
	07/12/18			25.02	25.02	0.00	0.00	36.35	219.33													
	07/25/18			24.98	24.98	0.00	0.00	36.35	219.37													
	08/06/18			24.56	24.56	0.00	0.00	36.35	219.79													
	08/31/18			24.78	24.78	0.00	0.00	36.35	219.57													
	09/26/18			24.72	24.72	0.00	0.00	36.35	219.63													
	10/08/18			24.68	24.68	0.00	0.00	36.35	219.67	37.0	7.0	10.0	<5	<5	12.0	21.0	20.0	<5	13.0	651.0	0.99	0.96
	11/06/18			24.60	24.60	0.00	0.00	36.35	219.75													
	03/19/19			24.80	24.80	0.00	0.00	36.35	219.55	1.4	6.8	1.6	5.9	2.6	0.4			0.9	19.6	<0.2	1.60	
	06/11/19			25.05	25.05	0.00	0.00	36.35	219.30	0.3	<1	5.0	3.2	<1	<1			4.0	12.5	1.27	1.90	
	09/12/19			25.34	25.34	0.00	0.00	36.35	219.01	15.6	0.6	8.6	4.6	0.7	0.7			5.0	53.4	1.64	2.20	
	12/10/19			25.89	25.89	0.00	0.00	36.35	218.46	3.2	0.5	5.6	3.5	0.1	0.3			4.6	17.7	1.25	0.89	
	03/18/20			25.54	25.54	0.00	0.00	36.35	218.81	0.5	<1	2.0	<2	<1	<1			4.5	2.5	86.6	<2	0.67
	05/27/20			25.13	25.13	0.00	0.00	36.35	219.22	0.5	<1	3.2	1.4	<1	<1			4.8	2.9	102.5	1.37	0.09
	08/27/20			24.64	24.64	0.00	0.00	36.35	219.71	22.3	<1	2.0	<2	<1	2.7			2.8	68.4	0.31	1.30	
	11/24/20			24.57	24.57	0.00	0.00	36.35	219.78	0.5	<1	2.0	<2	<1	0.5			<2	2.0	<0.2	0.85	
	02/10/21			25.44	25.44	0.00	0.00	36.35	218.91	0.5	<1	3.3	<2	<1	0.5			<2	3.3	1.00	1.90	
	04/28/21			25.37	25.37	0.00	0.00	36.35	219.98	0.5	<1	1.1	<2	<1	0.5			1.8	2.9	0.59	0.76	
	07/12/21			25.87	25.87	0.00	0.00	36.35	218.48	0.5	0.4	1.0	<2	<1	0.5			1.6	46.8	0.58	1.70	
	10/07/21			26.29	26.29	0.00	0.00	36.35	218.06	5.0	<1	1.1	<2	<1	0.3			2.6	13.1	0.86	1.20	
	04/13/22			26.52	26.52	0.00	0.00	36.35	217.83	0.9	<1	1.4	<2	<1	<1			2.5	97.4	1.39	2.80	
	05/25/22			26.18	26.18	0.00	0.00	36.35	218.17													
	06/01/22			26.11	26.11	0.00	0.00	36.35	218.24													
	06/07/22																					

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)										
										Feet (ft)										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclo-hexane	Methyl-cyclo-hexane	Cumene	Naphthalene	VOC
MW8	04/17/13	34.11	244.88	Clear	33.22				211.66																					
	04/29/13			Clear	33.30				211.58	1500.0	900.0	1600.0	4100.0	490.0	<100	<500	<500	<100	<1000	8590.0	18.00	4.20								
	08/09/13			Clear	33.29				211.59	1300.0	2300.0	2800.0	8300.0	2300.0	<50	<250	<250	<170.0	1200.0	18370.0	46.00	12.00								
	11/14/13			Clear	33.29				211.59																					
	12/03/13			DRY	34.10				210.78																					
	12/11/13			DRY	34.10				210.78																					
	02/06/14			Clear	33.40				211.48																					
	04/30/14			Clear	33.36				211.52	670.0	150.0	770.0	2300.0	340.0	<10	<50	55.0	71.0	670.0	5026.0	17.00	190.00								
	06/23/14			Clear	34.00				210.79																					
	06/30/14			Clear	34.02				210.77	5.0	<10	510.0	1600.0	260.0	<50	<50	<50	<50	<50	220.0	2595.0	10.00	5.10							
	07/30/14			Clear	34.35				210.44																					
	08/20/14			Clear	34.51				210.28																					
	09/08/14			Clear	34.79				210.00	0.5	<1	6.0	10.0	<5	<5	<5	<5	<5	<10	16.5	0.38	0.80								
	09/15/14			Clear	34.87				209.92																					
	09/25/14			Clear	35.00				209.79																					
	10/03/14			Clear	35.10				209.69																					
	10/15/14			Clear	35.22				209.57																					
	10/22/14			Clear	35.31				209.48																					
	11/04/14			Clear	35.42				209.37																					
	11/13/14			Clear	35.56				209.23																					
	11/21/14			Clear	35.65				209.14																					
	12/04/14			Clear	35.71				209.08	0.5	<1	19.0	14.0	<5	<5	<5	<5	<5	<5	57.0	90.5	<0.2	0.73							
	12/11/14			Clear	35.79				209.00																					
	12/22/14			Clear	35.83				208.96																					
	01/05/15			Clear	35.87				208.92																					
	01/14/15			Clear	35.88				208.91																					
	01/26/15			Clear	35.12				209.67																					
	01/30/15			Clear	34.45				209.52																					
	02/04/15			Clear	35.26				209.53																					
	02/13/15			Clear	36.00				208.79	6.0	<1	26.0	20.0	21.0	<5	5.0	<5	<5	<5	25.0	103.0	1.30	1.70							
	02/20/15			Clear	36.03				208.76																					
	02/26/15			Clear	36.02				208.77																					
	03/04/15			Clear	36.06				208.73																					
	03/16/15			Clear	36.04				208.75																					
	03/20/15			Clear	36.62				208.17																					
	03/25/15			Clear	35.87				208.92																					
	04/02/15			Clear	35.74				209.05																					
	04/10/15			Clear	35.64				209.15	53.0	<1	310.0	62.0	16.0	<5	<5	13.0	17.0	140.0	611.0	2.30	1.50								
	04/17/15			Clear	35.59				209.20																					
	04/30/15			Clear	35.54				209.25																					
	05/26/15			Clear	35.46				209.33																					
	06/01/15			Clear	35.47				209.32																					
	06/09/15			Clear	35.35				209.44																					
	06/18/15			Clear	35.29				209.50																					
	06/30/15			Clear	35.42				209.37	22.0	<1	380.0	170.0	18.0	<5	21.0	18.0	24.0	160.0	813.0	3.60	1.70								
	07/06/15			Clear	35.16				209.63																					
	07/17/15			Clear	34.86				209.93																					
	08/21/15			Clear	34.93				209.86																					
	09/08/15			Clear	35.14				209.65																					
	09/25/15			Clear	35.40				209.39																					
	10/16/15			Clear	35.21				209.58																					
	10/30/15			Clear	35.77				209.02																					
	11/05/15			Clear	35.83				208.96	11.0	<1	61.0	38.0	9.0	<5	11.0	8.0	<5	22.0	160.0	1.60	0.81								
	11/13/15			Clear	35.90				208.89																					
	12/18/15			Clear	36.25				208.54																					
	01/08/16			Clear	36.36				208.43	6.0	<1	47.0	36.0	<5	<5	<5	<5	<5	<5	32.0	121.0	0.87	3.10							
	01/19/16			Clear	35.94				208.85																					
	02/26/16			Clear	36.01				208.78																					
	03/14/16			Clear	35.69				209.10	7.0	<1	<1	<5	<5	<5	<5	<5	8.0	6.0	<5	<10	21.0								
	04/01/16			Clear	35.54				209.25	14.0	3.0	130.0	300.0	31.0	<5	8.0	8.0	8												



Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/L}$ )										Milligrams per Liter (mg/L)			
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclohexane	Methyl-cyclohexane	Cumene	Naphthalene	VOC	GRO	DRO	
										Feet (ft)													
	04/17/13			Clear	36.03					207.46													
	04/29/13			35.55	35.55	0.00	0.00	0.00	207.94														
	08/09/13			35.10	35.10	0.01	0.00	0.00	208.39	6500.0	52000.0	6800.0	21000.0	9500.0	240.0	300.0	810.0	630.0	1700.0	99480.0	170.00	160.00	
	11/14/13			35.95	36.08	0.13	0.05	0.05	207.50	1800.0	15000.0	3200.0	9200.0	3900.0	160.0	130.0	110.0	220.0	610.0	34598.0	50.00	45.00	
	12/03/13			36.04	36.04	0.00	0.00	0.05	207.45														
	12/11/13			36.12	36.13	0.01	0.00	0.05	207.37														
	12/19/13			36.04	36.04	0.00	0.00	0.05	207.45														
	01/14/14			Clear	35.85					207.64													
	01/16/14			Clear	35.90					207.59													
	01/20/14			Clear	35.85					207.64													
	01/27/14			Clear	35.80					207.69													
	01/31/14			Clear	35.77					207.72													
	02/03/14			Clear	35.71					207.78													
	02/06/14			Clear	35.73					207.76													
	02/10/14			Clear	35.69					207.80													
	02/12/14			Clear	35.81					207.68													
	02/14/14			Clear	35.62					207.87													
	02/18/14			Clear	35.56					207.93	690.0	2200.0	800.0	3400.0	1500.0	630.0	91.0	93.0	83.0	330.0	21894.0	27.00	6.40
	02/20/14			Clear	35.58					207.91													
	02/24/14			Clear	35.60					207.89													
	02/26/14			Clear	35.60					207.89													
	02/28/14			Clear	35.65					207.84													
	03/04/14			Clear	35.76					207.73													
	03/06/14			Clear	35.42					208.07													
	03/10/14			Clear	35.28					208.21													
	03/12/14			Clear	35.38					208.11													
	03/19/14			Clear	35.26					208.23													
	03/28/14			Clear	35.04					208.45													
	04/08/14			Clear	34.89					208.60													
	04/21/14			Clear	34.69					208.80													
	04/30/14			Clear	34.56					208.93	190.0	750.0	330.0	1600.0	920.0	93.0	<50	100.0	74.0	240.0	4297.0	12.00	10.00
	05/12/14			Clear	34.21					209.28													
	05/15/14			Clear	34.09					209.40													
	06/23/14			Clear	33.06					210.43													
	06/30/14			Clear	33.45					210.04	25.0	1200.0	<50	820.0	450.0	<250	<250	<250	<500	<500	2495.0	51.00	39.00
	07/30/14			Clear	33.75					209.74													
	08/20/14			Clear	33.09					210.40													
	09/08/14			Clear	34.10					209.39	140.0	600.0	90.0	360.0	180.0	<50	<50	<50	<50	130.0	1500.0	5.70	5.80
	09/15/14			Clear	34.27					209.22													
	09/25/14			Clear	34.40					209.09													
	10/03/14			Clear	34.50					208.99													
	10/15/14			Clear	34.70					208.79													
	10/22/14			Clear	34.75					208.74													
	11/04/14			Clear	34.90					208.59													
	11/13/14			Clear	34.96					208.53													
	11/21/14			Clear	35.12					208.37													
	12/04/14			Clear	35.20					208.29	25.0	690.0	<50	630.0	360.0	<250	<250	<250	<500	1705.0	110.00	18.00	
	12/11/14			Clear	35.26					208.23													
	12/22/14			Clear	35.34					208.15													
	01/05/15			Clear	35.12					208.37													
	01/14/15			Clear	35.14					208.35													
	01/26/15		40.50	MW9	Clear	34.82					208.67												
	01/30/15	243.49		Clear	34.72					208.77													
	02/04/15			Clear	35.47					208.02													
	02/13/15			Clear	35.55					207.94	180.0	690.0	66.0	390.0	270.0	<50	<50	<50	<50	1596.0	60.00	13.00	
	02/20/15			Clear	35.59					207.90													
	02/26/15			Clear	35.52					207.97													
	03/04/15			Clear	35.38					208.11													
	03/16/15			Clear	35.48					208.01													
	03/20/15			Clear	35.94					207.55													
	03/25/15			Clear	35.19					208.30													
	04/02/15			Clear	35.12					208.37													
	04/10/15			Clear	35.03					208.46	130.0	220.0	56.0	180.0	95.0	<50	<50	<50	<50	681.0	4.90	3.80	
	04/17/15			Clear	34.99					208.50													
	04/30/15			Clear	35.12					208.37													
	05/26/15			Clear	35.12					208.37													
	06/01/15			Clear	35.09					208.40													
	06/09/15			Clear	34.98					208.71													
	06/19/15			Clear	34.78					208.73													
	06/30/15			Clear	34.89					208.60	190.0	460.0	<10	280.0	260.0	75.0	<50	<50	<50	<100	1265.0	5.50	15.00
	07/06/15			Clear	34.84					208.65													
	07/17/15			Clear	34.54					208.95													
	08/21/15			Clear	34.21					209.28													
	08/09/15			Clear	34.62					208.87													
	08/29/15			Clear	34.85					208.64													
	10/16/15			Clear	34.56					208.93													
	10/30/15			Clear	35.25					208.24													
	11/05/15			Clear	35.28					208.21	100.0	200.0	24.0	150.0	150.0	93.0</td							

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)			
										Benzene	Toluene	Ethylbenzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclohexane	Methylcyclohexane	Cumene	Naphthalene	VOC	GRO	DRO	
										Feet (ft)													
	01/09/17			36.92	36.92	0.00	0.00	1.05	206.57														
	01/16/17			36.93	36.98	0.05	0.07	1.11	206.55														
	01/23/17			36.93	36.99	0.06	0.08	1.19	206.54														
	02/03/17			37.01	37.05	0.04	0.05	1.24	206.47														
	02/15/17			37.03	37.08	0.05	0.07	1.31	206.45														
	02/17/17			37.08	37.08	0.00	0.00	1.31	206.41														
	02/21/17			37.09	37.09	0.00	0.00	1.31	206.40	50.0	230.0	<100	770.0	<500	<500	<500	<500	<1000	1050.0	8.60	260.00		
	03/13/17			37.16	37.17	0.01	0.01	1.32	206.33														
	03/27/17			37.24	37.26	0.02	0.03	1.35	206.24														
	04/24/17			37.03	37.03	0.00	0.00	1.35	206.46														
	05/01/17			37.05	37.05	0.00	0.00	1.35	206.44														
	05/09/17			37.02	37.02	0.00	0.00	1.35	206.47	9.0	25.0	14.0	97.0	52.0	8.0	9.0	12.0	5.0	31.0	262.0	2.30	30.00	
	05/12/17			36.97	36.97	0.00	0.00	1.35	206.52														
	05/23/17			36.72	36.72	0.00	0.00	1.35	206.77														
	05/30/17			36.58	36.58	0.00	0.00	1.35	206.91														
	06/07/17			36.81	36.81	0.00	0.00	1.35	206.68														
	06/13/17			36.73	36.73	0.00	0.00	1.35	206.76														
	06/27/17			36.42	36.42	0.00	0.00	1.35	207.07														
	07/11/17			36.48	36.48	0.00	0.00	1.35	207.01														
	07/19/17			36.05	36.05	0.00	0.00	1.35	207.44														
	07/27/17			35.78	35.78	0.00	0.00	1.35	207.71														
	08/02/17			35.87	35.87	0.00	0.00	1.35	207.62														
	09/18/17			35.78	35.78	0.00	0.00	1.35	207.71	530.0	1400.0	470.0	2300.0	970.0	<500	<500	<500	<1000	5670.0	46.00	510.00		
	09/29/17			36.03	36.03	0.00	0.00	1.35	207.46														
	10/09/17			36.03	36.03	0.00	0.00	1.35	207.46														
	10/16/17			36.26	36.26	0.00	0.00	1.35	207.24														
	10/25/17			35.98	35.98	0.00	0.00	1.35	207.51														
	11/02/17			36.28	36.28	0.00	0.00	1.35	207.21														
	11/08/17			36.24	36.24	0.00	0.00	1.35	207.25	89.0	420.0	110.0	1400.0	970.0	<100	<100	160.0	<100	620.0	3769.0	21.00	300.00	
	11/20/17			36.45	36.45	0.00	0.00	1.35	207.04														
	11/22/17			36.62	36.62	0.00	0.00	1.35	206.67														
	11/27/17			36.45	36.45	0.00	0.00	1.35	207.04														
	12/08/17			36.53	36.53	0.00	0.00	1.35	206.96														
	12/13/17			36.56	36.56	0.00	0.00	1.35	206.93														
	12/22/17			36.60	36.60	0.00	0.00	1.35	206.89														
	01/02/18			36.58	36.58	0.00	0.00	1.35	206.91														
	01/15/18			36.79	36.79	0.00	0.00	1.35	206.70														
	01/29/18			36.92	36.92	0.00	0.00	1.35	206.57														
	02/22/18			36.89	36.89	0.00	0.00	1.35	206.60	85.0	340.0	88.0	960.0	450.0	<100	<100	290.0	<100	420.0	2633.0	730.00	120.00	
	03/22/18			36.32	36.32	0.00	0.00	1.35	207.17														
	03/30/18			37.08	37.08	0.00	0.00	1.35	206.41														
	04/10/18			36.94	36.94	0.00	0.00	1.35	206.55	0.5	<1	<1	17.0	28.0	11.0	<5	14.0	<5	30.0	100.0	24.00	30.00	
	04/24/18			37.04	37.04	0.00	0.00	1.35	206.45														
	05/29/18			36.51	36.51	0.00	0.00	1.35	206.98														
	06/13/18			36.20	36.20	0.00	0.00	1.35	207.29														
	06/18/18			36.24	36.24	0.00	0.00	1.35	207.25														
	06/28/18			35.72	35.72	0.00	0.00	1.35	207.77														
	07/03/18			35.90	35.90	0.00	0.00	1.35	207.59	9.0	25.0	79.0	90.0	37.0	14.0	14.0	<10	38.0	490.0	7.70	8.00		
	07/12/18			35.78	35.78	0.00	0.00	1.35	207.71														
	07/25/18			35.33	35.33	0.00	0.00	1.35	208.16														
	08/06/18			34.83	34.83	0.00	0.00	1.35	208.66														
	08/31/18			34.58	34.58	0.00	0.00	1.35	208.91														
	09/26/18			34.28	34.28	0.00	0.00	1.35	209.21														
	10/08/18			34.10	34.10	0.00	0.00	1.35	209.39	360.0	240.0	150.0	690.0	330.0	<50	<50	<50	<120.0	1890.0	2.80	7.00		
	11/06/18			35.09	35.09	0.00	0.00	1.35	208.40														
	03/19/19			33.27	33.27	0.00	0.00	1.35	210.22	89.5	27.5	57.6	146.0	57.2	10.7								
	06/11/19			33.71	33.71	0.00	0.00	1.35	209.78	5.1	1.6	6.5	9.8	<1	1.6								
	09/12/19			34.88	34.88	0.00	0.00	1.35	208.61	15.4	3.0	9.0	12.9	4.8	4.1								
	12/10/19			35.79	35.79	0.00	0.00	1.35	207.70	145.0	20.0	73.9	195.0	41.6	13.1								
	03/18/20			36.18	36.18	0.00	0.00	1.35	207.31	0.7	<1	9.0	2.9	0.8	8.3								
	05/27/20			35.90	35.90	0.00	0.00	1.35	207.59														
	08/27/20			35.70	35.70	0.00	0.00	1.35	207.79	137.0	76.5	100.0	307.0	108.0	16.0								
	11/24/21	243.49	40.50	35.58	35.58	0.00	0.00	1.35	207.91	78.5	24.8	48.3	43.7	204.0	90.9	9.7							
	04/28/21			35.06	35.06	0.00	0.00	1.35	208.43														
	07/12/21			35.50	35.50	0.00	0.00	1.35	207.99	118.0	17.0	85.7	195.0	75.4	30.1								
	07/21/21			35.06	35.06	0.00	0.00	1.35	207.34														
	08/17/21			36.12	36.12	0.00	0.00	1.35	207.37														
	08/24/21			36.19	36.19	0.00	0.00	1.35	207.30														
	09/01/21		</																				

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)				
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclohexane	Methyl-cyclohexane	Cumene	Naphthalene	VOC	GRO	DRO		
MW10	04/17/13	244.23	34.20	Clear	33.24				210.99															
	04/29/13			Clear	34.09				210.14															
	08/09/13			Clear	33.79				210.44															
	11/14/13			DRY	34.15				210.08															
	12/11/13			DRY	34.15				210.08															
	12/19/13			DRY	34.15				210.08															
	01/02/14			DRY	34.12				210.11															
	01/06/14			DRY	34.20				210.03															
	01/09/14			Clear	34.13				210.10															
	01/14/14			Clear	34.10				210.13															
	01/16/14			Clear	34.13				210.10															
	01/20/14			Clear	34.09				210.14															
	01/27/14			Clear	34.05				210.18															
	01/31/14			Clear	34.07				210.16															
	02/03/14			Clear	34.09				210.14															
	02/06/14			Clear	34.07				210.16															
	02/10/14			Clear	34.08				210.15															
	02/12/14			Clear	34.11				210.12															
	02/14/14			Clear	34.10				210.13															
	02/18/14			Clear	34.09				210.14															
	02/20/14			Clear	34.09				210.14															
	02/24/14			Clear	34.07				210.16															
	02/26/14			Clear	34.07				210.16															
	02/28/14			Clear	34.10				210.13															
	03/04/14			Clear	34.08				210.16															
	03/06/14			Clear	33.98				210.25															
	03/10/14			Clear	33.95				210.28															
	03/12/14			Clear	34.02				210.21															
	03/19/14			Clear	33.91				210.32															
	03/28/14			Clear	34.32				209.91															
	04/08/14			Clear	33.95				210.26															
	04/21/14			Clear	34.09				210.14															
	04/30/14			Clear	34.05				210.18															
	05/12/14			Clear	34.10				210.13															
	05/15/14			Clear	34.15				210.08															
	06/23/14	244.16	43.60	Clear	34.68				209.48															
	06/30/14			Clear	34.62				209.54	410.0	2700.0	770.0	2900.0	1100.0	<100	<100	<100	<100	<100	310.0	8190.0	2100	9.00	
	07/30/14			Clear	34.85				209.31															
	08/20/14			Clear	34.99				209.17															
	09/08/14			Clear	35.30				208.86	320.0	1100.0	360.0	1000.0	310.0	<100	<100	<100	<100	<100	<200	3090.0	8.70	2.60	
	09/15/14			Clear	35.35				208.81															
	09/25/14			Clear	35.51				208.65															
	10/03/14			Clear	35.62				208.54															
	10/15/14			Clear	35.10				209.06															
	10/22/14			Clear	35.87				208.29															
	11/04/14			Clear	36.02				208.14															
	11/13/14			Clear	36.12				208.04															
	11/21/14			Clear	36.21				207.95															
	12/04/14			Clear	36.30				207.86	230.0	1000.0	150.0	1100.0	420.0	<100	<100	<100	<100	<100	<200	2900.0	11.00	2.50	
	12/11/14			Clear	36.38				207.78															
	12/22/14			Clear	36.43				207.73															
	01/05/15			Clear	36.44				207.72															
	01/14/15			Clear	36.55				207.61															
	01/26/15			Clear	36.17				207.99															
	01/30/15			Clear	36.25				207.91															
	02/04/15			Clear	36.50				207.66															
	02/13/15			Clear	36.33				207.83	580.0	2200.0	280.0	2000.0	720.0	<50	<50	<50	<50	<50	<50	180.0	5960.0	15.00	3.60
	02/20/15			Clear	36.59				207.57															
	02/26/15			Clear	36.51				207.65															
	03/20/15			Clear	36.72				207.44															
	03/25/15			Clear	36.44				207.72															
	04/02/15			Clear	36.37				207.79															
	04/10/15			Clear	36.24				207.92	100.0	140.0	<10	220.0	140.0	<50	<50	<50	<50	<50	<50	600.0	2.90	2.40	
	04/17/15			Clear	36.28				207.88															
	04/30/15			Clear	36.13				208.03															
	05/26/15			Clear	35.91				208.25															
	06/01/15			Clear	35.87				208.29															
	06/09/15			Clear	35.74				208.42															
	06/18/15			Clear	35.54				208.62															
	06/30/15			Clear	35.87				208.29	650.0	1200.0	510.0	1900.0	460.0	<50	<50	<50	<50	<50	150.0	4870.0	4.40	3.70	
	07/06/15			Clear	35.56				208.60															
	07/17/15			Clear	35.14				209.02															
	08/21/15			Clear	34.77				209.39															
	08/09/15			Clear	35.01				209.15															
	08/29/15																							





Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)		
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclo-hexane	Methyl-cyclo-hexane	Cumene	Naphthalene	VOC	GRO	DRO
										Feet (ft)												
	04/17/13			Clear	26.61				218.62													
	04/29/13			Clear	26.98				218.25	<1	<1	<1	<2	<1	<1	<5	<5	<1	<10	0.0	<0.2	0.31
	08/09/13			Clear	27.33				217.90	<1	<1	<1	<2	<1	<1	<5	<5	<1	<10	0.0	<0.2	0.33
	11/14/13			Clear	27.35				217.88	<1	<1	<1	<2	<1	<1	<5	<5	<1	<10	0.0	<0.2	<0.22
	12/03/13			Clear	27.93				217.30													
	02/06/14			Clear	27.10				218.13	<1	<1	<1	<2	<1	<1	<5	<5	<1	<10	0.0	<0.2	<0.25
	04/30/14			Clear	26.85				218.38	<1	<1	<1	2.0	<1	<1	<5	<5	<1	<10	2.0	0.25	0.42
	06/30/14			Clear	26.21				219.02	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.23
	07/30/14			Clear	26.99				218.24													
	08/20/14			Clear	27.01				218.22													
	09/08/14			Clear	27.11				218.12	<1	<1	8.0	23.0	6.0	<5	<5	<5	<5	<10	37.0	<0.2	<0.22
	09/15/14			Clear	27.13				218.10													
	09/25/14			Clear	27.13				218.10													
	10/03/14			Clear	27.19				218.04													
	10/15/14			Clear	27.20				218.03													
	10/22/14			Clear	27.26				217.97													
	11/04/14			Clear	27.28				217.95													
	11/13/14			Clear	27.36				217.87													
	11/21/14			Clear	27.46				217.77													
	12/04/14			Clear	27.40				217.83	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	0.29	0.30
	12/22/14			Clear	27.24				217.99													
	01/05/15			Clear	27.20				218.03													
	01/14/15			Clear	27.54				217.69													
	01/26/15			Clear	27.84				217.39													
	01/30/15			Clear	27.63				217.60													
	02/04/15			Clear	27.00				218.23													
	02/13/15			Clear	27.10				218.13	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	0.20	0.28
	02/26/15			Clear	26.38				218.25													
	03/04/15			Clear	27.14				218.09													
	03/20/15			Clear	27.12				218.11													
	03/25/15			Clear	26.67				218.36													
	04/02/15			Clear	26.80				218.43													
	04/10/15			Clear	26.61				218.62	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	0.25
	04/30/15			Clear	26.49				218.74													
	05/26/15			Clear	26.68				218.55													
	06/01/15			Clear	26.67				218.56													
	06/09/15			Clear	26.25				218.98													
	06/18/15			Clear	26.66				218.57													
	06/30/15			Clear	26.18				219.05	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	0.27
	07/06/15			Clear	26.42				218.81													
	07/17/15			Clear	26.33				218.90													
	08/21/15			Clear	26.72				218.51													
	09/08/15			Clear	26.96				218.27													
	09/25/15			Clear	27.08				218.15													
	10/16/15			Clear	26.85				218.38													
	10/30/15			Clear	27.21				218.02													
	11/05/15			Clear	27.17				218.06	3.0	<1	<1	7.0	<5	<5	<5	<5	<5	<10	10.0	<0.2	<0.23
	11/13/15			Clear	27.22				218.01													
	12/18/15			Clear	27.26				217.97													
	01/08/16			Clear	27.07				218.16	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.22
	01/19/16			Clear	27.15				218.08													
	02/06/16			Clear	26.78				218.45													
	03/14/16	245.23	34.70	Clear	26.31				218.92													
	04/01/16			Clear	26.24				218.99	<1	3.0	<1	8.0	<5	<5	<5	<5	<5	<10	11.0	0.35	0.47
	04/21/16			Clear	26.54				218.69													
	05/13/16			Clear	26.50				218.73													
	06/08/16			Clear	26.40				218.83	<1	<1	7.0	25.0	7.0	<5	<5	<5	<5	<21	60.0	0.95	0.57
	07/14/16			Clear	26.75				218.48													
	08/08/16			Clear	26.86				218.37													
	08/18/16			Clear	26.52				218.71													
	08/24/16			Clear	26.90				218.33													
	08/30/16			Clear	26.85				218.38	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.21
	09/06/16			Clear	26.88				218.35													
	09/15/16			Clear	26.87				218.36													
	09/28/16			Clear	26.94				218.29													
	10/05/16			Clear	27.00				218.23													
	10/11/16			Clear	27.04				218.19													
	11/23/16			Clear	27.31				217.92													
	12/06/16			Clear	27.30				217.93	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.2
	12/16/16			Clear	27.34				217.89													
	01/09/17			Clear	27.44				217.79													
	01/16/17			Clear	27.42				217.81													
	01/23/17			Clear	27.26				217.97													
	02/03/17			Clear	27.47				217.76													
	02/17/17			Clear	27.41				217.82													
	02/21/17			Clear	27.36				217.87	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.2
	03/13/17			Clear	27.50				2													

