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Date: July 5, 2022

Symbol: EPC-DO-22-169  
LA-UR-22-25789

Mr. Rick Shean, Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6313

Subject: Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report  
May 2022 (Quarter 19)  
Los Alamos National Laboratory, EPA ID# NM0890010515

Dear Mr. Shean:

Enclosed is the *Technical Area 63, Transuranic Waste Facility, Soil Vapor Monitoring System Report, May 2022 (Quarter 19)* in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit), Section 3.14.3.

The Permit requires that the soil vapor monitoring system at the LANL Technical Area 63 (TA-63) Transuranic Waste Facility be sampled and evaluated for designated volatile organic compounds on a quarterly basis to ensure protection of environmental health and safety, including onsite workers. The enclosed report provides the results of sampling conducted on May 4, 2022, for the nineteenth quarter following the start of operations in October 2017. The sampling results indicate that vapor concentrations at the site do not exceed the soil gas screening levels established by the Permit.

In compliance with Permit Section 1.9.16, a report certification is included with this submittal. A compact disc with copies of the report and the analytical data, in Excel format, is also included to facilitate the review of the monitoring results.

If you have any questions or comments concerning this report, please contact Karen E. Armijo, National Nuclear Security Administration Los Alamos Field Office, at 505-665-7314, karen.armijo@nnsa.doe.gov; or Patrick L. Padilla, Triad National Security, LLC, at 505-412-0462, plpadilla@lanl.gov.

Sincerely,

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Sincerely,

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Karen E. Armijo  
Permitting and Compliance Program Manager  
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U.S. Department of Energy

JEP/KEA/PLP

Enclosure: *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, May 2022 (Quarter 19)*, Los Alamos National Laboratory, EPA ID# NM0890010515

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In compliance with Permit Section 1.9.16, a report certification is included with this submittal. A compact disc with copies of the report and the analytical data, in Excel format, is also included to facilitate the review of the monitoring results.



# CERTIFICATION



## Certification

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

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**Jennifer E. Payne**  
Division Leader  
Environmental Protection and Compliance Division  
Triad National Security, LLC  
Los Alamos National Laboratory

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**Karen E. Armijo**  
Permitting and Compliance Program Manager  
National Nuclear Security Administration  
Los Alamos Field Office  
U.S. Department of Energy

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Date Signed



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## ENCLOSURE

*Technical Area 63 Transuranic Waste Facility Soil Vapor  
Monitoring System Report*

*May 2022 (Quarter 19)*

*Los Alamos National Laboratory, EPA ID# NM0890010515*

Date: July 5, 2022

EPC-DO-22-169  
LA-UR-22-25789

U.S. Department of Energy,  
National Nuclear Security Administration Los Alamos Field Office, and  
Triad National Security, LLC



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# Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, May 2022 (Quarter 19) Los Alamos National Laboratory, EPA ID# NM0890010515

## I Introduction

This report provides the May 2022 (Quarter 19) soil vapor sampling results from the Technical Area 63 (TA-63) Transuranic Waste Facility (TWF) soil vapor monitoring network at Los Alamos National Laboratory (LANL). The TWF vapor monitoring wells evaluate vapor-phase contaminants that potentially migrate from TA-50, Material Disposal Area (MDA) C, Solid Waste Management Unit 50-009. MDA C is managed under the Compliance Order on Consent. The TWF is located southeast of MDA C. Quarterly sampling is required by the LANL Hazardous Waste Facility Permit (Permit) Section 3.14.3, *Subsurface Vapor Monitoring*, to prevent worker exposure to potentially harmful levels of volatile organic compounds (VOCs) at the site.

Sampling and laboratory analytical results for Quarter 19 confirm that VOC concentrations in the soil gas at the site are stable and do not exceed the screening levels established by the Permit. This report also presents a statistical analysis of the soil vapor data as part of an on-going review to determine the need for continued sampling on a quarterly basis.

## II Background

On December 23, 2013, the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) approved a Permit modification for the construction of the TWF. Soil vapor monitoring wells were installed in August 2015 and baseline soil vapor monitoring samples were collected, as required by Permit Section 3.14.3, in September 2015. A corresponding report was submitted to the NMED-HWB on October 29, 2015 (LANL 2015). The September 2015 sampling event represents the first quarterly sampling event and coincides with commencement of waste activities at the site. Quarterly reports for the last eighteen quarters are listed in the reference section (LANL 2017 through LANL 2022b).

The TWF soil vapor monitoring network consists of five soil vapor monitoring wells located in or near the permitted storage area at the TWF. The vapor monitoring wells were installed as specified in Permit Section A.6.10, *Subsurface Vapor Monitoring*. Figure 1. Soil vapor monitoring well locations at TA-63 TWF, depicts the locations of the five soil vapor monitoring wells that comprise the TWF soil vapor monitoring network. Vapor monitoring well (VMW)-1 (LANL Structure Number 63-2009) and VMW-2 (63-2010) are located proximal to the TWF storage building foundations and adjacent to the unit boundary that faces the utility corridor on Puye Road and MDA C. A third vapor monitoring well, VMW-3 (63-2011), is located within the permitted unit at a point on the western edge of the unit and close to the utility corridor on Pajarito Road. The sampling ports for VMW-1, VMW-2, and VMW-3 are located at a 5-foot (ft) nominal depth below the concrete pad of the TWF permitted storage unit. Two vapor monitoring wells, VMW-4 (63-2012) and VMW-5 (63-2013), are located outside the permitted unit, across Puye Road to the north and closer to MDA C. There are two sampling ports in VMW-4 and VMW-5 at depths of 25 and 60 ft below the ground surface. Each vapor monitoring well and vapor monitoring port are sampled during quarterly sampling events, for a total of seven (7) vapor samples.

The Permit presents action levels within Permit Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3 (Permit Tables) for VOC constituents of concern from the contaminant plume from MDA C. Each Permit Table presents soil



gas screening levels (SGSLs) for each of the vapor monitoring well monitoring sample ports at 5 ft, 25 ft, and 60 ft. The SGSLs are based on U.S. Environmental Protection Agency (EPA) guidance. References to the guidance and an explanation of the calculations used to develop the SGSLs are presented in Permit Section 3.14.3, *Subsurface Vapor Monitoring*. All VOC laboratory analytical sampling results are compared with the SGSLs, where listed. The primary constituent of concern at the site is trichloroethylene (TCE).

### III Soil Vapor

Field work for the Quarter 19 sampling event occurred on May 4, 2022. Soil vapor gases were extracted from the monitoring well sample ports through stainless steel tubing into stainless steel SUMMA canisters and submitted for laboratory analysis of VOCs using the EPA TO-15 method. A total of eight (8) samples were collected, including one field duplicate from VMW-4 25-ft port and one field blank sample. The samples were analyzed for the constituents identified in the Permit Tables. There were no variances in the sampling procedures from the Permit requirements.

### IV Analytical Results

A summary of the laboratory analytical results for the relevant VOCs detected in Quarter 19 is presented in Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – Quarter 19. The data continue to demonstrate that detected concentrations of TCE and other VOCs do not exceed the relevant SGSLs in the Permit Tables. Laboratory analyses indicate that some constituents are detected above laboratory report detection limits. Table 1 provides the detected VOCs, both non-qualified and estimated or J-flagged detects. Each well port depth and constituent of concern have an associated SGSL, presented in Table 1, for comparison with the analytical results. Also included in Table 1 is a calculated percentage of the analytical results compared with the relevant SGSL to demonstrate the relative constituent concentrations compared with the action levels.

Laboratory results are processed through LANL's Sample Management Office for quality assurance/quality control; these data are presented as an Excel file included on the disc submitted with this report. Results for this quarter are also presented in Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility – Quarter 19.

NMED-HWB correspondence, dated May 23, 2018 (NMED 2018), requires reporting of current and previous sampling results. Table 3: Current and Previous Analytical Results for Constituents Listed in Permit Tables, presents the current and previous quarterly soil gas laboratory analytical results for comparison and tracking.

Overall, TCE consistently demonstrates the highest VOC concentration at the site. It is present in all five of the vapor sampling wells at all port depths. The detected concentrations are highest closer to MDA C. Vapor monitoring wells VMW-4 and VMW-5 are the closest vapor monitoring wells to MDA C. The TCE concentration measured in VMW-4 (at the 25-ft port depth) is 2000 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) (1.3% of the SGSL) and 5900  $\mu\text{g}/\text{m}^3$  at the 60-ft port depth (6.4% of the SGSL). The TCE concentration measured in VMW-5 at the 25-ft port depth is 300  $\mu\text{g}/\text{m}^3$  (0.2% of the SGSL) and 1200  $\mu\text{g}/\text{m}^3$  at the 60-ft port depth (1.3% of the SGSL). The vapor monitoring wells closest to TWF (VMW-1, VMW-2, and VMW-3) demonstrate TCE concentrations that are a fraction of a percent of the relevant SGSLs, ranging from 0.2% to 0.5%.

Chloroform is routinely present in soil gas samples collected from vapor monitoring wells VMW-4 and VMW-5. The results for VMW-4 are above the report detection limits, whereas the results for VMW-5 are estimated, J-flagged concentrations. The concentrations of chloroform in vapor monitoring well

VMW-4 are 78  $\mu\text{g}/\text{m}^3$  (0.3% of the SGSL) and 160  $\mu\text{g}/\text{m}^3$  (0.4% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively. The concentrations of chloroform in vapor monitoring well VMW-5 are 32  $\mu\text{g}/\text{m}^3$  (0.1% of the SGSL) and 23  $\mu\text{g}/\text{m}^3$  (0.1% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively.

Vapor monitoring wells VMW-4 and VMW-5 also consistently demonstrate concentrations above the laboratory report detection limits for dichlorodifluoromethane, tetrachloroethylene, and carbon tetrachloride; however, tetrachloroethylene was not detected in VMW-5 for this quarter. The concentrations for these VOCs are very low, at 0.1% or less of the relevant SGSLs.

### Additional Analytic Results Discussion

A notification of additional constituents, as required by Permit Section 3.14.3, was submitted to NMED-HWB (LANL 2020b) regarding data anomalies in Quarter 10 (LANL 2020c) for the field duplicate sample collected at vapor monitoring well VMW-5, 60-ft port. The VOCs included tetrahydrofuran, ethanol, propanol[2-] (isopropyl alcohol), and 2-butanone. The Permit Tables list 2-butanone (methyl ethyl ketone) but do not list the other constituents. In Quarter 16, the field duplicate for VMW-5, 60-ft port, demonstrated a detection of ethanol at 30  $\mu\text{g}/\text{m}^3$  (J-flagged). The note for this sample indicated that the laboratory control sample percent recovery was less than the lower acceptable limit but greater than or equal to the rejection limit. The Quarter 19 sampling results do not indicate the presence of tetrahydrofuran, ethanol, propanol[2-] (isopropyl alcohol), or 2-butanone.

