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Date: **JUN 30 2020**

Symbol: EPC-DO: 20-196

LA-UR: 20-24353

Locates Action No.: NA

Mr. Kevin Pierard
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Subject: Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 11, Los Alamos National Laboratory EPA ID #NM0890010515

The United States Department of Energy (DOE) National Nuclear Security Administration, Los Alamos Field Office and the Triad National Security, LLC (Triad) submit this report to the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) in accordance with Section 3.14.3 of the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit). The Permit requires that a soil vapor monitoring system for the LANL Technical Area (TA)-63 Transuranic Waste Facility (TWF) be sampled for certain volatile organic compounds (VOCs) and evaluated on a quarterly basis after operations at the facility commence. This report provides analytical data for the eleventh quarter period 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.

The attached enclosure for this report includes a discussion of the history and analytical findings for the eleventh quarter, a figure of the LANL TWF permitted unit with the soil vapor monitoring well locations, a data summary with analytical results for the quarter, a data comparison table, and sample collection logs. Specifically, Table 1 is a summary of the analytical results for the eleventh quarter and includes detected VOCs, detection limits, the appropriate soil gas screening levels from Permit Tables 3.14.3.1-3, and a percentage comparison of the detected levels of VOCs with the screening levels. Table 2 is a listing of the analytical results for the sampling event. Table 3 is a comparison table of the detected VOCs for the eleven quarters of sampling currently collected for the soil vapor

monitoring wells. This report also presents a statistical evaluation of the data collected for the project to this date.

A report certification is included with this submittal in compliance with Permit Section 1.9.16. A compact disc with copies of this submittal and the analytical data in an Excel format is also included to facilitate the review of the monitoring results by NMED-HWB.

If you have questions or comments concerning this report, please contact Karen E. Armijo, DOE, at (505) 665-7314, karen.armijo@nnsa.doe.gov, or Patrick L. Padilla, Triad, at (505) 667-3932, plpadilla@lanl.gov.

Sincerely,

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Sincerely,

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Karen E. Armijo
Permitting and Compliance Program Manager
National Nuclear Security Administration
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Enclosure: 1) Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 11, Los Alamos National Laboratory EPA ID #NM0890010515

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The attached enclosure for this report includes a discussion of the history and analytical findings for the eleventh quarter, a figure of the LANL TWF permitted unit with the soil vapor monitoring well locations, a data summary with analytical results for the quarter, a data comparison table, and sample collection logs. Specifically, Table 1 is a summary of the analytical results for the eleventh quarter and includes detected VOCs, detection limits, the appropriate soil gas screening levels from Permit Tables 3.14.3.1-3, and a percentage comparison of the detected levels of VOCs with the screening levels. Table 2 is a listing of the analytical results for the sampling event. Table 3 is a comparison table of the detected VOCs for the eleven quarters of sampling currently collected for the soil vapor

ENCLOSURE 1

**TA-63 Transuranic Waste Facility
Soil Vapor Monitoring System Report,
Quarter 11,
Los Alamos National Laboratory
EPA ID #NM0890010515**

EPC-DO-20-196

LAUR-20-24353
Unclassified

Date: JUN 30 2020

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**Technical Area 63 Transuranic Waste Facility
Soil Vapor Monitoring System Report
Quarter 11
Los Alamos National Laboratory
EPA ID #NM0890010515**

I. Introduction

This report presents the eleventh quarterly sampling of a soil vapor monitoring system for the Technical Area (TA)-63 Transuranic Waste Facility (TWF) at Los Alamos National Laboratory (LANL). Construction of the TWF was approved by the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) as a modification to the LANL Hazardous Waste Facility Permit (Permit) on December 23, 2013. The permit modification included requirements for monitoring subsurface vapors to prevent worker exposure to potentially harmful levels of volatile organic compounds (VOCs) at the TWF (Permit Section 3.14.3 and Attachment A.6.10). Sampling and analysis for the eleventh quarter of waste management operations at TWF has established that soil vapor concentrations at the site do not exceed the screening levels established by the Permit. This report also presents a statistical analysis of the data as part of an on-going review of the need for sampling on a quarterly timeframe.

II. TWF Soil Vapor Monitoring Wells

The TWF subsurface vapor monitoring network consists of five vapor monitoring wells in or near the permitted storage unit as specified in Permit Section A.6.10. The TWF is located south-east of the TA-50 Material Disposal Area C, Solid Waste Management Unit 50-009, (MDA-C) at LANL, which appears to be the source of the soil vapor constituents being monitored. Two of the monitoring wells are located close to the storage building foundations adjacent to the unit boundary facing MDA-C and the utility corridor on Puye Road as depicted by well locations VMW-1 (LANL Structure Number 63-2009) and VMW-2 (63-2010) in Figure 56 of Attachment N, *Figures*, of the Permit (see Figure 1 of this submittal). A third monitoring well within the permitted unit is located at a point on the western edge of the unit close to the utility corridor on Pajarito Road, as depicted by well location VMW-3 (63-2011) in Figure 56. The sampling ports for these three wells are located at a 5 foot nominal depth below the concrete pad of the TWF permitted storage unit. Two monitoring wells are located outside the permitted unit across Puye Road to the north and closer to MDA-C, as depicted by well locations VMW-4 (63-2012) and VMW-5 (63-2013) in Figure 56. There are two sampling ports for both these wells located at depths of 25 and 60 feet.

III. Soil Vapor Sampling

The soil vapor monitoring wells at the TA-63 TWF were sampled for the eleventh quarter of waste management operations on April 30, 2020. Sampling procedures and VOC analyses of the obtained samples were scheduled and performed in compliance with the conditions contained in the Permit. Analytical results for the samples were compared to the soil gas screening levels (SGSLs) for individual VOC constituents in Section 3.14.3 of the Permit.

Sampling and analysis was performed as required by U.S. Environmental Protection Agency (EPA) Method TO-15. Soil vapor gases were extracted through the stainless steel tubing of the sampling ports of the TA-63 TWF wells and were collected from all sampling ports. All gas samples were collected in stainless steel canisters and submitted for laboratory analysis of VOCs using the method. The samples were analyzed for the constituents identified in Tables 3.14.3.1, 3.14.3.2 and 3.14.3.3 in the Permit. There were no variances in the sampling procedures from the Permit requirements.