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)		
										Benzene	Toluene	Ethylnitrobenzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclohexane	Methylcyclohexane	Cumene	Naphthalene	VOC	GRO	DRO
	02/22/18			Clear	27.13				218.10	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	0.40	<0.2
	03/22/18			Clear	27.16				218.07													
	03/30/18			Clear	26.73				218.50													
	04/10/18			Clear	26.62				218.61	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.2
	04/24/18			Clear	26.65				218.58													
	05/29/18			Clear	26.32				218.91													
	06/13/18			Clear	26.00				219.23													
	06/18/18			Clear	25.98				219.25													
	06/28/18			Clear	25.96				219.27													
	07/03/18			Clear	25.98				219.25	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	<0.2	<0.2
	07/12/18			Clear	26.24				218.99													
	07/25/18			Clear	26.20				219.03													
	08/06/18			Clear	25.76				219.47													
	08/31/18			Clear	25.93				219.30													
	09/26/18			Clear	25.65				219.58													
	10/08/18			Clear	25.90				219.33	<1	<1	3.0	<5	<5	<5	<5	<5	<5	<10	3.0	<0.2	<0.2
	11/06/18			Clear	25.60				219.63													
	03/19/19			Clear	26.02				219.21	<1	<1	0.5	<2	<1	<1				<2	0.5	<0.2	<0.099
	06/11/19			Clear	26.24				218.99	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	0.06
	09/12/19			Clear	26.68				218.55	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	0.10
	12/10/19			Clear	26.94				218.29	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	<0.1
	03/18/20			Clear	26.75				218.48	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	0.17
	05/27/20			Clear	26.28				218.95	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	0.09
	08/27/20			Clear	25.65				219.58	<1	<1	23.0	35.7	34.1	<1				9.5	155.9	0.17	0.12
	11/24/20			Clear	25.69				219.54	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	0.07
	02/10/21			Clear	26.68				218.55	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	0.08
	04/28/21			Clear	26.54				218.69	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	<0.11
	07/12/21			Clear	27.05				218.16	0.6	1.4	0.7	1.9	0.8	<1			<2	10.7	<0.2	0.15	
	10/07/21			Clear	27.43				217.80	<1	<1	<1	<2	<1	<1				<2	0.0	<0.2	<0.096
	04/13/22			Clear	27.61				217.62	<1	<1	<1	<2	<1	<1				<2	2.7	<0.2	0.11
	05/25/22			Clear	27.33				217.90													
	06/01/22			Clear	27.25				217.98													
	06/07/22			Clear	27.14				218.09													
	06/22/22			Clear	27.14				218.09													
	06/30/22			Clear	27.20				218.03													
	07/06/22			Clear	27.15				218.08													
	07/15/22			Clear	27.22				218.01	<1	<1	<1	<2	<1	<1				<4	0.0	<0.2	0.10
	07/20/22			Clear	27.17				218.06													
	07/29/22			Clear	27.22				218.01													
	08/04/22			Clear	27.25				217.98													
	08/09/22			Clear	27.25				217.98													
	08/17/22			Clear	27.32				217.91													
	08/24/22			Clear	27.35				217.88													
	09/01/22			Clear	27.41				217.82													
	09/07/22	245.23	34.70	Clear	27.60				217.63	<1	<1	<1	<2	<1	<1				<4	0.0	<0.2	0.20
	11/04/22			Clear	27.79				217.44													
	12/16/22			Clear	27.69				217.54													
	01/12/23			Clear	27.78				217.45	<1	<1	<1	<2	<1	<1				<4	0.0	<0.2	<0.11
	03/09/23			Clear	27.74				217.49													
	04/14/23			Clear	27.68				217.55													
	05/18/23			Clear	27.61				217.62	<1	<1	<1	<2	<1	<1				<4	0.0	<0.2	<0.099
	06/21/23			Clear	27.53				217.70													
	07/13/23			Clear	27.62				217.61													
	07/21/23			Clear	27.57				217.66													
	07/28/23			Clear	27.64				217.59													
	08/04/23			Clear	27.58				217.65													
	08/11/23			Clear	27.59				217.64													
	08/23/23			Clear	27.56				217.67													
	09/01/23			Clear	27.66				217.57													
	09/07/23			Clear	27.57				217.66													
	09/13/23			Clear	27.62				217.61													
	09/22/23			Clear	27.57				217.36													
	09/27/23			Clear	27.91				217.32	<1	<1	<1	<2	<1	<1				<4	0.0	<0.2	0.10
	10/05/23			Clear	27.94				217.29													
	10/12/23			Clear	28.00				217.23													
	10/19/23			Clear	28.04				217.19													
	10/26/23			Clear	28.09				217.14													
	11/01/23			Clear	28.17				217.08													
	11/10/23			Clear	28.23				217.00													
	11/16/23			Clear	28.24				216.99													
	11/22/23			Clear	28.22				217.01													
	11/29/23			Clear	28.35				216.88													
	12/13/23			Clear	28.44				216.79	<1	<1	<1	<2	<1	<1				<4	0.0	<0.2	<0.21
	12/29/23			Clear	28.27				216.96													
	01/05/24			Clear	28.25				216.98													
	01/12/24			Clear	28.17				217.06													
	01/26/24			Clear	27.85				217.38													
	02/02/24			Clear	27.82				217.41	</												



Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	<i>o</i> -Xylenes	MTBE	Cyclohexane	Methyl-cyclohexane	Cumene	Naphthalene	VOC	GRO	DRO		
										Micrograms Per Liter ( $\mu\text{g/l}$ )												Milligrams per Liter (mg/l)		
						Feet (ft)																		
	12/06/16			30.31	30.31	0.00	0.00	6.34	213.16	50.0	<100	440.0	1600.0	<500	<500	<500	<500	<500	<1000	2090.0	10.00	48.00		
	12/16/16			30.60	30.60	0.00	0.00	6.34	212.87															
	01/09/17			28.84	28.84	0.00	0.00	6.34	214.63															
	01/16/17			28.90	28.90	0.00	0.00	6.34	214.57															
	01/23/17			28.58	28.58	0.00	0.00	6.34	214.89															
	02/03/17			28.53	28.53	0.00	0.00	6.34	214.94															
	02/15/17			28.31	28.31	0.00	0.00	6.34	215.16															
	02/17/17			31.02	31.02	0.00	0.00	6.34	212.45															
	02/21/17			29.71	29.71	0.00	0.00	6.34	213.76	50.0	<100	630.0	2600.0	<500	<500	<500	<500	<500	<1000	3280.0	11.00	24.00		
	03/13/17			28.73	28.73	0.00	0.00	6.34	214.74															
	03/27/17			28.20	28.20	0.00	0.00	6.34	215.27															
	04/24/17			26.64	26.64	0.00	0.00	6.34	216.83															
	05/01/17			26.56	26.56	0.00	0.00	6.34	216.92															
	05/09/17			26.47	26.47	0.00	0.00	6.34	217.00	78.0	<10	340.0	810.0	94.0	<50	<50	51.0	<50	140.0	1513.0	7.50	6.60		
	05/12/17			26.34	26.34	0.00	0.00	6.34	217.13															
	05/23/17			26.07	26.07	0.00	0.00	6.34	217.40															
	05/30/17			26.18	26.18	0.00	0.00	6.34	217.29															
	06/07/17			25.58	25.58	0.00	0.00	6.34	217.89															
	06/13/17			25.42	25.42	0.00	0.00	6.34	218.05															
	06/27/17			25.23	25.23	0.00	0.00	6.34	218.24															
	07/11/17			26.32	26.32	0.00	0.00	6.34	217.15															
	07/19/17			26.16	26.16	0.00	0.00	6.34	217.31															
	07/27/17			26.18	26.18	0.00	0.00	6.34	217.29															
	08/02/17			25.76	25.76	0.00	0.00	6.34	217.71															
	09/18/17			24.93	24.93	0.00	0.00	6.34	218.54	5.0	<1	100.0	190.0	37.0	<5	17.0	13.0	14.0	45.0	461.0	3.40	1.70		
	09/29/17			25.22	25.22	0.00	0.00	6.34	218.25															
	10/09/17			28.52	28.52	0.00	0.00	6.34	214.95															
	10/16/17			27.78	27.78	0.00	0.00	6.34	215.69															
	10/25/17			26.62	26.62	0.00	0.00	6.34	216.85															
	11/02/17			27.12	27.12	0.00	0.00	6.34	216.35															
	11/08/17			26.91	26.91	0.00	0.00	6.34	216.56	25.0	<1	380.0	950.0	110.0	<25	54.0	48.0	39.0	150.0	1756.0	11.00	28.00		
	11/20/17			26.25	26.25	0.00	0.00	6.34	217.22															
	11/22/17			26.30	26.30	0.00	0.00	6.34	217.17															
	11/27/17			29.12	29.12	0.00	0.00	6.34	214.35															
	12/08/17			25.96	25.96	0.00	0.00	6.34	214.51															
	12/13/17			28.95	28.95	0.00	0.00	6.34	214.52															
	12/22/17			27.62	27.62	0.00	0.00	6.34	215.85															
	01/10/18			27.10	27.10	0.00	0.00	6.34	216.37															
	01/19/18			26.90	26.90	0.00	0.00	6.34	216.57															
	01/29/18			28.38	28.38	0.00	0.00	6.34	215.09															
	02/22/18			27.42	27.42	0.00	0.00	6.34	216.05	10.0	<20	800.0	2400.0	120.0	<100	<100	140.0	<100	400.0	3860.0	170.00	52.00		
	03/22/18			27.26	27.26	0.00	0.00	6.34	216.21															
	03/30/18			25.38	25.38	0.00	0.00	6.34	218.09															
	04/10/18			25.20	25.20	0.00	0.00	6.34	218.27	4.0	<1	180.0	350.0	48.0	<5	9.0	16.0	20.0	72.0	699.0	4.50	2.90		
	04/24/18			25.08	25.08	0.00	0.00	6.34	218.39															
	05/29/18			24.70	24.70	0.00	0.00	6.34	218.77															
	06/13/18			24.15	24.15	0.00	0.00	6.34	219.32															
	06/18/18			24.34	24.34	0.00	0.00	6.34	219.13															
	06/28/18			24.31	24.31	0.00	0.00	6.34	219.16															
	07/03/18			24.33	24.33	0.00	0.00	6.34	219.14	15.0	<2	190.0	200.0	16.0	<10	18.0	38.0	22.0	94.0	593.0	7.00	3.40		
	07/12/18			24.59	24.59	0.00	0.00	6.34	218.88															
	07/25/18			24.48	24.48	0.00	0.00	6.34	218.99															
	08/06/18			23.85	23.85	0.00	0.00	6.34	219.62															
	08/31/18			24.11	24.11	0.00	0.00	6.34	219.36															
	09/26/18			24.13	24.13	0.00	0.00	6.34	219.34															
	10/08/18			23.84	23.84	0.00	0.00	6.34	219.63	0.5	<1	25.0	19.0	<5	<5	<5	<5	<5	16.0	60.5	0.59	0.65		
	11/06/18			24.86	24.86	0.00	0.00	6.34	218.61															
	03/19/19			24.21	24.21	0.00	0.00	6.34	219.26	2.7	2.8	167.0	171.0	5.0	<1									
	06/11/19			24.34	24.34	0.00	0.00	6.34	219.13	4.5	3.6	153.0	176.0	4.2	<1									
	09/12/19			24.94	24.94	0.00	0.00	6.34	218.53	12.0	10.0	295.0	413.0	9.2	<1									
	12/10/19			27.29	27.29	0.00	0.00	6.34	216.18	18.3	28.7	414.0	686.0	25.7	<1									
	03/18/20			25.28	25.28	0.00	0.00	6.34	218.19	0.5	0.5	39.3	73.0	4.4	0.5									
	05/27/20			24.64	24.64	0.00	0.00	6.34	218.83	5.9	2.2	287.0	368.0	13.5	0.5									
	08/27/20			24.25	24.25	0.00	0.00	6.34	219.22	4.9	2.0	284.0	371.0	12.3	<1									
	07/15/22	243.47	43.64	26.36	26.36	0.00	0.00	6.34	217.11															
	08/01/22			26.16	26.16	0.00	0.00	6.34	217.31															
	08/07/22			26.23	26.23	0.00	0.00	6.34	217.24															
	08/22/22			25.98	25.98	0.00	0.00	6.34	217.49															
	08/26/22			26.15	26.15	0.00	0.00	6.34	217.32															
	07/06/22			26.05	26.05	0.00	0.00	6.34	217.42															
	07/15/22			26.08	26.08	0.00	0.00	6.34	217.39	13.3	14.7	5020.0	2830.0	159.0	<5						1020.0	36010.3	39.50	26.00
	07/20/22			26.57	26.57	0.00	0.00	6.34	216.90															
	07/29/22			26.10	26.10	0.00	0.00	6.34	217.37				</											

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )										Milligrams per Liter (mg/l)		
										Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclo-hexane	Methyl-cyclo-hexane	Cumene	Naphthalene	VOC	GRO	DRO
										Feet (ft)												
	06/23/14			Clear	32.84				210.63													
	06/30/14			Clear	32.63				210.84	97.0	500.0	550.0	1600.0	480.0	<50	<50	<50	<50	220.0	3447.0	9.20	2.30
	07/30/14			Clear	32.96				210.51													
	08/20/14			Clear	33.14				210.33													
	09/08/14			Clear	33.54				209.93	220.0	370.0	1200.0	1400.0	540.0	<50	53.0	<50	80.0	420.0	4283.0	13.00	4.60
	09/15/14			Clear	33.51				209.96													
	09/25/14			Clear	33.63				209.84													
	10/03/14			Clear	33.78				209.69													
	10/15/14			Clear	33.94				209.53													
	10/22/14			Clear	34.03				209.44													
	11/04/14			Clear	34.20				209.27													
	11/13/14			Clear	34.32				209.15													
	11/21/14			Clear	34.41				209.06													
	12/04/14			Clear	34.50				208.97	110.0	78.0	440.0	490.0	<50	<50	<50	<50	200.0	1318.0	11.00	2.00	
	12/22/14			Clear	34.82				208.85													
	01/05/15			Clear	34.72				208.75													
	01/14/15			Clear	34.62				208.85													
	01/26/15			Clear	34.31				209.16													
	03/30/15			Clear	34.53				208.94													
	04/04/15			Clear	34.81				208.66													
	02/13/15			Clear	34.90				208.57	100.0	<5	520.0	110.0	<25	<25	<25	<25	34.0	200.0	964.0	4.90	1.20
	02/26/15			Clear	34.77				208.70													
	03/04/15			Clear	34.95				208.52													
	03/16/15			Clear	34.82				208.65													
	03/20/15			Clear	35.07				208.40													
	03/25/15			Clear	34.78				208.69													
	04/02/15			Clear	34.68				208.81													
	04/10/15			Clear	34.54				208.93	160.0	68.0	860.0	390.0	66.0	<25	62.0	51.0	74.0	300.0	2031.0	9.10	3.50
	04/30/15			Clear	34.45				209.02													
	05/29/15			Clear	34.35				209.12													
	06/01/15			Clear	34.32				209.15													
	06/09/15			Clear	34.30				209.17													
	06/18/15			Clear	34.25				209.22													
	06/30/15			Clear	34.51				208.96	310.0	250.0	810.0	540.0	120.0	<25	60.0	97.0	79.0	320.0	2586.0	5.60	3.00
	07/06/15			Clear	34.02				209.45													
	07/17/15			Clear	33.67				209.80													
	08/21/15			Clear	33.63				209.84													
	09/08/15			Clear	33.84				209.63													
	09/25/15			Clear	34.12				209.35													
	10/16/15			Clear	33.89				209.58													
	10/30/15			Clear	34.55				208.92													
	11/05/15			Clear	34.60				208.87	330.0	350.0	680.0	330.0	67.0	<5	71.0	48.0	52.0	230.0	2158.0	11.00	2.40
	11/13/15			Clear	34.69				208.78													
	12/18/15			Clear	35.04				208.43													
	01/08/16	243.47	43.65	Clear	35.22				208.25	160.0	29.0	430.0	230.0	8.0	<5	36.0	29.0	42.0	180.0	1144.0	4.50	1.40
	01/19/16			Clear	35.24				208.23													
	02/26/16			Clear	34.91				208.56													
	03/14/16			Clear	34.37				209.10													
	04/01/16			Clear	34.12				209.35	250.0	1100.0	370.0	2400.0	1200.0	<50	<50	<50	73.0	660.0	6053.0	22.00	32.00
	04/21/16			Clear	34.18				209.29													
	05/13/16			Clear	32.03				211.44													
	05/23/16			Clear	32.57				210.90	1700.0	4400.0	920.0	1100.0	450.0	<50	62.0	<50	<50	160.0	8792.0	9.70	9.20
	06/08/16			Clear	33.19				210.28	1800.0	6800.0	1200.0	2900.0	1000.0	<50	53.0	<50	<50	270.0	14023.0	18.00	5.70
	07/14/16			Clear	33.82				209.65													
	07/19/16			Clear	34.11				209.36													
	07/20/16			Clear	34.94				208.53													
	08/08/16			Clear	34.79				208.68													
	08/18/16			Clear	34.71				208.76													
	08/24/16			Clear	34.76				208.71													
	08/30/16			Clear	35.21				208.26	9.0	3.0	<1	<5	<5	5.0	<5	<5	<5	<10	17.0	0.22	0.48
	09/06/16			Clear	35.09				208.38													
	09/15/16			Clear	35.12				208.35													
	09/28/16			Clear	35.02				208.45													
	10/05/16			Clear	34.95				208.52													
	10/11/16			Clear	34.93				208.54													
	11/22/16			Clear	35.54				207.93													
	12/06/16			Clear	34.98				208.49	0.5	<1	<1	<5	<5	25.0	9.0	<5	<5	<10	387.5	0.35	1.60
	12/16/16			Clear	36.79				207.68													
	01/09/17			Clear	36.18				207.31													

Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Micrograms Per Liter ( $\mu\text{g/l}$ )									Milligrams per Liter (mg/l)			
										Benzene	Toluene	Ethylnaphthalene	m+p-Xylenes	o-Xylenes	MTBE	Cyclohexane	Methylcyclohexane	Cumene	Naphthalene	VOC	GRO	DRO
	03/22/18			Clear	34.58				208.89													
	03/30/18			Clear	33.21				210.26													
	04/10/18			Clear	33.08				210.39	590.0	67.0	380.0	870.0	<50	<50	<50	<50	300.0	2207.0	4.70	6.60	
	04/24/18			Clear	33.38				210.09													
	05/29/18			Clear	32.72				210.75													
	06/13/18			Clear	32.20				211.27													
	06/18/18			Clear	32.13				211.34													
	06/28/18			Clear	31.96				211.51													
	07/03/18			Clear	32.10				211.37	580.0	71.0	610.0	470.0	<25	<25	38.0	<25	<25	220.0	2429.0	10.00	4.80
	07/12/18			Clear	32.35				211.12													
	07/25/18			Clear	32.67				210.80													
	08/06/18			Clear	30.72				212.75													
	08/31/18			Clear	32.45				211.02													
	09/26/18			Clear	32.38				211.09													
	10/08/18			Clear	31.96				211.51	510.0	290.0	690.0	430.0	79.0	<10	31.0	20.0	24.0	240.0	2574.0	5.40	3.80
	11/06/18			Clear	30.90				212.57													
	03/19/19			Clear	30.61				212.86	572.0	1060.0	676.0	860.0	324.0	5.3			189.0	3760.3	10.70	6.20	
	06/11/19			Clear	31.13				212.34	865.0	505.0	1230.0	961.0	203.0	8.4			193.0	4015.8	10.70	4.20	
	09/12/19			Clear	31.56				211.91	581.0	78.5	1060.0	127.0	33.0	7.7			43.2	3230.5	6.20	8.50	
	12/10/19			Clear	33.70				209.77	1140.0	3900.0	1910.0	4080.0	1450.0	8.6			378.0	12999.5	29.60	6.30	
	03/18/20			Clear	33.63				209.84	673.0	2110.0	1100.0	1830.0	724.0	6.8			46.1	273.0	7795.4	16.60	6.30
	05/27/20			Clear	31.92				211.55	622.0	1080.0	554.0	962.0	615.0	8.2			18.7	184.0	4906.6	6.60	5.20
	08/27/20			Clear	31.82				211.65	564.0	1210.0	723.0	943.0	512.0	5.5				129.0	4762.0	8.35	5.90
	11/24/20			Clear	31.64				211.83	184.0	417.0	273.0	798.0	395.0	3.5				92.4	2285.6	4.96	3.10
	02/10/21			Clear	30.69				212.78	208.0	70.9	76.9	145.0	110.0	3.0				19.8	714.4	1.68	3.90
	04/28/21			Clear	29.53				213.94	481.0	519.0	798.0	553.0	281.0	3.1				73.5	2788.3	5.39	4.00
	07/12/21			Clear	33.59				209.48	708.0	1650.0	481.0	1810.0	644.0	5.5				225.0	5959.5	11.70	7.60
	10/07/21			Clear	34.74				208.73	355.0	418.0	502.0	1380.0	575.0	6.2				228.0	3563.2	16.00	4.30
	04/13/22			Clear	35.54				207.93	253.0	57.6	196.0	450.0	127.0	3.2				119.0	2090.0	4.16	10.20
	05/25/22			Clear	34.86				208.61													
	06/01/22			Clear	34.84				208.63													
	06/07/22			Clear	34.87				208.60													
	06/22/22			Clear	34.23				209.24													
	06/30/22			Clear	33.93				209.54													
	07/06/22			Clear	34.00				209.47													
	07/15/22			Clear	34.52				208.95	35.6	60.4	45.8	59.4	23.6	<1				9.6	344.5	4.87	4.50
	07/20/22			Clear	34.85				208.62													
	07/29/22			Clear	34.69				208.78													
	08/04/22			Clear	34.47				209.00													
	08/09/22			Clear	34.67				208.80													
	08/17/22			Clear	34.83				208.64													
	08/24/22			Clear	34.96				208.51													
	09/01/22			Clear	35.98				207.49													
	09/07/22			Clear	35.14				208.33													
MW15	11/04/22	243.47	43.65	Clear	35.42				208.05	798.0	736.0	596.0	2360.0	617.0	3.7			260.0	6842.1	4.87	4.50	
	12/16/22			Clear	35.78				207.69													
	01/12/23			Clear	35.68				207.79													
	02/16/23			Clear	35.85				207.62	134.0	34.8	39.0	44.5	45.9	1.0			10.0	405.6	1.65	3.40	
	03/09/23			Clear	35.98				207.49													
	04/14/23			Clear	35.61				207.86													
	05/18/23			Clear	35.56				207.91	592.0	1310.0	673.0	1790.0	459.0	2.6			244.0	5896.5	17.80	6.90	
	06/21/23			Clear	35.91				207.56													
	07/13/23			Clear	35.93	36.09	0.16	0.00	0.00	207.26												
	07/21/23			Clear	35.88	35.94	0.06	0.06	0.06	207.48												
	07/28/23			Clear	35.67	35.67	0.00	0.00	0.06	207.80												
	08/04/23			Clear	35.59	35.59	0.00	0.00	0.06	207.88												
	08/11/23			Clear	35.58	35.58	0.00	0.00	0.06	207.89												
	08/23/23			Clear	35.40	35.66	0.26	0.25	0.31	207.61												
	09/01/23			Clear	35.21	35.43	0.22	0.21	0.53	207.87												
	09/07/23			Clear	35.21	35.47	0.17	0.17	0.17	207.87												
	09/13/23			Clear	35.01	35.16	0.15	0.15	0.84	208.20												
	09/22/23			Clear	35.04	35.19	0.15	0.15	0.98	208.17												
	09/27/23			Clear	35.01	35.19	0.18	0.18	1.16	208.14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/05/23			Clear	35.27	35.46	0.19	0.19	1.35	207.87												
	10/12/23			Clear	35.21	35.44	0.23	0.22	1.57	207.86												
	10/19/23			Clear	35.22	35.44	0.22	0.21	1.78	207.86												
	10/25/23			Clear	35.22	35.43	0.21	0.20	1.99	207.88												
	11/01/23			Clear	35.29	35.41	0.12	0.12	3.05	207.97												
	11/10/23			Clear	34.70	34.87	0.17	0.17	3.22	208.47												
	02/02/24			Clear	34.65	34.87	0.22	0.21	3.43	208.43												
	02/08/24			Clear	34.58	34.79	0.21	0.20	3.64	208.52												
	02/16/24			Clear	34.47	34.75	0.26	0.27	3.91	208.51												
	02/22/24			Clear	34.38	34.55	0.17	0.17	4.08	208.79												
	02/29/24			Clear	34.47	34.65	0.18	0.18	4.2													