Ethanol and propanol[2-] (isopropyl alcohol) have been detected at estimated J-flagged concentrations in vapor monitoring wells VMW-1 and VMW-4 in previous sampling events. Neither of these constituents are listed in the Permit Tables, so there are no associated Permit SGSLs for comparison. In Quarter 12 (LANL 2020e), vapor monitoring well VMW-1, 5-ft port, and VMW-4, 25-ft port, analytical results indicated the presence of ethanol and propanol[2-] (isopropyl alcohol). Quarter 14 (LANL 2021b) analytical results for vapor monitoring well VMW-4, 60-ft port, demonstrated the presence of propanol[2-] (isopropyl alcohol) at 19  $\mu\text{g}/\text{m}^3$ . Again, the Quarter 19 sampling results do not indicate the presence of ethanol or propanol[2-].

Field blank sample analytical results starting in Quarter 6 through Quarter 14 (LANL 2019a through LANL 2021b) indicated the presence of ethylbenzene and xylene isomers. At the time, these constituents were not present in any samples collected directly from the five soil vapor monitoring wells. In correspondence dated March 26, 2021 (NMED 2021), the NMED-HWB required that the source of the field blank contamination be identified. Field blanks are collected onsite during sampling events to detect and identify contaminants from the sampling site. An ultra-high pure nitrogen tank is used as the vapor source for the field blank. The nitrogen tank is connected to a SUMMA canister, which is then sent to the analytical laboratory, along with the other samples, for analysis. Before the Quarter 15 sampling event, a new ultra-high pure nitrogen tank was purchased and used for field blank sample collection, which resulted in no detectable amounts of ethylbenzene or xylene isomers. The Quarter 19 sampling event field blank results continue to demonstrate no detectable amounts xylene isomers or ethylbenzene. It appears that the field blank issue is resolved.

On December 16, 2021, notification of a newly detected constituent was made to NMED-HWB (LANL 2021e), as required by Permit Section 3.14.3. The analytical results for the sample collected from VMW 1 indicated the detection of a new constituent, xylene[1,3-]+xylene[1,4-] (m-xylene and p-xylene), below the laboratory report detection limit. Review of the analytical laboratory data did not indicate a data quality error. The field duplicate sample collected in Quarter 18 did not indicate the presence of xylene isomers. Data confirm that there are no detects for xylene isomers at VMW-1 for Quarter 19.

## V Statistics

Statistical analyses focusing on TCE, which is the primary soil vapor constituent detected during the TWF operating period, are computed to further analyze constituent concentrations and potential data trends. Table 4: Statistical Analysis, presents the mean and standard deviation for the quarterly TCE concentrations over time to determine whether the concentrations of TCE can be described statistically within a range of defined concentrations.

The detected concentrations of TCE to date remain within the limits of a two standard deviation interval of the sample above and below the statistical mean values, with a confidence probability of 95%. Two near-range exceptions are associated with the data from the 25-ft ports of vapor monitoring wells VMW-4 and VMW-5. A three standard deviation calculation for these wells (see Table 4) demonstrates that the concentrations for data exceptions fall within a range with a confidence probability of 99%. This result means that no significant deviations are observed for the average TCE concentrations for each well and sampling port to that approximate level of confidence.

Figure 2 Data plots for TA-63 TWF soil vapor monitoring wells inside the permitted unit and Figure 3 Data plots for TA-63 TWF soil vapor monitoring wells outside the permitted unit, present data plots of TCE in each well and port to evaluate whether any significant data trends over the sampling quarters are readily discernable. The trend line plots for each well and port depth are relatively flat. There also does not appear to be a relationship between well results that would indicate seasonal variations or indicate plume concentration changes within these wells.

The concentrations detected are also significantly below the permitted maximum SGSL constituent concentrations for TCE (by at least one order of magnitude). The TCE concentrations for the sampling quarters collected to date appear relatively stable.

The data suggest that the constituent concentrations are stable and that any increase in VOC concentrations, which are of concern according to the Permit conditions for reporting, will likely occur slowly over time and will be identified easily without approaching the SGSL action levels.

## VI References

LANL 2015. *TA-63 Transuranic Waste Facility Soil Vapor Monitoring System Report*, (ENV-DO-15-0305), October 29, 2015. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2017. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 1, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:17-560), December 21, 2017. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-139) of March 30, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 3, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-245) of June 28, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 4, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-349) of September 26, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018d. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 5, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-448) of December 27, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2019a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 6, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-103) of April 4, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2019b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 7, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-203) of June 26, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2019c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 8, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-343) of September 30, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 9, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-467) of January 10, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Additional Information, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-121) of March 26, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 10, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-121) of March 30, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020d. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 11, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-196) of June 30, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020e. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 12, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-302) of October 2, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 13, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-417) of January 11, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO-21-135) of May 3, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 15, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO-21-181) of June 28, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021d. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 16) Los Alamos National Laboratory, EPA ID# NM0890010515*, (EPC-DO-21-295) of October 4, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021e. *15-Day Notification of Newly Detected Constituent in Vapor Monitoring Well, Technical Area 63, Transuranic Waste Facility, Los Alamos National Laboratory, EPA ID #0890010515, (EPC-DO-21-394)* of December 16, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2022a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 17) Los Alamos National Laboratory, EPA ID# NM0890010515, (EPC-DO-21-404)* of January 3, 2022. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2022b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, February 2022 (Quarter 18) Los Alamos National Laboratory, EPA ID# NM0890010515, (EPC-DO-22-093)* of March 29, 2022. Los Alamos National Laboratory, Los Alamos, New Mexico.

NMED 2010. *Los Alamos National Laboratory Hazardous Waste Facility Permit*, issued by New Mexico Environment Department, Hazardous Waste Bureau, November 30, 2010 and subsequent revisions.

NMED 2018. Letter: “*Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory EPA ID#NM0890010515, HWB-LANL-18-016,*” dated May 23, 2018. New Mexico Environment Department, Hazardous Waste Bureau, Santa Fe, New Mexico.

NMED 2021. Letter: “*Review Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 13, Los Alamos National Laboratory EPA ID#NM0890010515, HWB-LANL-18-016,*” dated March 26, 2021. New Mexico Environment Department, Hazardous Waste Bureau, Santa Fe, New Mexico.



## **FIGURES AND TABLES**

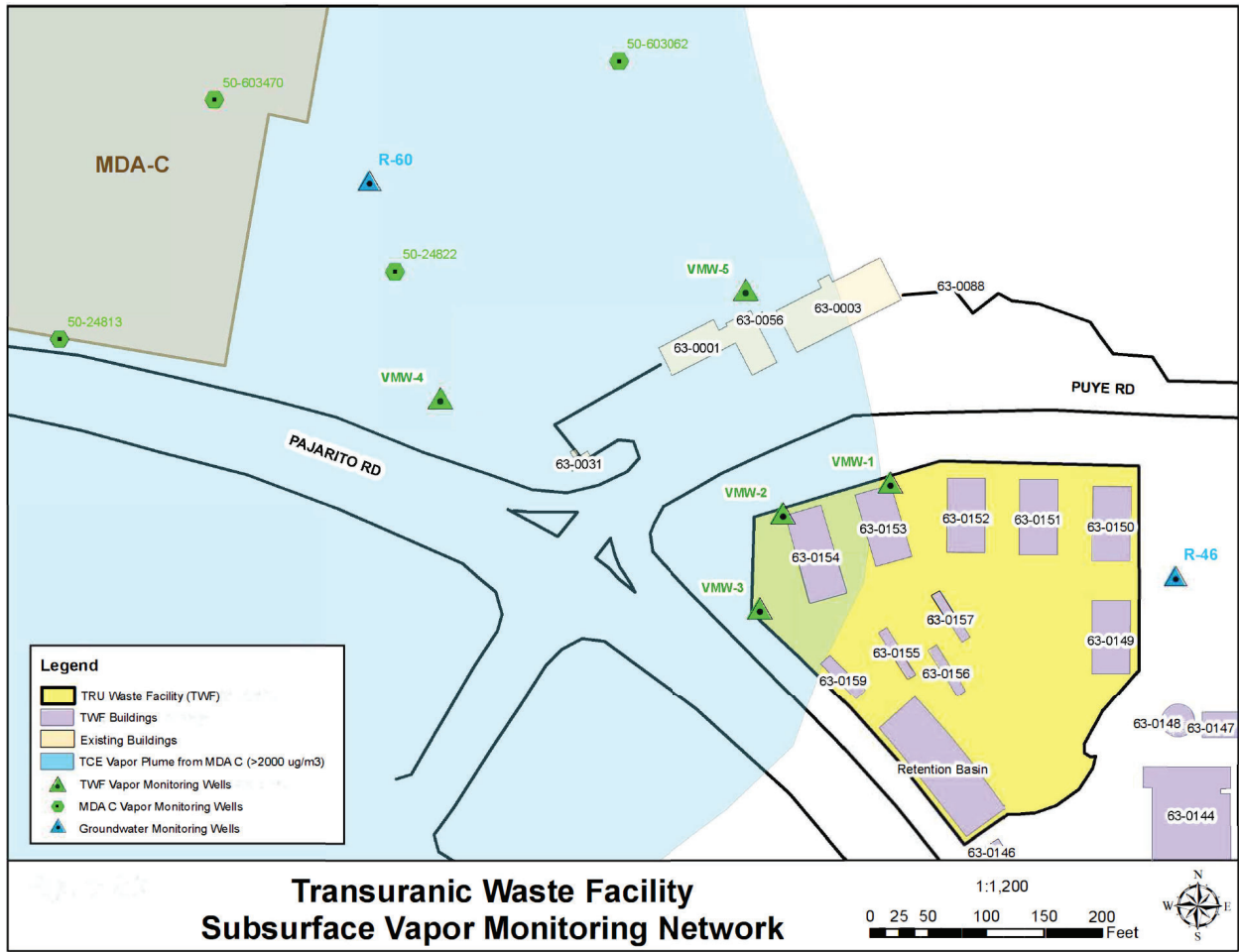


Figure 1. Soil vapor monitoring well locations at TA-63 TWF.