IV. Analytical Results

A summary of the analytical results for the relevant VOCs detected for this sampling event is presented in Table 1 of this report. While analyses of the samples indicated some results above the report detection limits for trichloroethylene (TCE) and other VOCs, none of the concentrations exceeds the relevant SGSLs contained in Permit Tables 3.14.3.1 through 3. Table 1 of this report lists the detected VOCs and includes the calculated percentage of the SGSL as an indicator of the relative concentrations. A complete listing of the full analytical results is included in Table 2.

TCE is the highest concentration VOC detected in this sample event and in previous TA-63 TWF quarterly sampling events. TCE concentrations were detected in all of the five monitoring well locations. The VMW-4 and VMW-5 locations at the 60 foot depth contain the highest concentrations for each of the monitoring wells at 8.1% and 1.5% of the SGSL respectively. These are the soil vapor monitoring wells closest to MDA-C and are not located within the permitted storage unit site at TA-63. The three monitoring wells within the permitted unit (VMW-1, VMW-2 and VMW-3) have detected concentrations for TCE of less than 1.0% of the SGSL.

Additional VOC constituents of concern (i.e., chloroform, dichlorodifluoromethane, tetrachloroethylene, carbon tetrachloride) that are routinely seen in this project and included in the soil gas monitoring screening level tables in the Permit were determined to be present at concentrations higher than the report detection limits in two of the soil vapor monitoring wells. The well locations north of Puye Road (VMW-4 and VMW-5) detected these additional VOC results that are included in Table 1. None of the additional VOC detections at these two locations exceeded 1.0% of the SGSLs listed in the Permit. The three well locations within the boundary of the TWF permitted unit (VMW-1, VMW-2 and VMW-3) did not indicate additional VOCs other than TCE above the report detection limits for this quarter.

Four additional VOCs were indicated above the report detection limits in the duplicate field sample for Well VMW-5, 60-foot port at the last quarter sampling (LANL, 2020c) and a notification of additional constituents was submitted to NMED-HWB on March 26, 2020 (LANL, 2020b) providing information regarding this occurrence as required by Permit Section 3.14.3. These detections were not repeated in this quarter of sampling.

The TA-63 TWF soil vapor monitoring wells were originally installed in August 2015. Baseline soil vapor monitoring samples were taken in September 2015 and the results submitted to NMED on October 29, 2015 (LANL, 2015). Reports were submitted with analytical results for the ten previous quarters of waste management operations at the TWF and are listed in the references following this discussion. In reply to a letter from NMED-HWB dated May 23, 2018 (NMED, 2018), Table 3 is included in this report to show the current and previous quarterly soil gas screening level results at the facility for tracking purposes. The sampling results reported herein for the eleventh quarter of operations at TWF are consistent with the previous results and do not appear to indicate additional contaminant concerns pending future sampling events subject to the Permit.

V. Additional Discussion

This section of the report discusses additional issues related to the analytical results presented. The primary concern addressed in this quarter's data is the presence of any correlating data for the detection of four new VOC constituents in the VMW-5 60-foot sampling port field duplicate. As discussed in the notification of additional constituents submitted to NMED (LANL, 2020b), there were no previous or supporting indications for the detections at that point in the sampling project. As proposed, the sampling for this quarter repeated the field duplicate sampling for that well to attempt to re-detect the constituents and provide an additional data point. This quarter's data did not duplicate the detection indicating that the last quarter's detection was anomalous. This issue will be evaluated for re-occurrence in future sampling events.

Two VOC constituents included in the Permit tables (ethylbenzene and xylene isomers) have been detected in the field blank samples for the sixth through tenth quarters (LANL, 2019a; LANL, 2019b; LANL, 2019c; LANL, 2020a; LANL, 2020c) and were not detected in samples taken from the actual soil vapor monitoring wells. Ethylbenzene and xylene isomers have also been detected in the sampling for this quarter. The relative concentrations of these constituents are well below the permitted SGSLS for the constituent concentrations (<0.1%). Review of the analytical laboratory data does not indicate a data quality error and this may be an equipment or procedural anomaly as it is limited to the blank sample.

The following statistical discussion is included to demonstrate that the sampling data collected for TCE as the main soil vapor constituent detected during the TA-63 TWF operating period has been relatively stable. The mean and standard deviation for the quarterly TCE concentrations in each port in the soil vapor monitoring wells during facility waste operations are presented in Table 4 of this submittal to determine whether the concentrations for the major constituent detected by this project can be described statistically as within a range of defined concentrations.

As shown in Table 4, the TCE concentrations analyzed for the soil vapor monitoring wells for the eleven quarters have remained within the limits of a two standard deviation interval of the sample above or below the mean analytical values with a confidence probability of 95% with two near-range exceptions. A three standard deviation calculation has been added to Table 4 for the wells with exceptions to demonstrate that the concentrations for the exceptions fall within a range with a confidence probability of 99%. Therefore, no significant deviations have been observed for the average TCE concentrations for each sampling port or well to that approximate level of confidence.

Simple linear regression plots for the wells have also been included in Figures 2 and 3 to evaluate whether any significant trends are readily discernable regarding constituent concentration changes over quarters. The line plots for the concentrations determined for separate sampling locations are relatively flat and there does not appear to be a data relationship between the well results that would indicate a consistent effect in changing constituent concentrations such as seasonal variations. The concentrations detected are also far below the permitted maximum SGSL constituent concentrations for TCE (at least one order of magnitude). This suggests that any trend in increasing VOC concentrations that would be of concern according to the Permit conditions for reporting would not occur in a short time interval. The TCE concentrations for the quarters collected to this date appear relatively stable.

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.

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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.

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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.

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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.

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.