Well	Date	Well Elev.	Well Depth	Depth to LNAPL	Depth to Water	LNAPL	Gallons Removed	Cumulative Removed	Corrected Water Elevation	Benzene	Toluene	Ethyl-benzene	m+p-Xylenes	o-Xylenes	MTBE	Cyclohexane	Methyl-cyclohexane	Cumene	Naphthalene	VOC	GRO	DRO
										Feet (ft)	Micrograms Per Liter ( $\mu\text{g/l}$ )											
MW16	05/29/18	244.38	34.10	Clear	25.09				219.29													
	06/13/18			Clear	24.75				219.63													
	06/18/18			Clear	24.75				219.63													
	06/26/18			Clear	24.68				219.70													
	07/03/18			Clear	24.75				219.63	<1	<1	<1	<5	<5	<5	<5	<5	<5	<10	0.0	1.30	0.37
	07/12/18			Clear	24.82				219.56													
	07/25/18			Clear	24.90				219.48													
	08/06/18			Clear	24.30				220.08													
	08/31/18			Clear	24.53				219.85													
	09/26/18			Clear	24.68				219.70													
	10/08/18			Clear	24.50				219.88	<1	<1	3.0	<5	<5	<5	<5	<5	<5	<10	3.0	<0.2	<0.2
	11/06/18			Clear	24.59				219.79													
	03/19/19			Clear	24.60				219.78	<1	0.3	<1	1.3	<1	<1				1.6	3.2	1.41	0.39
	06/11/19			Clear	24.93				219.45	<1	<1	<1	<2	<1	<1				<2	0.5	1.46	0.63
	09/12/19			Clear	25.40				218.98	<1	<1	<1	<2	<1	<1				<2	6.4	0.94	1.30
	12/10/19			Clear	25.88				218.50	<1	0.4	<1	<2	<1	<1				<2	2.6	1.40	0.43
	03/18/20			Clear	25.49				218.89	<1	<1	<1	<2	<1	<1				<2	18.6	0.40	0.44
	05/27/20			Clear	25.05				219.33	<1	<1	<1	<2	<1	<1				<2	0.7	0.68	0.41
	08/27/20			Clear	24.65				219.73	<1	<1	<1	<2	<1	<1				<2	14.9	0.67	0.34
	11/24/20			Clear	24.60				219.78	<1	<1	<1	<2	<1	<1				<2	0.5	0.55	0.41
	02/10/21			Clear	25.18				219.20	<1	<1	<1	<2	<1	<1				<2	15.3	0.92	0.22
	04/28/21			Clear	24.94				219.44	<1	<1	<1	<2	<1	<1				<2	0.0	0.51	0.45
	07/12/21			Clear	25.65				218.73	<1	<1	<1	<2	<1	<1				<2	9.5	1.00	0.39
	10/07/21			Clear	26.10				218.28	<1	<1	<1	<2	<1	<1				<2	7.8	0.96	0.48
	04/13/22			Clear	26.22				218.16	<1	<1	<1	<2	<1	<1				<2	56.9	0.33	0.92
	05/25/22			Clear	25.80				218.68													
	06/01/22			Clear	25.76				218.62													
	06/07/22			Clear	25.74				218.64													
	06/22/22			Clear	25.67				218.71													
	06/30/22			Clear	25.67				218.71													
	07/06/22			Clear	25.69				218.69													
	07/15/22			Clear	25.70				218.68	<1	<1	<1	<2	<1	<1				<4	0.5	0.64	0.61
	07/20/22			Clear	25.69				218.69													
	07/29/22			Clear	25.74				218.64													
	08/04/22			Clear	25.77				218.61													
	08/09/22			Clear	25.81				218.57													
	08/17/22			Clear	25.84				218.54													
	08/24/22			Clear	25.89				218.49													
	09/01/22			Clear	25.95				218.43													
	09/07/22			Clear	26.00				218.38													
	11/04/22			Clear	26.22				218.16	<1	<1	<1	<2	<1	<1				<4	25.6	0.20	0.84
	12/16/22			Clear	26.43				217.95													
	01/12/23			Clear	26.46				217.92													
	02/16/23			Clear	26.48				217.90	<1	<1	<1	<2	<1	<1				<4	21.6	0.70	0.58
	03/09/23			Clear	26.45				217.93													
	04/14/23			Clear	26.31				218.07													
	05/18/23			Clear	26.19				218.19	<1	<1	<1	<2	<1	<1				<4	0.0	0.89	1.00
	06/21/23			Clear	26.12				218.26													
	07/13/23			Clear	26.17				218.21													
	07/21/23			Clear	26.19				218.19													
	07/28/23			Clear	26.21				218.17													
	08/04/23			Clear	26.19				218.19													
	08/11/23			Clear	26.16				218.22													
	08/23/23			Clear	26.14				218.24													
	09/01/23			Clear	26.15				218.23													
	09/07/23			Clear	26.15				218.23													
	09/13/23			Clear	26.20				218.18													
	09/22/23			Clear	26.36				218.02													
	09/27/23			Clear	26.40				217.98	<1	0.5	<1	<2	<1	<1				<4	5.4	0.65	0.43
	10/05/23			Clear	26.41				217.97													
	10/12/23			Clear	26.46				217.92													
	10/19/23			Clear	26.50				217.88													
	10/25/23			Clear	26.53				217.85													
	11/01/23			Clear	26.57				217.81													
	11/10/23			Clear	26.62				217.76													
	11/16/23			Clear	26.66				217.72													
	11/22/23			Clear	26.69				217.69													
	11/28/23			Clear	26.75				217.63													
	12/13/23			Clear	26.82				217.58	<1	<1	<1	<2	<1	<1				<4	59.8	0.73	2.70
	12/29/23			Clear	26.68				217.70													
	01/05/24			Clear	26.46				217.92													
	01/12/24			Clear	26.32	</																

Well	Date	Well	Elev.	Well	Depth	Depth to	LNAPL	Gallons	Cumu-	Corrected	Benzene	Toluene	Ethy-	m+p-	O-	MTBE	Cyclo-	Methyl-	Cumene	Naph-	VOC	GRO	DRO		
						LNAPL	Removed	Liter	Removed	Water	Level			benzene	Xylenes	Xylenes		hexane	cyclo-	hexane	thalene				
MW18	09/22/23	243.93	44.42	Clear	36.98	Feet (ft)				206.95															
	09/27/23				36.96				18.0	206.97	0.7	112.0	67.9	0.8	15.8							35.4	340.7	1.24	4.50
	10/05/23				36.90					207.03															
	10/12/23				36.86					207.07															
	10/19/23				36.84					207.09															
	10/25/23				36.89					207.04															
	11/01/23				36.91					207.02															
	11/10/23				36.96					206.97															
	11/16/23				37.00					206.93															
	11/22/23				37.03					206.90															
	11/29/23				37.12					206.81															
	12/13/23				37.16				12.4	206.77	0.5	163.0	66.2	1.5	11.6							131.0	541.2	2.22	3.40
	12/29/23				36.95					206.98															
	01/05/24				36.86					207.07															
	01/12/24				36.73					207.20															
	01/26/24				36.35					207.58															
	02/02/24				36.26					207.67															
	02/16/24				36.15					207.78															
	02/22/24				36.02					207.91															
	02/28/24				36.07					207.86															
	03/05/24				36.01					207.92															
	03/21/24				36.06				8.1	207.87	<1	<1	<2	<1	4.7							<4	61.8	0.56	1.90
	03/29/24				35.98					207.95															
	04/05/24				35.96					207.97															
	04/12/24				35.88					208.05															
	04/19/24				35.81					208.12															
	04/26/24				35.78					208.15															
Station Supply Well	12/06/12	245.00	460.00	Clear	205.00	40.00					<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	04/29/13										<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	11/14/13										<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	02/06/14										<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	04/30/14										<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	09/08/14										<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	09/12/19										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	12/10/19										<0.5	10.7	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	12.6	na	na	na	na	
	12/10/19										<0.5	8.7	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	11.5	na	na	na	na	
	03/27/20										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	03/27/20										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	05/27/20										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	08/27/20										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	11/24/20										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	02/10/21										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	04/28/21										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	0.8	na	na	na	na	
	07/12/21										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	10/07/21										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	04/13/22										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	07/15/22										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	11/04/22										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	02/16/23										<1	<1	<1	<2	<1	<1	na	na	<1	<1	ND	na	na	na	
	05/16/23										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
	03/21/24										<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	
Station Car Wash	12/20/13				MUNICIPAL SUPPLY				65.00		<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	<0.5	<0.5	ND	na	na	na		
	04/30/14																								
	09/08/14																								
	06/05/13																								
KinderCare	06/05/13	255.00	362.00		190.00			65.00		<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	na	
Ridgeview 1	01/14/14	241.00	485.00		200.00			41.00		<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	na	
Ridgeview 2	01/14/14	241.00	466.00		200.00			41.00		<0.5	<0.5	<0.5	<1	<0.5	<0.5	na	na	<0.5	<0.5	ND	na	na	na	na	

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**APPENDIX C**

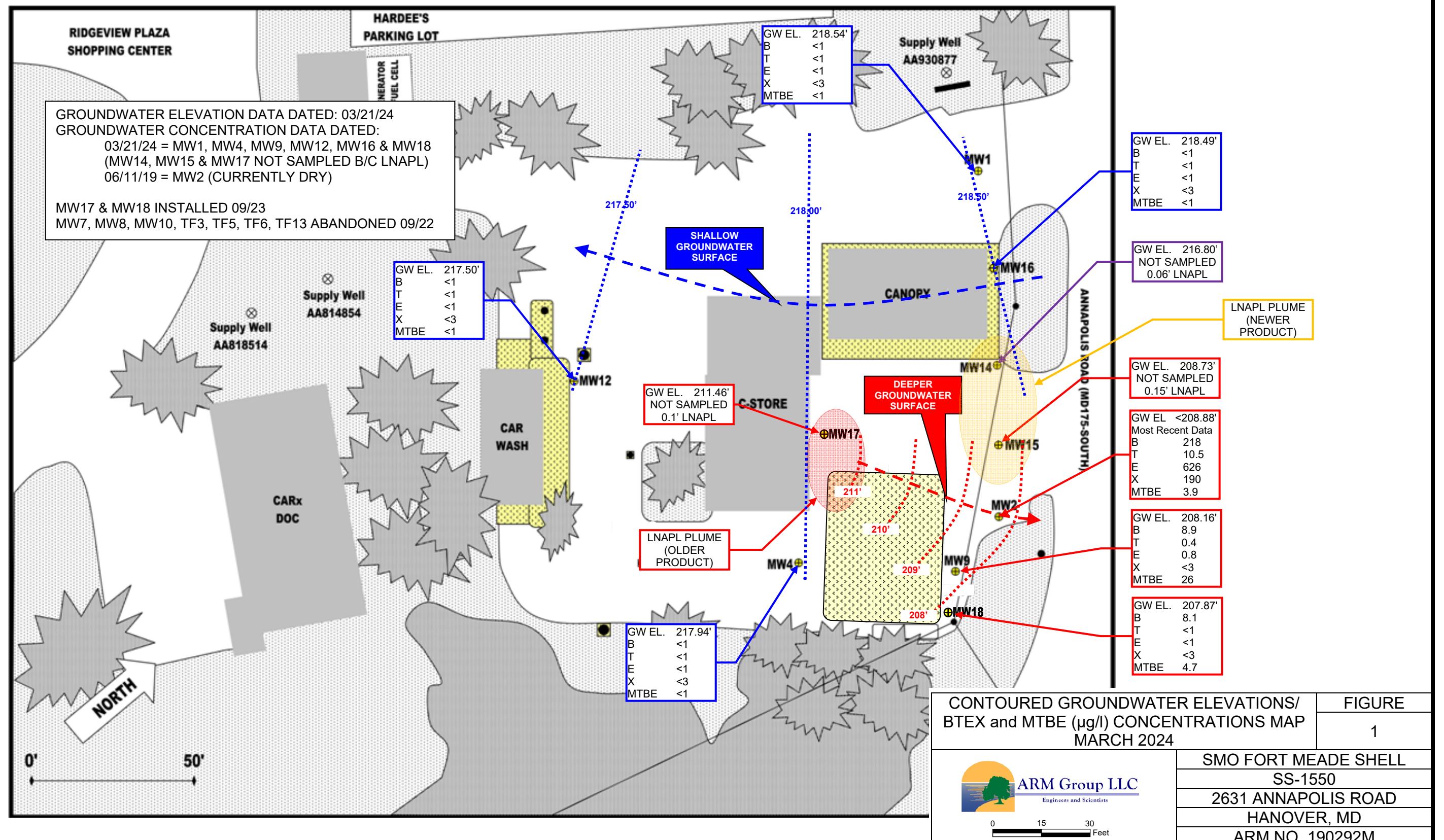
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**SITE MAP WITH CONTOURED GROUNDWATER ELEVATIONS &  
BTEX/MTBE CONCENTRATIONS**

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**APPENDIX D**

**MARCH 2023 GROUNDWATER SAMPLE LABORATORY REPORT**

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Pace Analytical Services, LLC  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

April 09, 2024

Mr. Doug Hamilton  
ARM Group Inc.  
9175 Guilford Road  
Suite 310  
Columbia, MD 21046

RE: Project: SMO Harnover 190292.00-0001  
Pace Project No.: 30670766

Dear Mr. Hamilton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Long Island
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Rebecca Spiess, ARM Brickhouse



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991  
Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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### Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747  
Connecticut Certification #: PH-0435  
Delaware Certification # NY 10478  
Maryland Certification #: 208  
Massachusetts Certification #: M-NY026  
New Hampshire Certification #: 2987  
New Jersey Certification #: NY158  
New York Certification #: 10478 Primary Accrediting Body  
Pennsylvania Certification #: 68-00350  
Rhode Island Certification #: LAO00340  
Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

## SAMPLE SUMMARY

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30670766001	MW-12	Water	03/21/24 09:20	03/21/24 22:00
30670766002	MW-4	Water	03/21/24 09:40	03/21/24 22:00
30670766003	MW-16	Water	03/21/24 10:00	03/21/24 22:00
30670766004	MW-1	Water	03/21/24 10:30	03/21/24 22:00
30670766005	MW-9	Water	03/21/24 10:45	03/21/24 22:00
30670766006	MW-18	Water	03/21/24 11:10	03/21/24 22:00
30670766007	PW	Drinking Water	03/21/24 11:35	03/21/24 22:00

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30670766001	MW-12	EPA 8015D	JPD	2	PASI-PA
		EPA 8015D	AJC	2	PASI-PA
		EPA 8260C	AJC	53	PASI-PA
30670766002	MW-4	EPA 8015D	JPD	2	PASI-PA
		EPA 8015D	AJC	2	PASI-PA
		EPA 8260C	AJC	53	PASI-PA
30670766003	MW-16	EPA 8015D	JPD	2	PASI-PA
		EPA 8015D	AJC	2	PASI-PA
		EPA 8260C	AJC	53	PASI-PA
30670766004	MW-1	EPA 8015D	JPD	2	PASI-PA
		EPA 8015D	AJC	2	PASI-PA
		EPA 8260C	AJC	53	PASI-PA
30670766005	MW-9	EPA 8015D	JPD	2	PASI-PA
		EPA 8015D	AJC	2	PASI-PA
		EPA 8260C	EAB	53	PASI-PA
30670766006	MW-18	EPA 8015D	JPD	2	PASI-PA
		EPA 8015D	AJC	2	PASI-PA
		EPA 8260C	EAB	53	PASI-PA
30670766007	PW	EPA 524.2	KGG	63	PASI-MV

PASI-MV = Pace Analytical Services - Long Island

PASI-PA = Pace Analytical Services - Greensburg

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8015D

**Description:** 8015D TPH Reduced Volume

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

### General Information:

6 samples were analyzed for EPA 8015D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 657361

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MW-9 (Lab ID: 30670766005)
- o-Terphenyl (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

Analyte Comments:

QC Batch: 657361

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3201913)
- TPH (C10-C28)
- MSD (Lab ID: 3201914)
- TPH (C10-C28)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8015D

**Description:** 8015D GRO Water

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

### General Information:

6 samples were analyzed for EPA 8015D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 524.2

**Description:** 524.2 MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

### General Information:

1 sample was analyzed for EPA 524.2 by Pace Analytical Services Long Island. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

### General Information:

6 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.

- MW-18 (Lab ID: 30670766006)
- MW-9 (Lab ID: 30670766005)

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 659758

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 3213483)
  - 1,2,4-Trichlorobenzene
  - Naphthalene
- LCS (Lab ID: 3213484)
  - 1,2,4-Trichlorobenzene
  - Naphthalene
- MW-1 (Lab ID: 30670766004)
  - 1,2,4-Trichlorobenzene
  - Naphthalene
  - Vinyl chloride
- MW-12 (Lab ID: 30670766001)
  - 1,2,4-Trichlorobenzene
  - Naphthalene
- MW-16 (Lab ID: 30670766003)
  - 1,2,4-Trichlorobenzene
  - Naphthalene
- MW-4 (Lab ID: 30670766002)
  - 1,2,4-Trichlorobenzene
  - Naphthalene

QC Batch: 660078

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 3214942)
  - 1,2-Dichloroethane
- LCS (Lab ID: 3214943)
  - 1,2-Dichloroethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

QC Batch: 660078

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- MS (Lab ID: 3214944)
  - 1,2-Dichloroethane
- MSD (Lab ID: 3214945)
  - 1,2-Dichloroethane
- MW-18 (Lab ID: 30670766006)
  - 1,2-Dichloroethane
- MW-9 (Lab ID: 30670766005)
  - 1,2-Dichloroethane

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

QC Batch: 659758

IS: The internal standard response is below criteria. Results may be biased high.

- MW-1 (Lab ID: 30670766004)
  - 1,1,1-Trichloroethane
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 1,2-Dichloroethane
  - 1,2-Dichloroethane-d4 (S)
  - 1,2-Dichloropropane
  - 2-Butanone (MEK)
  - 4-Methyl-2-pentanone (MIBK)
  - Acetone
  - Benzene
  - Bromochloromethane
  - Bromodichloromethane
  - Bromomethane
  - Carbon disulfide
  - Carbon tetrachloride
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromochloromethane
  - Dibromofluoromethane (S)
  - Diethyl ether (Ethyl ether)
  - Ethyl-tert-butyl ether
  - Methyl-tert-butyl ether
  - Methylene Chloride
  - cis-1,2-Dichloroethene
  - cis-1,3-Dichloropropene
  - tert-Amylmethyl ether
  - tert-Butyl Alcohol
  - trans-1,2-Dichloroethene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 660078

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 3214943)
  - 1,1,1-Trichloroethane
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 1,2-Dichloroethane
  - Carbon tetrachloride
  - Chloroform
  - Methylene Chloride
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 660078

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30670766005

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 3214944)
  - Methyl-tert-butyl ether
  - tert-Butyl Alcohol
- MSD (Lab ID: 3214945)
  - Methyl-tert-butyl ether
  - tert-Butyl Alcohol

**Additional Comments:**

Batch Comments:

A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- QC Batch: 659758

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- BLANK (Lab ID: 3213483)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,1,2-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichloroethane-d4 (S)
  - 1,2-Dichlorobenzene
  - 1,2-Dichloroethane
  - 1,2-Dichloropropane
  - 1,2-Dichloroethene (Total)
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 2-Butanone (MEK)
  - 2-Hexanone
  - 4-Bromofluorobenzene (S)
  - TOTAL BTEX
  - Carbon disulfide
  - Acetone
  - Bromochloromethane
  - Benzene
  - Bromodichloromethane
  - Bromomethane
  - Bromoform
  - cis-1,2-Dichloroethene
  - cis-1,3-Dichloropropene
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromofluoromethane (S)
  - Dibromochloromethane
  - Diethyl ether (Ethyl ether)
  - Ethylbenzene
  - Ethyl-tert-butyl ether
  - Methylene Chloride
  - Methyl-tert-butyl ether
  - 4-Methyl-2-pentanone (MIBK)
  - m&p-Xylene
  - Naphthalene
  - o-Xylene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- BLANK (Lab ID: 3213483)
  - Styrene
  - trans-1,2-Dichloroethene
  - trans-1,3-Dichloropropene
  - tert-Amylmethyl ether
  - tert-Butyl Alcohol
  - Tetrachloroethene
  - Toluene-d8 (S)
  - Toluene
  - Trichloroethene
  - Xylene (Total)
  - Vinyl chloride
- LCS (Lab ID: 3213484)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,1,2-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichloroethane-d4 (S)
  - 1,2-Dichlorobenzene
  - 1,2-Dichloroethane
  - 1,2-Dichloropropane
  - 1,2-Dichloroethene (Total)
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 2-Butanone (MEK)
  - 2-Hexanone
  - 4-Bromofluorobenzene (S)
  - TOTAL BTEX
  - Carbon disulfide
  - Acetone
  - Bromochloromethane
  - Benzene
  - Bromodichloromethane
  - Bromomethane
  - Bromoform
  - cis-1,2-Dichloroethene
  - cis-1,3-Dichloropropene
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane
  - Chloroform

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- LCS (Lab ID: 3213484)
  - Chloromethane
  - Dibromofluoromethane (S)
  - Dibromochloromethane
  - Diethyl ether (Ethyl ether)
  - Ethylbenzene
  - Ethyl-tert-butyl ether
  - Methylene Chloride
  - Methyl-tert-butyl ether
  - 4-Methyl-2-pentanone (MIBK)
  - m&p-Xylene
  - Naphthalene
  - o-Xylene
  - Styrene
  - trans-1,2-Dichloroethene
  - trans-1,3-Dichloropropene
  - tert-Amylmethyl ether
  - tert-Butyl Alcohol
  - Tetrachloroethene
  - Toluene-d8 (S)
  - Toluene
  - Trichloroethene
  - Xylene (Total)
  - Vinyl chloride
- MW-1 (Lab ID: 30670766004)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,1,2-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichloroethane-d4 (S)
  - 1,2-Dichlorobenzene
  - 1,2-Dichloroethane
  - 1,2-Dichloropropane
  - 1,2-Dichloroethene (Total)
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 2-Butanone (MEK)
  - 2-Hexanone
  - 4-Bromofluorobenzene (S)
  - TOTAL BTEX
  - Carbon disulfide

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- MW-1 (Lab ID: 30670766004)
  - Acetone
  - Bromochloromethane
  - Benzene
  - Bromodichloromethane
  - Bromomethane
  - Bromoform
  - cis-1,2-Dichloroethene
  - cis-1,3-Dichloropropene
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromofluoromethane (S)
  - Dibromochloromethane
  - Diethyl ether (Ethyl ether)
  - Ethylbenzene
  - Ethyl-tert-butyl ether
  - Methylene Chloride
  - Methyl-tert-butyl ether
  - 4-Methyl-2-pentanone (MIBK)
  - m&p-Xylene
  - Naphthalene
  - o-Xylene
  - Styrene
  - trans-1,2-Dichloroethene
  - trans-1,3-Dichloropropene
  - tert-Amylmethyl ether
  - tert-Butyl Alcohol
  - Tetrachloroethene
  - Toluene-d8 (S)
  - Toluene
  - Trichloroethene
  - Xylene (Total)
  - Vinyl chloride
- MW-12 (Lab ID: 30670766001)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,1,2-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,2,4-Trichlorobenzene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- MW-12 (Lab ID: 30670766001)
  - 1,2-Dichloroethane-d4 (S)
  - 1,2-Dichlorobenzene
  - 1,2-Dichloroethane
  - 1,2-Dichloropropane
  - 1,2-Dichloroethene (Total)
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 2-Butanone (MEK)
  - 2-Hexanone
  - 4-Bromofluorobenzene (S)
  - TOTAL BTEX
  - Carbon disulfide
  - Acetone
  - Bromochloromethane
  - Benzene
  - Bromodichloromethane
  - Bromomethane
  - Bromoform
  - cis-1,2-Dichloroethene
  - cis-1,3-Dichloropropene
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromofluoromethane (S)
  - Dibromochloromethane
  - Diethyl ether (Ethyl ether)
  - Ethylbenzene
  - Ethyl-tert-butyl ether
  - Methylene Chloride
  - Methyl-tert-butyl ether
  - 4-Methyl-2-pentanone (MIBK)
  - m&p-Xylene
  - Naphthalene
  - o-Xylene
  - Styrene
  - trans-1,2-Dichloroethene
  - trans-1,3-Dichloropropene
  - tert-Amyl methyl ether
  - tert-Butyl Alcohol
  - Tetrachloroethene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- MW-12 (Lab ID: 30670766001)
  - Toluene-d8 (S)
  - Toluene
  - Trichloroethene
  - Xylene (Total)
  - Vinyl chloride
- MW-16 (Lab ID: 30670766003)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 1,1,1-Trichloroethane
  - 1,1,2-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichloroethane-d4 (S)
  - 1,2-Dichlorobenzene
  - 1,2-Dichloroethane
  - 1,2-Dichloropropane
  - 1,2-Dichloroethene (Total)
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 2-Butanone (MEK)
  - 2-Hexanone
  - 4-Bromofluorobenzene (S)
  - TOTAL BTEX
  - Carbon disulfide
  - Acetone
  - Bromochloromethane
  - Benzene
  - Bromodichloromethane
  - Bromomethane
  - Bromoform
  - cis-1,2-Dichloroethene
  - cis-1,3-Dichloropropene
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromofluoromethane (S)
  - Dibromochloromethane
  - Diethyl ether (Ethyl ether)
  - Ethylbenzene
  - Ethyl-tert-butyl ether

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- MW-16 (Lab ID: 30670766003)

- Methylene Chloride
- Methyl-tert-butyl ether
- 4-Methyl-2-pentanone (MIBK)
- m&p-Xylene
- Naphthalene
- o-Xylene
- Styrene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- tert-Amylmethyl ether
- tert-Butyl Alcohol
- Tetrachloroethene
- Toluene-d8 (S)
- Toluene
- Trichloroethene
- Xylene (Total)
- Vinyl chloride

- MW-4 (Lab ID: 30670766002)

- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2,4-Trichlorobenzene
- 1,2-Dichloroethane-d4 (S)
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,2-Dichloroethene (Total)
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 2-Butanone (MEK)
- 2-Hexanone
- 4-Bromofluorobenzene (S)
- TOTAL BTEX
- Carbon disulfide
- Acetone
- Bromochloromethane
- Benzene
- Bromodichloromethane
- Bromomethane
- Bromoform

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

---

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** ARM Group Inc.-Columbia

**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

- MW-4 (Lab ID: 30670766002)
  - cis-1,2-Dichloroethene
  - cis-1,3-Dichloropropene
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromofluoromethane (S)
  - Dibromochloromethane
  - Diethyl ether (Ethyl ether)
  - Ethylbenzene
  - Ethyl-tert-butyl ether
  - Methylene Chloride
  - Methyl-tert-butyl ether
  - 4-Methyl-2-pentanone (MIBK)
  - m&p-Xylene
  - Naphthalene
  - o-Xylene
  - Styrene
  - trans-1,2-Dichloroethene
  - trans-1,3-Dichloropropene
  - tert-Amylmethyl ether
  - tert-Butyl Alcohol
  - Tetrachloroethene
  - Toluene-d8 (S)
  - Toluene
  - Trichloroethene
  - Xylene (Total)
  - Vinyl chloride

2c: The analyte did not meet the method recommended minimum RF.