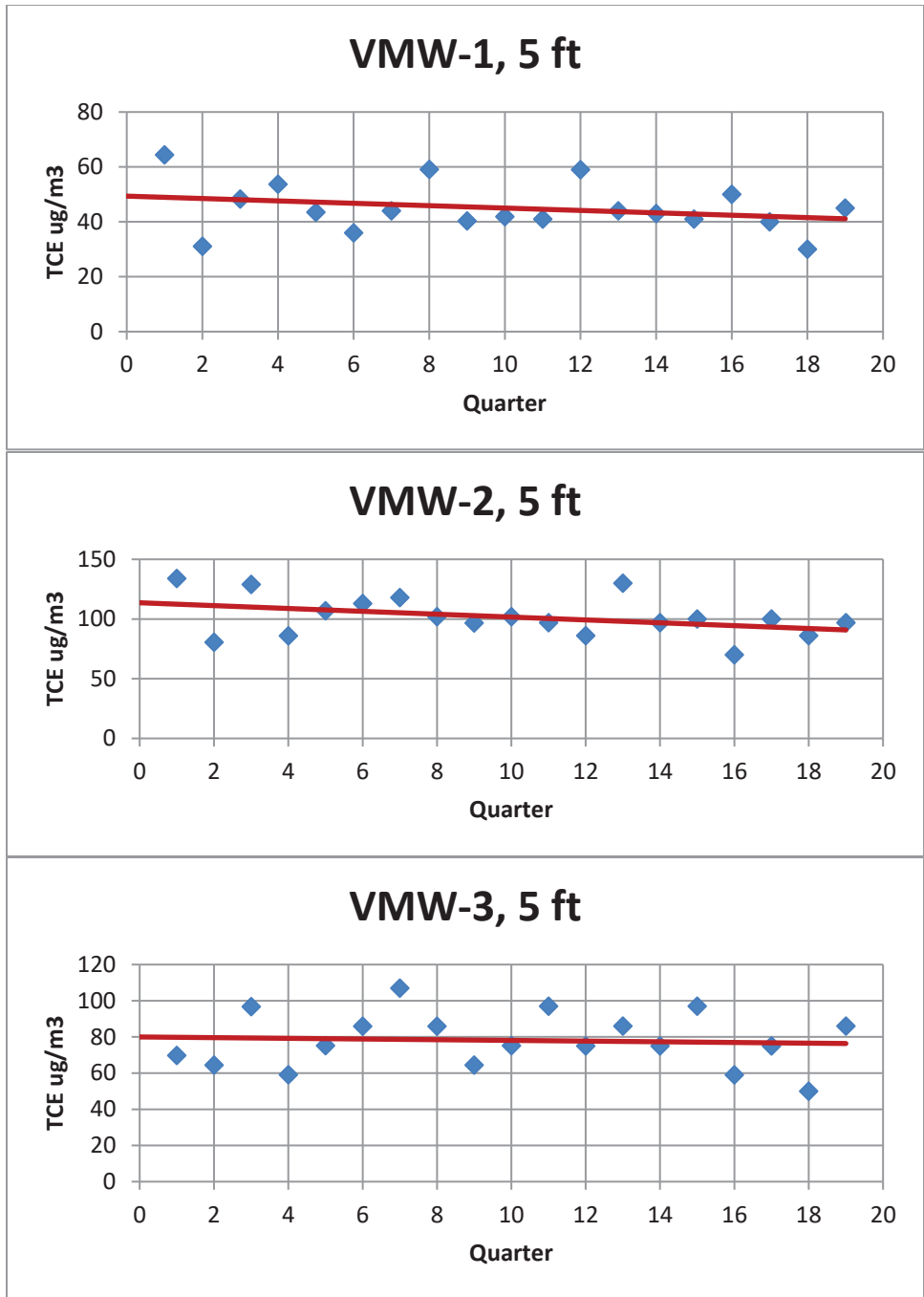


Figure 2. Data plots for TA-63 TWF soil vapor monitoring wells inside the permitted unit.



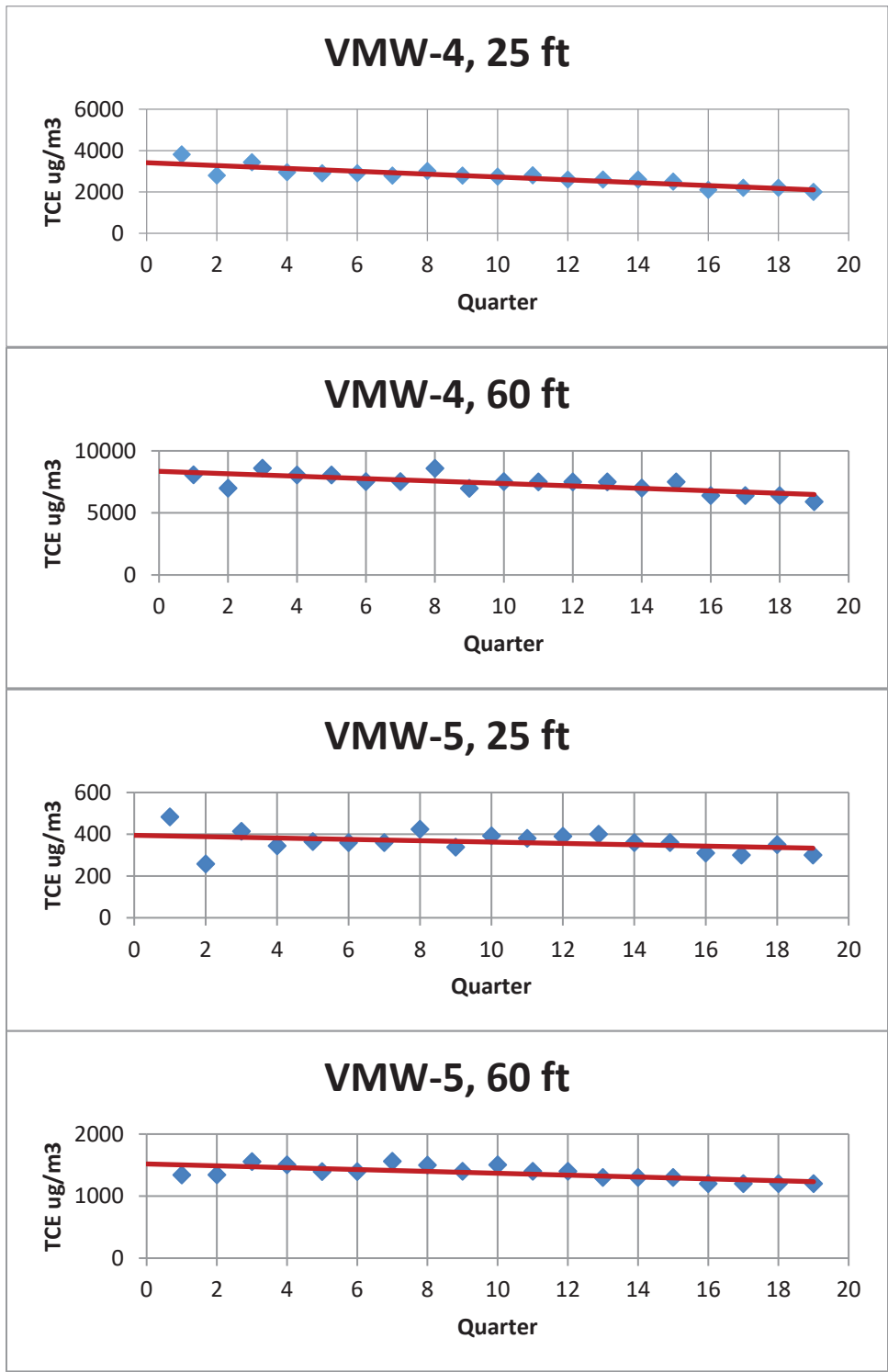


Figure 3. Data plots for TA-63 TWF soil vapor monitoring wells outside the permitted unit.

Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – Quarter 19

Well ID	Field Sample ID	Port Depth	Sample Purpose	Analyte Name	Analyte Listing in Permit	Report Result (µg/m <sup>3</sup> )	EPA Data Qualifier	Report Detection Limit (µg/m <sup>3</sup> )	SGSL (µg/m <sup>3</sup> )	% SGSL
VMW-1 (63-2009)	TWF63-22-249231	5	REG	Trichloroethene	Trichloroethylene	45	NQ	44	1.94E+04	0.2
VMW-2 (63-2010)	TWF63-22-249232	5	REG	Trichloroethene	Trichloroethylene	97	NQ	39	1.94E+04	0.5
VMW-3 (63-2011)	TWF63-22-249233	5	REG	Trichloroethene	Trichloroethylene	86	NQ	41	1.94E+04	0.4
VMW-4 (63-2012)	TWF63-22-249238	25	REG	Trichloroethene	Trichloroethylene	2000	NQ	42	1.57E+05	1.3
	TWF63-22-249238	25	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	50	NQ	39	2.61E+06	<0.1
	TWF63-22-249238	25	REG	Tetrachloroethene	Tetrachloroethylene	33	J	53	2.63E+06	<0.1
	TWF63-22-249238	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	33	J	49	1.06E+05	<0.1
	TWF63-22-249238	25	REG	Chloroform	Chloroform	78	NQ	38	2.30E+04	0.3
VMW-4 (63-2012) Field Duplicate	TWF63-22-249238	25	FD	Trichloroethene	Trichloroethylene	2000	NQ	47	1.57E+05	1.3
	TWF63-22-249238	25	FD	Dichlorodifluoromethane	Dichlorodiflouromethane	54	NQ	43	2.61E+06	<0.1
	TWF63-22-249238	25	FD	Tetrachloroethene	Tetrachloroethylene	33	J	60	2.63E+06	<0.1
	TWF63-22-249238	25	FD	Carbon Tetrachloride	Carbon Tetrachloride	36	J	55	1.06E+05	<0.1
	TWF63-22-249238	25	FD	Chloroform	Chloroform	73	NQ	43	2.30E+04	0.3
VMW-4 (63-2012)	TWF63-22-249239	60	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	120	NQ	39	5.38E+06	<0.1
	TWF63-22-249239	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	28	J	60	1.38E+09	<0.1
	TWF63-22-249239	60	REG	Trichloroethene	Trichloroethylene	5900	NQ	42	9.27E+04	6.4
	TWF63-22-249239	60	REG	Chloroform	Chloroform	160	NQ	38	4.44E+04	0.4
	TWF63-22-249239	60	REG	Tetrachloroethene	Tetrachloroethylene	75	NQ	53	2.05E+06	<0.1
	TWF63-22-249239	60	REG	Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	18	J	31	2.91E+06	<0.1
	TWF63-22-249239	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	88	NQ	49	2.13E+05	<0.1
VMW-5 (63-2013)	TWF63-22-249240	25	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	31	J	45	2.61E+06	<0.1
	TWF63-22-249240	25	REG	Trichloroethene	Trichloroethylene	300	NQ	49	1.57E+05	0.2
	TWF63-22-249240	25	REG	Chloroform	Chloroform	32	J	45	2.30E+04	0.1
	TWF63-22-249240	25	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	19	J	50	1.16E+08	<0.1
	TWF63-22-249241	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	16	J	52	2.13E+05	<0.1
VMW-5 (63-2013)	TWF63-22-249241	60	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	54	NQ	41	5.38E+06	<0.1
	TWF63-22-249241	60	REG	Trichloroethene	Trichloroethylene	1200	NQ	45	9.27E+04	1.3
	TWF63-22-249241	60	REG	Chloroform	Chloroform	23	J	41	4.44E+04	0.1
	TWF63-22-249241	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	29	J	45	2.34E+08	<0.1

Notes: EPA Data Qualifier “J” indicates analytes that are detected but results are estimated as less than the report detection limit.

EPA Data Qualifier “NQ” indicates analytes that are detected above the report detection limit with no data qualifiers.