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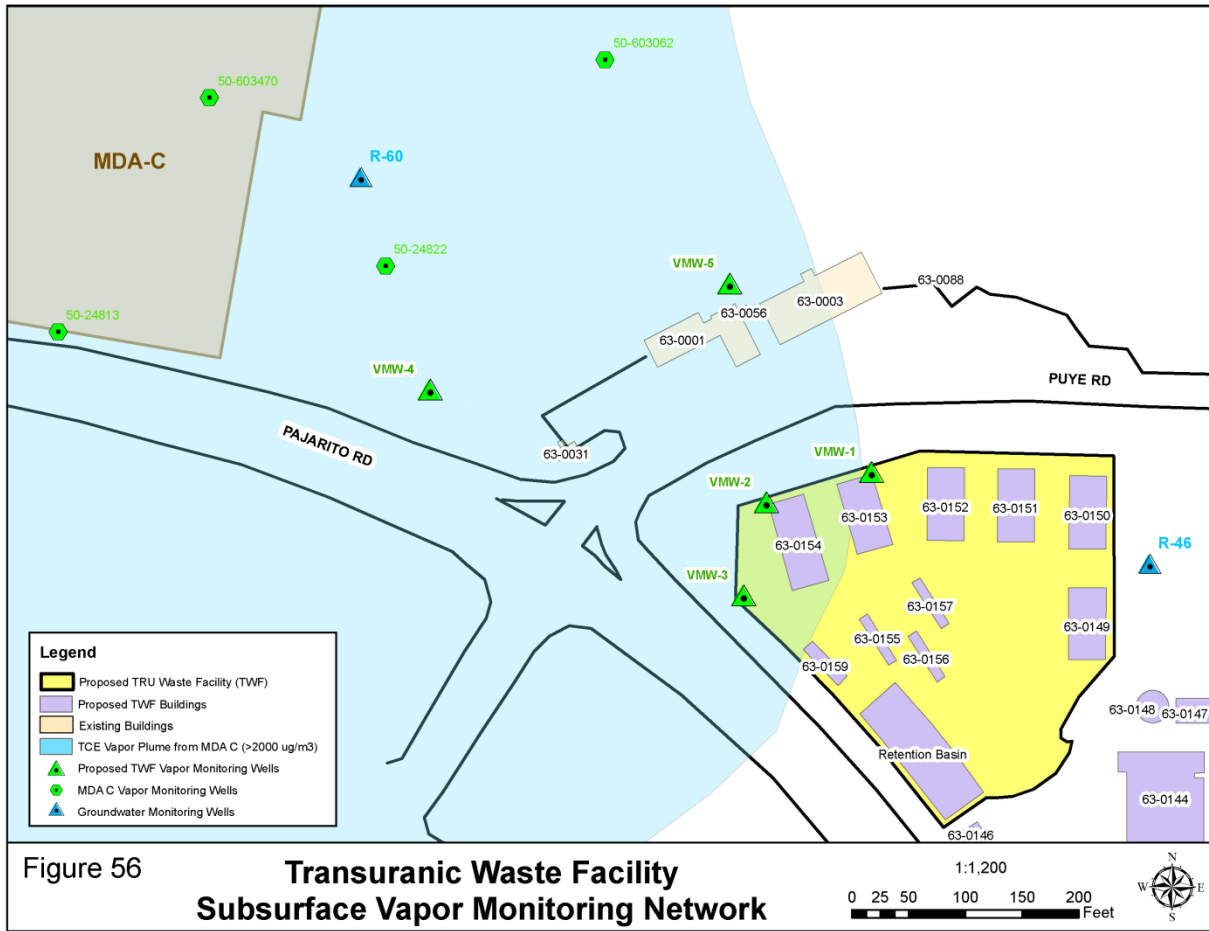


Figure 1

Soil Vapor Monitoring Well Locations at TA-63 TWF

(Source: Los Alamos National Laboratory Hazardous Waste Facility Permit, November, 2010, Figure 56 [as revised by *Notification of Class 1 Permit Modification Construction Updates for the Technical Area 63 Transuranic Waste Facility Container Storage Unit, Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID # NM0890010515, March 11, 2016, EPC-DO-16-055*])

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Table 1. Detected Volatile Organic Compounds
at TA-63 Transuranic Waste Facility – Quarter 11

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Table 1: Detected Volatile Organic Compounds
at TA-63 Transuranic Waste Facility Soil Vapor Monitoring System – Quarter 11

Well	Sample ID	Sample Port Depth (ft)	Analyte/Constituent	Listing in Permit Tables	Result (ug/m ³)	EPA Data Qualifier	Report Detection Limit (ug/m ³)	Soil-Gas Screening Level (ug/m ³)	Percentage Of SGSL (%)
VMW-1 63-2009	TWF63- 20-200945	5	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	7.6	J	49	4.86E+07	<0.1
			Trichloroethene	Trichloroethylene	41	J	48	1.94E+04	0.2
VMW-2 63-2010	TWF63- 20-200946	5	Dichlorodifluoromethane	Dichlorodifluoromethane	6.9	J	45	1.03E+06	<0.1
			Trichloroethene	Trichloroethylene	97	NQ	49	1.94E+04	0.5
VMW-3 63-2011	TWF63- 20-200947	5	Trichloroethene	Trichloroethylene	97	NQ	52	1.94E+04	0.5
VMW-4 63-2012	TWF63- 20-200948	25	Tetrachloroethene	Tetrachloroethylene	35	J	61	2.63E+06	<0.1
			Carbon tetrachloride	Carbon tetrachloride	47	J	57	1.06E+05	<0.1
			Chloroform	Chloroform	93	NQ	44	2.30E+04	0.4
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	9.3	J	49	1.16E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	79	NQ	44	2.61E+06	<0.1
			Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	19	J	69	6.86E+08	<0.1
Trichloroethene	Trichloroethylene	2800	NQ	48	1.57E+05	1.8			
VMW-4 63-2012	TWF63- 20-200949	60	Tetrachloroethene	Tetrachloroethylene	81	NQ	70	2.05E+06	<0.1
			Dichloroethene[cis-1,-2]	cis-1,2-Dichloroethylene	23	J	40	2.91E+06	<0.1
			Carbon Tetrachloride	Carbon tetrachloride	100	NQ	60	2.13E+05	<0.1
			Chloroform	Chloroform	240	NQ	50	4.44E+04	0.5
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	18	J	50	2.34E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	190	NQ	50	5.38E+06	<0.1
Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	38	J	80	1.38E+09	<0.1			
Trichloroethene	Trichloroethylene	7500	NQ	50	9.27E+04	8.1			
VMW-5 63-2013	TWF63- 20-200950	25	Chloroform	Chloroform	41	J	44	2.30E+04	0.2
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	24	J	49	1.16E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	47	NQ	44	2.61E+06	<0.1
			Trichloroethene	Trichloroethylene	380	NQ	48	1.57E+05	0.2

Table 1: Detected Volatile Organic Compounds
at TA-63 Transuranic Waste Facility Soil Vapor Monitoring System – Quarter 11