- BLANK (Lab ID: 3213483)
  - tert-Butyl Alcohol
- LCS (Lab ID: 3213484)
  - tert-Butyl Alcohol
- MW-1 (Lab ID: 30670766004)
  - tert-Butyl Alcohol
- MW-12 (Lab ID: 30670766001)
  - tert-Butyl Alcohol
- MW-16 (Lab ID: 30670766003)
  - tert-Butyl Alcohol

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: SMO Harnover 190292.00-0001  
Pace Project No.: 30670766

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**Method:** EPA 8260C  
**Description:** 8260C MSV  
**Client:** ARM Group Inc.-Columbia  
**Date:** April 09, 2024

Analyte Comments:

QC Batch: 659758

- 2c: The analyte did not meet the method recommended minimum RF.
- MW-4 (Lab ID: 30670766002)
  - tert-Butyl Alcohol

QC Batch: 660078

- 2c: The analyte did not meet the method recommended minimum RF.
- LCS (Lab ID: 3214943)
    - 1,2-Dichloroethane
  - MS (Lab ID: 3214944)
    - 1,2-Dichloroethane
  - MSD (Lab ID: 3214945)
    - 1,2-Dichloroethane
  - MW-9 (Lab ID: 30670766005)
    - 1,2-Dichloroethane

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-12	Lab ID: 30670766001	Collected: 03/21/24 09:20	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015D TPH Reduced Volume</b>	Analytical Method: EPA 8015D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
TPH (C10-C28) <b>Surrogates</b>	<b>0.22 U</b>	mg/L	0.22	0.13	1	03/25/24 19:33	03/27/24 00:28		
o-Terphenyl (S)	87	%.	10-160		1	03/25/24 19:33	03/27/24 00:28	84-15-1	
<b>8015D GRO Water</b>	Analytical Method: EPA 8015D Pace Analytical Services - Greensburg								
TPH (C06-C10) <b>Surrogates</b>	<b>200 U</b>	ug/L	200	98.0	1		04/02/24 17:05		
4-Bromofluorobenzene (S)	98	%.	70-130		1		04/02/24 17:05	460-00-4	
<b>8260C MSV</b>	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	<b>10.0 U</b>	ug/L	10.0	5.6	1		04/04/24 12:53	67-64-1	1c
tert-Amylmethyl ether	<b>1.0 U</b>	ug/L	1.0	0.27	1		04/04/24 12:53	994-05-8	1c
Benzene	<b>1.0 U</b>	ug/L	1.0	0.34	1		04/04/24 12:53	71-43-2	1c
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 12:53	74-97-5	1c
Bromodichloromethane	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 12:53	75-27-4	1c
Bromoform	<b>4.0 U</b>	ug/L	4.0	1.5	1		04/04/24 12:53	75-25-2	1c
Bromomethane	<b>4.0 U</b>	ug/L	4.0	2.5	1		04/04/24 12:53	74-83-9	1c
TOTAL BTEX	<b>6.0 U</b>	ug/L	6.0	2.4	1		04/04/24 12:53		1c
2-Butanone (MEK)	<b>10.0 U</b>	ug/L	10.0	1.5	1		04/04/24 12:53	78-93-3	1c
tert-Butyl Alcohol	<b>50.0 U</b>	ug/L	50.0	19.1	1		04/04/24 12:53	75-65-0	1c,2c
Carbon disulfide	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 12:53	75-15-0	1c
Carbon tetrachloride	<b>1.0 U</b>	ug/L	1.0	0.44	1		04/04/24 12:53	56-23-5	1c
Chlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.26	1		04/04/24 12:53	108-90-7	1c
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.64	1		04/04/24 12:53	75-00-3	1c
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.93	1		04/04/24 12:53	67-66-3	1c
Chloromethane	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 12:53	74-87-3	1c
Dibromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.43	1		04/04/24 12:53	124-48-1	1c
1,2-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 12:53	95-50-1	1c
1,3-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.45	1		04/04/24 12:53	541-73-1	1c
1,4-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 12:53	106-46-7	1c
1,1-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.50	1		04/04/24 12:53	75-34-3	1c
1,2-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.33	1		04/04/24 12:53	107-06-2	1c
1,2-Dichloroethene (Total)	<b>2.0 U</b>	ug/L	2.0	0.66	1		04/04/24 12:53	540-59-0	1c
1,1-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.49	1		04/04/24 12:53	75-35-4	1c
cis-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 12:53	156-59-2	1c
trans-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 12:53	156-60-5	1c
1,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 12:53	78-87-5	1c
cis-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 12:53	10061-01-5	1c
trans-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 12:53	10061-02-6	1c
Diethyl ether (Ethyl ether)	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 12:53	60-29-7	1c
Ethylbenzene	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 12:53	100-41-4	1c
Ethyl-tert-butyl ether	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 12:53	637-92-3	1c
2-Hexanone	<b>10.0 U</b>	ug/L	10.0	0.58	1		04/04/24 12:53	591-78-6	1c

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-12	Lab ID: 30670766001	Collected: 03/21/24 09:20	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		04/04/24 12:53	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		04/04/24 12:53	108-10-1	1c
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		04/04/24 12:53	1634-04-4	1c
Naphthalene	4.0 U	ug/L	4.0	2.1	1		04/04/24 12:53	91-20-3	1c,CL
Styrene	1.0 U	ug/L	1.0	0.33	1		04/04/24 12:53	100-42-5	1c
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		04/04/24 12:53	79-34-5	1c
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		04/04/24 12:53	127-18-4	1c
Toluene	1.0 U	ug/L	1.0	0.32	1		04/04/24 12:53	108-88-3	1c
1,2,4-Trichlorobenzene	4.0 U	ug/L	4.0	0.73	1		04/04/24 12:53	120-82-1	1c,CL
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		04/04/24 12:53	71-55-6	1c
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		04/04/24 12:53	79-00-5	1c
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		04/04/24 12:53	79-01-6	1c
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		04/04/24 12:53	75-01-4	1c
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		04/04/24 12:53	1330-20-7	1c
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		04/04/24 12:53	179601-23-1	1c
o-Xylene	1.0 U	ug/L	1.0	0.41	1		04/04/24 12:53	95-47-6	1c
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%.	70-130		1		04/04/24 12:53	460-00-4	1c
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1		04/04/24 12:53	17060-07-0	1c
Toluene-d8 (S)	97	%.	70-130		1		04/04/24 12:53	2037-26-5	1c
Dibromofluoromethane (S)	98	%.	70-130		1		04/04/24 12:53	1868-53-7	1c

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-4	Lab ID: 30670766002	Collected: 03/21/24 09:40	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015D TPH Reduced Volume</b>	Analytical Method: EPA 8015D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
TPH (C10-C28) <b>Surrogates</b>	<b>0.31</b>	mg/L	0.22	0.14	1	03/25/24 19:33	03/27/24 00:52		
o-Terphenyl (S)	86	%.	10-160		1	03/25/24 19:33	03/27/24 00:52	84-15-1	
<b>8015D GRO Water</b>	Analytical Method: EPA 8015D Pace Analytical Services - Greensburg								
TPH (C06-C10) <b>Surrogates</b>	<b>200 U</b>	ug/L	200	98.0	1		04/02/24 17:23		
4-Bromofluorobenzene (S)	97	%.	70-130		1		04/02/24 17:23	460-00-4	
<b>8260C MSV</b>	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	<b>10.0 U</b>	ug/L	10.0	5.6	1		04/04/24 15:25	67-64-1	1c
tert-Amylmethyl ether	<b>1.0 U</b>	ug/L	1.0	0.27	1		04/04/24 15:25	994-05-8	1c
Benzene	<b>1.0 U</b>	ug/L	1.0	0.34	1		04/04/24 15:25	71-43-2	1c
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 15:25	74-97-5	1c
Bromodichloromethane	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 15:25	75-27-4	1c
Bromoform	<b>4.0 U</b>	ug/L	4.0	1.5	1		04/04/24 15:25	75-25-2	1c
Bromomethane	<b>4.0 U</b>	ug/L	4.0	2.5	1		04/04/24 15:25	74-83-9	1c
TOTAL BTEX	<b>6.0 U</b>	ug/L	6.0	2.4	1		04/04/24 15:25		1c
2-Butanone (MEK)	<b>10.0 U</b>	ug/L	10.0	1.5	1		04/04/24 15:25	78-93-3	1c
tert-Butyl Alcohol	<b>50.0 U</b>	ug/L	50.0	19.1	1		04/04/24 15:25	75-65-0	1c,2c
Carbon disulfide	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 15:25	75-15-0	1c
Carbon tetrachloride	<b>1.0 U</b>	ug/L	1.0	0.44	1		04/04/24 15:25	56-23-5	1c
Chlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.26	1		04/04/24 15:25	108-90-7	1c
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.64	1		04/04/24 15:25	75-00-3	1c
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.93	1		04/04/24 15:25	67-66-3	1c
Chloromethane	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 15:25	74-87-3	1c
Dibromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.43	1		04/04/24 15:25	124-48-1	1c
1,2-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 15:25	95-50-1	1c
1,3-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.45	1		04/04/24 15:25	541-73-1	1c
1,4-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 15:25	106-46-7	1c
1,1-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.50	1		04/04/24 15:25	75-34-3	1c
1,2-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.33	1		04/04/24 15:25	107-06-2	1c
1,2-Dichloroethene (Total)	<b>2.0 U</b>	ug/L	2.0	0.66	1		04/04/24 15:25	540-59-0	1c
1,1-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.49	1		04/04/24 15:25	75-35-4	1c
cis-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 15:25	156-59-2	1c
trans-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 15:25	156-60-5	1c
1,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 15:25	78-87-5	1c
cis-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 15:25	10061-01-5	1c
trans-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 15:25	10061-02-6	1c
Diethyl ether (Ethyl ether)	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 15:25	60-29-7	1c
Ethylbenzene	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 15:25	100-41-4	1c
Ethyl-tert-butyl ether	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 15:25	637-92-3	1c
2-Hexanone	<b>0.94J</b>	ug/L	10.0	0.58	1		04/04/24 15:25	591-78-6	1c

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-4	Lab ID: 30670766002	Collected: 03/21/24 09:40	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		04/04/24 15:25	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		04/04/24 15:25	108-10-1	1c
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		04/04/24 15:25	1634-04-4	1c
Naphthalene	4.0 U	ug/L	4.0	2.1	1		04/04/24 15:25	91-20-3	1c,CL
Styrene	1.0 U	ug/L	1.0	0.33	1		04/04/24 15:25	100-42-5	1c
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		04/04/24 15:25	79-34-5	1c
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		04/04/24 15:25	127-18-4	1c
Toluene	1.0 U	ug/L	1.0	0.32	1		04/04/24 15:25	108-88-3	1c
1,2,4-Trichlorobenzene	4.0 U	ug/L	4.0	0.73	1		04/04/24 15:25	120-82-1	1c,CL
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		04/04/24 15:25	71-55-6	1c
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		04/04/24 15:25	79-00-5	1c
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		04/04/24 15:25	79-01-6	1c
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		04/04/24 15:25	75-01-4	1c
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		04/04/24 15:25	1330-20-7	1c
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		04/04/24 15:25	179601-23-1	1c
o-Xylene	1.0 U	ug/L	1.0	0.41	1		04/04/24 15:25	95-47-6	1c
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%.	70-130		1		04/04/24 15:25	460-00-4	1c
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1		04/04/24 15:25	17060-07-0	1c
Toluene-d8 (S)	81	%.	70-130		1		04/04/24 15:25	2037-26-5	1c
Dibromofluoromethane (S)	102	%.	70-130		1		04/04/24 15:25	1868-53-7	1c

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-16	Lab ID: 30670766003	Collected: 03/21/24 10:00	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015D TPH Reduced Volume</b>	Analytical Method: EPA 8015D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
TPH (C10-C28) <b>Surrogates</b>	<b>0.41</b>	mg/L	0.21	0.13	1	03/25/24 19:33	03/27/24 01:39		
o-Terphenyl (S)	87	%.	10-160		1	03/25/24 19:33	03/27/24 01:39	84-15-1	
<b>8015D GRO Water</b>	Analytical Method: EPA 8015D Pace Analytical Services - Greensburg								
TPH (C06-C10) <b>Surrogates</b>	<b>721</b>	ug/L	200	98.0	1		04/02/24 17:41		
4-Bromofluorobenzene (S)	82	%.	70-130		1		04/02/24 17:41	460-00-4	
<b>8260C MSV</b>	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	<b>10.0 U</b>	ug/L	10.0	5.6	1		04/04/24 15:50	67-64-1	1c
tert-Amylmethyl ether	<b>1.0 U</b>	ug/L	1.0	0.27	1		04/04/24 15:50	994-05-8	1c
Benzene	<b>1.0 U</b>	ug/L	1.0	0.34	1		04/04/24 15:50	71-43-2	1c
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 15:50	74-97-5	1c
Bromodichloromethane	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 15:50	75-27-4	1c
Bromoform	<b>4.0 U</b>	ug/L	4.0	1.5	1		04/04/24 15:50	75-25-2	1c
Bromomethane	<b>4.0 U</b>	ug/L	4.0	2.5	1		04/04/24 15:50	74-83-9	1c
TOTAL BTEX	<b>6.0 U</b>	ug/L	6.0	2.4	1		04/04/24 15:50		1c
2-Butanone (MEK)	<b>14.2</b>	ug/L	10.0	1.5	1		04/04/24 15:50	78-93-3	1c
tert-Butyl Alcohol	<b>50.0 U</b>	ug/L	50.0	19.1	1		04/04/24 15:50	75-65-0	1c,2c
Carbon disulfide	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 15:50	75-15-0	1c
Carbon tetrachloride	<b>1.0 U</b>	ug/L	1.0	0.44	1		04/04/24 15:50	56-23-5	1c
Chlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.26	1		04/04/24 15:50	108-90-7	1c
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.64	1		04/04/24 15:50	75-00-3	1c
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.93	1		04/04/24 15:50	67-66-3	1c
Chloromethane	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 15:50	74-87-3	1c
Dibromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.43	1		04/04/24 15:50	124-48-1	1c
1,2-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 15:50	95-50-1	1c
1,3-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.45	1		04/04/24 15:50	541-73-1	1c
1,4-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 15:50	106-46-7	1c
1,1-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.50	1		04/04/24 15:50	75-34-3	1c
1,2-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.33	1		04/04/24 15:50	107-06-2	1c
1,2-Dichloroethene (Total)	<b>2.0 U</b>	ug/L	2.0	0.66	1		04/04/24 15:50	540-59-0	1c
1,1-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.49	1		04/04/24 15:50	75-35-4	1c
cis-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 15:50	156-59-2	1c
trans-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 15:50	156-60-5	1c
1,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 15:50	78-87-5	1c
cis-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 15:50	10061-01-5	1c
trans-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 15:50	10061-02-6	1c
Diethyl ether (Ethyl ether)	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 15:50	60-29-7	1c
Ethylbenzene	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 15:50	100-41-4	1c
Ethyl-tert-butyl ether	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 15:50	637-92-3	1c
2-Hexanone	<b>10.0 U</b>	ug/L	10.0	0.58	1		04/04/24 15:50	591-78-6	1c

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-16	Lab ID: 30670766003	Collected: 03/21/24 10:00	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		04/04/24 15:50	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	2.4J	ug/L	10.0	0.42	1		04/04/24 15:50	108-10-1	1c
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		04/04/24 15:50	1634-04-4	1c
Naphthalene	4.0 U	ug/L	4.0	2.1	1		04/04/24 15:50	91-20-3	1c,CL
Styrene	1.0 U	ug/L	1.0	0.33	1		04/04/24 15:50	100-42-5	1c
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		04/04/24 15:50	79-34-5	1c
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		04/04/24 15:50	127-18-4	1c
Toluene	1.0 U	ug/L	1.0	0.32	1		04/04/24 15:50	108-88-3	1c
1,2,4-Trichlorobenzene	4.0 U	ug/L	4.0	0.73	1		04/04/24 15:50	120-82-1	1c,CL
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		04/04/24 15:50	71-55-6	1c
1,1,2-Trichloroethane	7.4	ug/L	1.0	0.33	1		04/04/24 15:50	79-00-5	1c
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		04/04/24 15:50	79-01-6	1c
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		04/04/24 15:50	75-01-4	1c
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		04/04/24 15:50	1330-20-7	1c
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		04/04/24 15:50	179601-23-1	1c
o-Xylene	1.0 U	ug/L	1.0	0.41	1		04/04/24 15:50	95-47-6	1c
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%.	70-130		1		04/04/24 15:50	460-00-4	1c
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1		04/04/24 15:50	17060-07-0	1c
Toluene-d8 (S)	96	%.	70-130		1		04/04/24 15:50	2037-26-5	1c
Dibromofluoromethane (S)	76	%.	70-130		1		04/04/24 15:50	1868-53-7	1c

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-1	Lab ID: 30670766004	Collected: 03/21/24 10:30	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015D TPH Reduced Volume</b>	Analytical Method: EPA 8015D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
TPH (C10-C28) <b>Surrogates</b>	<b>0.21 U</b>	mg/L	0.21	0.13	1	03/25/24 19:33	03/27/24 02:03		
o-Terphenyl (S)	87	%.	10-160		1	03/25/24 19:33	03/27/24 02:03	84-15-1	
<b>8015D GRO Water</b>	Analytical Method: EPA 8015D Pace Analytical Services - Greensburg								
TPH (C06-C10) <b>Surrogates</b>	<b>200 U</b>	ug/L	200	98.0	1		04/02/24 18:17		
4-Bromofluorobenzene (S)	96	%.	70-130		1		04/02/24 18:17	460-00-4	
<b>8260C MSV</b>	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	<b>10.0 U</b>	ug/L	10.0	5.6	1		04/04/24 16:15	67-64-1	1c,IS
tert-Amylmethyl ether	<b>1.0 U</b>	ug/L	1.0	0.27	1		04/04/24 16:15	994-05-8	1c,IS
Benzene	<b>1.0 U</b>	ug/L	1.0	0.34	1		04/04/24 16:15	71-43-2	1c,IS
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 16:15	74-97-5	1c,IS
Bromodichloromethane	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 16:15	75-27-4	1c,IS
Bromoform	<b>4.0 U</b>	ug/L	4.0	1.5	1		04/04/24 16:15	75-25-2	1c
Bromomethane	<b>4.0 U</b>	ug/L	4.0	2.5	1		04/04/24 16:15	74-83-9	1c,IS
TOTAL BTEX	<b>6.0 U</b>	ug/L	6.0	2.4	1		04/04/24 16:15		1c,ES
2-Butanone (MEK)	<b>10.0 U</b>	ug/L	10.0	1.5	1		04/04/24 16:15	78-93-3	1c,IS
tert-Butyl Alcohol	<b>50.0 U</b>	ug/L	50.0	19.1	1		04/04/24 16:15	75-65-0	1c,2c,IS
Carbon disulfide	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 16:15	75-15-0	1c,IS
Carbon tetrachloride	<b>1.0 U</b>	ug/L	1.0	0.44	1		04/04/24 16:15	56-23-5	1c,IS
Chlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.26	1		04/04/24 16:15	108-90-7	1c
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.64	1		04/04/24 16:15	75-00-3	1c,IS
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.93	1		04/04/24 16:15	67-66-3	1c,IS
Chloromethane	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 16:15	74-87-3	1c,IS
Dibromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.43	1		04/04/24 16:15	124-48-1	1c,IS
1,2-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 16:15	95-50-1	1c
1,3-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.45	1		04/04/24 16:15	541-73-1	1c
1,4-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/04/24 16:15	106-46-7	1c
1,1-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.50	1		04/04/24 16:15	75-34-3	1c,IS
1,2-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.33	1		04/04/24 16:15	107-06-2	1c,IS
1,2-Dichloroethene (Total)	<b>2.0 U</b>	ug/L	2.0	0.66	1		04/04/24 16:15	540-59-0	1c
1,1-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.49	1		04/04/24 16:15	75-35-4	1c,IS
cis-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 16:15	156-59-2	1c,IS
trans-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 16:15	156-60-5	1c,IS
1,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/04/24 16:15	78-87-5	1c,IS
cis-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 16:15	10061-01-5	1c,IS
trans-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 16:15	10061-02-6	1c
Diethyl ether (Ethyl ether)	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/04/24 16:15	60-29-7	1c,IS
Ethylbenzene	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/04/24 16:15	100-41-4	1c
Ethyl-tert-butyl ether	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 16:15	637-92-3	1c,IS
2-Hexanone	<b>10.0 U</b>	ug/L	10.0	0.58	1		04/04/24 16:15	591-78-6	1c

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-1	Lab ID: 30670766004	Collected: 03/21/24 10:30	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
Methylene Chloride	<b>0.78J</b>	ug/L	1.0	0.64	1		04/04/24 16:15	75-09-2	1c,IS
4-Methyl-2-pentanone (MIBK)	<b>10.0 U</b>	ug/L	10.0	0.42	1		04/04/24 16:15	108-10-1	1c,IS
Methyl-tert-butyl ether	<b>1.0 U</b>	ug/L	1.0	0.25	1		04/04/24 16:15	1634-04-4	1c,IS
Naphthalene	<b>4.0 U</b>	ug/L	4.0	2.1	1		04/04/24 16:15	91-20-3	1c,CL
Styrene	<b>1.0 U</b>	ug/L	1.0	0.33	1		04/04/24 16:15	100-42-5	1c
1,1,2,2-Tetrachloroethane	<b>1.0 U</b>	ug/L	1.0	0.47	1		04/04/24 16:15	79-34-5	1c
Tetrachloroethene	<b>1.0 U</b>	ug/L	1.0	0.39	1		04/04/24 16:15	127-18-4	1c
Toluene	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/04/24 16:15	108-88-3	1c
1,2,4-Trichlorobenzene	<b>4.0 U</b>	ug/L	4.0	0.73	1		04/04/24 16:15	120-82-1	1c,CL
1,1,1-Trichloroethane	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/04/24 16:15	71-55-6	1c,IS
1,1,2-Trichloroethane	<b>1.0 U</b>	ug/L	1.0	0.33	1		04/04/24 16:15	79-00-5	1c
Trichloroethene	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 16:15	79-01-6	1c
Vinyl chloride	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/04/24 16:15	75-01-4	1c,CL
Xylene (Total)	<b>3.0 U</b>	ug/L	3.0	1.4	1		04/04/24 16:15	1330-20-7	1c
m&p-Xylene	<b>2.0 U</b>	ug/L	2.0	0.94	1		04/04/24 16:15	179601-23-1	1c
o-Xylene	<b>1.0 U</b>	ug/L	1.0	0.41	1		04/04/24 16:15	95-47-6	1c
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%.	70-130		1		04/04/24 16:15	460-00-4	1c
1,2-Dichloroethane-d4 (S)	106	%.	70-130		1		04/04/24 16:15	17060-07-0	1c,IS
Toluene-d8 (S)	95	%.	70-130		1		04/04/24 16:15	2037-26-5	1c
Dibromofluoromethane (S)	116	%.	70-130		1		04/04/24 16:15	1868-53-7	1c,IS

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-9	Lab ID: 30670766005	Collected: 03/21/24 10:45	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015D TPH Reduced Volume</b>	Analytical Method: EPA 8015D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
TPH (C10-C28) <b>Surrogates</b>	<b>5.2</b>	mg/L	2.2	1.3	10	03/25/24 19:33	03/27/24 04:01		
o-Terphenyl (S)	0	%.	10-160		10	03/25/24 19:33	03/27/24 04:01	84-15-1	S4
<b>8015D GRO Water</b>	Analytical Method: EPA 8015D Pace Analytical Services - Greensburg								
TPH (C06-C10) <b>Surrogates</b>	<b>261</b>	ug/L	200	98.0	1		04/02/24 17:59		
4-Bromofluorobenzene (S)	98	%.	70-130		1		04/02/24 17:59	460-00-4	
<b>8260C MSV</b>	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	<b>8.2J</b>	ug/L	10.0	5.6	1		04/05/24 13:42	67-64-1	H1
tert-Amylmethyl ether	<b>1.3</b>	ug/L	1.0	0.27	1		04/05/24 13:42	994-05-8	H1
Benzene	<b>8.9</b>	ug/L	1.0	0.34	1		04/05/24 13:42	71-43-2	H1
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/05/24 13:42	74-97-5	H1
Bromodichloromethane	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/05/24 13:42	75-27-4	H1
Bromoform	<b>4.0 U</b>	ug/L	4.0	1.5	1		04/05/24 13:42	75-25-2	H1
Bromomethane	<b>4.0 U</b>	ug/L	4.0	2.5	1		04/05/24 13:42	74-83-9	H1
TOTAL BTEX	<b>10.0</b>	ug/L	6.0	2.4	1		04/05/24 13:42		
2-Butanone (MEK)	<b>1.6J</b>	ug/L	10.0	1.5	1		04/05/24 13:42	78-93-3	H1
tert-Butyl Alcohol	<b>259</b>	ug/L	50.0	19.1	1		04/05/24 13:42	75-65-0	H1,ML
Carbon disulfide	<b>0.53J</b>	ug/L	1.0	0.32	1		04/05/24 13:42	75-15-0	H1
Carbon tetrachloride	<b>1.0 U</b>	ug/L	1.0	0.44	1		04/05/24 13:42	56-23-5	H1,L2
Chlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.26	1		04/05/24 13:42	108-90-7	H1
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.64	1		04/05/24 13:42	75-00-3	H1
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.93	1		04/05/24 13:42	67-66-3	H1,L2
Chloromethane	<b>1.0 U</b>	ug/L	1.0	0.40	1		04/05/24 13:42	74-87-3	H1
Dibromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.43	1		04/05/24 13:42	124-48-1	H1
1,2-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/05/24 13:42	95-50-1	H1
1,3-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.45	1		04/05/24 13:42	541-73-1	H1
1,4-Dichlorobenzene	<b>1.0 U</b>	ug/L	1.0	0.48	1		04/05/24 13:42	106-46-7	H1
1,1-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.50	1		04/05/24 13:42	75-34-3	H1,L2
1,2-Dichloroethane	<b>1.0 U</b>	ug/L	1.0	0.33	1		04/05/24 13:42	107-06-2	2c,CL, H1,L2
1,2-Dichloroethene (Total)	<b>2.0 U</b>	ug/L	2.0	0.66	1		04/05/24 13:42	540-59-0	
1,1-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.49	1		04/05/24 13:42	75-35-4	H1,L2
cis-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.38	1		04/05/24 13:42	156-59-2	H1,L2
trans-1,2-Dichloroethene	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/05/24 13:42	156-60-5	H1,L2
1,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.28	1		04/05/24 13:42	78-87-5	H1
cis-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/05/24 13:42	10061-01-5	H1
trans-1,3-Dichloropropene	<b>1.0 U</b>	ug/L	1.0	0.32	1		04/05/24 13:42	10061-02-6	H1
Diethyl ether (Ethyl ether)	<b>1.0 U</b>	ug/L	1.0	0.35	1		04/05/24 13:42	60-29-7	H1
Ethylbenzene	<b>0.75J</b>	ug/L	1.0	0.40	1		04/05/24 13:42	100-41-4	H1
Ethyl-tert-butyl ether	<b>1.0 U</b>	ug/L	1.0	0.29	1		04/05/24 13:42	637-92-3	H1

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-9	Lab ID: 30670766005	Collected: 03/21/24 10:45	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		04/05/24 13:42	591-78-6	H1
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		04/05/24 13:42	75-09-2	H1,L2
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		04/05/24 13:42	108-10-1	H1
Methyl-tert-butyl ether	26.0	ug/L	1.0	0.25	1		04/05/24 13:42	1634-04-4	H1,ML
Naphthalene	4.0 U	ug/L	4.0	2.1	1		04/05/24 13:42	91-20-3	H1
Styrene	1.0 U	ug/L	1.0	0.33	1		04/05/24 13:42	100-42-5	H1
1,1,2,2-Tetrachloroethane	0.66J	ug/L	1.0	0.47	1		04/05/24 13:42	79-34-5	H1
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		04/05/24 13:42	127-18-4	H1
Toluene	0.43J	ug/L	1.0	0.32	1		04/05/24 13:42	108-88-3	H1
1,2,4-Trichlorobenzene	4.0 U	ug/L	4.0	0.73	1		04/05/24 13:42	120-82-1	H1
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		04/05/24 13:42	71-55-6	H1,L2
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		04/05/24 13:42	79-00-5	H1
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		04/05/24 13:42	79-01-6	H1
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		04/05/24 13:42	75-01-4	H1
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		04/05/24 13:42	1330-20-7	
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		04/05/24 13:42	179601-23-1	H1
o-Xylene	1.0 U	ug/L	1.0	0.41	1		04/05/24 13:42	95-47-6	H1
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%.	70-130		1		04/05/24 13:42	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%.	70-130		1		04/05/24 13:42	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		1		04/05/24 13:42	2037-26-5	
Dibromofluoromethane (S)	100	%.	70-130		1		04/05/24 13:42	1868-53-7	

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-18	Lab ID: 30670766006	Collected: 03/21/24 11:10	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015D TPH Reduced Volume</b>	Analytical Method: EPA 8015D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
TPH (C10-C28) <b>Surrogates</b>	1.9	mg/L	0.21	0.13	1	03/25/24 19:33	03/27/24 05:11		
o-Terphenyl (S)	85	%.	10-160		1	03/25/24 19:33	03/27/24 05:11	84-15-1	
<b>8015D GRO Water</b>	Analytical Method: EPA 8015D Pace Analytical Services - Greensburg								
TPH (C06-C10) <b>Surrogates</b>	559	ug/L	200	98.0	1		04/02/24 18:53		
4-Bromofluorobenzene (S)	90	%.	70-130		1		04/02/24 18:53	460-00-4	
<b>8260C MSV</b>	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	10.0 U	ug/L	10.0	5.6	1		04/05/24 17:54	67-64-1	H1
tert-Amylmethyl ether	1.7	ug/L	1.0	0.27	1		04/05/24 17:54	994-05-8	H1
Benzene	8.1	ug/L	1.0	0.34	1		04/05/24 17:54	71-43-2	H1
Bromochloromethane	1.0 U	ug/L	1.0	0.48	1		04/05/24 17:54	74-97-5	H1
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		04/05/24 17:54	75-27-4	H1
Bromoform	4.0 U	ug/L	4.0	1.5	1		04/05/24 17:54	75-25-2	H1
Bromomethane	4.0 U	ug/L	4.0	2.5	1		04/05/24 17:54	74-83-9	H1
TOTAL BTEX	8.1	ug/L	6.0	2.4	1		04/05/24 17:54		
2-Butanone (MEK)	3.5J	ug/L	10.0	1.5	1		04/05/24 17:54	78-93-3	H1
tert-Butyl Alcohol	37.6J	ug/L	50.0	19.1	1		04/05/24 17:54	75-65-0	H1
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		04/05/24 17:54	75-15-0	H1
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		04/05/24 17:54	56-23-5	H1,L2
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		04/05/24 17:54	108-90-7	H1
Chloroethane	1.0 U	ug/L	1.0	0.64	1		04/05/24 17:54	75-00-3	H1
Chloroform	1.0 U	ug/L	1.0	0.93	1		04/05/24 17:54	67-66-3	H1,L2
Chloromethane	1.0 U	ug/L	1.0	0.40	1		04/05/24 17:54	74-87-3	H1
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		04/05/24 17:54	124-48-1	H1
1,2-Dichlorobenzene	0.65J	ug/L	1.0	0.38	1		04/05/24 17:54	95-50-1	H1
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		04/05/24 17:54	541-73-1	H1
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		04/05/24 17:54	106-46-7	H1
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.50	1		04/05/24 17:54	75-34-3	H1,L2
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		04/05/24 17:54	107-06-2	CL,H1, L2
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		04/05/24 17:54	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.49	1		04/05/24 17:54	75-35-4	H1,L2
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		04/05/24 17:54	156-59-2	H1,L2
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		04/05/24 17:54	156-60-5	H1,L2
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		04/05/24 17:54	78-87-5	H1
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		04/05/24 17:54	10061-01-5	H1
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		04/05/24 17:54	10061-02-6	H1
Diethyl ether (Ethyl ether)	1.0 U	ug/L	1.0	0.35	1		04/05/24 17:54	60-29-7	H1
Ethylbenzene	1.0 U	ug/L	1.0	0.40	1		04/05/24 17:54	100-41-4	H1
Ethyl-tert-butyl ether	1.0 U	ug/L	1.0	0.29	1		04/05/24 17:54	637-92-3	H1