REG = regular sample

FD = field duplicate

SGSL = Soil Gas Screening Level from Permit Tables 3.14.3.1 through 3.14.3.3

N/A = Not Applicable (Ethanol is not listed in the Permit Tables)

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility – Quarter 19

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	66	U	25.0	66	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	84.0	U	29.0	84	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	21	U	10	21	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	27.0	110	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	14	100	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	84	U	22.0	84	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	54	U	15.0	54	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	35	U	13	35	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	34	U	12.0	34	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	42	U	13.0	42	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	37	U	4.5	37	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	37	U	10	37	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	40	U	16	40	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	49	U	10	49	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	62	U	15.0	62	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	80	U	60	80	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	100	U	17.0	100	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	76	U	31.0	76	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	40	U	8.8	40	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	26	U	4	26	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	44	U	10	44	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	29	U	10	29	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	38	U	11	38	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	49	U	11	49	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	51	U	13	51	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	27.0	130	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	40	U	16.0	40	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	33	U	6.9	33	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	32	U	7	32	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	45	U	18.0	45	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	40	U	10	40	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	62	U	15.0	62	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	57	U	16.0	57	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	37	U	7.9	37	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	94	U	32	94	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	44	U	8.7	44	N
<b>63-2009</b>	<b>5</b>	<b>TWF63-22-249231</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>45</b>	<b>NQ</b>	<b>18</b>	<b>44</b>	<b>Y</b>
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	56	U	13	56	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	340	U	140.0	340	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	30.0	100	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	33	U	12	33	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	36.0	130	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	40	U	14	40	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	31	U	3.3	31	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	37	U	7.4	37	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	24	U	8	24	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	29	U	8	29	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	28	U	11	28	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	130.0	240	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	27.0	120	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	69	U	18	69	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	18	U	7	18	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	32.0	U	11.0	32	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	32	U	14.0	32	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	55	U	16.0	55	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	33	U	12.0	33	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	35	U	8.7	35	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	49	U	14	49	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	40	U	10.0	40	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	40	U	8.4	40	N
63-2009	5	TWF63-22-249231	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	35	U	11	35	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	13.0	29	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	26	U	9.4	26	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	34	U	10.0	34	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	43	U	10.0	43	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	45	U	11.0	45	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	120	U	24	120	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	35	U	14.0	35	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	68	U	53.0	68	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	88	U	16	88	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	69	U	28.0	69	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	35	U	8	35	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	23	U	3.5	23	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	39	U	9.3	39	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	110	U	50	110	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	20.0	60	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	76	U	30.0	76	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	18	U	8.4	18	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	24	100	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	12.0	90	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	74	U	20.0	74	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	48	U	14.0	48	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	29	U	6.5	29	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	5.9	29	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	40	U	16.0	40	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	36	U	9	36	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	55	U	13.0	55	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	50	U	15	50	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	33	U	6.9	33	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	85	U	30	85	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	39	U	8	39	N
<b>63-2010</b>	<b>5</b>	<b>TWF63-22-249232</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>97</b>	<b>NQ</b>	<b>16</b>	<b>39</b>	<b>Y</b>
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	49	U	12	49	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	310	U	120	310	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	31	U	8	31	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	43	U	13.0	43	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	35	U	9	35	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	35	U	7	35	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	31	U	10	31	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	31	U	11	31	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	31	U	11	31	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	37	U	12.0	37	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	33	U	4.2	33	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	33	U	10	33	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	35	U	14	35	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	43	U	9.6	43	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	55	U	13.0	55	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	6.2	16	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	91	U	29	91	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	29	U	11	29	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	120	U	32	120	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	35	U	12.0	35	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	27	U	3	27	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	33	U	6.4	33	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	21	U	7	21	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	25	U	7.4	25	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	10.0	25	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	220	U	110.0	220	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	24.0	100	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	61	U	16.0	61	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	49	U	14	49	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	29	U	11.0	29	N
63-2010	5	TWF63-22-249232	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	10	29	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	33	U	12.0	33	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	11.0	32	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	39	U	12.0	39	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	4.4	34	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	10	34	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	38	U	9.4	38	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	58	U	14.0	58	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	53	U	15	53	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	35	U	7	35	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	32.0	90	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	41	U	8	41	N
<b>63-2011</b>	<b>5</b>	<b>TWF63-22-249233</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>86</b>	<b>NQ</b>	<b>17.0</b>	<b>41</b>	<b>Y</b>
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	52	U	12.0	52	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	130.0	300	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	33	U	8.2	33	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	13.0	46	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	37	U	9.3	37	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	37	U	15.0	37	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	10	46	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	58	U	14.0	58	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	6.4	17	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	31.0	90	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	31	U	11.0	31	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	34.0	100	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	37	U	13.0	37	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	35	U	6.9	35	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	7.7	22	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	8	27	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	26	U	10.0	26	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	120.0	200	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	26.0	100	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	65	U	17.0	65	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	52	U	15.0	52	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	31	U	11	31	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	30	U	11	30	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	30	U	13	30	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	10	27	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	11	35	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	11.0	46	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	48	U	12.0	48	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	25	100	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	37	U	15	37	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	72	U	55	72	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	93	U	16.0	93	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	28	70	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	37	U	8.3	37	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	3.5	24	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	41	U	9.8	41	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	50.0	100	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	23.0	60	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	30.0	80	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	9	19	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	25	100	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	13	90	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	79	U	20	79	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	51	U	15.0	51	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	31	U	6.5	31	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	30	U	6.3	30	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	43	U	17	43	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	37	U	7.9	37	N
63-2011	5	TWF63-22-249233	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	10	33	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29	82	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26	110	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13	96	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21	81	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15.0	52	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	6.5	32	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6.3	31	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17.0	44	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249238</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>75-71-8</b>	<b>Dichlorodifluoromethane</b>	<b>50</b>	<b>NQ</b>	<b>9</b>	<b>39</b>	<b>Y</b>
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	14.0	60	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15	54	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7	36	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32.0	91	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8	43	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249238</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>2000</b>	<b>NQ</b>	<b>17</b>	<b>42</b>	<b>Y</b>
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12	54	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130	330	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	9	34	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13	47	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	7.9	38	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10	34	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12	34	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12	33	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13	40	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	5	35	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15	38	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10	47	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14.0	60	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	7	17	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30	97	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11	32	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34	130	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	7	36	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	7.7	23	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	8	27	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11	27	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120	230	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26	110	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17	66	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249238</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>127-18-4</b>	<b>Tetrachloroethene</b>	<b>33</b>	<b>J</b>	<b>15.0</b>	<b>53</b>	<b>Y</b>
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12	32	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11.0	31	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13.0	31	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10.0	28	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11	36	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249238</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>56-23-5</b>	<b>Carbon Tetrachloride</b>	<b>33</b>	<b>J</b>	<b>12</b>	<b>49</b>	<b>Y</b>
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26	130	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15	38	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60	73	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17	96	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31	74	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249238</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>67-66-3</b>	<b>Chloroform</b>	<b>78</b>	<b>NQ</b>	<b>8.3</b>	<b>38</b>	<b>Y</b>
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	4	25	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	9.8	43	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2012	25	TWF63-22-249238	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23	64	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	9.8	43	N
<b>63-2012</b>	<b>60</b>	<b>TWF63-22-249239</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>75-71-8</b>	<b>Dichlorodifluoromethane</b>	<b>120</b>	<b>NQ</b>	<b>9.4</b>	<b>39</b>	<b>Y</b>
<b>63-2012</b>	<b>60</b>	<b>TWF63-22-249239</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>76-13-1</b>	<b>Trichloro-1,2,2-trifluoroethane[1,1,2-]</b>	<b>28.0</b>	<b>J</b>	<b>14.0</b>	<b>60</b>	<b>Y</b>
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15	54	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7.4	36	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32	91	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8	43	N
<b>63-2012</b>	<b>60</b>	<b>TWF63-22-249239</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>5900</b>	<b>NQ</b>	<b>17.0</b>	<b>42</b>	<b>Y</b>
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12.0	54	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130	330	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.7	34	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13	47	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	7.9	38	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10.0	34	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12.0	34	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12	33	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13.0	40	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	5	35	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10.0	35	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15.0	38	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10.0	47	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14.0	60	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	7	17	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30.0	97	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11.0	32	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34.0	130	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	8	23	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	7.7	27	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11.0	27	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26	110	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23	64	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29	82	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N



Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26.0	110	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13	96	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21	81	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15	52	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	6.5	32	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17.0	44	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17.0	66	N
<b>63-2012</b>	<b>60</b>	<b>TWF63-22-249239</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>127-18-4</b>	<b>Tetrachloroethene</b>	<b>75</b>	<b>NQ</b>	<b>15.0</b>	<b>53</b>	<b>Y</b>
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12.0	32	N
<b>63-2012</b>	<b>60</b>	<b>TWF63-22-249239</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>156-59-2</b>	<b>Dichloroethene[cis-1,2-]</b>	<b>18</b>	<b>J</b>	<b>11.0</b>	<b>31</b>	<b>Y</b>
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13	31	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10	28	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11	36	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11.0	47	N
<b>63-2012</b>	<b>60</b>	<b>TWF63-22-249239</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>56-23-5</b>	<b>Carbon Tetrachloride</b>	<b>88</b>	<b>NQ</b>	<b>12.0</b>	<b>49</b>	<b>Y</b>
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15	38	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60	73	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17	96	N
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31.0	74	N
<b>63-2012</b>	<b>60</b>	<b>TWF63-22-249239</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>67-66-3</b>	<b>Chloroform</b>	<b>160</b>	<b>NQ</b>	<b>8.3</b>	<b>38</b>	<b>Y</b>
63-2012	60	TWF63-22-249239	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	3.8	25	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	63	U	15	63	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	390	U	150.0	390	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	40	U	10.0	40	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	55	U	16.0	55	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	45	U	12	45	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	45	U	10	45	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	40	U	12	40	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	40	U	14	40	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	39	U	14.0	39	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	48	U	15.0	48	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	42	U	5	42	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	42	U	12	42	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	45	U	18	45	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	55	U	12.0	55	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	71	U	16	71	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	20	U	7.7	20	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	120	U	38.0	120	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	37	U	13.0	37	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	150	U	40.0	150	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	45	U	16.0	45	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	35	U	3.8	35	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	42	U	8	42	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	27	U	9	27	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	32	U	9	32	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	32	U	13	32	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	270	U	140.0	270	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	130	U	31	130	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	78	U	20.0	78	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	62	U	18	62	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	38	U	14.0	38	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	36	U	13.0	36	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	36	U	16.0	36	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	33	U	12	33	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	43	U	13.0	43	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	55	U	13.0	55	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	58	U	14	58	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	150	U	31	150	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	45	U	18.0	45	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	87	U	68	87	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	110	U	20.0	110	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	88	U	36.0	88	N
<b>63-2013</b>	<b>25</b>	<b>TWF63-22-249240</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>67-66-3</b>	<b>Chloroform</b>	<b>32</b>	<b>J</b>	<b>10.0</b>	<b>45</b>	<b>Y</b>
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	29	U	4.5	29	N
<b>63-2013</b>	<b>25</b>	<b>TWF63-22-249240</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>71-55-6</b>	<b>Trichloroethane[1,1,1-]</b>	<b>19</b>	<b>J</b>	<b>11.0</b>	<b>50</b>	<b>Y</b>
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	140	U	62.0	140	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	76	U	27.0	76	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	98	U	34	98	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	24	U	11.0	24	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	130	U	31.0	130	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	120	U	16.0	120	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	95	U	25.0	95	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	62	U	17.0	62	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	37	U	8.1	37	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	36	U	8	36	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	52	U	21.0	52	N
<b>63-2013</b>	<b>25</b>	<b>TWF63-22-249240</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>75-71-8</b>	<b>Dichlorodifluoromethane</b>	<b>31</b>	<b>J</b>	<b>11.0</b>	<b>45</b>	<b>Y</b>
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	70	U	17	70	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	64	U	18.0	64	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	42	U	9	42	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	110	U	38.0	110	N
63-2013	25	TWF63-22-249240	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	50	U	9.8	50	N
<b>63-2013</b>	<b>25</b>	<b>TWF63-22-249240</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>300</b>	<b>NQ</b>	<b>20.0</b>	<b>49</b>	<b>Y</b>
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	36	U	13.0	36	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	35	U	13	35	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	43	U	13.0	43	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	38	U	5.0	38	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	38	U	11.0	38	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	41	U	16	41	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	50	U	11	50	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	64	U	15	64	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	18	U	7.1	18	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	34.0	100	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	34	U	12	34	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	140	U	37.0	140	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	41	U	14	41	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	31	U	3.4	31	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	38	U	7.4	38	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	24	U	8	24	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	29	U	8.5	29	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	29	U	12.0	29	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	130.0	240	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	28.0	120	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	71	U	19.0	71	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	56	U	16	56	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	34	U	13.0	34	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	33	U	12.0	33	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	33	U	14	33	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	30	U	11	30	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	39	U	12	39	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	50	U	11.0	50	N
<b>63-2013</b>	<b>60</b>	<b>TWF63-22-249241</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>56-23-5</b>	<b>Carbon Tetrachloride</b>	<b>16</b>	<b>J</b>	<b>13</b>	<b>52</b>	<b>Y</b>
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	140	U	28.0	140	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	41	U	16.0	41	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	79	U	60.0	79	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	100	U	18	100	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	78	U	33.0	78	N
<b>63-2013</b>	<b>60</b>	<b>TWF63-22-249241</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>67-66-3</b>	<b>Chloroform</b>	<b>23</b>	<b>J</b>	<b>9</b>	<b>41</b>	<b>Y</b>
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	26	U	3.8	26	N
<b>63-2013</b>	<b>60</b>	<b>TWF63-22-249241</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>71-55-6</b>	<b>Trichloroethane[1,1,1-]</b>	<b>29</b>	<b>J</b>	<b>10.0</b>	<b>45</b>	<b>Y</b>
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	130	U	58.0	130	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	68	U	25	68	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	87	U	29.0	87	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	21	U	10	21	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	28	110	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	14.0	100	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	86	U	22.0	86	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	56	U	16.0	56	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	34	U	7	34	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	33	U	7	33	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	47	U	19	47	N
<b>63-2013</b>	<b>60</b>	<b>TWF63-22-249241</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>75-71-8</b>	<b>Dichlorodifluoromethane</b>	<b>54</b>	<b>NQ</b>	<b>9.9</b>	<b>41</b>	<b>Y</b>
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	64	U	15.0	64	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	58	U	17	58	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	38	U	8.3	38	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	97	U	35	97	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	45	U	9	45	N
<b>63-2013</b>	<b>60</b>	<b>TWF63-22-249241</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>REG</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>1200</b>	<b>NQ</b>	<b>18</b>	<b>45</b>	<b>Y</b>
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	57	U	14.0	57	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	350	U	140	350	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	36	U	9	36	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	50	U	14.0	50	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	41	U	10.0	41	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	41	U	8.8	41	N
63-2013	60	TWF63-22-249241	05/04/2022	05/13/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	36	U	11.0	36	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	38	U	12.0	38	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	100-41-4	Ethylbenzene	38	U	13	38	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	100-42-5	Styrene	37	U	13.0	37	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	100-44-7	Benzyl Chloride	46	U	14.0	46	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	10061-01-5	Dichloropropene[cis-1,3-]	40	U	5.0	40	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	10061-02-6	Dichloropropene[trans-1,3-]	40	U	11.0	40	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	103-65-1	Propylbenzene[1-]	43	U	17.0	43	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	106-46-7	Dichlorobenzene[1,4-]	53	U	11.0	53	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	106-93-4	Dibromoethane[1,2-]	68	U	15.0	68	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	106-99-0	Butadiene[1,3-]	19	U	7.3	19	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	107-05-1	Chloro-1-propene[3-]	110	U	34	110	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	107-06-2	Dichloroethane[1,2-]	36	U	13.0	36	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	108-10-1	Methyl-2-pentanone[4-]	140	U	39	140	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	108-67-8	Trimethylbenzene[1,3,5-]	43	U	15.0	43	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	108-88-3	Toluene	33	U	3.6	33	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	108-90-7	Chlorobenzene	40	U	7.8	40	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	109-99-9	Tetrahydrofuran	26	U	8.8	26	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	110-54-3	Hexane	31	U	8.8	31	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	110-82-7	Cyclohexane	30	U	12.0	30	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	120-82-1	Trichlorobenzene[1,2,4-]	260	U	130.0	260	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	123-91-1	Dioxane[1,4-]	130	U	30.0	130	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	124-48-1	Chlorodibromomethane	75	U	20.0	75	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249242</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>FD</b>	<b>GAS</b>	<b>127-18-4</b>	<b>Tetrachloroethene</b>	<b>33</b>	<b>J</b>	<b>17</b>	<b>60</b>	<b>Y</b>
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	142-82-5	n-Heptane	36	U	13.0	36	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	156-59-2	Dichloroethene[cis-1,2-]	35	U	13	35	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	156-60-5	Dichloroethene[trans-1,2-]	35	U	15.0	35	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	1634-04-4	Methyl tert-Butyl Ether	32	U	12	32	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	540-84-1	Isooctane	41	U	12	41	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	541-73-1	Dichlorobenzene[1,3-]	53	U	12	53	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249242</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>FD</b>	<b>GAS</b>	<b>56-23-5</b>	<b>Carbon Tetrachloride</b>	<b>36</b>	<b>J</b>	<b>14</b>	<b>55</b>	<b>Y</b>
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	591-78-6	Hexanone[2-]	140	U	29	140	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	622-96-8	Ethyltoluene[4-]	43	U	17.0	43	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	64-17-5	Ethanol	83	U	64.0	83	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	67-63-0	Propanol[2-]	110	U	19	110	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	67-64-1	Acetone	83	U	33	83	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249242</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>FD</b>	<b>GAS</b>	<b>67-66-3</b>	<b>Chloroform</b>	<b>73</b>	<b>NQ</b>	<b>9.8</b>	<b>43</b>	<b>Y</b>
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	71-43-2	Benzene	28	U	4	28	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	71-55-6	Trichloroethane[1,1,1-]	48	U	11.0	48	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	74-83-9	Bromomethane	140	U	62.0	140	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	74-87-3	Chloromethane	72	U	25	72	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-00-3	Chloroethane	92	U	32	92	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-01-4	Vinyl Chloride	22	U	10.0	22	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-09-2	Methylene Chloride	120	U	30	120	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-15-0	Carbon Disulfide	110	U	15	110	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-25-2	Bromoform	91	U	23	91	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-27-4	Bromodichloromethane	59	U	17.0	59	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-34-3	Dichloroethane[1,1-]	36	U	8	36	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-35-4	Dichloroethene[1,1-]	35	U	7.1	35	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	75-69-4	Trichlorofluoromethane	49	U	20	49	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249242</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>FD</b>	<b>GAS</b>	<b>75-71-8</b>	<b>Dichlorodifluoromethane</b>	<b>54</b>	<b>NQ</b>	<b>11.0</b>	<b>43</b>	<b>Y</b>
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	67	U	15.0	67	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	61	U	17.0	61	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	78-87-5	Dichloropropane[1,2-]	41	U	8.3	41	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	78-93-3	Butanone[2-]	100	U	35.0	100	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	79-00-5	Trichloroethane[1,1,2-]	48	U	9	48	N
<b>63-2012</b>	<b>25</b>	<b>TWF63-22-249242</b>	<b>05/04/2022</b>	<b>05/13/2022</b>	<b>VOC</b>	<b>EPA:TO15</b>	<b>FD</b>	<b>GAS</b>	<b>79-01-6</b>	<b>Trichloroethene</b>	<b>2000</b>	<b>NQ</b>	<b>19.0</b>	<b>47</b>	<b>Y</b>
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	60	U	14	60	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	87-68-3	Hexachlorobutadiene	370	U	150.0	370	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	95-47-6	Xylene[1,2-]	38	U	9.5	38	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	95-50-1	Dichlorobenzene[1,2-]	53	U	15.0	53	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	95-63-6	Trimethylbenzene[1,2,4-]	43	U	11.0	43	N
63-2012	25	TWF63-22-249242	05/04/2022	05/13/2022	VOC	EPA:TO15	FD	GAS	98-82-8	Isopropylbenzene	43	U	9	43	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	100-41-4	Ethylbenzene	69	U	24	69	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	100-42-5	Styrene	68	U	23	68	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	100-44-7	Benzyl Chloride	83	U	25	83	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	10061-01-5	Dichloropropene[cis-1,3-]	73	U	9	73	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	10061-02-6	Dichloropropene[trans-1,3-]	73	U	20	73	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	103-65-1	Propylbenzene[1-]	79	U	30	79	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	106-46-7	Dichlorobenzene[1,4-]	96	U	20	96	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	106-93-4	Dibromoethane[1,2-]	120	U	28	120	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	106-99-0	Butadiene[1,3-]	35	U	13	35	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	107-05-1	Chloro-1-propene[3-]	190	U	60	190	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	107-06-2	Dichloroethane[1,2-]	65	U	23	65	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	108-10-1	Methyl-2-pentanone[4-]	250	U	70	250	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	108-67-8	Trimethylbenzene[1,3,5-]	79	U	27.0	79	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	108-88-3	Toluene	60	U	6	60	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	108-90-7	Chlorobenzene	74	U	14.0	74	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	109-99-9	Tetrahydrofuran	47	U	16	47	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	110-54-3	Hexane	56	U	15	56	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	110-82-7	Cyclohexane	55	U	22	55	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	120-82-1	Trichlorobenzene[1,2,4-]	460	U	240	460	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	123-91-1	Dioxane[1,4-]	220	U	54	220	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	64-17-5	Ethanol	150	U	100.0	150	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	67-63-0	Propanol[2-]	190	U	34.0	190	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	67-64-1	Acetone	150	U	59	150	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	67-66-3	Chloroform	78	U	17.0	78	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	71-43-2	Benzene	51	U	7	51	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	71-55-6	Trichloroethane[1,1,1-]	87	U	20.0	87	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	124-48-1	Chlorodibromomethane	140	U	34.0	140	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	127-18-4	Tetrachloroethene	110	U	31.0	110	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	142-82-5	n-Heptane	66	U	23	66	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	156-59-2	Dichloroethene[cis-1,2-]	63	U	22.0	63	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	156-60-5	Dichloroethene[trans-1,2-]	63	U	27	63	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (mg/m3)	Validation Qualifier	Report Method Detection Limit (mg/m3)	Report Detection Limit (mg/m3)	Detected
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	1634-04-4	Methyl tert-Butyl Ether	58	U	20	58	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	540-84-1	Isooctane	75	U	22	75	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	541-73-1	Dichlorobenzene[1,3-]	96	U	22	96	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	56-23-5	Carbon Tetrachloride	100	U	24	100	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	591-78-6	Hexanone[2-]	250	U	53	250	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	622-96-8	Ethyltoluene[4-]	79	U	30	79	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-35-4	Dichloroethene[1,1-]	63	U	13	63	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-69-4	Trichlorofluoromethane	90	U	35	90	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-71-8	Dichlorodifluoromethane	79	U	19.0	79	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	120	U	28	120	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	110	U	31	110	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	78-87-5	Dichloropropane[1,2-]	74	U	15	74	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	78-93-3	Butanone[2-]	180	U	65.0	180	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	79-00-5	Trichloroethane[1,1,2-]	87	U	17	87	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	79-01-6	Trichloroethene	86	U	34.0	86	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	110	U	25.0	110	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	87-68-3	Hexachlorobutadiene	660	U	260.0	660	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	95-47-6	Xylene[1,2-]	69	U	17.0	69	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	95-50-1	Dichlorobenzene[1,2-]	96	U	27	96	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	95-63-6	Trimethylbenzene[1,2,4-]	79	U	20.0	79	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	98-82-8	Isopropylbenzene	79	U	16	79	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	69	U	20	69	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	74-83-9	Bromomethane	240	U	110.0	240	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	74-87-3	Chloromethane	130	U	45	130	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-00-3	Chloroethane	160	U	55.0	160	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-01-4	Vinyl Chloride	41	U	18.0	41	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-09-2	Methylene Chloride	220	U	52	220	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-15-0	Carbon Disulfide	190	U	26	190	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-25-2	Bromoform	170	U	41	170	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-27-4	Bromodichloromethane	110	U	30	110	N
63-2012		TWF63-22-249243	05/04/2022	05/13/2022	VOC	EPA:TO15	FB	GAS	75-34-3	Dichloroethane[1,1-]	65	U	13	65	N