Well	Sample ID	Sample Port Depth (ft)	Analyte/Constituent	Listing in Permit Tables	Result (ug/m ³)	EPA Data Qualifier	Report Detection Limit (ug/m ³)	Soil-Gas Screening Level (ug/m ³)	Percentage Of SGSL (%)
VMW-5 63-2013	TWF63- 20-200951	60	Carbon Tetrachloride	Carbon tetrachloride	19	J	55	2.13E+05	<0.1
			Chloroform	Chloroform	23	J	43	4.44E+04	<0.1
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	47	J	48	2.34E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	84	NQ	43	5.38E+06	<0.1
			Trichloroethene	Trichloroethylene	1400	NQ	47	9.27E+04	1.5
VMW-5 63-2013	TWF63- 20-200952 Field Duplicate	60	Carbon Tetrachloride	Carbon tetrachloride	19	J	57	2.13E+05	<0.1
			Chloroform	Chloroform	29	J	44	4.44E+04	<0.1
			Trichloroethane [1,1,1-]	1,1,1-Trichloroethane	47	J	50	2.34E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	79	NQ	45	5.38E+06	<0.1
			Trichloroethene	Trichloroethylene	1500	NQ	49	9.27E+04	1.6
VMW-5 63-2013	TWF63- 20-200953 Field Blank		Ethyl benzene	Ethylbenzene	36	J	150	5.40E+05	<0.1
			Xylene[1,2-]	o-Xylene	33	J	150	4.27E+06	<0.1
			Xylene[1,3-] +Xylene[1,4-]	m-Xylene + p-Xylene	140	J	150	5.15E+06 4.74E+06	<0.1
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.									

Table 2. Analytical Results for Soil Vapor Monitoring Wells
at TA-63 Transuranic Waste Facility – Quarter 11

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TA-63 Transuranic Waste Facility Soil Vapor Monitoring System

Sampling and Analysis - Quarter 11

Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200945	63-2009	04/30/2020	Ethylbenzene	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.4	39
TWF63-20-200945	63-2009	04/30/2020	Styrene	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	38
TWF63-20-200945	63-2009	04/30/2020	Benzyl Chloride	47	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	47
TWF63-20-200945	63-2009	04/30/2020	Dichloropropene[cis-1,3-]	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	41
TWF63-20-200945	63-2009	04/30/2020	Dichloropropene[trans-1,3-]	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.1	41
TWF63-20-200945	63-2009	04/30/2020	Propylbenzene[1-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	44
TWF63-20-200945	63-2009	04/30/2020	Dichlorobenzene[1,4-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	54
TWF63-20-200945	63-2009	04/30/2020	Dibromoethane[1,2-]	69	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	69
TWF63-20-200945	63-2009	04/30/2020	Butadiene[1,3-]	20	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	20
TWF63-20-200945	63-2009	04/30/2020	Chloro-1-propene[3-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	26	110
TWF63-20-200945	63-2009	04/30/2020	Dichloroethane[1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.3	36
TWF63-20-200945	63-2009	04/30/2020	Methyl-2-pentanone[4-]	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19	37
TWF63-20-200945	63-2009	04/30/2020	Trimethylbenzene[1,3,5-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	44
TWF63-20-200945	63-2009	04/30/2020	Toluene	34	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	34
TWF63-20-200945	63-2009	04/30/2020	Chlorobenzene	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	41
TWF63-20-200945	63-2009	04/30/2020	Tetrahydrofuran	27	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.7	27
TWF63-20-200945	63-2009	04/30/2020	Hexane	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.0	32
TWF63-20-200945	63-2009	04/30/2020	Cyclohexane	31	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.5	31
TWF63-20-200945	63-2009	04/30/2020	Trichlorobenzene[1,2,4-]	270	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	55	270
TWF63-20-200945	63-2009	04/30/2020	Dioxane[1,4-]	130	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	130
TWF63-20-200945	63-2009	04/30/2020	Chlorodibromomethane	77	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	77
TWF63-20-200945	63-2009	04/30/2020	Tetrachloroethene	61	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18	61
TWF63-20-200945	63-2009	04/30/2020	n-Heptane	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	37
TWF63-20-200945	63-2009	04/30/2020	Dichloroethene[cis-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	36
TWF63-20-200945	63-2009	04/30/2020	Dichloroethene[trans-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	36
TWF63-20-200945	63-2009	04/30/2020	Methyl tert-Butyl Ether	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.0	32
TWF63-20-200945	63-2009	04/30/2020	Isooctane	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.5	42
TWF63-20-200945	63-2009	04/30/2020	Dichlorobenzene[1,3-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	54
TWF63-20-200945	63-2009	04/30/2020	Carbon Tetrachloride	57	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	57
TWF63-20-200945	63-2009	04/30/2020	Hexanone[2-]	150	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	35	150
TWF63-20-200945	63-2009	04/30/2020	Ethyltoluene[4-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	44
TWF63-20-200945	63-2009	04/30/2020	Ethanol	68	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	32	68
TWF63-20-200945	63-2009	04/30/2020	Propanol[2-]	88	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	24	88
TWF63-20-200945	63-2009	04/30/2020	Acetone	85	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	31	85
TWF63-20-200945	63-2009	04/30/2020	Chloroform	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.8	44
TWF63-20-200945	63-2009	04/30/2020	Benzene	29	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.5	29
TWF63-20-200945	63-2009	04/30/2020	Trichloroethane[1,1,1-]	7.6	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.1	49
TWF63-20-200945	63-2009	04/30/2020	Bromomethane	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	140
TWF63-20-200945	63-2009	04/30/2020	Chloromethane	74	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	23	74
TWF63-20-200945	63-2009	04/30/2020	Chloroethane	95	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	34	95
TWF63-20-200945	63-2009	04/30/2020	Vinyl Chloride	23	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	23
TWF63-20-200945	63-2009	04/30/2020	Methylene Chloride	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	49	120
TWF63-20-200945	63-2009	04/30/2020	Carbon Disulfide	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	28	110
TWF63-20-200945	63-2009	04/30/2020	Bromoform	93	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	93
TWF63-20-200945	63-2009	04/30/2020	Bromodichloromethane	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	60
TWF63-20-200945	63-2009	04/30/2020	Dichloroethane[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.3	36
TWF63-20-200945	63-2009	04/30/2020	Dichloroethene[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.1	36
TWF63-20-200945	63-2009	04/30/2020	Trichlorofluoromethane	51	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.7	51
TWF63-20-200945	63-2009	04/30/2020	Dichlorodifluoromethane	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	44
TWF63-20-200945	63-2009	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	69	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	16	69
TWF63-20-200945	63-2009	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	63	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	63
TWF63-20-200945	63-2009	04/30/2020	Dichloropropane[1,2-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	42
TWF63-20-200945	63-2009	04/30/2020	Butanone[2-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	30	110
TWF63-20-200945	63-2009	04/30/2020	Trichloroethane[1,1,2-]	49	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	49
TWF63-20-200945	63-2009	04/30/2020	Trichloroethene	41	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	9.1	48