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: MW-18	Lab ID: 30670766006	Collected: 03/21/24 11:10	Received: 03/21/24 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C MSV</b>	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
2-Hexanone	4.6J	ug/L	10.0	0.58	1		04/05/24 17:54	591-78-6	H1
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		04/05/24 17:54	75-09-2	H1,L2
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		04/05/24 17:54	108-10-1	H1
Methyl-tert-butyl ether	4.7	ug/L	1.0	0.25	1		04/05/24 17:54	1634-04-4	H1
Naphthalene	4.0 U	ug/L	4.0	2.1	1		04/05/24 17:54	91-20-3	H1
Styrene	1.0 U	ug/L	1.0	0.33	1		04/05/24 17:54	100-42-5	H1
1,1,2,2-Tetrachloroethane	0.97J	ug/L	1.0	0.47	1		04/05/24 17:54	79-34-5	H1
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		04/05/24 17:54	127-18-4	H1
Toluene	1.0 U	ug/L	1.0	0.32	1		04/05/24 17:54	108-88-3	H1
1,2,4-Trichlorobenzene	4.0 U	ug/L	4.0	0.73	1		04/05/24 17:54	120-82-1	H1
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		04/05/24 17:54	71-55-6	H1,L2
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		04/05/24 17:54	79-00-5	H1
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		04/05/24 17:54	79-01-6	H1
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		04/05/24 17:54	75-01-4	H1
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		04/05/24 17:54	1330-20-7	
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		04/05/24 17:54	179601-23-1	H1
o-Xylene	1.0 U	ug/L	1.0	0.41	1		04/05/24 17:54	95-47-6	H1
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%.	70-130		1		04/05/24 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	70-130		1		04/05/24 17:54	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		1		04/05/24 17:54	2037-26-5	
Dibromofluoromethane (S)	100	%.	70-130		1		04/05/24 17:54	1868-53-7	

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: PW	Lab ID: 30670766007	Collected: 03/21/24 11:35	Received: 03/21/24 22:00	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>	Analytical Method: EPA 524.2								
	Pace Analytical Services - Long Island								
Benzene	0.50 U	ug/L	0.50	0.19	1		03/26/24 14:32	71-43-2	
Bromobenzene	0.50 U	ug/L	0.50	0.16	1		03/26/24 14:32	108-86-1	
Bromoform	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	74-97-5	
Bromochloromethane	0.50 U	ug/L	0.50	0.20	1		03/26/24 14:32	75-27-4	
Bromodichloromethane	0.50 U	ug/L	0.50	0.14	1		03/26/24 14:32	75-25-2	
Bromoform	0.50 U	ug/L	0.50	0.40	1		03/26/24 14:32	74-83-9	
Bromomethane	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	104-51-8	
n-Butylbenzene	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	135-98-8	
sec-Butylbenzene	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	98-06-6	
tert-Butylbenzene	0.50 U	ug/L	0.50	0.21	1		03/26/24 14:32	56-23-5	
Carbon tetrachloride	0.50 U	ug/L	0.50	0.20	1		03/26/24 14:32	108-90-7	
Chlorobenzene	0.50 U	ug/L	0.50	0.17	1		03/26/24 14:32	75-45-6	N3
Chlorodifluoromethane	0.50 U	ug/L	0.50	0.080	1		03/26/24 14:32	95-49-8	
Chloroethane	0.50 U	ug/L	0.50	0.39	1		03/26/24 14:32	75-00-3	
Chloroform	0.50 U	ug/L	0.50	0.21	1		03/26/24 14:32	67-66-3	
Chloromethane	0.50 U	ug/L	0.50	0.37	1		03/26/24 14:32	74-87-3	
2-Chlorotoluene	0.50 U	ug/L	0.50	0.12	1		03/26/24 14:32	124-48-1	
4-Chlorotoluene	0.50 U	ug/L	0.50	0.21	1		03/26/24 14:32	106-43-4	
Dibromochloromethane	0.50 U	ug/L	0.50	0.22	1		03/26/24 14:32	156-59-2	
Dibromomethane	0.50 U	ug/L	0.50	0.17	1		03/26/24 14:32	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	0.50	0.12	1		03/26/24 14:32	541-73-1	
1,3-Dichlorobenzene	0.50 U	ug/L	0.50	0.15	1		03/26/24 14:32	106-46-7	
1,4-Dichlorobenzene	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	1634-04-4	
Dichlorodifluoromethane	0.50 U	ug/L	0.50	0.35	1		03/26/24 14:32	127-18-4	
1,1-Dichloroethane	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	100-61-01-5	
1,2-Dichloroethane	0.50 U	ug/L	0.50	0.14	1		03/26/24 14:32	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	142-28-9	
cis-1,2-Dichloroethene	0.50 U	ug/L	0.50	0.21	1		03/26/24 14:32	594-20-7	
trans-1,2-Dichloroethene	0.50 U	ug/L	0.50	0.17	1		03/26/24 14:32	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	0.50	0.20	1		03/26/24 14:32	1634-04-4	
1,3-Dichloropropane	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	100-41-4	
2,2-Dichloropropane	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	100-65-1	
1,1-Dichloropropene	0.50 U	ug/L	0.50	0.20	1		03/26/24 14:32	100-61-02-6	
cis-1,3-Dichloropropene	0.50 U	ug/L	0.50	0.13	1		03/26/24 14:32	100-61-01-5	
trans-1,3-Dichloropropene	0.50 U	ug/L	0.50	0.11	1		03/26/24 14:32	100-61-02-6	
Ethylbenzene	0.50 U	ug/L	0.50	0.15	1		03/26/24 14:32	127-18-4	
Hexachloro-1,3-butadiene	0.50 U	ug/L	0.50	0.27	1		03/26/24 14:32	87-68-3	
Isopropylbenzene (Cumene)	0.50 U	ug/L	0.50	0.15	1		03/26/24 14:32	98-82-8	
p-Isopropyltoluene	0.50 U	ug/L	0.50	0.20	1		03/26/24 14:32	99-87-6	
Methylene Chloride	0.50 U	ug/L	0.50	0.28	1		03/26/24 14:32	100-41-4	
Methyl-tert-butyl ether	0.50 U	ug/L	0.50	0.13	1		03/26/24 14:32	1634-04-4	
n-Propylbenzene	0.50 U	ug/L	0.50	0.21	1		03/26/24 14:32	100-65-1	
Styrene	0.50 U	ug/L	0.50	0.14	1		03/26/24 14:32	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	0.50	0.23	1		03/26/24 14:32	127-18-4	
1,1,2,2-Tetrachloroethane	0.50 U	ug/L	0.50	0.12	1		03/26/24 14:32	100-61-01-5	
Tetrachloroethene	0.50 U	ug/L	0.50	0.20	1		03/26/24 14:32	100-61-02-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Sample: PW	Lab ID: 30670766007	Collected: 03/21/24 11:35	Received: 03/21/24 22:00	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>	Analytical Method: EPA 524.2								
	Pace Analytical Services - Long Island								
Toluene	0.50 U	ug/L	0.50	0.17	1		03/26/24 14:32	108-88-3	
Total Trihalomethanes (Calc.)	0.50 U	ug/L	0.50		1		03/26/24 14:32		
1,2,3-Trichlorobenzene	0.50 U	ug/L	0.50	0.14	1		03/26/24 14:32	87-61-6	
1,2,4-Trichlorobenzene	0.50 U	ug/L	0.50	0.19	1		03/26/24 14:32	120-82-1	
1,1,1-Trichloroethane	0.50 U	ug/L	0.50	0.16	1		03/26/24 14:32	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	0.50	0.21	1		03/26/24 14:32	79-00-5	
Trichloroethene	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	0.50	0.25	1		03/26/24 14:32	75-69-4	
1,2,3-Trichloropropane	0.50 U	ug/L	0.50	0.12	1		03/26/24 14:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	0.50 U	ug/L	0.50	0.26	1		03/26/24 14:32	76-13-1	N3
1,2,4-Trimethylbenzene	0.50 U	ug/L	0.50	0.16	1		03/26/24 14:32	95-63-6	
1,3,5-Trimethylbenzene	0.50 U	ug/L	0.50	0.18	1		03/26/24 14:32	108-67-8	
Vinyl chloride	0.50 U	ug/L	0.50	0.20	1		03/26/24 14:32	75-01-4	
Xylene (Total)	0.50 U	ug/L	0.50		1		03/26/24 14:32	1330-20-7	
m&p-Xylene	0.50 U	ug/L	0.50	0.38	1		03/26/24 14:32	179601-23-1	
o-Xylene	0.50 U	ug/L	0.50	0.14	1		03/26/24 14:32	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	89	%	70-130		1		03/26/24 14:32	2199-69-1	
4-Bromofluorobenzene (S)	98	%	70-130		1		03/26/24 14:32	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

QC Batch:	659187	Analysis Method:	EPA 8015D
QC Batch Method:	EPA 8015D	Analysis Description:	8015D GRO Water
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30670766001, 30670766002, 30670766003, 30670766004, 30670766005, 30670766006		

METHOD BLANK: 3210251 Matrix: Water

Associated Lab Samples: 30670766001, 30670766002, 30670766003, 30670766004, 30670766005, 30670766006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	ug/L	200 U	200	98.0	04/02/24 15:35	
4-Bromofluorobenzene (S)	%.	96	70-130		04/02/24 15:35	

LABORATORY CONTROL SAMPLE: 3210252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C10)	ug/L	1000	1230	123	67-129	
4-Bromofluorobenzene (S)	%.			89	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3210253 3210254

Parameter	Units	30670932001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C10)	ug/L	<98.0	1000	1000	1120	1040	111	104	70-127	7	25	
4-Bromofluorobenzene (S)	%.						90	90	70-130			

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

QC Batch:	341848	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Long Island

Associated Lab Samples: 30670766007

METHOD BLANK: 1761427 Matrix: Water

Associated Lab Samples: 30670766007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50	0.23	03/26/24 06:45	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50	0.16	03/26/24 06:45	
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50	0.12	03/26/24 06:45	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50	0.21	03/26/24 06:45	
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50	0.26	03/26/24 06:45	N3
1,1-Dichloroethane	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
1,1-Dichloroethene	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
1,1-Dichloropropene	ug/L	0.50 U	0.50	0.20	03/26/24 06:45	
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50	0.14	03/26/24 06:45	
1,2,3-Trichloropropane	ug/L	0.50 U	0.50	0.12	03/26/24 06:45	
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50	0.19	03/26/24 06:45	
1,2,4-Trimethylbenzene	ug/L	0.50 U	0.50	0.16	03/26/24 06:45	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50	0.12	03/26/24 06:45	
1,2-Dichloroethane	ug/L	0.50 U	0.50	0.14	03/26/24 06:45	
1,2-Dichloropropane	ug/L	0.50 U	0.50	0.20	03/26/24 06:45	
1,3,5-Trimethylbenzene	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
1,3-Dichlorobenzene	ug/L	0.50 U	0.50	0.15	03/26/24 06:45	
1,3-Dichloropropane	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
2,2-Dichloropropane	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
2-Chlorotoluene	ug/L	0.50 U	0.50	0.12	03/26/24 06:45	
4-Chlorotoluene	ug/L	0.50 U	0.50	0.21	03/26/24 06:45	
Benzene	ug/L	0.50 U	0.50	0.19	03/26/24 06:45	
Bromobenzene	ug/L	0.50 U	0.50	0.16	03/26/24 06:45	
Bromoform	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
Bromomethane	ug/L	0.50 U	0.50	0.20	03/26/24 06:45	
Bromodichloromethane	ug/L	0.50 U	0.50	0.14	03/26/24 06:45	
Bromoform	ug/L	0.50 U	0.50	0.16	03/26/24 06:45	
Bromomethane	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
Carbon tetrachloride	ug/L	0.50 U	0.50	0.20	03/26/24 06:45	
Chlorobenzene	ug/L	0.50 U	0.50	0.17	03/26/24 06:45	
Chlorodifluoromethane	ug/L	0.50 U	0.50	0.080	03/26/24 06:45	N3
Chloroethane	ug/L	0.50 U	0.50	0.39	03/26/24 06:45	
Chloroform	ug/L	0.50 U	0.50	0.21	03/26/24 06:45	
Chloromethane	ug/L	0.50 U	0.50	0.37	03/26/24 06:45	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50	0.21	03/26/24 06:45	
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50	0.13	03/26/24 06:45	
Dibromochloromethane	ug/L	0.50 U	0.50	0.22	03/26/24 06:45	
Dibromomethane	ug/L	0.50 U	0.50	0.17	03/26/24 06:45	
Dichlorodifluoromethane	ug/L	0.50 U	0.50	0.35	03/26/24 06:45	
Ethylbenzene	ug/L	0.50 U	0.50	0.15	03/26/24 06:45	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

METHOD BLANK: 1761427

Matrix: Water

Associated Lab Samples: 30670766007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	0.50 U	0.50	0.27	03/26/24 06:45	
Isopropylbenzene (Cumene)	ug/L	0.50 U	0.50	0.15	03/26/24 06:45	
m&p-Xylene	ug/L	0.50 U	0.50	0.38	03/26/24 06:45	
Methyl-tert-butyl ether	ug/L	0.50 U	0.50	0.13	03/26/24 06:45	
Methylene Chloride	ug/L	0.50 U	0.50	0.28	03/26/24 06:45	
n-Butylbenzene	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
n-Propylbenzene	ug/L	0.50 U	0.50	0.21	03/26/24 06:45	
o-Xylene	ug/L	0.50 U	0.50	0.14	03/26/24 06:45	
p-Isopropyltoluene	ug/L	0.50 U	0.50	0.20	03/26/24 06:45	
sec-Butylbenzene	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
Styrene	ug/L	0.50 U	0.50	0.14	03/26/24 06:45	
tert-Butylbenzene	ug/L	0.50 U	0.50	0.21	03/26/24 06:45	
Tetrachloroethene	ug/L	0.50 U	0.50	0.20	03/26/24 06:45	
Toluene	ug/L	0.50 U	0.50	0.17	03/26/24 06:45	
Total Trihalomethanes (Calc.)	ug/L	0.50 U	0.50		03/26/24 06:45	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50	0.17	03/26/24 06:45	
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50	0.11	03/26/24 06:45	
Trichloroethene	ug/L	0.50 U	0.50	0.18	03/26/24 06:45	
Trichlorofluoromethane	ug/L	0.50 U	0.50	0.25	03/26/24 06:45	
Vinyl chloride	ug/L	0.50 U	0.50	0.20	03/26/24 06:45	
Xylene (Total)	ug/L	0.50 U	0.50		03/26/24 06:45	
1,2-Dichlorobenzene-d4 (S)	%	82	70-130		03/26/24 06:45	
4-Bromofluorobenzene (S)	%	75	70-130		03/26/24 06:45	

LABORATORY CONTROL SAMPLE: 1761428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.8	108	70-130	
1,1,1-Trichloroethane	ug/L	10	9.8	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	10.3	103	70-130	
1,1,2-Trichloroethane	ug/L	10	10.7	107	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	9.8	98	70-130 N3	
1,1-Dichloroethane	ug/L	10	9.9	99	70-130	
1,1-Dichloroethene	ug/L	10	9.6	96	70-130	
1,1-Dichloropropene	ug/L	10	9.1	91	70-130	
1,2,3-Trichlorobenzene	ug/L	10	10.3	103	70-130	
1,2,3-Trichloropropane	ug/L	10	10.1	101	70-130	
1,2,4-Trichlorobenzene	ug/L	10	9.7	97	70-130	
1,2,4-Trimethylbenzene	ug/L	10	10.1	101	70-130	
1,2-Dichlorobenzene	ug/L	10	10.9	109	70-130	
1,2-Dichloroethane	ug/L	10	9.9	99	70-130	
1,2-Dichloropropane	ug/L	10	9.4	94	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.9	99	70-130	
1,3-Dichlorobenzene	ug/L	10	11.1	111	70-130	

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

LABORATORY CONTROL SAMPLE: 1761428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	10	9.9	99	70-130	
1,4-Dichlorobenzene	ug/L	10	11.0	110	70-130	
2,2-Dichloropropane	ug/L	10	10.9	109	70-130	
2-Chlorotoluene	ug/L	10	9.9	99	70-130	
4-Chlorotoluene	ug/L	10	10.3	103	70-130	
Benzene	ug/L	10	9.5	95	70-130	
Bromobenzene	ug/L	10	10.3	103	70-130	
Bromochloromethane	ug/L	10	10.5	105	70-130	
Bromodichloromethane	ug/L	10	10.3	103	70-130	
Bromoform	ug/L	10	11.2	112	70-130	
Bromomethane	ug/L	10	8.2	82	70-130	
Carbon tetrachloride	ug/L	10	10.4	104	70-130	
Chlorobenzene	ug/L	10	9.6	96	70-130	
Chlorodifluoromethane	ug/L	10	7.0	70	70-130 N3	
Chloroethane	ug/L	10	9.7	97	70-130	
Chloroform	ug/L	10	10.2	102	70-130	
Chloromethane	ug/L	10	10.2	102	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.4	94	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.4	94	70-130	
Dibromochloromethane	ug/L	10	11.1	111	70-130	
Dibromomethane	ug/L	10	10.4	104	70-130	
Dichlorodifluoromethane	ug/L	10	8.5	85	70-130	
Ethylbenzene	ug/L	10	9.0	90	70-130	
Hexachloro-1,3-butadiene	ug/L	10	11.2	112	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.6	96	70-130	
m&p-Xylene	ug/L	20	19.6	98	70-130	
Methyl-tert-butyl ether	ug/L	10	7.4	74	70-130	
Methylene Chloride	ug/L	10	9.8	98	70-130	
n-Butylbenzene	ug/L	10	10.2	102	70-130	
n-Propylbenzene	ug/L	10	9.8	98	70-130	
o-Xylene	ug/L	10	9.4	94	70-130	
p-Isopropyltoluene	ug/L	10	10.0	100	70-130	
sec-Butylbenzene	ug/L	10	10	100	70-130	
Styrene	ug/L	10	10.5	105	70-130	
tert-Butylbenzene	ug/L	10	9.7	97	70-130	
Tetrachloroethene	ug/L	10	10.4	104	70-130	
Toluene	ug/L	10	9.1	91	70-130	
Total Trihalomethanes (Calc.)	ug/L		42.9			
trans-1,2-Dichloroethene	ug/L	10	9.7	97	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.9	99	70-130	
Trichloroethene	ug/L	10	9.3	93	70-130	
Trichlorofluoromethane	ug/L	10	9.8	98	70-130	
Vinyl chloride	ug/L	10	9.2	92	70-130	
Xylene (Total)	ug/L	30	29.0	97	70-130	
1,2-Dichlorobenzene-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

SAMPLE DUPLICATE: 1763015

Parameter	Units	70291366001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50 U		20	
1,1,1-Trichloroethane	ug/L	<0.50	0.50 U		20	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50 U		20	
1,1,2-Trichloroethane	ug/L	<0.50	0.50 U		20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50 U		20 N3	
1,1-Dichloroethane	ug/L	<0.50	0.50 U		20	
1,1-Dichloroethene	ug/L	<0.50	0.50 U		20	
1,1-Dichloropropene	ug/L	<0.50	0.50 U		20	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50 U		20	
1,2,3-Trichloropropane	ug/L	<0.50	0.50 U		20	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50 U		20	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50 U		20	
1,2-Dichlorobenzene	ug/L	<0.50	0.50 U		20	
1,2-Dichloroethane	ug/L	<0.50	0.50 U		20	
1,2-Dichloropropane	ug/L	<0.50	0.50 U		20	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50 U		20	
1,3-Dichlorobenzene	ug/L	<0.50	0.50 U		20	
1,3-Dichloropropane	ug/L	<0.50	0.50 U		20	
1,4-Dichlorobenzene	ug/L	<0.50	0.50 U		20	
2,2-Dichloropropene	ug/L	<0.50	0.50 U		20	
2-Chlorotoluene	ug/L	<0.50	0.50 U		20	
4-Chlorotoluene	ug/L	<0.50	0.50 U		20	
Benzene	ug/L	<0.50	0.50 U		20	
Bromobenzene	ug/L	<0.50	0.50 U		20	
Bromochloromethane	ug/L	<0.50	0.50 U		20	
Bromodichloromethane	ug/L	<0.50	0.50 U		20	
Bromoform	ug/L	<0.50	0.50 U		20	
Bromomethane	ug/L	<0.50	0.50 U		20	
Carbon tetrachloride	ug/L	<0.50	0.50 U		20	
Chlorobenzene	ug/L	<0.50	0.50 U		20	
Chlorodifluoromethane	ug/L	<0.50	0.50 U		20 N3	
Chloroethane	ug/L	<0.50	0.50 U		20	
Chloroform	ug/L	<0.50	0.50 U		20	
Chloromethane	ug/L	<0.50	0.50 U		20	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50 U		20	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50 U		20	
Dibromochloromethane	ug/L	<0.50	0.50 U		20	
Dibromomethane	ug/L	<0.50	0.50 U		20	
Dichlorodifluoromethane	ug/L	<0.50	0.50 U		20	
Ethylbenzene	ug/L	<0.50	0.50 U		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50 U		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50 U		20	
m&p-Xylene	ug/L	<0.50	0.50 U		20	
Methyl-tert-butyl ether	ug/L	1.5	1.5	1	20	
Methylene Chloride	ug/L	<0.50	0.50 U		20	
n-Butylbenzene	ug/L	<0.50	0.50 U		20	
n-Propylbenzene	ug/L	<0.50	0.50 U		20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

SAMPLE DUPLICATE: 1763015

Parameter	Units	70291366001 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	0.50 U		20	
p-Isopropyltoluene	ug/L	<0.50	0.50 U		20	
sec-Butylbenzene	ug/L	<0.50	0.50 U		20	
Styrene	ug/L	<0.50	0.50 U		20	
tert-Butylbenzene	ug/L	<0.50	0.50 U		20	
Tetrachloroethene	ug/L	<0.50	0.50 U		20	
Toluene	ug/L	<0.50	0.50 U		20	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50 U		20	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50 U		20	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50 U		20	
Trichloroethene	ug/L	<0.50	0.50 U		20	
Trichlorofluoromethane	ug/L	<0.50	0.50 U		20	
Vinyl chloride	ug/L	<0.50	0.50 U		20	
Xylene (Total)	ug/L	<0.50	0.50 U		20	
1,2-Dichlorobenzene-d4 (S)	%	84	85		20	
4-Bromofluorobenzene (S)	%	100	101		20	

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

QC Batch:	659758	Analysis Method:	EPA 8260C
QC Batch Method:	EPA 8260C	Analysis Description:	8260C MSV
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30670766001, 30670766002, 30670766003, 30670766004		

METHOD BLANK: 3213483 Matrix: Water

Associated Lab Samples: 30670766001, 30670766002, 30670766003, 30670766004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	04/04/24 12:27	1c
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	04/04/24 12:27	1c
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	04/04/24 12:27	1c
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.50	04/04/24 12:27	1c
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.49	04/04/24 12:27	1c
1,2,4-Trichlorobenzene	ug/L	4.0 U	4.0	0.73	04/04/24 12:27	1c,CL
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	04/04/24 12:27	1c
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	04/04/24 12:27	1c
1,2-Dichloroethene (Total)	ug/L	2.0 U	2.0	0.66	04/04/24 12:27	1c
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	04/04/24 12:27	1c
1,3-Dichlorobenzene	ug/L	1.0 U	1.0	0.45	04/04/24 12:27	1c
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	04/04/24 12:27	1c
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	04/04/24 12:27	1c
2-Hexanone	ug/L	10.0 U	10.0	0.58	04/04/24 12:27	1c
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	04/04/24 12:27	1c
Acetone	ug/L	10.0 U	10.0	5.6	04/04/24 12:27	1c
Benzene	ug/L	1.0 U	1.0	0.34	04/04/24 12:27	1c
Bromochloromethane	ug/L	1.0 U	1.0	0.48	04/04/24 12:27	1c
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	04/04/24 12:27	1c
Bromoform	ug/L	4.0 U	4.0	1.5	04/04/24 12:27	1c
Bromomethane	ug/L	4.0 U	4.0	2.5	04/04/24 12:27	1c
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/04/24 12:27	1c
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	04/04/24 12:27	1c
Chlorobenzene	ug/L	1.0 U	1.0	0.26	04/04/24 12:27	1c
Chloroethane	ug/L	1.0 U	1.0	0.64	04/04/24 12:27	1c
Chloroform	ug/L	1.0 U	1.0	0.93	04/04/24 12:27	1c
Chloromethane	ug/L	1.0 U	1.0	0.40	04/04/24 12:27	1c
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	04/04/24 12:27	1c
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	04/04/24 12:27	1c
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	04/04/24 12:27	1c
Diethyl ether (Ethyl ether)	ug/L	1.0 U	1.0	0.35	04/04/24 12:27	1c
Ethyl-tert-butyl ether	ug/L	1.0 U	1.0	0.29	04/04/24 12:27	1c
Ethylbenzene	ug/L	1.0 U	1.0	0.40	04/04/24 12:27	1c
m&p-Xylene	ug/L	2.0 U	2.0	0.94	04/04/24 12:27	1c
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	04/04/24 12:27	1c
Methylene Chloride	ug/L	1.0 U	1.0	0.64	04/04/24 12:27	1c
Naphthalene	ug/L	4.0 U	4.0	2.1	04/04/24 12:27	1c,CL
o-Xylene	ug/L	1.0 U	1.0	0.41	04/04/24 12:27	1c
Styrene	ug/L	1.0 U	1.0	0.33	04/04/24 12:27	1c
tert-Amylmethyl ether	ug/L	1.0 U	1.0	0.27	04/04/24 12:27	1c

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

METHOD BLANK: 3213483

Matrix: Water

Associated Lab Samples: 30670766001, 30670766002, 30670766003, 30670766004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
tert-Butyl Alcohol	ug/L	50.0 U	50.0	19.1	04/04/24 12:27	1c,2c
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	04/04/24 12:27	1c
Toluene	ug/L	1.0 U	1.0	0.32	04/04/24 12:27	1c
TOTAL BTEX	ug/L	6.0 U	6.0	2.4	04/04/24 12:27	1c
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	04/04/24 12:27	1c
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	04/04/24 12:27	1c
Trichloroethene	ug/L	1.0 U	1.0	0.29	04/04/24 12:27	1c
Vinyl chloride	ug/L	1.0 U	1.0	0.29	04/04/24 12:27	1c
Xylene (Total)	ug/L	3.0 U	3.0	1.4	04/04/24 12:27	1c
1,2-Dichloroethane-d4 (S)	%.	102	70-130		04/04/24 12:27	1c
4-Bromofluorobenzene (S)	%.	94	70-130		04/04/24 12:27	1c
Dibromofluoromethane (S)	%.	99	70-130		04/04/24 12:27	1c
Toluene-d8 (S)	%.	97	70-130		04/04/24 12:27	1c