Notes: Rows in Bold font indicate the analyte is detected

- FD= Field Duplicate
- FB = Field Blank
- U = Non-detect
- J = Estimated Value
- UJ = Estimated Undetected
- NQ = no data qualifiers

Table 3: Current and Previous Analytical Results for Constituents Listed in Permit Tables

Well ID (Port (ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10		
		Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	
VMW-1 (5) 63-2009	Trichloroethylene	64.4	0.3	31.1	0.2	48.3	0.2	53.7	0.3	43.5	0.2	36	0.2	44	0.2	59.1	0.3	40.3	0.2	41.9	0.2	
	Toluene	12.4	<0.1																			
	Tetrachloroethylene	11.5	<0.1																			
	cis-1,2-Dichloroethylene	11.5	<0.1																			
	Acetone	16.1	<0.1																			
	1,1,1-Trichloroethane	142	<0.1			8.2	<0.1									8.7	<0.1					
	1,1-Dichloroethane	33.6	<0.1																			
	1,1-Dichloroethylene	10.3	<0.1																			
	Dichlorodifluoromethane	6.9	<0.1																			
	Methylene chloride								13.2	<0.1												
	Chloroform															5.9	<0.1					
	m-Xylene																					
	p-Xylene																					
VMW-2 (5) 63-2010	Trichloroethylene	134	0.7	80.6	0.4	129	0.7	85.9	0.4	107	0.6	113	0.6	118	0.6	102	0.5	96.7	0.5	102	0.5	
	Dichlorodifluoromethane	7.9	<0.1													6.4	<0.1					
	Acetone													20.2	<0.1							
	1,1,1-Trichloroethane																					
	Toluene															6.8	<0.1					
VMW-3 (5) 63-2011	Trichloroethylene	69.8	0.4	64.4	0.3	96.7	0.5	59.1	0.3	75.2	0.4	85.9	0.4	107	0.6	85.9	0.4	64.4	0.3	75.2	0.4	
	Toluene	8.3	<0.1																			
	Acetone							20.9	<0.1					12.3	<0.1							
	Dichlorodifluoromethane															5.9	<0.1					
VMW-4 (25) 63-2012	Trichloroethylene	3810	2.4	2793	1.8	3437	2.2	2954	1.9	2900	1.8	2900	1.8	2790	1.8	3010	1.9	2790	1.8	2740	1.7	
	Tetrachloroethylene	49.5	<0.1	34.6	<0.1	34.6	<0.1	36.6	<0.1	43.4	<0.1	39.3	<0.1	34.6	<0.1			35.9	<0.1			
	Carbon tetrachloride	49.7	<0.1	35.2	<0.1	48.4	<0.1	41.5	<0.1	35.2	<0.1	46.5	<0.1	42.1	<0.1	50.9	<0.1	41.5	<0.1			
	Chloroform	112	0.5	87.8	0.2	107	0.5	107	0.5	102	0.4	92.7	0.4	97.6	0.4	97.6	0.4	102	0.4	102	0.4	
	Dichlorodifluoromethane	84	<0.1	74.1	<0.1	84	<0.1	84	<0.1	69.2	<0.1	79.1	<0.1	84	<0.1	59.3	<0.1	74.1	<0.1	74.1	<0.1	
	1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	<0.1	13	<0.1										16.1	<0.1	13	<0.1				
	1,1,1-Trichloroethane	7.1	<0.1																			
	Bromodichloromethane															6.6	<0.1					

Well ID (Port (ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10		
		Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	
VMW-4 (60) 63-2012	Trichloroethylene	8060	8.7	6980	7.5	8590	9.3	8060	8.7	8060	8.7	7520	8.1	7520	8.1	8590	9.3	6980	7.5	7520	8.1	
	Tetrachloroethylene	81.3	<0.1	74.6	<0.1	88.1	<0.1	81.3	<0.1	88.1	<0.1	88.1	<0.1	81.3	<0.1	94.9	<0.1	67.8	<0.1	74.6	<0.1	
	cis-1,2-Dichloroethylene	16.6	<0.1	23.8	<0.1	25.8	<0.1	25	<0.1	19.4	<0.1	19.8	<0.1	19.8	<0.1	21.8	<0.1	22.2	<0.1	23	<0.1	
	Carbon tetrachloride	94.3	<0.1	88	<0.1	113	<0.1	107	<0.1	107	<0.1	113	<0.1	101	<0.1	107	<0.1	101	<0.1	107	<0.1	
	Chloroform	190	0.4	200	0.5	244	0.5	229	0.5	210	0.5	215	0.5	215	0.5	220	0.5	200	0.5	224	0.5	
	1,1,1-Trichloroethane	13.1	<0.1	14.2	<0.1	14.2	<0.1	15.3	<0.1	15.3	<0.1			13.6	<0.1	15.8	<0.1	13.1	<0.1	15.9	<0.1	
	Dichlorodifluoromethane	143	<0.1	158	<0.1	148	<0.1	193	<0.1	168	<0.1	168	<0.1	183	<0.1	133	<0.1	148	<0.1	173	<0.1	
	1,1,2-Trichloro-1,2,2-trifluoroethane	25.3	<0.1	28.3	<0.1	29.9	<0.1	32.2	<0.1	36.8	<0.1	26	<0.1	28.3	<0.1			26.8	<0.1	27.6	<0.1	
	Toluene	7.6	<0.1																			
	Acetone	16.1	<0.1																			
Trichlorofluoromethane	6.2	<0.1			6.7	<0.1														10.7	<0.1	
VMW-5 (25) 63-2013	Trichloroethylene	483	0.3	258	0.2	414	0.3	344	0.2	365	0.2	360	0.2	360	0.2	424	0.3	338	0.2	392	0.2	
	Chloroform	35.6	0.2	19	<0.1	26.3	0.1	32.2	<0.1	32.2	0.1	28.8	0.1	32.2	0.1	30.3	0.1	36.6	<0.1	41.5	0.2	
	1,1,1-Trichloroethane	30.5	<0.1	19.6	<0.1	20.2	<0.1	27.8	<0.1	22.9	<0.1			23.4	<0.1	22.4	<0.1	21.8	<0.1	24.5	<0.1	
	Dichlorodifluoromethane	59.3	<0.1	42	<0.1	42	<0.1	47.4	<0.1	47	<0.1	49.4	<0.1	54.4	<0.1	36.6	<0.1	45.5	<0.1	48.9	<0.1	
	Tetrachloroethylene	6.8	<0.1																			
	Acetone							15	<0.1					12.3	<0.1							
VMW-5 (60) 63-2013	Trichloroethylene	1340	1.4	1343	1.4	1557	1.7	1504	1.6	1396	1.5	1400	1.5	1560	1.7	1500	1.6	1400	1.5	1503	1.6	
	Tetrachloroethylene	16.9	<0.1	12.9	<0.1	15.6	<0.1					10.2	<0.1	12.9	<0.1							
	Chloroform	15.6	<0.1	18.1	<0.1	22.9	<0.1	19	<0.1	22.9	<0.1	22	<0.1	21.5	<0.1	26.3	<0.1	21	<0.1	23.4	<0.1	
	1,1,1-Trichloroethane	44.7	<0.1	47.4	<0.1	47.4	<0.1	60	<0.1	50.2	<0.1	42	<0.1	45.3	<0.1	46.9	<0.1	44.7	<0.1	47.4	<0.1	
	Dichlorodifluoromethane	64.2	<0.1	84	<0.1	69.2	<0.1	84	<0.1	79	<0.1	79	<0.1	79	<0.1	59.3	<0.1	64.2	<0.1	79.1	<0.1	
	1,1,2-Trichloro-1,2,2-trifluoroethane			10	<0.1	19.9	<0.1							15.3	<0.1	14.6	<0.1			18.4	<0.1	
	Toluene	10.5	<0.1																			
	Carbon tetrachloride	13.2	<0.1			10.7	<0.1								18.2	<0.1	21.4	<0.1	20.1	<0.1		
Acetone	26.1	<0.1													26.1	<0.1						
Field Duplicates:																						
VMW-1 (5) 63-2009(FD)	Trichloroethylene													59.1	0.3							
	Dichlorodifluoromethane													6.9	<0.1							
VMW-3 (5) 63-2011(FD)	Trichloroethylene			45.6	0.2					80.6	0.4											
VMW-4 (25) 63-2012(FD)	Trichloroethylene					3276	2.1					2790	1.8									
	Tetrachloroethylene					32.5	<0.1					34.6	<0.1									
	Carbon tetrachloride					56.6	<0.1					49.7	<0.1									
	Chloroform					112	0.5					97.6	0.4									
	1,1,1-Trichloroethane					12.5	<0.1															
Dichlorofluoromethane					74.1	<0.1					79.1	<0.1										