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200945	63-2009	04/30/2020	Tetrachloroethane[1,1,2,2-]	62	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	62
TWF63-20-200945	63-2009	04/30/2020	Hexachlorobutadiene	380	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	54	380
TWF63-20-200945	63-2009	04/30/2020	Xylene[1,2-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.1	39
TWF63-20-200945	63-2009	04/30/2020	Dichlorobenzene[1,2-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	54
TWF63-20-200945	63-2009	04/30/2020	Trimethylbenzene[1,2,4-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.7	44
TWF63-20-200945	63-2009	04/30/2020	Isopropylbenzene	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	44
TWF63-20-200945	63-2009	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.8	39
TWF63-20-200946	63-2010	04/30/2020	Ethylbenzene	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.8	40
TWF63-20-200946	63-2010	04/30/2020	Styrene	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	39
TWF63-20-200946	63-2010	04/30/2020	Benzyl Chloride	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	48
TWF63-20-200946	63-2010	04/30/2020	Dichloropropene[cis-1,3-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	42
TWF63-20-200946	63-2010	04/30/2020	Dichloropropene[trans-1,3-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.5	42
TWF63-20-200946	63-2010	04/30/2020	Propylbenzene[1-]	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	45
TWF63-20-200946	63-2010	04/30/2020	Dichlorobenzene[1,4-]	55	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	55
TWF63-20-200946	63-2010	04/30/2020	Dibromoethane[1,2-]	71	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	71
TWF63-20-200946	63-2010	04/30/2020	Butadiene[1,3-]	20	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.4	20
TWF63-20-200946	63-2010	04/30/2020	Chloro-1-propene[3-]	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	26	120
TWF63-20-200946	63-2010	04/30/2020	Dichloroethane[1,2-]	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.3	37
TWF63-20-200946	63-2010	04/30/2020	Methyl-2-pentanone[4-]	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19	38
TWF63-20-200946	63-2010	04/30/2020	Trimethylbenzene[1,3,5-]	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	45
TWF63-20-200946	63-2010	04/30/2020	Toluene	35	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	35
TWF63-20-200946	63-2010	04/30/2020	Chlorobenzene	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	42
TWF63-20-200946	63-2010	04/30/2020	Tetrahydrofuran	27	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.0	27
TWF63-20-200946	63-2010	04/30/2020	Hexane	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.4	32
TWF63-20-200946	63-2010	04/30/2020	Cyclohexane	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	32
TWF63-20-200946	63-2010	04/30/2020	Trichlorobenzene[1,2,4-]	270	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	56	270
TWF63-20-200946	63-2010	04/30/2020	Dioxane[1,4-]	130	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	130
TWF63-20-200946	63-2010	04/30/2020	Chlorodibromomethane	78	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	78
TWF63-20-200946	63-2010	04/30/2020	Tetrachloroethene	62	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19	62
TWF63-20-200946	63-2010	04/30/2020	n-Heptane	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	38
TWF63-20-200946	63-2010	04/30/2020	Dichloroethene[cis-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	36
TWF63-20-200946	63-2010	04/30/2020	Dichloroethene[trans-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	36
TWF63-20-200946	63-2010	04/30/2020	Methyl tert-Butyl Ether	33	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.0	33
TWF63-20-200946	63-2010	04/30/2020	Isooctane	43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.5	43
TWF63-20-200946	63-2010	04/30/2020	Dichlorobenzene[1,3-]	55	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	55
TWF63-20-200946	63-2010	04/30/2020	Carbon Tetrachloride	58	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	58
TWF63-20-200946	63-2010	04/30/2020	Hexanone[2-]	150	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	36	150
TWF63-20-200946	63-2010	04/30/2020	Ethyltoluene[4-]	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	45
TWF63-20-200946	63-2010	04/30/2020	Ethanol	70	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	34	70
TWF63-20-200946	63-2010	04/30/2020	Propanol[2-]	91	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	91
TWF63-20-200946	63-2010	04/30/2020	Acetone	88	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	33	88
TWF63-20-200946	63-2010	04/30/2020	Chloroform	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.3	45
TWF63-20-200946	63-2010	04/30/2020	Benzene	29	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.5	29
TWF63-20-200946	63-2010	04/30/2020	Trichloroethane[1,1,1-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.2	50
TWF63-20-200946	63-2010	04/30/2020	Bromomethane	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	43	140
TWF63-20-200946	63-2010	04/30/2020	Chloromethane	76	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	25	76
TWF63-20-200946	63-2010	04/30/2020	Chloroethane	98	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	37	98
TWF63-20-200946	63-2010	04/30/2020	Vinyl Chloride	24	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	24
TWF63-20-200946	63-2010	04/30/2020	Methylene Chloride	130	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	49	130
TWF63-20-200946	63-2010	04/30/2020	Carbon Disulfide	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	29	120
TWF63-20-200946	63-2010	04/30/2020	Bromoform	95	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	95
TWF63-20-200946	63-2010	04/30/2020	Bromodichloromethane	62	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	62
TWF63-20-200946	63-2010	04/30/2020	Dichloroethane[1,1-]	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.7	37
TWF63-20-200946	63-2010	04/30/2020	Dichloroethene[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.1	36
TWF63-20-200946	63-2010	04/30/2020	Trichlorofluoromethane	52	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.7	52