LABORATORY CONTROL SAMPLE: 3213484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	1c
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	70-130	1c
1,1,2-Trichloroethane	ug/L	20	18.7	93	70-130	1c
1,1-Dichloroethane	ug/L	20	18.3	92	70-130	1c
1,1-Dichloroethene	ug/L	20	14.6	73	45-130	1c
1,2,4-Trichlorobenzene	ug/L	20	17.5	87	61-151	1c,CL
1,2-Dichlorobenzene	ug/L	20	18.6	93	70-130	1c
1,2-Dichloroethane	ug/L	20	18.5	93	64-130	1c
1,2-Dichloroethene (Total)	ug/L	40	34.9	87	70-130	1c
1,2-Dichloropropane	ug/L	20	19.1	95	70-130	1c
1,3-Dichlorobenzene	ug/L	20	19.4	97	70-130	1c
1,4-Dichlorobenzene	ug/L	20	17.8	89	70-130	1c
2-Butanone (MEK)	ug/L	20	18.0	90	55-143	1c
2-Hexanone	ug/L	20	17.2	86	56-138	1c
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.3	92	62-136	1c
Acetone	ug/L	20	21.0	105	10-175	1c
Benzene	ug/L	20	19.1	95	70-130	1c
Bromochloromethane	ug/L	20	17.2	86	70-130	1c
Bromodichloromethane	ug/L	20	19.4	97	70-130	1c
Bromoform	ug/L	20	17.5	88	58-130	1c
Bromomethane	ug/L	20	23.9	119	10-151	1c
Carbon disulfide	ug/L	20	16.1	80	46-156	1c
Carbon tetrachloride	ug/L	20	17.8	89	70-130	1c
Chlorobenzene	ug/L	20	19.3	96	70-130	1c
Chloroethane	ug/L	20	18.1	91	36-168	1c
Chloroform	ug/L	20	17.7	88	70-130	1c
Chloromethane	ug/L	20	16.4	82	43-134	1c

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

LABORATORY CONTROL SAMPLE: 3213484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	17.4	87	70-130 1c	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	70-130 1c	
Dibromochloromethane	ug/L	20	17.8	89	70-130 1c	
Diethyl ether (Ethyl ether)	ug/L	20	17.3	87	70-130 1c	
Ethyl-tert-butyl ether	ug/L	20	18.3	92	70-130 1c	
Ethylbenzene	ug/L	20	20.1	100	63-135 1c	
m&p-Xylene	ug/L	40	40.2	100	70-130 1c	
Methyl-tert-butyl ether	ug/L	20	18.9	95	63-130 1c	
Methylene Chloride	ug/L	20	16.1	80	70-130 1c	
Naphthalene	ug/L	20	19.0	95	30-166 1c,CL	
o-Xylene	ug/L	20	18.9	95	70-130 1c	
Styrene	ug/L	20	19.8	99	70-130 1c	
tert-Amyl methyl ether	ug/L	20	17.2	86	70-130 1c	
tert-Butyl Alcohol	ug/L	100	102	102	52-153 1c,2c	
Tetrachloroethene	ug/L	20	18.8	94	70-130 1c	
Toluene	ug/L	20	19.5	97	70-130 1c	
TOTAL BTEX	ug/L	120	118	98	70-130 1c	
trans-1,2-Dichloroethene	ug/L	20	17.5	87	70-130 1c	
trans-1,3-Dichloropropene	ug/L	20	20.3	102	70-130 1c	
Trichloroethene	ug/L	20	17.0	85	70-130 1c	
Vinyl chloride	ug/L	20	18.6	93	56-132 1c	
Xylene (Total)	ug/L	60	59.1	99	70-130 1c	
1,2-Dichloroethane-d4 (S)	%.			99	70-130 1c	
4-Bromofluorobenzene (S)	%.			97	70-130 1c	
Dibromofluoromethane (S)	%.			100	70-130 1c	
Toluene-d8 (S)	%.			101	70-130 1c	

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

QC Batch:	660078	Analysis Method:	EPA 8260C
QC Batch Method:	EPA 8260C	Analysis Description:	8260C MSV
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30670766005, 30670766006		

METHOD BLANK: 3214942 Matrix: Water

Associated Lab Samples: 30670766005, 30670766006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	04/05/24 12:51	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	04/05/24 12:51	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	04/05/24 12:51	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.50	04/05/24 12:51	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.49	04/05/24 12:51	
1,2,4-Trichlorobenzene	ug/L	4.0 U	4.0	0.73	04/05/24 12:51	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	04/05/24 12:51	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	04/05/24 12:51	CL
1,2-Dichloroethene (Total)	ug/L	2.0 U	2.0	0.66	04/05/24 12:51	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	04/05/24 12:51	
1,3-Dichlorobenzene	ug/L	1.0 U	1.0	0.45	04/05/24 12:51	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	04/05/24 12:51	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	04/05/24 12:51	
2-Hexanone	ug/L	10.0 U	10.0	0.58	04/05/24 12:51	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	04/05/24 12:51	
Acetone	ug/L	10.0 U	10.0	5.6	04/05/24 12:51	
Benzene	ug/L	1.0 U	1.0	0.34	04/05/24 12:51	
Bromochloromethane	ug/L	1.0 U	1.0	0.48	04/05/24 12:51	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	04/05/24 12:51	
Bromoform	ug/L	4.0 U	4.0	1.5	04/05/24 12:51	
Bromomethane	ug/L	4.0 U	4.0	2.5	04/05/24 12:51	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	04/05/24 12:51	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	04/05/24 12:51	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	04/05/24 12:51	
Chloroethane	ug/L	1.0 U	1.0	0.64	04/05/24 12:51	
Chloroform	ug/L	1.0 U	1.0	0.93	04/05/24 12:51	
Chloromethane	ug/L	1.0 U	1.0	0.40	04/05/24 12:51	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	04/05/24 12:51	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	04/05/24 12:51	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	04/05/24 12:51	
Diethyl ether (Ethyl ether)	ug/L	1.0 U	1.0	0.35	04/05/24 12:51	
Ethyl-tert-butyl ether	ug/L	1.0 U	1.0	0.29	04/05/24 12:51	
Ethylbenzene	ug/L	1.0 U	1.0	0.40	04/05/24 12:51	
m&p-Xylene	ug/L	2.0 U	2.0	0.94	04/05/24 12:51	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	04/05/24 12:51	
Methylene Chloride	ug/L	1.0 U	1.0	0.64	04/05/24 12:51	
Naphthalene	ug/L	4.0 U	4.0	2.1	04/05/24 12:51	
o-Xylene	ug/L	1.0 U	1.0	0.41	04/05/24 12:51	
Styrene	ug/L	1.0 U	1.0	0.33	04/05/24 12:51	
tert-Amylmethyl ether	ug/L	1.0 U	1.0	0.27	04/05/24 12:51	

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

METHOD BLANK: 3214942

Matrix: Water

Associated Lab Samples: 30670766005, 30670766006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
tert-Butyl Alcohol	ug/L	50.0 U	50.0	19.1	04/05/24 12:51	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	04/05/24 12:51	
Toluene	ug/L	1.0 U	1.0	0.32	04/05/24 12:51	
TOTAL BTEX	ug/L	6.0 U	6.0	2.4	04/05/24 12:51	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	04/05/24 12:51	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	04/05/24 12:51	
Trichloroethene	ug/L	1.0 U	1.0	0.29	04/05/24 12:51	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	04/05/24 12:51	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	04/05/24 12:51	
1,2-Dichloroethane-d4 (S)	%.	92	70-130		04/05/24 12:51	
4-Bromofluorobenzene (S)	%.	94	70-130		04/05/24 12:51	
Dibromofluoromethane (S)	%.	105	70-130		04/05/24 12:51	
Toluene-d8 (S)	%.	98	70-130		04/05/24 12:51	

LABORATORY CONTROL SAMPLE: 3214943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	12.9	64	70-130	L2
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	70-130	
1,1,2-Trichloroethane	ug/L	20	16.1	80	70-130	
1,1-Dichloroethane	ug/L	20	13.0	65	70-130	L2
1,1-Dichloroethene	ug/L	20	8.6	43	45-130	L2
1,2,4-Trichlorobenzene	ug/L	20	15.1	75	61-151	
1,2-Dichlorobenzene	ug/L	20	16.8	84	70-130	
1,2-Dichloroethane	ug/L	20	12.4	62	64-130	2c,CL,L2
1,2-Dichloroethene (Total)	ug/L	40	24.5	61	70-130	
1,2-Dichloropropane	ug/L	20	15.2	76	70-130	
1,3-Dichlorobenzene	ug/L	20	16.6	83	70-130	
1,4-Dichlorobenzene	ug/L	20	17.1	86	70-130	
2-Butanone (MEK)	ug/L	20	13.9	69	55-143	
2-Hexanone	ug/L	20	14.7	74	56-138	
4-Methyl-2-pentanone (MIBK)	ug/L	20	15.7	78	62-136	
Acetone	ug/L	20	18.7	94	10-175	
Benzene	ug/L	20	14.5	73	70-130	
Bromochloromethane	ug/L	20	14.8	74	70-130	
Bromodichloromethane	ug/L	20	14.2	71	70-130	
Bromoform	ug/L	20	14.2	71	58-130	
Bromomethane	ug/L	20	22.0	110	10-151	
Carbon disulfide	ug/L	20	15.3	77	46-156	
Carbon tetrachloride	ug/L	20	11.9	60	70-130	L2
Chlorobenzene	ug/L	20	15.9	79	70-130	
Chloroethane	ug/L	20	22.7	113	36-168	
Chloroform	ug/L	20	13.1	66	70-130	L2
Chloromethane	ug/L	20	13.6	68	43-134	

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

LABORATORY CONTROL SAMPLE: 3214943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	12.9	65	70-130	L2
cis-1,3-Dichloropropene	ug/L	20	15.5	77	70-130	
Dibromochloromethane	ug/L	20	15.3	76	70-130	
Diethyl ether (Ethyl ether)	ug/L	20	17.8	89	70-130	
Ethyl-tert-butyl ether	ug/L	20	15.3	77	70-130	
Ethylbenzene	ug/L	20	16.1	80	63-135	
m&p-Xylene	ug/L	40	32.4	81	70-130	
Methyl-tert-butyl ether	ug/L	20	16.3	82	63-130	
Methylene Chloride	ug/L	20	11.9	59	70-130	L2
Naphthalene	ug/L	20	12.5	63	30-166	
o-Xylene	ug/L	20	16.0	80	70-130	
Styrene	ug/L	20	16.0	80	70-130	
tert-Amyl methyl ether	ug/L	20	15.6	78	70-130	
tert-Butyl Alcohol	ug/L	100	76.0	76	52-153	
Tetrachloroethene	ug/L	20	15.5	77	70-130	
Toluene	ug/L	20	14.9	75	70-130	
TOTAL BTEX	ug/L	120	93.9	78	70-130	
trans-1,2-Dichloroethene	ug/L	20	11.5	58	70-130	L2
trans-1,3-Dichloropropene	ug/L	20	16.0	80	70-130	
Trichloroethene	ug/L	20	14.2	71	70-130	
Vinyl chloride	ug/L	20	19.4	97	56-132	
Xylene (Total)	ug/L	60	48.4	81	70-130	
1,2-Dichloroethane-d4 (S)	%.			85	70-130	
4-Bromofluorobenzene (S)	%.			92	70-130	
Dibromofluoromethane (S)	%.			94	70-130	
Toluene-d8 (S)	%.			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3214944 3214945

Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		30670766005	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.4	14.1	82	71	34-164	15	30	H1	
1,1,2,2-Tetrachloroethane	ug/L	0.66J	20	20	20.1	18.9	97	91	49-142	6	30	H1	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.7	16.3	88	82	46-143	8	30	H1	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.7	15.1	84	75	10-130	10	30	H1	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.9	12.7	75	64	30-132	16	30	H1	
1,2,4-Trichlorobenzene	ug/L	4.0 U	20	20	16.1	13.2	80	66	36-130	20	30	H1	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	17.7	15.8	88	79	50-130	11	30	H1	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.7	12.8	73	64	49-135	13	30	2c,CL, H1	
1,2-Dichloroethene (Total)	ug/L	2.0 U	40	40	31.9	27.9	80	70	10-175	13	30		
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.3	15.4	92	77	44-149	17	30	H1	
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	18.5	15.3	93	76	54-130	19	30	H1	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.2	15.5	86	77	49-130	11	30	H1	
2-Butanone (MEK)	ug/L	1.6J	20	20	16.2	15.3	73	69	38-156	5	30	H1	

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3214944		3214945									
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		30670766005	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual	
2-Hexanone	ug/L	10.0 U	20	20	17.6	16.4	88	82	39-162	7	30	H1	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	17.3	16.1	87	81	41-159	7	30	H1	
Acetone	ug/L	8.2J	20	20	26.1	22.6	89	72	27-130	14	30	H1	
Benzene	ug/L	8.9	20	20	24.4	21.7	78	64	17-162	12	30	H1	
Bromochloromethane	ug/L	1.0 U	20	20	16.3	14.3	81	72	44-143	13	30	H1	
Bromodichloromethane	ug/L	1.0 U	20	20	17.0	15.0	85	75	50-139	12	30	H1	
Bromoform	ug/L	4.0 U	20	20	14.1	12.4	71	62	36-134	13	30	H1	
Bromomethane	ug/L	4.0 U	20	20	10.4	10.8	47	49	10-130	4	30	H1	
Carbon disulfide	ug/L	0.53J	20	20	17.8	16.9	87	82	59-138	6	30	H1	
Carbon tetrachloride	ug/L	1.0 U	20	20	14.9	13.2	74	66	46-140	12	30	H1	
Chlorobenzene	ug/L	1.0 U	20	20	17.4	16.2	87	81	52-133	7	30	H1	
Chloroethane	ug/L	1.0 U	20	20	22.9	21.4	114	107	15-175	7	30	H1	
Chloroform	ug/L	1.0 U	20	20	15.5	13.7	78	69	46-131	12	30	H1	
Chloromethane	ug/L	1.0 U	20	20	13.6	12.4	68	62	28-152	9	30	H1	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.8	14.2	79	71	10-175	11	30	H1	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.2	15.4	81	77	42-137	5	30	H1	
Dibromochloromethane	ug/L	1.0 U	20	20	15.2	14.5	76	73	42-132	5	30	H1	
Diethyl ether (Ethyl ether)	ug/L	1.0 U	20	20	17.1	15.8	85	79	52-130	8	30	H1	
Ethyl-tert-butyl ether	ug/L	1.0 U	20	20	15.5	14.9	77	74	46-130	4	30	H1	
Ethylbenzene	ug/L	0.75J	20	20	18.9	17.6	91	84	51-132	7	30	H1	
m&p-Xylene	ug/L	2.0 U	40	40	36.3	31.9	90	79	51-130	13	30	H1	
Methyl-tert-butyl ether	ug/L	26.0	20	20	28.6	28.3	13	11	24-144	1	30	H1,ML	
Methylene Chloride	ug/L	1.0 U	20	20	14.4	13.4	72	67	35-150	7	30	H1	
Naphthalene	ug/L	4.0 U	20	20	16.7	15.0	81	72	13-168	11	30	H1	
o-Xylene	ug/L	1.0 U	20	20	17.6	16.7	87	82	51-130	5	30	H1	
Styrene	ug/L	1.0 U	20	20	16.5	15.4	83	77	48-138	7	30	H1	
tert-Amylmethyl ether	ug/L	1.3	20	20	15.6	15.6	71	72	44-130	0	30	H1	
tert-Butyl Alcohol	ug/L	259	100	100	282	272	23	13	25-162	4	30	H1,ML	
Tetrachloroethene	ug/L	1.0 U	20	20	17.3	15.3	87	77	10-175	12	30	H1	
Toluene	ug/L	0.43J	20	20	17.6	16.1	86	78	52-131	9	30	H1	
TOTAL BTEX	ug/L	10.0	120	120	115	104	87	78	50-149	10	30		
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.1	13.8	81	69	40-135	15	30	H1	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.9	16.1	84	80	45-132	5	30	H1	
Trichloroethene	ug/L	1.0 U	20	20	16.9	14.9	85	74	10-175	13	30	H1	
Vinyl chloride	ug/L	1.0 U	20	20	20.4	19.0	102	95	10-175	7	30	H1	
Xylene (Total)	ug/L	3.0 U	60	60	54.0	48.6	89	80	51-130	10	30		
1,2-Dichloroethane-d4 (S)	%.						83	83	70-130				
4-Bromofluorobenzene (S)	%.						91	90	70-130				
Dibromofluoromethane (S)	%.						93	93	70-130				
Toluene-d8 (S)	%.						102	105	70-130				

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

QC Batch: 657361 Analysis Method: EPA 8015D

QC Batch Method: EPA 3510C Analysis Description: EPA 8015D TPH RV

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30670766001, 30670766002, 30670766003, 30670766004, 30670766005, 30670766006

METHOD BLANK: 3201911 Matrix: Water

Associated Lab Samples: 30670766001, 30670766002, 30670766003, 30670766004, 30670766005, 30670766006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C10-C28)	mg/L	0.20 U	0.20	0.12	03/26/24 19:22	
o-Terphenyl (S)	%.	92	10-160		03/26/24 19:22	

LABORATORY CONTROL SAMPLE: 3201912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C10-C28)	mg/L	1	0.79	79	23-133	
o-Terphenyl (S)	%.			87	10-160	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3201913 3201914

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
TPH (C10-C28)	mg/L	1.2	0.98	0.99	2.0	2.1	82	88	10-168	3	25 E
o-Terphenyl (S)	%.						88	95	10-160		

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## QUALIFIERS

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 659758

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error

### ANALYTE QUALIFIERS

- 1c A matrix spike/matrix spike duplicate was not performed for this batch due to instrument error
- 2c The analyte did not meet the method recommended minimum RF.
- CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- ES The reported result is estimated because one or more of the constituent results are qualified as such.
- H1 Analysis conducted outside the EPA method holding time.
- IS The internal standard response is below criteria. Results may be biased high.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
- N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SMO Harnover 190292.00-0001

Pace Project No.: 30670766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30670766001	MW-12	EPA 3510C	657361	EPA 8015D	657452
30670766002	MW-4	EPA 3510C	657361	EPA 8015D	657452
30670766003	MW-16	EPA 3510C	657361	EPA 8015D	657452
30670766004	MW-1	EPA 3510C	657361	EPA 8015D	657452
30670766005	MW-9	EPA 3510C	657361	EPA 8015D	657452
30670766006	MW-18	EPA 3510C	657361	EPA 8015D	657452
30670766001	MW-12	EPA 8015D	659187		
30670766002	MW-4	EPA 8015D	659187		
30670766003	MW-16	EPA 8015D	659187		
30670766004	MW-1	EPA 8015D	659187		
30670766005	MW-9	EPA 8015D	659187		
30670766006	MW-18	EPA 8015D	659187		
30670766007	PW	EPA 524.2	341848		
30670766001	MW-12	EPA 8260C	659758		
30670766002	MW-4	EPA 8260C	659758		
30670766003	MW-16	EPA 8260C	659758		
30670766004	MW-1	EPA 8260C	659758		
30670766005	MW-9	EPA 8260C	660078		
30670766006	MW-18	EPA 8260C	660078		

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ARM Group Inc.  
SNO Hanover

Profile Number  
Notes

Page \_\_\_\_\_ of \_\_\_\_\_

Sample Line Item	Matrix	Amber Glass	Plastic	Vials	Other
001	WT	AG1H	BP1N	VG9U	V69A
002	WT	AG3S	BP2S	VG9T	BG1U
003	WT	AG3U	BP2U	VG9H	GN
004	WT	AG5U	BP3C	GJN	ZPLC
005	WT	AG5T	BP3N	WGKU	GCUB
006	WT	-	BP3U	WG FU	12GN
007	DW	-	-	-	GN

Container Codes

Glass

W# : 30670766		PM: SCR	Due Date: 03/29/24	CLIENT: ARM GROUP	EZI	5g Encore	Wab	Page
GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4	GCUB	1 gallon cubitainer			
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial	12GN				
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate	SP5T				
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl	BP1N				
AG61S	1L amber glass H2SO4	JGFU	4oz amber wide jar	BP1U				
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved	BP3S				
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved	BP3N				
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved	BP3U	250mL plastic unreserved	OL	Non-Aq Liquids	
AG33S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved	BP3C	250mL plastic NaOH	WP	Wipe	
AG33U	250mL amber glass unpreserved	GN	General	BP2S	500mL plastic H2SO4			
				BP2U	500mL plastic unreserved			

Qualtrax ID: 55678

WO# : 30670766

PM: SCR

Due Date: 03/29/24

CLIENT: ARM GROUP

Client Name: ARM Group Inc.Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  OtherTracking Number: Drop-off

Initial / Date

Examined By: EJ 3/22/24Labeled By: EJ 3/22/24Tempted By: VB 3/22/24Custody Seal on Cooler/Box Present:  Yes  NoSeals Intact:  Yes  NoThermometer Used: 19Type of Ice: Wet Blue NoneCooler Temperature: Observed Temp 2.9 °CCorrection Factor: +0.0 °CFinal Temp: 2.9 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# <u>10 D2931</u>	D.P.D. Residual Chlorine Lot # <u>0420331-KK</u>
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished	/			3.	
Sampler Name & Signature on COC:	/			4.	
Sample Labels match COC: -Includes date/time/ID	/			5.	
Matrix: <u>WTW</u>					
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination	/			14.	
Filtered volume received for dissolved tests:			/	15.	
All containers checked for preservation: exceptions: VOA coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed: <u>EJ</u>	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)		/		Initial when completed: <u>EJ</u>	Date/Time of Preservation
624.1: Headspace in VOA Vials (0mm)		/		Lot# of added Preservative	
Radon: Headspace in RAD Vials (0mm)		/		17.	
Trip Blank Present:		/		18.	
Rad Samples Screened <.05 mrem/hr.	X			19.	
Comments: <u>524.2 vials all have headspace present</u>				Trip blank custody seal present? YES or NO	
				Initial when completed: <u>VB</u>	Date: <u>3/21/24</u>
					Survey Meter SN: <u>2501438U</u>

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.

PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

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**APPENDIX E**

**SUMMARY OF OXYGENATE CONCENTRATIONS IN GROUNDWATER SAMPLES**

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TABLE 1 - SUMMARY OF OXYGENATE CONCENTRATIONS IN GROUNDWATER SAMPLES

Well	Date	TAME	TBA	EE	ETBE	DIPE	MTBE	135-TMB	124-TMB	Ethanol	Well	Date	TAME	TBA	EE	ETBE	DIPE	MTBE	135-TMB	124-TMB	Ethanol
		All Concentrations Expressed in Micrograms per Liter ( $\mu\text{g/l}$ ) Units											All Concentrations Expressed in Micrograms per Liter ( $\mu\text{g/l}$ ) Units								
MW1	Sep-19	<1	<5	<1	<1	<1	<1			<200	MW10	Sep-19	2.4	5.4	<1	<1	7.6	1.6			<200
	Dec-19	<1	<5	<1	<1	<1	<1			na		Dec-19	2.4	7.4	<1	<1	<1	1.6			na
	Mar-20	<1	<5	<1	<1	<1	<1	<1	<1	<200		Mar-20	2.3	13.8	<1	<1	13.3	1.9	22.5	114.0	<200
	May-20	<1	<5	<1	<1	<1	<1	1.1	<200			May-20	2.9	5.3	<1	<1	17.4	2.3	39.1	297.0	<200
	Aug-20	<1	<5	<1	<1	na	<1	<1	1.1	na		Aug-20	3.6	10.1	<1	<1	na	3.5	82.0	513.0	na
	Nov-20	<1	<5	<1	<1	na	<1	<1	1.1	na		Nov-20	<1	<5	<1	<1	na	3.5	na	na	na
	Feb-21	<1	<5	<1	<1	na	<1	na	na	na		Feb-21	3.1	21.1	<1	<1	na	4.0	na	na	na
	Apr-21	<1	<5	<1	<1	na	<1	na	na	<200		Apr-21	5.0	10.0	<1	<1	na	4.4	na	na	<200
	Jul-21	<1	<5	<1	<1	na	<1	na	na	<200		Jul-21	5.1	<5	<1	<1	na	4.0	na	na	<200
	Oct-21	<1	27.6	<1	<1	na	<1	na	na	na		Oct-21	5.3	<5	<1	<1	na	4.1	na	na	na
	Apr-22	<1	<5	<1	<1	na	<1	<1	<1	<200		Apr-22	1.4*	22.0	<5	<5	na	1.6	2.5	2.5	<1000
	Jul-22	<1	<50	na	<1	na	<1	<1	<1	<200		Jul-22	2.4	<50	na	<1	na	2.0	90.3	392.0	<200
WELL ABANDONED ON 9/20/22																					
MW4	Sep-19	<1	<5	<1	<1	<1	<1			<200	MW12	Sep-19	<1	<5	<1	<1	<1	<1			<200
	Dec-19	<1	<5	<1	<1	<1	<1			na		Dec-19	<1	<5	<1	<1	<1	<1			na
	Mar-20	<1	<5	<1	<1	<1	<1	<1	<1	<200		Mar-20	<1	<5	<1	<1	<1	<1	<1	<1	<200
	May-20	<1	<5	<1	<1	<1	<1	<1	<1	<200		May-20	<1	<5	<1	<1	<1	<1	<1	<1	<200
	Aug-20	<1	<5	<1	<1	na	<1	<1	1.1	na		Aug-20	<1	<5	<1	<1	na	6.6	47.0	na	
	Nov-20	<1	<5	<1	<1	na	<1	na	na	na		Nov-20	<1	<5	<1	<1	na	<1	na	na	
	Feb-21	<1	<5	<1	<1	na	<1	na	na	na		Feb-21	<1	<5	<1	<1	na	<1	na	na	
	Apr-21	<1	<5	<1	<1	na	<1	na	na	<200		Apr-21	<1	<5	<1	<1	na	<1	na	<200	
	Jul-21	<1	<5	<1	<1	na	<1	<1	na	<200		Jul-21	<1	<5	<1	<1	na	<1	na	<200	
	Oct-21	<1	<5	<1	<1	na	<1	na	na	na		Oct-21	<1	<5	<1	<1	na	<1	na	na	
	Apr-22	<1	34.3	<1	<1	na	<1	4.1	40.6	<200		Apr-22	2.8*	<50	<10	<10	na	<10	2100.0	9030.0	<2000
	Jul-22	<1	<50	na	<1	na	<1	4.4	36.4	<200		Jul-22	<5	<250	na	<5	na	<5	1610.0	24700.0	<1000
WELL INACCESSIBLE BECAUSE OF UST CLOSURE EQUIPMENT																					
MW7	Sep-19	<1	<5	<1	<1	1.5	0.66*			<200	MW14	Sep-19	<1	<5	<1	<1	<1	<1			<200
	Dec-19	<1	<5	<1	<1	<1	0.29*			na		Dec-19	6.3	<1	<1	<1	<1	<1			na
	Mar-20	<1	<5	<1	<1	0.34*	<1	9.9	67.4	<200		Mar-20	7.7	<1	<1	0.98*	0.46*	30.4	124.0	<200	
	May-20	<1	<5	<1	<1	0.47*	<1	8.5	80.7	<200		May-20	0.35*	<5	<1	2.0	0.47*	164.0	630.0	<200	
	Aug-20	2.2	13.8	<1	<1	na	2.7	1.0	19.2	na		Aug-20	<1	<5	<1	<1	na	<1	135.0	632.0	na
	Nov-20	<1	<5	<1	<1	na	<1	na	na	na		Nov-20	<1	<5	<1	<1	na	<1	na	na	
	Feb-21	<1	<5	<1	<1	na	<1	na	na	na		Feb-21	<1	<5	<1	<1	na	<1	na	na	
	Apr-21	<1	<5	<1	<1	na	<1	na	na	<200		Apr-21	<1	<5	<1	<1	na	<1	na	<200	
	Jul-21	<1	<5	<1	<1	na	<1	na	na	<200		Jul-21	<1	5.4	<1	<1	na	<1	na	<200	
	Oct-21	<1	<5	<1	<1	na	0.30*	na	na	na		Oct-21	<1	<5	<1	<1	na	<1	na	na	
	Apr-22	<1	34.3	<1	<1	na	<1	4.1	40.6	<200		Apr-22	2.8*	<50	<10	<10	na	<10	2100.0	9030.0	<2000
	Jul-22	<1	<50	na	<1	na	<1	4.4	36.4	<200		Jul-22	<5	<250	na	<5	na	<5	1610.0	24700.0	<1000
WELL DESTROYED ON 9/28/22																					
MW8	Sep-19	<1	<5	<1	<1	1.0	<1			<200	MW15	Sep-19	9.0	43.2	<1	0.40*	10.0	7.7			92.8*
	Dec-19	<1	<5	<1	<1	<1	<1			na		Dec-19	11.5	42.5	<1	<1	<1	8.6			na
	Mar-20	<1	<5	<1	<1	0.78*	<1	44.3	210.0	<200		Mar-20	8.5	31.8	<1	<1	17.3	6.8	151.0	795.0	<200
	May-20	<1	<5	<1	<1	1.1	<1	56.8	662.0	<200		May-20	9.1	30.0	<1	0.43*	26.4	8.2	69.3	679.0	<200
	Aug-20	<1	<5	<1	<1	0.43*	<1	56.6	664.0	na		Aug-20	7.6	34.0	<1	<1	na	5.5	77.9	518.0	na
	Nov-20	<1	<5	<1	<1	na	0.35*	na	na	na		Nov-20	4.4	25.3	<1	<1	na	3.5	na	na	
	Feb-21	0.43*	<5	<1	<1	na	0.31*	na	na	na		Feb-21	3.6	32.5	<1	<1	na	3.0	na	na	
	Apr-21	<1	<5	<1	<1	na	<1	na	na	<200		Apr-21	4.3	21.4	<1	<1	na	3.1	na	<200	
	Jul-21	<1	<5	<1	<1	na	<1	na	na	<200		Jul-21	9.9	24.5	<1	0.33*	na	5.5	na	na	
	Oct-21	<1	4.5*	<1	<1	na	<1	na	na	na		Oct-21	10.5	41.1	<1	<1	na	6.2	na	na	
	Apr-22	<1	18.7	<1	<1	na	<1	9.8	54.9	<200		Apr-22	6.2	41.0	<1	<1	na	3.2	133.0	532.0	<200
	Jul-22	<1	24.3	na	<1	na	<1	26.1	174.0	<200		Jul-22	0.58*	<50	na	<1	na	<1	17.6	88.4	<200
WELL ABANDONED ON 9/20/22																					
MWS	Sep-19	0.75*	60.5	<1	<1	2.4	4.1			<200	MW16	Sep-19	<1	<5	<1	<1	<1	<1			<200
	Dec-19	4.9	82.9	<1	<1	<1	13.1			na		Dec-19	<1	<5	<1	<1	<1	<1			na
	Mar-20	0.60*	195.0	<1	<1	2.2	8.3	2.0	25.8	<200		Mar-20	<1	<5	<1	<1	<1	<1	<1	<1	<200
	May-20	2.7	106.0	<1	<1	14.9	10.6	26.3	53.0	<200		May-20	<1	<5	<1	<1	<1	<1	<1	0.66*	<200
	Aug-20	7.4	66.4	<1	<1	na	16.0	86.5	131.0	na		Aug-20	<1	<5	<1	<1	<1	<1	<1	<1	<200
	Nov-20	3.9	51.0	<1	<1	na	9.7	na	na	na		Nov-20	<1	<5	<1	<1	na	<1	na	na	
	Feb-21	8.4	125																		