Well ID (Port (ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10	
		Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL	Result (mg/m3)	% of SGSL
VWM-4 (60) 23-2012(FD)	Trichloroethylene							8593	9.3												
	Tetrachloroethylene							81.3	<0.1												
	cis-1,2-Dichloroethylene							27	<0.1												
	Carbon tetrachloride							113	<0.1												
	Chloroform							249	0.6												
	Dichlorodifluoromethane							188	<0.1												
	1,1,2-Trichloro-1,2,2-trifluoroethane							32.2	<0.1												
VMW-5 (25) 63-2013(FD)	Trichloroethylene	451	0.3																		
	Tetrachloroethylene	8.8	<0.1																		
	Chloroform	30.7	0.1																		
	1,1,1-Trichloroethane	32.7	<0.1																		
	Dichlorodifluoromethane	59.3	<0.1																		
VMW-5 (60) 63-2013(FD)	Trichloroethylene															1560	1.7	1340	1.4	1340	1.4
	Carbon tetrachloride															18.2	<0.1			17.6	<0.1
	1,1,1-Trichloroethane															47.4	<0.1	48.5	<0.1	46.3	<0.1
	Dichlorodifluoromethane															64.2	<0.1	69.2	<0.1	79.1	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane															15.3	<0.1	17.6	<0.1		
	Chloroform																	20.5	<0.1	19.5	<0.1
	Methylethylketone (2-butanone)																			162	<0.1
	Tetrachloroethylene																				
1,2,4-Trimethylbenzene																				10.3	<0.1

Well ID (Port (ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19	
		Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL
VMW-1 (5) 63-2009	Trichloroethylene	41	0.2	59	0.3	44	0.2	43	0.2	41	0.2	50	0.3	40	0.2	30	0.2	45	0.2
	Toluene																		
	Tetrachloroethylene																		
	cis-1,2-Dichloroethylene																		
	Acetone																		
	1,1,1-Trichloroethane	7.6	<0.1	6	<0.1									3.8	<0.1				
	1,1-Dichloroethane																		
	1,1-Dichloroethylene																		
	Dichlorodifluoromethane			6.9	<0.1														
	Methylene chloride																		
	Chloroform																		
	m-Xylene													10	<0.1				
	p-Xylene													10	<0.1				
VMW-2 (5) 63-2010	Trichloroethylene	97	0.5	86	0.4	130	0.7	97	0.5	100	0.5	70	0.4	100	0.5	86	0.4	97	0.5
	Dichlorodifluoromethane	6.9	<0.1	5.9	<0.1	5.9	<0.1												
	Acetone																		
	1,1,1-Trichloroethane					5.1	<0.1												
	Toluene																		
VMW-3 (5) 63-2011	Trichloroethylene	97	0.5	75	0.4	86	0.4	75	0.4	97	0.5	59	0.3	75	0.4	50	0.3	86	0.4
	Toluene																		
	Acetone																		
	Dichlorodifluoromethane					7.9	<0.1												
VMW-4 (25) 63-2012	Trichloroethylene	2800	1.8	2600	1.7	2600	1.7	2600	1.7	2500	1.6	2100	1.3	2200	1.4	2200	1.4	2000	1.3
	Tetrachloroethylene			40	<0.1	40	<0.1	35	<0.1	26	<0.1	37	<0.1	33	<0.1	30	<0.1	33	<0.1
	Carbon tetrachloride	47	<0.1	39	<0.1	43	<0.1	41	<0.1	35	0.1	40	<0.1	36	<0.1	40	<0.1	33	<0.1
	Chloroform	93	0.4	88	0.4	83	0.5	88	0.8	78	0.7	78	0.3	78	0.3	68	0.3	78	0.3
	Dichlorodifluoromethane	79	<0.1	59	<0.1	64	<0.1	59	<0.1	59	<0.1	50	<0.1	54	<0.1	54	<0.1	54	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	19	<0.1																
	1,1,1-Trichloroethane	9.3	<0.1	5.5	<0.1														
	Bromodichloromethane																		

Well ID (Port (ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19	
		Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL
VMW-4 (60) 63-2012	Trichloroethylene	7500	8.1	7500	8.1	7500	8.1	7000	7.6	7500	8.1	6400	6.9	6400	6.9	6400	6.9	5900	6.4
	Tetrachloroethylene	81	<0.1	81	<0.1	75	<0.1	75	<0.1	75	<0.1	75	<0.1	64	<0.1	70	<0.1	75	<0.1
	cis-1,2-Dichloroethylene	23	<0.1	22	<0.1	21	<0.1	23	<0.1	16	<0.1	18	<0.1	14	<0.1	14	<0.1	18	<0.1
	Carbon tetrachloride	100	<0.1	100	<0.1	110	<0.1	94	<0.1	88	<0.1	82	0.2	94	<0.1	100	<0.1	88	<0.1
	Chloroform	240	0.5	200	0.5	200	0.4	200	0.5	180	0.4	160	0.4	170	0.4	170	0.4	160	0.4
	1,1,1-Trichloroethane	18	<0.1	13	<0.1	15	<0.1	13	<0.1	9.8	<0.1	8.7	<0.1	9.8	<0.1				
	Dichlorodifluoromethane	190	<0.1	160	<0.1	160	<0.1	140	<0.1	130	<0.1	130	<0.1	130	<0.1	120	<0.1	120	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	38	<0.1	24	<0.1	34	<0.1	29	<0.1	27	<0.1	25	<0.1	24	<0.1	25	<0.1	28	<0.1
	Toluene																		
	Acetone																		
	Trichlorofluoromethane								7.3	<0.1									
VMW-5 (25) 63-2013	Trichloroethylene	380	0.2	390	0.2	400	0.3	360	0.2	360	0.2	310	0.2	300	0.2	350	0.2	300	0.2
	Chloroform	41	0.2	40	0.2	35	0.2	36	0.3	37	0.3	35	0.2	36	0.2	32	0.1	32	0.1
	1,1,1-Trichloroethane	24	<0.1	19	<0.1	19	<0.1	18	<0.1	16	<0.1	17	<0.1	16	<0.1	12	<0.1	19	<0.1
	Dichlorodifluoromethane	47	<0.1	37	<0.1	47	<0.1	41	<0.1	38	<0.1	31	<0.1	39	<0.1	34	<0.1	31	<0.1
	Tetrachloroethylene																		
	Acetone																		
	Carbon tetrachloride																		
VMW-5 (60) 63-2013	Trichloroethylene	1400	1.5	1400	1.5	1300	1.4	1300	1.4	1300	1.4	1200	1.3	1200	1.3	1200	1.3	1200	1.3
	Tetrachloroethylene													12	<0.1				
	Chloroform	23	<0.1	20	<0.1	19	<0.1	20	<0.1	17	<0.1	21	<0.1	19	<0.1	16	<0.1	23	<0.1
	1,1,1-Trichloroethane	47	<0.1	40	<0.1	33	<0.1	40	<0.1	29	<0.1	36	<0.1	29	<0.1	35	<0.1	29	<0.1
	Dichlorodifluoromethane	84	<0.1	69	<0.1	74	<0.1	69	<0.1	54	<0.1	59	<0.1	59	<0.1	50	<0.1	54	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane			17	<0.1														
	Toluene																		
	Carbon tetrachloride	19	<0.1	18	<0.1	18	<0.1	19	<0.1	14	<0.1	15	<0.1	14	<0.1	14	<0.1	16	<0.1
Acetone																			
Field Duplicates:																			
VMW-1 (5) 63-2009(FD)	Trichloroethylene																37	0.2	
	Dichlorodifluoromethane																		
VMW-3 (5) 63-2011(FD)	Trichloroethylene																		
VMW-4 (25) 63-2012(FD)	Trichloroethylene																	2000	1.3
	Tetrachloroethylene																	33	<0.1
	Carbon tetrachloride																	36	<0.1
	Chloroform																	73	0.3
	Dichlorofluoromethane																	54	<0.1

Well ID (Port (ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19	
		Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL	Result (µg/m³)	% of SGSL
VWM-4 (60) 23-2012(FD)	Trichloroethylene																		
	Tetrachloroethylene																		
	cis-1,2-Dichloroethylene																		
	Carbon tetrachloride																		
	Chloroform																		
	Dichlorodifluoromethane																		
VMW-5 (25) 63-2013(FD)	1,1,2-Trichloro-1,2,2-trifluoroethane																		
	Trichloroethylene																		
	Tetrachloroethylene																		
	Chloroform																		
	1,1,1-Trichloroethane																		
VMW-5 (60) 63-2013(FD)	Dichlorodifluoromethane																		
	Trichloroethylene	1500	1.6	1400	1.5	1400	1.5	1300	1.4	1300	1.4	1200	1.3	1200	1.3				
	Carbon tetrachloride	19	<0.1	19	<0.1	22	<0.1	19	<0.1	14	<0.1	14	<0.1	15	<0.1				
	1,1,1-Trichloroethane	47	<0.1	38	<0.1	47	<0.1	40	<0.1	36	<0.1	30	<0.1	31	<0.1				
	Dichlorodifluoromethane	79	<0.1	69	<0.1	74	<0.1	69	<0.1	59	<0.1	54	<0.1	54	<0.1				
	1,1,2-Trichloro-1,2,2-trifluoroethane					18	<0.1												
	Chloroform	29	<0.1	24	<0.1	22	<0.1	20	<0.1	20	<0.1	19	<0.1	22	<0.1				
	Methylethylketone (2-butanone)																		
	Tetrachloroethylene											14	<0.1						
1,2,4-Trimethylbenzene																			