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200946	63-2010	04/30/2020	Dichlorodifluoromethane	6.9	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.9	45
TWF63-20-200946	63-2010	04/30/2020	Trichloro-1,1,2,2-trifluoroethane[1,1,2-]	70	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	17	70
TWF63-20-200946	63-2010	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	64	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	64
TWF63-20-200946	63-2010	04/30/2020	Dichloropropane[1,2-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	42
TWF63-20-200946	63-2010	04/30/2020	Butanone[2-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	32	110
TWF63-20-200946	63-2010	04/30/2020	Trichloroethane[1,1,2-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	50
TWF63-20-200946	63-2010	04/30/2020	Trichloroethene	97	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	9.1	49
TWF63-20-200946	63-2010	04/30/2020	Tetrachloroethane[1,1,2,2-]	63	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	63
TWF63-20-200946	63-2010	04/30/2020	Hexachlorobutadiene	390	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	55	390
TWF63-20-200946	63-2010	04/30/2020	Xylene[1,2-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.5	40
TWF63-20-200946	63-2010	04/30/2020	Dichlorobenzene[1,2-]	55	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	55
TWF63-20-200946	63-2010	04/30/2020	Trimethylbenzene[1,2,4-]	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.8	45
TWF63-20-200946	63-2010	04/30/2020	Isopropylbenzene	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	45
TWF63-20-200946	63-2010	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	40
TWF63-20-200947	63-2011	04/30/2020	Ethylbenzene	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.8	42
TWF63-20-200947	63-2011	04/30/2020	Styrene	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	41
TWF63-20-200947	63-2011	04/30/2020	Benzyl Chloride	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	50
TWF63-20-200947	63-2011	04/30/2020	Dichloropropene[cis-1,3-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	44
TWF63-20-200947	63-2011	04/30/2020	Dichloropropene[trans-1,3-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.0	44
TWF63-20-200947	63-2011	04/30/2020	Propylbenzene[1-]	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	48
TWF63-20-200947	63-2011	04/30/2020	Dichlorobenzene[1,4-]	58	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	58
TWF63-20-200947	63-2011	04/30/2020	Dibromoethane[1,2-]	74	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	74
TWF63-20-200947	63-2011	04/30/2020	Butadiene[1,3-]	21	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.8	21
TWF63-20-200947	63-2011	04/30/2020	Chloro-1-propene[3-]	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	28	120
TWF63-20-200947	63-2011	04/30/2020	Dichloroethane[1,2-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	39
TWF63-20-200947	63-2011	04/30/2020	Methyl-2-pentanone[4-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	40
TWF63-20-200947	63-2011	04/30/2020	Trimethylbenzene[1,3,5-]	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	48
TWF63-20-200947	63-2011	04/30/2020	Toluene	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.8	37
TWF63-20-200947	63-2011	04/30/2020	Chlorobenzene	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	45
TWF63-20-200947	63-2011	04/30/2020	Tetrahydrofuran	29	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.3	29
TWF63-20-200947	63-2011	04/30/2020	Hexane	34	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.7	34
TWF63-20-200947	63-2011	04/30/2020	Cyclohexane	33	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.2	33
TWF63-20-200947	63-2011	04/30/2020	Trichlorobenzene[1,2,4-]	290	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	59	290
TWF63-20-200947	63-2011	04/30/2020	Dioxane[1,4-]	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	43	140
TWF63-20-200947	63-2011	04/30/2020	Chlorodibromomethane	83	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	83
TWF63-20-200947	63-2011	04/30/2020	Tetrachloroethene	66	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	66
TWF63-20-200947	63-2011	04/30/2020	n-Heptane	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	40
TWF63-20-200947	63-2011	04/30/2020	Dichloroethene[cis-1,2-]	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	38
TWF63-20-200947	63-2011	04/30/2020	Dichloroethene[trans-1,2-]	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	38
TWF63-20-200947	63-2011	04/30/2020	Methyl tert-Butyl Ether	35	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	35
TWF63-20-200947	63-2011	04/30/2020	Isooctane	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.9	45
TWF63-20-200947	63-2011	04/30/2020	Dichlorobenzene[1,3-]	58	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	58
TWF63-20-200947	63-2011	04/30/2020	Carbon Tetrachloride	61	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15	61
TWF63-20-200947	63-2011	04/30/2020	Hexanone[2-]	160	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	37	160
TWF63-20-200947	63-2011	04/30/2020	Ethyltoluene[4-]	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	48
TWF63-20-200947	63-2011	04/30/2020	Ethanol	73	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	36	73
TWF63-20-200947	63-2011	04/30/2020	Propanol[2-]	96	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	27	96
TWF63-20-200947	63-2011	04/30/2020	Acetone	93	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	33	93
TWF63-20-200947	63-2011	04/30/2020	Chloroform	47	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.8	47
TWF63-20-200947	63-2011	04/30/2020	Benzene	31	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.5	31
TWF63-20-200947	63-2011	04/30/2020	Trichloroethane[1,1,1-]	53	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	53
TWF63-20-200947	63-2011	04/30/2020	Bromomethane	150	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	43	150
TWF63-20-200947	63-2011	04/30/2020	Chloromethane	80	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	25	80
TWF63-20-200947	63-2011	04/30/2020	Chloroethane	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	37	100
TWF63-20-200947	63-2011	04/30/2020	Vinyl Chloride	25	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.7	25