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**APPENDIX F**

**MANN-KENDALL ANALYSES & GRAPHS**

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# GSI MANN-KENDALL TOOLKIT

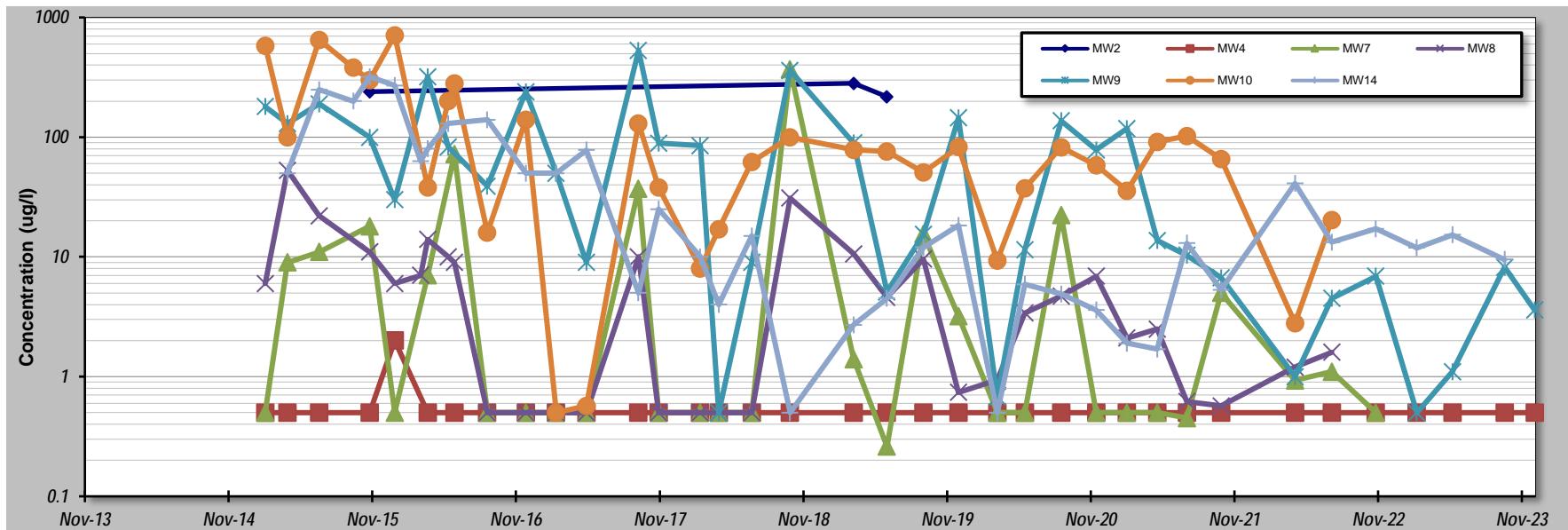
## for Constituent Trend Analysis

Evaluation Date:  Job ID:  190292M  
 Facility Name:  SMO Hanover  
 Conducted By:  Doug Hamilton/ARM Group

Constituent:  BENZENE  
 Concentration Units:  ug/l

Sampling Point ID: MW2 MW4 MW7 MW8 MW9 MW10 MW14

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/l)					
1	13-Feb-15	0.5	0.5	6	180	580	
2	10-Apr-15	0.5	9	53	130	100	50
3	30-Jun-15	0.5	11	22	190	650	250
4	25-Sep-15					380	200
5	5-Nov-15	240	0.5	18	11	100	320
6	8-Jan-16	2	0.5	6	30	710	270
7	14-Mar-16			7			63
8	1-Apr-16	0.5	7	14	320	38	80
9	23-May-16			10	83	200	130
10	8-Jun-16	0.5	72	9		280	
11	30-Aug-16	0.5	0.5	0.5	39	16	140
12	6-Dec-16	0.5	0.5	0.5	240	140	50
13	21-Feb-17	0.5	0.5	0.5	50	0.5	50
14	9-May-17	0.5	0.5	0.5	9	0.57	78
15	18-Sep-17	0.5	37	10	530	130	5
16	8-Nov-17	0.5	0.5	0.5	89	38	25
17	22-Feb-18	0.5	0.5	0.5	85	8	10
18	10-Apr-18	0.5	0.5	0.5	0.5	17	4
19	3-Jul-18	0.5	0.5	0.5	9	62	15
20	8-Oct-18	0.5	370	31	360	100	0.5
21	19-Mar-19	282	0.5	1.4	10.6	89.5	78.2
22	11-Jun-19	218	0.5	0.26	4.6	5.1	76
23	12-Sep-19	0.5	15.6	9.6	15.4	50.7	12
24	10-Dec-19	0.5	3.2	0.74	145	82.6	18.3
25	18-Mar-20	0.5	0.5	0.94	0.68	9.3	0.5
26	27-May-20	0.5	0.5	3.4	11.5	37.5	5.9
27	27-Aug-20	0.5	22.3	4.7	137	82.1	4.9
28	24-Nov-20	0.5	0.5	6.9	78.5	58.1	3.6
29	10-Feb-21	0.5	0.5	2.1	118	35.7	1.9
30	28-Apr-21	0.5	0.5	2.5	13.7	91.1	1.7
31	12-Jul-21	0.5	0.45	0.62	10.3	102	13
32	7-Oct-21	0.5	5	0.57	6.7	65.8	5.3
33	13-Apr-22	0.5	0.93	1.2	1	2.8	41.1
34	15-Jul-22	0.5	1.1	1.6	4.5	20.3	13.3
35	4-Nov-22	0.5	0.5		6.9		17.2
36	16-Feb-23	0.5			0.5		11.9
37	18-May-23	0.5			1.1		15.3
38	27-Sep-23	0.5			8.2		9.5
39	13-Dec-23	0.5			3.6		
40	21-Mar-24	0.5			8.9		
Coefficient of Variation:	0.13	0.46	3.62	1.51	1.40	1.35	1.55
Mann-Kendall Statistic (S):	-1	-28	-58	-116	-294	-170	-268
Confidence Factor:	63.7%	82.1%	96.3%	>99.9%	99.6%	>99.9%	
Concentration Trend:	Stable	No Trend	Decreasing	Decreasing	Decreasing	Decreasing	



### Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ( $S>0$ ) or decreasing ( $S<0$ ): >95% = Increasing or Decreasing;  $\geq 90\%$  = Probably Increasing or Probably Decreasing;  $< 90\%$  and  $S>0$  = No Trend;  $< 90\%$ ,  $S\leq 0$ , and  $COV \geq 1$  = No Trend;  $< 90\%$  and  $COV < 1$  = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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# GSI MANN-KENDALL TOOLKIT

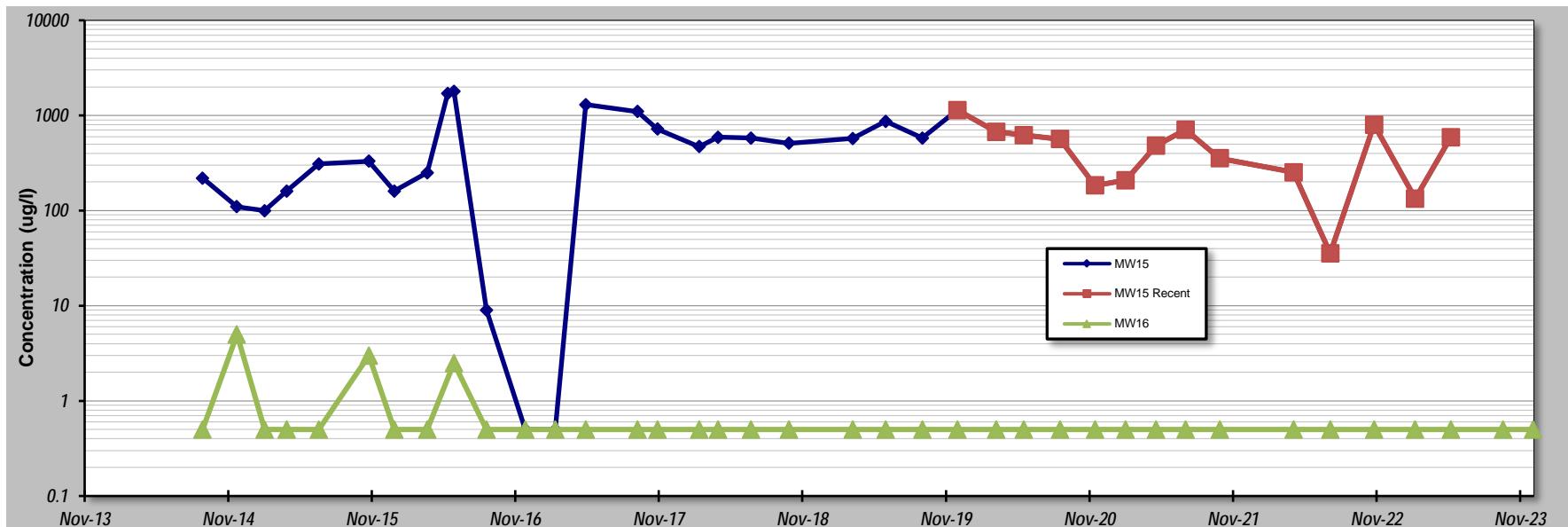
## for Constituent Trend Analysis

Evaluation Date:   
 Facility Name: **SMO Hanover**  
 Conducted By: **Doug Hamilton/ARM Group**

Job ID: **190292M**  
 Constituent: **BENZENE**  
 Concentration Units: **ug/l**

Sampling Point ID: **MW15**   **MW15 Recent**   **MW16**

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/l)					
1	8-Sep-14	220		0.5			
2	4-Dec-14	110		5			
3	13-Feb-15	100		0.5			
4	10-Apr-15	160		0.5			
5	30-Jun-15	310		0.5			
6	5-Nov-15	330		3			
7	8-Jan-16	160		0.5			
8	1-Apr-16	250		0.5			
9	23-May-16	1700					
10	8-Jun-16	1800		2.5			
11	30-Aug-16	9		0.5			
12	6-Dec-16	0.5		0.5			
13	21-Feb-17	0.5		0.5			
14	9-May-17	1300		0.5			
15	18-Sep-17	1100		0.5			
16	8-Nov-17	720		0.5			
17	22-Feb-18	470		0.5			
18	10-Apr-18	590		0.5			
19	3-Jul-18	580		0.5			
20	8-Oct-18	510		0.5			
21	19-Mar-19	572		0.5			
22	11-Jun-19	865		0.5			
23	12-Sep-19	581		0.5			
24	10-Dec-19	1140	1140	0.5			
25	18-Mar-20	673	673	0.5			
26	27-May-20	622	622	0.5			
27	27-Aug-20	564	564	0.5			
28	24-Nov-20	184	184	0.5			
29	10-Feb-21	208	208	0.5			
30	28-Apr-21	481	481	0.5			
31	12-Jul-21	708	708	0.5			
32	7-Oct-21	355	355	0.5			
33	13-Apr-22	253	253	0.5			
34	15-Jul-22	35.6	35.6	0.5			
35	4-Nov-22	798	798	0.5			
36	16-Feb-23	134	134	0.5			
37	18-May-23	592	592	0.5			
38	27-Sep-23			0.5			
39	13-Dec-23			0.5			
40	21-Mar-24			0.5			
Coefficient of Variation:	<b>0.85</b>	<b>0.63</b>	<b>1.18</b>				
Mann-Kendall Statistic (S):	<b>66</b>	<b>-27</b>	<b>-89</b>				
Confidence Factor:	<b>80.1%</b>	<b>92.1%</b>	<b>85.5%</b>				
Concentration Trend:	No Trend	Prob. Decreasing	No Trend				



**Notes:**

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ( $S>0$ ) or decreasing ( $S<0$ ): >95% = Increasing or Decreasing;  $\geq 90\%$  = Probably Increasing or Probably Decreasing;  $< 90\%$  and  $S>0$  = No Trend;  $< 90\%$ ,  $S\leq 0$ , and  $COV \geq 1$  = No Trend;  $< 90\%$  and  $COV < 1$  = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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# GSI MANN-KENDALL TOOLKIT

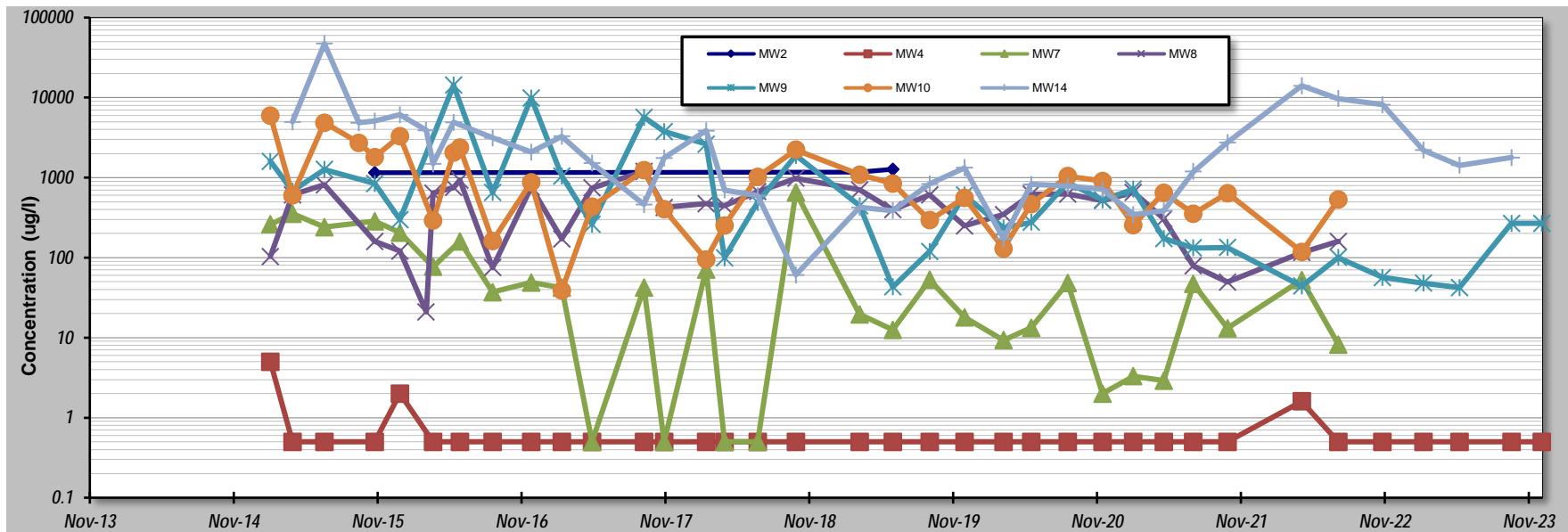
## for Constituent Trend Analysis

Evaluation Date:  Job ID:   
 Facility Name:  Constituent:   
 Conducted By:

Concentration Units:

Sampling Point ID: **MW2 MW4 MW7 MW8 MW9 MW10 MW14**

Sampling Event	Sampling Date	VOC CONCENTRATION (ug/l)					
1	13-Feb-15	5	260	103	1596	5960	
2	10-Apr-15	0.5	353	611	681	600	
3	30-Jun-15	0.5	240	813	1265	4870	
4	25-Sep-15					2712	
5	5-Nov-15	1151	0.5	285	160	843	
6	8-Jan-16	2	205	121	298	3310	
7	14-Mar-16			21		3902	
8	1-Apr-16	0.5	77	641		290	
9	23-May-16			752	14283	2050	
10	8-Jun-16	0.5	160	930		2380	
11	30-Aug-16	0.5	37	75	652	161	
12	6-Dec-16	0.5	49	761	9900	875	
13	21-Feb-17	0.5	42	171	1050	39	
14	9-May-17	0.5	0.5	742	262	434	
15	18-Sep-17	0.5	42	1198	5670	1236	
16	8-Nov-17	0.5	0.5	424	3769	401	
17	22-Feb-18	0.5	71	474	2633	95	
18	10-Apr-18	0.5	0.5	444	100	252	
19	3-Jul-18	0.5	0.5	666	490	1026	
20	8-Oct-18	0.5	651	981	1890	2228	
21	19-Mar-19	1171	0.5	19.6	702	445	
22	11-Jun-19	1273	0.5	12.5	397	43	
23	12-Sep-19	0.5	53	608	119	293	
24	10-Dec-19	0.5	18	249	605	560	
25	18-Mar-20	0.5	9.3	346	234	130	
26	27-May-20	0.5	13.27	621	276	468	
27	27-Aug-20	0.5	48.2	625	871	1040	
28	24-Nov-20	0.5	2	517	527	910	
29	10-Feb-21	0.5	3.3	656	717	255	
30	28-Apr-21	0.5	2.9	307	174	647	
31	12-Jul-21	0.5	46.8	78.9	132.6	353	
32	7-Oct-21	0.5	13.1	49.5	134.2	637	
33	13-Apr-22	1.6	52.7	115.8	44.1	118.4	
34	15-Jul-22	0.5	8.2	159.78	100.3	531	
35	4-Nov-22	0.5			56.7	8129	
36	16-Feb-23	0.5			48.1	2201	
37	18-May-23	0.5			42.2	1428	
38	27-Sep-23	0.5			269.1	1781	
39	13-Dec-23	0.5			267.7		
40	21-Mar-24	0.5			307.4		
Coefficient of Variation:	0.05	1.14	1.58	0.66	2.06	1.18	2.01
Mann-Kendall Statistic (S):	3	-45	-180	-70	-288	-168	-148
Confidence Factor:	71.7%	99.9%	85.6%	>99.9%	99.6%	97.8%	
Concentration Trend:	No Trend	Decreasing	Stable	Decreasing	Decreasing	Decreasing	



### Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ( $S>0$ ) or decreasing ( $S<0$ ): >95% = Increasing or Decreasing;  $\geq 90\%$  = Probably Increasing or Probably Decreasing;  $< 90\%$  and  $S>0$  = No Trend;  $< 90\%$ ,  $S\leq 0$ , and  $COV \geq 1$  = No Trend;  $< 90\%$  and  $COV < 1$  = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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# GSI MANN-KENDALL TOOLKIT

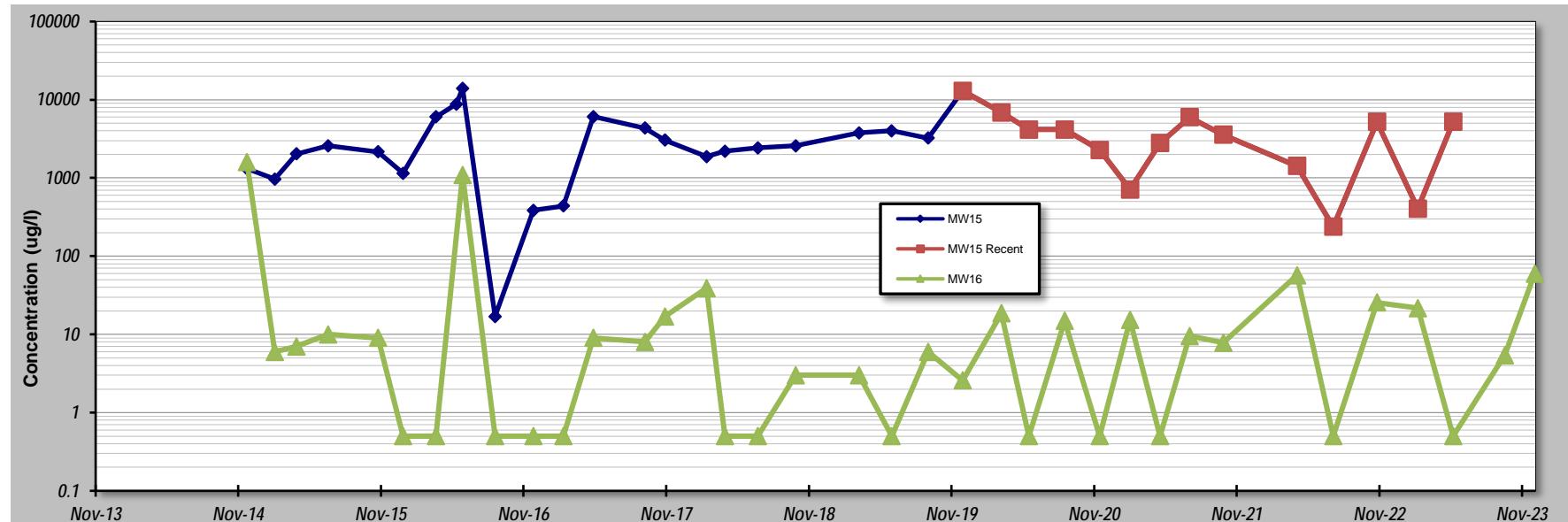
## for Constituent Trend Analysis

Evaluation Date:  Job ID: **190292M**  
 Facility Name: **SMO Hanover**  
 Conducted By: **Doug Hamilton/ARM Group**

Constituent: **VOC**  
 Concentration Units: **ug/l**

Sampling Point ID: **MW15** **MW15 Recent** **MW16**

Sampling Event	Sampling Date	VOC CONCENTRATION (ug/l)			
1	4-Dec-14	1318		1590	
2	13-Feb-15	964		6	
3	10-Apr-15	2031		7	
4	30-Jun-15	2586		10	
5	5-Nov-15	2158		9	
6	8-Jan-16	1144		0.5	
7	1-Apr-16	6053		0.5	
8	23-May-16	8792			
9	8-Jun-16	14023		1096	
10	30-Aug-16	17		0.5	
11	6-Dec-16	387		0.5	
12	21-Feb-17	438		0.5	
13	9-May-17	6079		9	
14	18-Sep-17	4350		8	
15	8-Nov-17	3039		17	
16	22-Feb-18	1871		39	
17	10-Apr-18	2207		0.5	
18	3-Jul-18	2429		0.5	
19	8-Oct-18	2574		3	
20	19-Mar-19	3760		3	
21	11-Jun-19	4015		0.5	
22	12-Sep-19	3230		6	
23	10-Dec-19	12987	12987	2.58	
24	18-Mar-20	6849	6849	18.6	
25	27-May-20	4158	4158	0.5	
26	27-Aug-20	4166	4166	14.9	
27	24-Nov-20	2285	2285	0.5	
28	10-Feb-21	714	714	15.3	
29	28-Apr-21	2788	2788	0.5	
30	12-Jul-21	5960	5960	9.5	
31	7-Oct-21	3563	3563	7.8	
32	13-Apr-22	1425	1425	56.9	
33	15-Jul-22	238	238	0.5	
34	4-Nov-22	5217	5217	25.6	
35	16-Feb-23	405	405	21.6	
36	18-May-23	5250	5250	0.5	
37	27-Sep-23			5.4	
38	13-Dec-23			59.8	
39	21-Mar-24			24	
40					
Coefficient of Variation:	<b>0.89</b>	<b>0.83</b>	<b>3.80</b>		
Mann-Kendall Statistic (S):	<b>70</b>	<b>-29</b>	<b>60</b>		
Confidence Factor:	<b>82.5%</b>	<b>93.7%</b>	<b>77.0%</b>		
Concentration Trend:	No Trend	Prob. Decreasing	No Trend		



### Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ( $S>0$ ) or decreasing ( $S<0$ ): >95% = Increasing or Decreasing;  $\geq 90\%$  = Probably Increasing or Probably Decreasing;  $< 90\%$  and  $S>0$  = No Trend;  $< 90\%$ ,  $S\leq 0$ , and  $COV \geq 1$  = No Trend;  $< 90\%$  and  $COV < 1$  = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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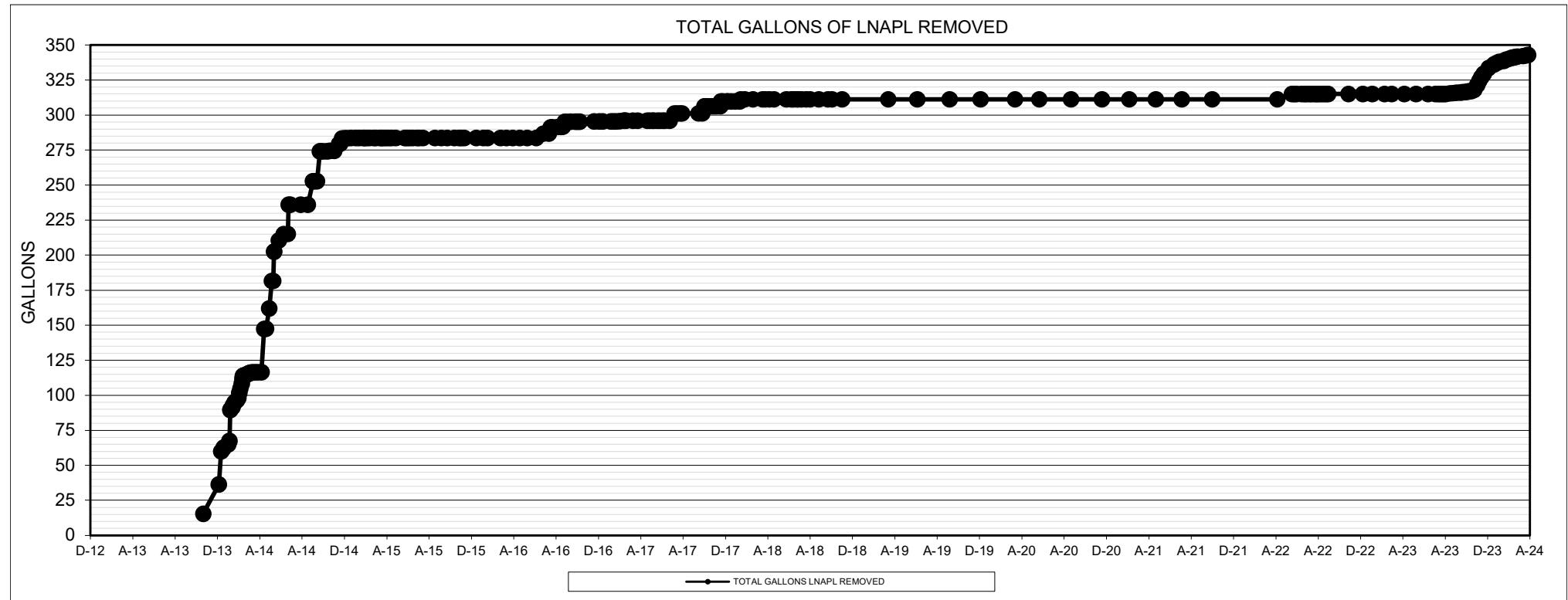
**APPENDIX G**