Table 4: Statistical Analysis

	VMW-1 5ft ( $\mu\text{g}/\text{m}^3$ )	VMW-2 5ft ( $\mu\text{g}/\text{m}^3$ )	VMW-3 5ft ( $\mu\text{g}/\text{m}^3$ )	VMW-4 25ft ( $\mu\text{g}/\text{m}^3$ )	VMW-4 60ft ( $\mu\text{g}/\text{m}^3$ )	VMW-5 25ft ( $\mu\text{g}/\text{m}^3$ )	VMW-5 60ft ( $\mu\text{g}/\text{m}^3$ )
Quarter 1	64.4	134	69.8	3810	8060	483	1340
Quarter 2	31.1	80.6	64.4	2793	6982	258	1343
Quarter 3	48.3	129	96.7	3437	8593	414	1557
Quarter 4	53.7	85.9	59.1	2954	8056	344	1504
Quarter 5	43.5	107	75.2	2900	8056	365	1396
Quarter 6	36	113	85.9	2900	7520	360	1400
Quarter 7	44	118	107	2790	7520	360	1560
Quarter 8	59.1	102	85.9	3010	8590	424	1500
Quarter 9	40.3	96.7	64.4	2790	6980	338	1400
Quarter 10	41.9	102	75.2	2740	7520	392	1500
Quarter 11	41	97	97	2800	7500	380	1400
Quarter 12	59	86	75	2600	7500	390	1400
Quarter 13	44	130	86	2600	7500	400	1300
Quarter 14	43	97	75	2600	7000	360	1300
Quarter 15	41	100	97	2500	7500	360	1300
Quarter 16	50	70	59	2100	6400	310	1200
Quarter 17	40	100	75	2200	6400	300	1200
Quarter 18	30	86	50	2200	6400	350	1200
Quarter 19	45	97	86	2000	5900	300	1200
Mean (M)	45.0	101.6	78.1	2722.3	7367.2	362.5	1368.4
Standard Deviation (SD)[n-1]	9.1	17.2	15.2	438.6	743.8	51.1	119.9
Lower Limit (95%=M-2×SD)	26.9	67.3	47.7	1845.1	5879.5	260.4	1128.5
Upper Limit (95%=M+2×SD)	63.1	136.0	108.4	3599.5	8854.9	464.6	1608.3
Lower Limit (99%=M-3×SD)				1406.5		209.4	
Upper Limit (99%=M+3×SD)				4038.2		515.7	



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## **SAMPLE COLLECTION LOGS**

Air Toxic LTD Folsom CA	<h2>Chain of Custody/Analysis Request</h2>										COC/Lab Request #: 2022-514 Page 1 of 1										
<b>Client Contact:</b>	<b>Lab Agreement # 648313</b>			<b>Site Name:</b> Los Alamos National Laboratory								<b>Rad Screening Info:</b> Acceptable knowledge identifies no DOT hazard classification  <b>Lab Reporting Limit</b> Method Detection Limit									
	<b>Project Number:</b> LANL			TO15																	
	<b>Analysis Turnaround</b>																				
	24 Hour - <input type="checkbox"/> Other - <input type="checkbox"/>																				
	7 Days - <input type="checkbox"/>																				
	14 Days - <input type="checkbox"/>																				
<b>Event ID:</b> 14320	21 Days - <input type="checkbox"/>																				
	28 Days - <input checked="" type="checkbox"/>																				
<b>Field Sample ID</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Matrix</b>																		
TWF63-22-249231	05/04/2022	09:38	GAS	1																	
TWF63-22-249232	05/04/2022	09:59	GAS	1																	
TWF63-22-249233	05/04/2022	10:22	GAS	1																	
TWF63-22-249238	05/04/2022	12:46	GAS	1																	
TWF63-22-249239	05/04/2022	13:06	GAS	1																	
TWF63-22-249240	05/04/2022	13:31	GAS	1																	
TWF63-22-249241	05/04/2022	13:46	GAS	1																	
TWF63-22-249242	05/04/2022	12:47	GAS	1																	
TWF63-22-249243	05/04/2022	14:08	GAS	1																	
<b>Special Instructions:</b> Please bill to ARS contract # 648313.																					
Relinquished by: <i>Sherr Sherwood</i>	Print Name: <i>Sherr Sherwood</i>	Date/Time: <i>7/4/2022 15:40</i>	Received by:	Print Name:	Date/Time:																
Relinquished by:	Print Name:	Date/Time:	Received by:	Print Name:	Date/Time:																
Relinquished by:	Print Name:	Date/Time:	Received by:	Print Name:	Date/Time:																

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249231

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	0938	ok	MEDIA:	GAS	
SWMU/AOC:	nr		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2009		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5		SAMPLE USAGE:	INV	✓
BOTTOM DEPTH:	7.5	↓	EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: VNW-1 Port 7

LOCATION COMMENTS: Summa # 35281

FIELD PARAMETERS:

Sample Time 938 HH:MM

CH<sub>4</sub> = 0 % CO<sub>2</sub> = 11,000 ppm O<sub>2</sub> = 20.3 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Shindo

RELINQUISHED BY (Printed Name) Daniel Suran (Signature)	Date/Time 5/4/22 1430	RECEIVED BY (Printed Name) S. Sherwood (Signature) Sher Sherwood	Date/Time 5/4/2022 1430
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022



**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249232

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	959	ck	MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2010		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5		EXCAVATED:		YES / NO / <del>NA</del>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: VMW-2 Pont 1

LOCATION COMMENTS: Summa # 35995

FIELD PARAMETERS:

Sample Time 959 HH:MM

CH<sub>4</sub> = 0 % CO<sub>2</sub> = 7,600 ppm O<sub>2</sub> = 20.6 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Shandic

RELINQUISHED BY (Printed Name) Daniel Jaramila (Signature) <i>[Signature]</i>	Date/Time 5/4/22 14:30	RECEIVED BY S. Sherwood (Printed Name) (Signature) <i>[Signature]</i>	Date/Time 5/4/2022 14:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249233

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	1022	ck	MEDIA:	Gas	
SWMU/AOC:	M		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2011		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5		EXCAVATED:		YES / NO (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: VMW-3 Port 2

LOCATION COMMENTS: Summa # N/d643

FIELD PARAMETERS:

Sample Time 1022 HH:MM

CH<sub>4</sub> = 0 % CO<sub>2</sub> = 5.400 ppm O<sub>2</sub> = 20.7 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. shendo

RELINQUISHED BY (Printed Name) Daniel Brank (Signature) <i>[Signature]</i>	Date/Time 5/4/22 1430	RECEIVED BY (Printed Name) Sherwood (Signature) <i>[Signature]</i>	Date/Time 5/4/2022 14:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249238

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	dk	FIELD MATRIX:	GAS	dk
TIME COLLECTED (HH:MM):	12:46	dk	MEDIA:	Gas	
SWMU/AOC:	4A		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25		EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	y	6 Liter Summa

SAMPLE COMMENTS: VMW-4 Port 1

LOCATION COMMENTS: Summa # 34001377

FIELD PARAMETERS:

Sample Time \_\_\_\_\_ HH:MM

CH<sub>4</sub> = 0% CO<sub>2</sub> = 11,200 ppm O<sub>2</sub> = 20.5% VOC = 0 ppm

COLLECTED BY (PRINT): m. Slando

RELINQUISHED BY (Printed Name) David Sando (Signature) [Signature]	Date/Time 5/4/2022 14:30	RECEIVED BY (Printed Name) S. Sherwood (Signature) [Signature]	Date/Time 5/4/2022 14:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249239

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	1306	ck	MEDIA:	gas	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60		EXCAVATED:		YES / NO <input checked="" type="checkbox"/> N/A

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
M	TO15	6 Liter Summa Canister	1	NONE	y	6 Liter Summa

SAMPLE COMMENTS: VMW-4 Port 2

LOCATION COMMENTS: Summa # 33544

FIELD PARAMETERS:

Sample Time 1306 HH:MM

CH<sub>4</sub> = 0 % CO<sub>2</sub> = 16.00 ppm O<sub>2</sub> = 19.6 % VOC = 0.9 ppm

COLLECTED BY (PRINT): m. shando

RELINQUISHED BY (Printed Name) <u>Danny Juran</u> (Signature) <u>[Signature]</u>	Date/Time <u>5/4/22</u> <u>14:30</u>	RECEIVED BY <u>S. Sherwood</u> (Printed Name) <u>Sherwood</u> (Signature) <u>[Signature]</u>	Date/Time <u>5/4/2022</u> <u>14:30</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249240

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1330	ok	MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25		EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: VMW-5 Port 1

LOCATION COMMENTS: Summa # 33941

FIELD PARAMETERS:

Sample Time 1331 HH:MM

CH<sub>4</sub> = 0 %    CO<sub>2</sub> = 29.600 ppm    O<sub>2</sub> = 19.0 %    VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Stenlo

RELINQUISHED BY (Printed Name) Daniel Sumb (Signature)	Date/Time 5/4/22 1430	RECEIVED BY (Printed Name) Sher Sherwood (Signature)	Date/Time 5/4/2022 1430
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249241

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	1346	ck	MEDIA:	Gas	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59		SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	60	↓	EXCAVATED:		YES / NO <i>NA</i>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: VMW-5 Part 2

LOCATION COMMENTS: Summa # 3484

FIELD PARAMETERS:

Sample Time 1346 HH:MM

CH<sub>4</sub> = 0 % CO<sub>2</sub> = 24.800 ppm O<sub>2</sub> = 19.1 % VOC = 0.1 ppm

COLLECTED BY (PRINT): *m. Stendo*

RELINQUISHED BY (Printed Name) <i>Daniel S erank</i> (Signature) <i>[Signature]</i>	Date/Time <i>5/4/22</i> <i>1430</i>	RECEIVED BY (Printed Name) <i>S. Sheppard</i> (Signature) <i>[Signature]</i>	Date/Time <i>5/4/2022</i> <i>14:30</i>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249242

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	1247	ck	MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK	Part 1 63-2012	FIELD PREP:	NA	
LOCATION TYPE:	BHover10ft		FIELD QC TYPE:	FD	
TOP DEPTH:	NA		SAMPLE USAGE:	QC	
BOTTOM DEPTH:			EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1      QC sample of TWF63-22-24238

LOCATION COMMENTS: Summa # 9247

FIELD PARAMETERS:  
Sample Time 1247      HH:MM

CH<sub>4</sub> = 0 %      CO<sub>2</sub> = 11,200 ppm      O<sub>2</sub> = 20.5 %      VOC = 0 ppm

COLLECTED BY (PRINT): M. Stando

RELINQUISHED BY (Printed Name) Daniel Jaramila (Signature) <i>DJ</i>	Date/Time 5/4/22 1430	RECEIVED BY (Printed Name) J. Sherwood (Signature) <i>J. Sherwood</i>	Date/Time 5/4/2022 14:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report 04/04/2022

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 14320      EVENT NAME: CY 22 - May - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-249243

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	05/04/2022 <small>07-5/4/22</small>	dk	FIELD MATRIX:	GAS	dk
TIME COLLECTED (HH:MM):	1408	dk	MEDIA:	nitrogen	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK	Port 1 6-3-2012	FIELD PREP:	NA	
LOCATION TYPE:	BHover10ft		FIELD QC TYPE:	FB	
TOP DEPTH:	NA		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	↓	↓	EXCAVATED:		YES / NO <i>NA</i>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS:      *QC sample of TWF63-22-2438*

LOCATION COMMENTS:      *Summa # 05712*

FIELD PARAMETERS:  
 Sample Time      *NA*      HH:MM  
                          *NA*

COLLECTED BY (PRINT): *M. Slendo*

RELINQUISHED BY (Printed Name) <i>Daniel Scramb</i> (Signature)	Date/Time <i>5/4/22</i> <i>1430</i>	RECEIVED BY (Printed Name) <i>J. Sherwood</i> (Signature) <i>J. Sherwood</i>	Date/Time <i>5/4/2022</i> <i>14:30</i>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time