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200947	63-2011	04/30/2020	Methylene Chloride	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	52	140
TWF63-20-200947	63-2011	04/30/2020	Carbon Disulfide	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	30	120
TWF63-20-200947	63-2011	04/30/2020	Bromoform	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	21	100
TWF63-20-200947	63-2011	04/30/2020	Bromodichloromethane	65	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	65
TWF63-20-200947	63-2011	04/30/2020	Dichloroethane[1,1-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.1	39
TWF63-20-200947	63-2011	04/30/2020	Dichloroethene[1,1-]	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.5	38
TWF63-20-200947	63-2011	04/30/2020	Trichlorofluoromethane	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.3	54
TWF63-20-200947	63-2011	04/30/2020	Dichlorodifluoromethane	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	48
TWF63-20-200947	63-2011	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	74	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18	74
TWF63-20-200947	63-2011	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	68	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	68
TWF63-20-200947	63-2011	04/30/2020	Dichloropropane[1,2-]	45	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	45
TWF63-20-200947	63-2011	04/30/2020	Butanone[2-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	32	110
TWF63-20-200947	63-2011	04/30/2020	Trichloroethane[1,1,2-]	53	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	53
TWF63-20-200947	63-2011	04/30/2020	Trichloroethene	97	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	9.7	52
TWF63-20-200947	63-2011	04/30/2020	Tetrachloroethane[1,1,2,2-]	67	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.9	67
TWF63-20-200947	63-2011	04/30/2020	Hexachlorobutadiene	420	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	59	420
TWF63-20-200947	63-2011	04/30/2020	Xylene[1,2-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	42
TWF63-20-200947	63-2011	04/30/2020	Dichlorobenzene[1,2-]	58	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	58
TWF63-20-200947	63-2011	04/30/2020	Trimethylbenzene[1,2,4-]	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.9	48
TWF63-20-200947	63-2011	04/30/2020	Isopropylbenzene	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	48
TWF63-20-200947	63-2011	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.7	42
TWF63-20-200948	63-2012	04/30/2020	Ethylbenzene	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.4	39
TWF63-20-200948	63-2012	04/30/2020	Styrene	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	38
TWF63-20-200948	63-2012	04/30/2020	Benzyl Chloride	47	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	47
TWF63-20-200948	63-2012	04/30/2020	Dichloropropene[cis-1,3-]	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	41
TWF63-20-200948	63-2012	04/30/2020	Dichloropropene[trans-1,3-]	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.1	41
TWF63-20-200948	63-2012	04/30/2020	Propylbenzene[1-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	44
TWF63-20-200948	63-2012	04/30/2020	Dichlorobenzene[1,4-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	54
TWF63-20-200948	63-2012	04/30/2020	Dibromoethane[1,2-]	69	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	69
TWF63-20-200948	63-2012	04/30/2020	Butadiene[1,3-]	20	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	20
TWF63-20-200948	63-2012	04/30/2020	Chloro-1-propene[3-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	26	110
TWF63-20-200948	63-2012	04/30/2020	Dichloroethane[1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.3	36
TWF63-20-200948	63-2012	04/30/2020	Methyl-2-pentanone[4-]	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19	37
TWF63-20-200948	63-2012	04/30/2020	Trimethylbenzene[1,3,5-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	44
TWF63-20-200948	63-2012	04/30/2020	Toluene	34	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	34
TWF63-20-200948	63-2012	04/30/2020	Chlorobenzene	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	41
TWF63-20-200948	63-2012	04/30/2020	Tetrahydrofuran	27	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.7	27
TWF63-20-200948	63-2012	04/30/2020	Hexane	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.0	32
TWF63-20-200948	63-2012	04/30/2020	Cyclohexane	31	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.5	31
TWF63-20-200948	63-2012	04/30/2020	Trichlorobenzene[1,2,4-]	270	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	55	270
TWF63-20-200948	63-2012	04/30/2020	Dioxane[1,4-]	130	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	130
TWF63-20-200948	63-2012	04/30/2020	Chlorodibromomethane	77	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	77
TWF63-20-200948	63-2012	04/30/2020	Tetrachloroethene	35	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	18	61
TWF63-20-200948	63-2012	04/30/2020	n-Heptane	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	37
TWF63-20-200948	63-2012	04/30/2020	Dichloroethene[cis-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	36
TWF63-20-200948	63-2012	04/30/2020	Dichloroethene[trans-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	36
TWF63-20-200948	63-2012	04/30/2020	Methyl tert-Butyl Ether	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.0	32
TWF63-20-200948	63-2012	04/30/2020	Isooctane	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.5	42
TWF63-20-200948	63-2012	04/30/2020	Dichlorobenzene[1,3-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	54
TWF63-20-200948	63-2012	04/30/2020	Carbon Tetrachloride	47	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	14	57
TWF63-20-200948	63-2012	04/30/2020	Hexanone[2-]	150	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	35	150
TWF63-20-200948	63-2012	04/30/2020	Ethyltoluene[4-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	44
TWF63-20-200948	63-2012	04/30/2020	Ethanol	68	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	32	68
TWF63-20-200948	63-2012	04/30/2020	Propanol[2-]	88	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	24	88
TWF63-20-200948	63-2012	04/30/2020	Acetone	85	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	31	85