**PETROLEUM RECOVERY GRAPH & DATABASE**

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MW7 EFR LNAPL & Water Testing Results																					
Compound	Concentration	Units	Compound	Concentration	Units	Compound	Concentration	Units	Compound	Concentration	Units										
Ammonia	7.87	mg/l	Naphthalene	110.00	ug/l	MTBE	160.0	ug/l	Aluminum	150.0	ug/l										
BOD	163	mg/l	4-Chloro-3-methylphenol	23.00	ug/l	Benzene	2100.0	ug/l	Antimony	70.0	ug/l										
COD	318	mg/l	2-Methylnaphthalene	45.00	ug/l	Toluene	4800.0	ug/l	Barium	120.0	ug/l										
O&G	6.00	mg/l	Bis(2-ethylhexyl)phthalate	530.00	ug/l	Ethylbenzene	990.0	ug/l	Cadmium	9.6	ug/l										
pH	7.32		Total SVOCs	708.00	ug/l	m&p-Xylenes	3000.0	ug/l	Chromium	7.4	ug/l										
TOC	27	mg/l				o-Xylenes	1100.0	ug/l	Copper	910.0	ug/l										
TSS	1517	mg/l				Cumene	66.0	ug/l	Iron	25000.0	ug/l										
						DIP <sub>E</sub>	130.0	ug/l	Lead	470.0	ug/l										
						Naphthalene	110.0	ug/l	Magnesium	12000.0	ug/l										
						Total VOCs	12456.0	ug/l	Nickel	14.0	ug/l										
						Zinc	310.0	ug/l													
Date	Original LNAPL Thickness	LNAPL Thickness in Bailer (inches)																			
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	Total	Feet	Gal Rem'dv	Cum.	
MW7 & MW9 (4" Diameter Well) Bailing & EFR Record																					
10/22/13		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	307.00	15.35		
12/06/13		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	349.00	36.30		
12/13/13		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	429.00	60.00		
12/19/13	2.25	1.50	2.50	13.25	7.00	5.50	7.00	0.50	5.0	1.3	1.3	1.0				45.8	3.8	1.68	61.68		
12/20/13	1.00	0.75	12.00	0.50	0.25												13.5	1.1	0.50	62.17	
01/02/14	2.19	26.25	2.00	2.75	7.25	7.75	7.50	3.75	0.5								57.8	4.8	2.12	64.25	
01/06/14	2.90	23.00	5.00	13.00	9.50	7.00	2.00										59.5	5.0	2.18	66.47	
01/08/14		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	440.00	88.47		
01/09/14	0.67	1.00	1.50	6.00	0.50												9.0	0.8	0.33	88.80	
01/14/14	2.37	6.00	12.50	2.00	6.50	7.00	2.00	1.00									37.0	3.1	1.36	90.16	
01/16/14	1.22	3.50	8.00	7.00	4.00	4.00	1.00	0.50									28.0	2.3	1.03	91.19	
01/20/14	0.42	6.50	9.00	6.50	10.00	3.00	6.50	6.50	4.5	1.5	1.5	0.3					55.8	4.6	2.04	93.23	
01/27/14	2.93	4.00	6.00	5.50	3.00	2.50	2.00	4.00	1.5	0.5							29.0	2.4	1.06	94.25	
01/31/14	1.91	5.00	9.00	6.00	3.00	4.00	5.50	4.00	1.5	2.0	0.5						40.5	3.4	1.49	95.76	
02/03/14	1.13	18.00	6.00	9.00	12.00	11.50	5.00	7.00	4.5	3.0	6.0	5.0	3.0	1.5	0.5	0.5	92.5	7.7	3.39	99.17	
02/06/14	1.15	15.00	9.00	6.00	8.00	3.00	10.50	7.00	7.5	4.0	6.0	2.5	2.0	1.0	0.5	0.5	82.8	6.9	3.03	102.20	
02/10/14	0.97	12.00	8.00	7.00	11.00	7.00	7.50	9.00	10.5	3.5	2.5	2.5	1.0	0.5	1.5	0.3	86.8	7.2	3.18	105.38	
02/12/14	2.23	22.00	8.00	10.00	17.00	8.00	6.00	11.00	3.5	4.0	6.5	2.3	2.0	1.0	0.5	0.3	102.0	8.5	3.74	109.12	
02/14/14	2.42	1.50	2.25	5.50	1.50	8.00	5.00	8.50	2.5	6.8	1.0						42.5	3.5	1.56	110.68	
02/18/14	0.70	0.50	1.00	0.50	0.50	0.25											2.8	0.2	0.10	110.78	
02/20/14	0.30	0.50	0.50	0.50	0.25												1.8	0.1	0.06	110.85	
02/24/14	0.80	1.00	2.50	1.00	0.50	0.50	0.25										5.8	0.5	0.21	111.06	
02/26/14	0.52	2.00	2.00	0.50	1.50	0.50	1.00	0.50	0.3								8.3	0.7	0.30	111.36	
02/28/14	0.54	2.00	1.50	1.00	0.50	0.50	0.25										5.8	0.5	0.21	111.57	
03/04/14	0.53	3.00	2.00	1.50	1.00	1.00	0.50	0.50	0.3								9.8	0.8	0.36	111.93	
03/06/14	0.45	3.50	2.25	1.50	1.50	1.00	1.50	0.50	0.5	0.5	0.3	0.3					13.3	1.1	0.49	112.42	
03/10/14	0.42	1.00	0.50	0.50	0.25												2.3	0.2	0.08	112.50	
03/12/14	0.25	0.25	0.25	0.13													0.6	0.1	0.02	112.52	
03/19/14	0.06	1.00	0.50	0.50	0.50	0.25	0.25										3.0	0.3	0.11	112.63	
03/28/14	0.13	0.50	0.25	0.25													1.0	0.1	0.04	112.67	
04/08/14	0.00																0.0	0.0	0.00	112.67	
04/16/14		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	616.00	143.47		
04/21/14	0.30	2.00	3.00	1.50	0.50	1.00	0.50	0.50	0.3								9.3	0.8	0.34	143.81	
04/30/14		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	287.00	158.16		
05/08/14		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	392.00	177.76		
05/12/14	0.00																0.0	0.0	0.00	177.76	
05/14/14		Vacuum Truck EFR - Assumes ~5% Total Volume Removed is LNAPL														0.0	0.0	420.00	198.76		
05/15/14	0.00																0.0	0.0	0.00	198.76	
05/28/14		Vacuum Truck EFR - Assumes ~3% Total Volume Removed is LNAPL														0.0	0.0	267.00	206.77		
06/11/14		Vacuum Truck EFR - Assumes ~3% Total Volume Removed is LNAPL														0.0	0.0	150.00	211.27		
06/23/14	0.00																0.0	0.0	0.00	211.27	
06/25/14		Vacuum Truck EFR - Assumes ~3% Total Volume Removed is LNAPL														0.0	0.0	700.00	232.27		
06/30/14	0.00																0.0	0.0	0.00	232.27	
07/03/14	0.00																0.0	0.0	0.00	232.27	
09/03/14		Vacuum Truck EFR - Assumes ~3% Total Volume Removed is LNAPL														0.0	0.0	560.00	249.07		
09/08/14	0.00																0.0	0.0	0.00	249.07	
09/15/14	0.00																0.0	0.0	0.00	249.07	
09/23/14		Vacuum Truck EFR - Assumes ~1% Total Volume Removed is LNAPL														0.0	0.0	2125.00	270.32		
09/25/14	0.00																0.0	0.0	0.00	270.32	
10/03/14	0.00																0.0	0.0	0.00	270.32	
10/15/14	0.00																0.0	0.0	0.00	270.32	
10/22/14	0.00																0.0	0.0	0.00	270.32	
11/04/14	0.00																0.0	0.0	0.00	270.32	
11/18/14		Vacuum Truck EFR - Assumes ~1/2% Total Volume Removed is LNAPL														0.0	0.0	1001.00	275.32		
11/21/14	0.00																0.0	0.0	0.00	275.32	
11/26/14		Vacuum Truck EFR - Assumes ~1/2% Total Volume Removed is LNAPL														0.0	0.0	731.00	278.95		
12/04/14	0.00																0.0	0.0	0.00	278.95	
12/11/14	0.00																0.0	0.0	0.00	278.95	
12/22/14	0.00																0.0	0.0	0.00	278.95	
01/05/15	0.00																0.0	0.0	0.00	278.95	
01/14/15	0.00																0.0	0.0	0.00	278.95	
01/26/15	0.00																0.0	0.0	0.00	278.95	
01/30/15	0.00																0.0	0.0	0.00	278.95	
02/04/15	0.00</																				

06/28/16	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.0	0.0	579.00	281.88
07/14/16	0.06			0.1	0.1
07/19/16	0.08	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.1	0.1	890.00
07/20/16	0.06			0.1	0.1
07/25/16	0.04			0.0	0.0
08/08/16	0.11			0.1	0.1
08/18/16	0.07			0.1	0.1
08/24/16	0.08			0.1	0.1
08/29/16	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.0	0.0	679.00	290.27
08/30/16	0.02			0.0	0.0
09/06/16	0.04			0.0	0.0
09/15/16	0.08			0.1	0.1
09/28/16	0.02			0.0	0.0
10/05/16	0.01			0.0	0.0
10/11/16	0.08			0.1	0.1
11/22/16	0.01			0.0	0.0
12/06/16	0.00			0.0	0.0
12/16/16	0.00			0.0	0.0
01/09/17	0.00			0.0	0.0
01/16/17	0.05			0.0	0.0
01/23/17	0.06			0.1	0.1
02/03/17	0.04			0.0	0.0
02/15/17	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.0	0.0	100.00	291.31
02/17/17	0.00			0.0	0.0
02/21/17	0.00			0.0	0.0
03/13/17	0.01			0.0	0.0
03/27/17	0.02			0.0	0.0
04/24/17	0.00			0.0	0.0
05/01/17	0.00			0.0	0.0
05/09/17	0.00			0.0	0.0
05/12/17	0.00			0.0	0.0
05/23/17	0.00			0.0	0.0
05/30/17	0.00			0.0	0.0
06/07/17	0.00			0.0	0.0
06/13/17	0.00			0.0	0.0
06/27/17	0.00			0.0	0.0
07/11/17	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.0	0.0	1020.00	296.45
07/19/17	0.00			0.0	0.0
07/27/17	0.00			0.0	0.0
08/02/17	0.00			0.0	0.0
09/18/17	0.00			0.0	0.0
09/29/17	0.00			0.0	0.0
10/05/17	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.0	0.0	1020.00	301.55
10/09/17	0.00			0.0	0.0
10/16/17	0.00			0.0	0.0
10/25/17	0.00			0.0	0.0
11/02/17	0.00			0.0	0.0
11/08/17	0.00			0.0	0.0
11/20/17	0.00			0.0	0.0
11/22/17	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.0	0.0	680.00	304.95
11/27/17	0.00			0.0	0.0
12/08/17	0.00			0.0	0.0
12/13/17	0.00			0.0	0.0
12/22/17	0.00			0.0	0.0
01/02/18	0.00			0.0	0.0
01/15/18	0.00			0.0	0.0
01/18/18	Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL	0.0	0.0	294.00	306.42
01/29/18	0.00			0.0	0.0
02/22/18	0.00			0.0	0.0
03/22/18	0.00			0.0	0.0
03/30/18	0.00			0.0	0.0
04/10/18	0.00			0.0	0.0
04/24/18	0.00			0.0	0.0
05/29/18	0.00			0.0	0.0
06/13/18	0.00			0.0	0.0
06/18/18	0.00			0.0	0.0
06/28/18	0.00			0.0	0.0
07/03/18	0.00			0.0	0.0
07/12/18	0.00			0.0	0.0
07/25/18	0.00			0.0	0.0
08/06/18	0.00			0.0	0.0
08/31/18	0.00			0.0	0.0
09/26/18	0.00			0.0	0.0
10/08/18	0.00			0.0	0.0
11/06/18	0.00			0.0	0.0
03/19/19	0.00			0.0	0.0
06/11/19	0.00			0.0	0.0
09/12/19	0.00			0.0	0.0
12/10/19	0.00			0.0	0.0
03/18/20	0.00			0.0	0.0
05/27/20	0.00			0.0	0.0
08/27/20	0.00			0.0	0.0
11/24/20	0.00			0.0	0.0
02/10/21	0.00			0.0	0.0
04/28/21	0.00			0.0	0.0
07/12/21	0.00			0.0	0.0
10/07/21	0.00			0.0	0.0
04/13/22	0.00			0.0	0.0
05/25/22	0.00			0.0	0.0
06/01/22	0.00			0.0	0.0
06/07/22	0.00			0.0	0.0
06/22/22	0.00			0.0	0.0
06/30/22	0.00			0.0	0.0
07/06/22	0.00			0.0	0.0
07/15/22	0.00			0.0	0.0
07/20/22	0.00			0.0	0.0
07/29/22	0.00			0.0	0.0
08/04/22	0.00			0.0	0.0
08/09/22	0.00			0.0	0.0
08/17/22	0.00			0.0	0.0
08/24/22	0.00			0.0	0.0
09/01/22	0.00			0.0	0.0
09/07/22	0.00			0.0	0.0
11/04/22	0.00			0.0	0.0
12/16/22	0.00			0.0	0.0
01/12/23	0.00			0.0	0.0
02/16/23	0.00			0.0	0.0
03/09/23	0.00			0.0	0.0
04/14/23	0.00			0.0	0.0
05/18/23	0.00			0.0	0.0
06/21/23	0.00			0.0	0.0
07/13/23	0.00			0.0	0.0
07/21/23	0.00			0.0	0.0
07/28/23	0.00			0.0	0.0
08/04/23	0.00			0.0	0.0
08/11/23	0.00			0.0	0.0
08/23/23	0.00			0.0	0.0
09/01/23	0.00			0.0	0.0



MW14 (1" Diameter Well through May 15, 2014; 4" Diameter Well Thereafter) Bailing Record																						
12/19/13	1.75	21.00	17.00	15.00	12.50	8.00	4.25	13.00	3.0	4.31	5.0	3.5	3.0	3.0	2.8	2.5	117.8	9.8	0.20	0.20		
12/20/13	1.67	11.75	20.00	10.50	7.00	8.25	11.00	9.75	9.5	11.0	6.8	0.5	3.0	2.5	6.3	0.3	118.0	9.8	0.20	0.39		
01/02/14	2.40	12.00	29.75	11.75	17.25	14.13	10.50	7.75	6.0	3.3	3.0	4.0	3.5	2.5	2.8	2.3	138.6	11.6	0.23	0.62		
01/06/14	1.25	15.00	9.50	13.25	14.00	3.00	16.00	7.50	4.0	8.0	7.0	5.0	3.5	3.5	3.0	112.3	9.4	0.19	0.81			
01/09/14	1.83	21.00	22.50	9.00	11.00	9.50	9.00	9.00	5.0	4.0	4.0	4.0	6.0	3.0	4.0	3.0	128.0	10.7	0.21	1.02		
01/14/14	1.87	6.00	8.00	22.00	14.50	9.00	10.00	9.00	11.5	10.0	5.0	3.8	4.8	3.0	1.5	0.3	118.3	9.9	0.20	1.22		
01/16/14	2.46	29.00	21.00	6.25	7.00	7.50	5.00	5.00	4.5	4.0	6.0	4.0	3.5	3.5	2.5	2.0	115.3	9.6	0.19	1.41		
01/20/14	1.52	11.00	13.00	18.50	12.00	14.50	9.50	5.00	10.0	1.0	9.0	3.5	3.0	6.0	2.5	3.5	134.0	11.2	0.22	1.64		
01/24/14	1.10	8.50	8.50	9.00	15.75	16.00	12.00	11.00	6.5	6.0	4.5	9.5	4.0	7.0	3.0	6.0	131.3	10.9	0.22	1.86		
01/27/14	1.03	11.50	14.00	1.50	9.00	0.50	20.50	15.00	9.0	5.0	4.0	8.5	3.5	8.0	3.0	4.5	121.0	10.11	0.20	2.06		
01/31/14	1.17	12.00	16.00	2.00	8.00	1.00	15.00	14.00	5.0	7.0	4.0	4.5	3.0	1.5	4.5	2.0	100.5	8.4	0.17	2.22		
02/03/14	1.58	11.00	14.00	20.00	12.00	13.50	4.00	11.00	2.0	6.0	4.0	4.5	8.0	3.5	2.0	1.0	117.5	9.8	0.20	2.42		
02/06/14	1.67	21.00	17.00	4.00	2.50	10.00	7.00	4.00	6.0	2.0	8.0	4.0	4.5	6.0	2.0	3.5	103.8	8.6	0.17	2.59		
02/10/14	1.59	21.00	14.00	6.00	8.50	7.00	10.50	6.00	6.5	8.3	7.0	7.5	6.0	4.5	3.0	2.5	127.0	10.6	0.21	2.81		
02/12/14	2.91	21.00	22.00	8.00	9.00	12.00	8.50	7.00	10.0	8.5	6.0	4.0	8.0	2.5	1.5	3.0	133.3	11.1	0.22	3.03		
02/14/14	2.65	10.75	23.00	15.25	14.00	13.00	11.50	9.00	6.0	4.5	4.3	4.3	4.0	3.8	3.0	1.5	129.5	10.8	0.22	3.24		
02/18/14	1.97	18.50	9.00	6.50	11.00	10.00	4.00	6.50	5.0	2.5	2.5	2.0	2.5	2.0	1.5	1.0	86.5	7.2	0.14	3.39		
02/20/14	1.56	8.00	9.00	4.00	6.00	4.50	3.50	4.00	4.0	1.3	3.0	2.0	1.0	1.5	0.5	0.5	53.5	4.5	0.09	3.48		
02/24/14	1.45	7.00	7.00	7.50	7.00	7.00	3.00	3.50	4.0	3.5	1.5	1.5	1.5	1.0	1.0	0.5	57.3	4.8	0.10	3.57		
02/26/14	0.49	5.00	6.50	7.00	4.00	4.50	2.00	2.50	1.5	2.0	1.5	1.0	0.5	0.3	0.3	0.3	38.5	3.2	0.06	3.64		
02/28/14	0.92	5.00	7.00	2.00	4.00	3.00	5.00	1.00	1.0	0.5	0.5	0.3					29.3	2.4	0.05	3.68		
03/04/14	0.40	6.00	4.00	5.00	2.00	3.00	1.50	1.00	0.5	0.5	1.0	0.5	0.3				25.3	2.1	0.04	3.73		
03/06/14	0.22	3.00	5.00	2.50	1.00	2.00	1.50	0.50	1.0	0.5	0.5	0.3	0.5	0.3			18.5	1.5	0.03	3.76		
03/10/14	0.02	0.50	0.50	0.50	0.50	0.13											2.1	0.2	0.00	3.76		
03/12/14	0.01	0.50	0.13	0.13													0.8	0.1	0.00	3.76		
03/19/14	0.01	0.75	0.50	0.50	0.25	0.13											2.1	0.2	0.00	3.77		
03/28/14	0.00																0.0	0.0	0.00	3.77		
04/08/14	0.00																0.0	0.0	0.00	3.77		
04/21/14	0.06	2.00	0.50	0.50	0.50	0.25											3.8	0.3	0.01	3.77		
05/12/14	0.00																0.0	0.0	0.00	3.77		
05/15/14	0.00																0.0	0.0	0.00	3.77		
06/23/14	0.00																0.0	0.0	0.00	3.77		
06/30/14	0.00																0.0	0.0	0.00	3.77		
07/30/14	0.00																0.0	0.0	0.00	3.77		
08/20/14	0.00																0.0	0.0	0.00	3.77		
09/08/14	0.00																0.0	0.0	0.00	3.77		
09/15/14	0.00																0.0	0.0	0.00	3.77		
09/25/14	0.00																0.0	0.0	0.00	3.77		
10/03/14	0.00																0.0	0.0	0.00	3.77		
10/15/14	0.00																0.0	0.0	0.00	3.77		
10/22/14	0.84																10.1	0.8	0.37	4.14		
11/04/14	0.00																0.1	0.1	0.03	4.17		
11/13/14	0.00																0.0	0.0	0.00	4.17		
11/21/14	0.16																1.9	0.2	0.07	4.24		
12/04/14	0.75																9.0	0.8	0.33	4.57		
12/22/14	0.34																4.1	0.3	0.15	4.72		
01/05/15	0.00																0.0	0.0	0.00	4.72		
01/14/15	0.00																0.0	0.0	0.00	4.72		
01/26/15	0.00																0.0	0.0	0.00	4.72		
01/30/15	0.01																0.1	0.0	0.00	4.72		
02/04/15	0.00																0.0	0.0	0.00	4.72		
02/13/15	0.11																1.3	0.11	0.05	4.77		
02/20/15	0.00																0.0	0.0	0.00	4.77		
02/26/15	0.00																0.0	0.0	0.00	4.77		
03/04/15	0.00																0.0	0.0	0.00	4.77		
03/16/15	0.00																0.0	0.0	0.00	4.77		
03/20/15	0.00																0.0	0.0	0.00	4.77		
03/25/15	0.00																0.0	0.0	0.00	4.77		
04/02/15	0.00																0.0	0.0	0.00	4.77		
04/10/15	0.00																0.0	0.0	0.00	4.77		
04/17/15	0.00																0.0	0.0	0.00	4.77		
04/30/15	0.00																0.0	0.0	0.00	4.77		
05/26/15	0.00																0.0	0.0	0.00	4.77		
06/01/15	0.00																0.0	0.0	0.00	4.77		
06/09/15	0.00																0.0	0.0	0.00	4.77		
06/18/15	0.00																0.0	0.0	0.00	4.77		
06/30/15	0.00																0.0	0.0	0.00	4.77		
07/06/15	0.00																0.0	0.0	0.00	4.77		
07/17/15	0.00																0.0	0.0	0.00	4.77		
08/21/15	0.00																0.0	0.0	0.00	4.77		
09/08/15	0.00																0.0	0.0	0.00	4.77		
09/25/15	0.00																0.0	0.0	0.00	4.77		
10/16/15	0.00																0.0	0.0	0.00	4.77		
10/30/15	0.00																0.0	0.0	0.00	4.77		
11																						

06/07/17	0.00																		0.0	0.0	0.00	4.77
06/13/17	0.00																		0.0	0.0	0.00	4.77
06/27/17	0.00																		0.0	0.0	0.00	4.77
07/11/17	0.00																		0.0	0.0	0.00	4.77
07/19/17	0.00																		0.0	0.0	0.00	4.77
07/27/17	0.00																		0.0	0.0	0.00	4.77
08/02/17	0.00																		0.0	0.0	0.00	4.77
09/18/17	0.00																		0.0	0.0	0.00	4.77
09/29/17	0.00																		0.0	0.0	0.00	4.77
10/09/17	0.00																		0.0	0.0	0.00	4.77
10/16/17	0.00																		0.0	0.0	0.00	4.77
10/25/17	0.00																		0.0	0.0	0.00	4.77
11/02/17	0.00																		0.0	0.0	0.00	4.77
11/08/17	0.00																		0.0	0.0	0.00	4.77
11/20/17	0.00																		0.0	0.0	0.00	4.77
11/22/17	0.00																		0.0	0.0	0.00	4.77
11/27/17	0.00																		0.0	0.0	0.00	4.77
12/08/17	0.00																		0.0	0.0	0.00	4.77
12/13/17	0.00																		0.0	0.0	0.00	4.77
12/22/17	0.00																		0.0	0.0	0.00	4.77
01/02/18	0.00																		0.0	0.0	0.00	4.77
01/15/18	0.00																		0.0	0.0	0.00	4.77
01/29/18	0.00																		0.0	0.0	0.00	4.77
02/22/18	0.00																		0.0	0.0	0.00	4.77
03/22/18	0.00																		0.0	0.0	0.00	4.77
03/30/18	0.00																		0.0	0.0	0.00	4.77
04/10/18	0.00																		0.0	0.0	0.00	4.77
04/24/18	0.00																		0.0	0.0	0.00	4.77
05/29/18	0.00																		0.0	0.0	0.00	4.77
06/13/18	0.00																		0.0	0.0	0.00	4.77
06/18/18	0.00																		0.0	0.0	0.00	4.77
06/28/18	0.00																		0.0	0.0	0.00	4.77
07/03/18	0.00																		0.0	0.0	0.00	4.77
07/12/18	0.00																		0.0	0.0	0.00	4.77
07/25/18	0.00																		0.0	0.0	0.00	4.77
08/06/18	0.00																		0.0	0.0	0.00	4.77
08/31/18	0.00																		0.0	0.0	0.00	4.77
09/26/18	0.00																		0.0	0.0	0.00	4.77
10/08/18	0.00																		0.0	0.0	0.00	4.77
11/06/18	0.00																		0.0	0.0	0.00	4.77
03/19/19	0.00																		0.0	0.0	0.00	4.77
06/11/19	0.00																		0.0	0.0	0.00	4.77
09/12/19	0.00																		0.0	0.0	0.00	4.77
12/10/19	0.00																		0.0	0.0	0.00	4.77
03/18/20	0.00																		0.0	0.0	0.00	4.77
05/27/20	0.00																		0.0	0.0	0.00	4.77
08/27/20	0.00																		0.0	0.0	0.00	4.77
11/24/20	0.00																		0.0	0.0	0.00	4.77
02/10/21	0.00																		0.0	0.0	0.00	4.77
04/28/21	0.00																		0.0	0.0	0.00	4.77
07/12/21	0.00																		0.0	0.0	0.00	4.77
10/07/21	0.00																		0.0	0.0	0.00	4.77
04/13/22	0.00																		0.0	0.0	0.00	4.77
05/18/22		Vacuum Truck EFR - Assumes ≈1/2% Total Volume Removed is LNAPL																	0.0	0.0	784.00	8.69
05/25/22	0.00																		0.0	0.0	0.00	8.69
06/01/22	0.00																		0.0	0.0	0.00	8.69
06/07/22	0.00																		0.0	0.0	0.00	8.69
06/22/22	0.00																		0.0	0.0	0.00	8.69
06/30/22	0.00																		0.0	0.0	0.00	8.69
07/06/22	0.00																		0.0	0.0	0.00	8.69
07/15/22	0.00																		0.0	0.0	0.00	8.69
07/20/22	0.00																		0.0	0.0	0.00	8.69
07/29/22	0.00																		0.0	0.0	0.00	8.69
08/04/22	0.00																		0.0	0.0	0.00	8.69
08/09/22	0.00																		0.0	0.0	0.00	8.69
08/17/22	0.00																		0.0	0.0	0.00	8.69
08/24/22	0.00																		0.0	0.0	0.00	8.69
09/01/22	0.00																		0.0	0.0	0.00	8.69
09/07/22	0.00																		0.0	0.0	0.00	8.69
09/13/22	0.00																		0.0	0.0	0.00	8.69
09/22/22	0.00																		0.0	0.0	0.00	8.69
08/23/23	0.00																		0.0	0.0	0.00	8.69
09/01/23	0.00																		0.0	0.0	0.00	8.69
09/07/23	0.00																		0.0	0.0	0.00	8.69
09/13/23	0.00																		0.0	0.0	0.00	8.69
09/22/23	0.00																		0.0	0.0	0.00	8.69
10/05/23	0.00																		0.0	0.0	0.00	8.69
10/12/23	0.00																		0.0	0.0	0.00	8.69
10/17/23	0.00																		0.0	0.0	0.00	8.69
10/25/23	0.00																		0.0	0.0	0.00	8.69
11/01/23	0.00																		0.0	0.0	0.00	9.19
11/10/23	0.00																		0.0	0.0	0.00	11.69
11/16/23	0.00																		0.0	0.0	0.00	13.94
11/22/23	0.00																		0.0	0.0	0.00	15.94
11/29/23	0.00																		0.0	0.0	0.00	17.94
12/13/23	0.00																		0.0	0.0	0.00	20.94
12/29/																						