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TWF63-20-200948	63-2012	04/30/2020	Chloroform	93	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	6.8	44
TWF63-20-200948	63-2012	04/30/2020	Benzene	29	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.5	29
TWF63-20-200948	63-2012	04/30/2020	Trichloroethane[1,1,1-]	9.3	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.1	49
TWF63-20-200948	63-2012	04/30/2020	Bromomethane	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	140
TWF63-20-200948	63-2012	04/30/2020	Chloromethane	74	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	23	74
TWF63-20-200948	63-2012	04/30/2020	Chloroethane	95	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	34	95
TWF63-20-200948	63-2012	04/30/2020	Vinyl Chloride	23	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	23
TWF63-20-200948	63-2012	04/30/2020	Methylene Chloride	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	49	120
TWF63-20-200948	63-2012	04/30/2020	Carbon Disulfide	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	28	110
TWF63-20-200948	63-2012	04/30/2020	Bromoform	93	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	93
TWF63-20-200948	63-2012	04/30/2020	Bromodichloromethane	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	60
TWF63-20-200948	63-2012	04/30/2020	Dichloroethane[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.3	36
TWF63-20-200948	63-2012	04/30/2020	Dichloroethene[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.1	36
TWF63-20-200948	63-2012	04/30/2020	Trichlorofluoromethane	51	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.7	51
TWF63-20-200948	63-2012	04/30/2020	Dichlorodifluoromethane	79	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	5.4	44
TWF63-20-200948	63-2012	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	19	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	16	69
TWF63-20-200948	63-2012	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	63	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	63
TWF63-20-200948	63-2012	04/30/2020	Dichloropropane[1,2-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	42
TWF63-20-200948	63-2012	04/30/2020	Butanone[2-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	30	110
TWF63-20-200948	63-2012	04/30/2020	Trichloroethane[1,1,2-]	49	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	49
TWF63-20-200948	63-2012	04/30/2020	Trichloroethene	2800	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	9.1	48
TWF63-20-200948	63-2012	04/30/2020	Tetrachloroethane[1,1,2,2-]	62	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	62
TWF63-20-200948	63-2012	04/30/2020	Hexachlorobutadiene	380	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	54	380
TWF63-20-200948	63-2012	04/30/2020	Xylene[1,2-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.1	39
TWF63-20-200948	63-2012	04/30/2020	Dichlorobenzene[1,2-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	54
TWF63-20-200948	63-2012	04/30/2020	Trimethylbenzene[1,2,4-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.7	44
TWF63-20-200948	63-2012	04/30/2020	Isopropylbenzene	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	44
TWF63-20-200948	63-2012	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.8	39
TWF63-20-200949	63-2012	04/30/2020	Ethylbenzene	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	40
TWF63-20-200949	63-2012	04/30/2020	Styrene	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.0	40
TWF63-20-200949	63-2012	04/30/2020	Benzyl Chloride	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	50
TWF63-20-200949	63-2012	04/30/2020	Dichloropropene[cis-1,3-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	50
TWF63-20-200949	63-2012	04/30/2020	Dichloropropene[trans-1,3-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.0	50
TWF63-20-200949	63-2012	04/30/2020	Propylbenzene[1-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	50
TWF63-20-200949	63-2012	04/30/2020	Dichlorobenzene[1,4-]	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	60
TWF63-20-200949	63-2012	04/30/2020	Dibromoethane[1,2-]	80	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	80
TWF63-20-200949	63-2012	04/30/2020	Butadiene[1,3-]	20	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.1	20
TWF63-20-200949	63-2012	04/30/2020	Chloro-1-propene[3-]	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	28	100
TWF63-20-200949	63-2012	04/30/2020	Dichloroethane[1,2-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	40
TWF63-20-200949	63-2012	04/30/2020	Methyl-2-pentanone[4-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	21	40
TWF63-20-200949	63-2012	04/30/2020	Trimethylbenzene[1,3,5-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	50
TWF63-20-200949	63-2012	04/30/2020	Toluene	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.2	40
TWF63-20-200949	63-2012	04/30/2020	Chlorobenzene	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.0	50
TWF63-20-200949	63-2012	04/30/2020	Tetrahydrofuran	30	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.5	30
TWF63-20-200949	63-2012	04/30/2020	Hexane	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.1	40
TWF63-20-200949	63-2012	04/30/2020	Cyclohexane	30	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.2	30
TWF63-20-200949	63-2012	04/30/2020	Trichlorobenzene[1,2,4-]	300	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	61	300
TWF63-20-200949	63-2012	04/30/2020	Dioxane[1,4-]	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	43	100
TWF63-20-200949	63-2012	04/30/2020	Chlorodibromomethane	90	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	90
TWF63-20-200949	63-2012	04/30/2020	Tetrachloroethene	81	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	20	70
TWF63-20-200949	63-2012	04/30/2020	n-Heptane	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	40
TWF63-20-200949	63-2012	04/30/2020	Dichloroethene[cis-1,2-]	23	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	6.3	40
TWF63-20-200949	63-2012	04/30/2020	Dichloroethene[trans-1,2-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	40
TWF63-20-200949	63-2012	04/30/2020	Methyl tert-Butyl Ether	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	40
TWF63-20-200949	63-2012	04/30/2020	Isooctane	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.4	50

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200949	63-2012	04/30/2020	Dichlorobenzene[1,3-]	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	60
TWF63-20-200949	63-2012	04/30/2020	Carbon Tetrachloride	100	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	16	60
TWF63-20-200949	63-2012	04/30/2020	Hexanone[2-]	200	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	38	200
TWF63-20-200949	63-2012	04/30/2020	Ethyltoluene[4-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	50
TWF63-20-200949	63-2012	04/30/2020	Ethanol	80	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	36	80
TWF63-20-200949	63-2012	04/30/2020	Propanol[2-]	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	27	100
TWF63-20-200949	63-2012	04/30/2020	Acetone	90	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	36	90
TWF63-20-200949	63-2012	04/30/2020	Chloroform	240	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	7.8	50
TWF63-20-200949	63-2012	04/30/2020	Benzene	30	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.8	30
TWF63-20-200949	63-2012	04/30/2020	Trichloroethane[1,1,1-]	18	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.5	50
TWF63-20-200949	63-2012	04/30/2020	Bromomethane	200	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	47	200
TWF63-20-200949	63-2012	04/30/2020	Chloromethane	80	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	27	80
TWF63-20-200949	63-2012	04/30/2020	Chloroethane	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	100
TWF63-20-200949	63-2012	04/30/2020	Vinyl Chloride	30	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.9	30
TWF63-20-200949	63-2012	04/30/2020	Methylene Chloride	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	52	100
TWF63-20-200949	63-2012	04/30/2020	Carbon Disulfide	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	30	100
TWF63-20-200949	63-2012	04/30/2020	Bromoform	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	22	100
TWF63-20-200949	63-2012	04/30/2020	Bromodichloromethane	70	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	70
TWF63-20-200949	63-2012	04/30/2020	Dichloroethane[1,1-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.5	40
TWF63-20-200949	63-2012	04/30/2020	Dichloroethene[1,1-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.9	40
TWF63-20-200949	63-2012	04/30/2020	Trichlorofluoromethane	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.9	60
TWF63-20-200949	63-2012	04/30/2020	Dichlorodifluoromethane	190	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	6.4	50
TWF63-20-200949	63-2012	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	38	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	18	80
TWF63-20-200949	63-2012	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	70	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	70
TWF63-20-200949	63-2012	04/30/2020	Dichloropropane[1,2-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	50
TWF63-20-200949	63-2012	04/30/2020	Butanone[2-]	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	35	100
TWF63-20-200949	63-2012	04/30/2020	Trichloroethane[1,1,2-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	50
TWF63-20-200949	63-2012	04/30/2020	Trichloroethene	7500	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	10	50
TWF63-20-200949	63-2012	04/30/2020	Tetrachloroethane[1,1,2,2-]	70	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.9	70
TWF63-20-200949	63-2012	04/30/2020	Hexachlorobutadiene	400	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	61	400
TWF63-20-200949	63-2012	04/30/2020	Xylene[1,2-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	40
TWF63-20-200949	63-2012	04/30/2020	Dichlorobenzene[1,2-]	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	60
TWF63-20-200949	63-2012	04/30/2020	Trimethylbenzene[1,2,4-]	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	50
TWF63-20-200949	63-2012	04/30/2020	Isopropylbenzene	50	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.4	50
TWF63-20-200949	63-2012	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.7	40
TWF63-20-200950	63-2013	04/30/2020	Ethylbenzene	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.4	39
TWF63-20-200950	63-2013	04/30/2020	Styrene	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	38
TWF63-20-200950	63-2013	04/30/2020	Benzyl Chloride	47	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	47
TWF63-20-200950	63-2013	04/30/2020	Dichloropropene[cis-1,3-]	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	41
TWF63-20-200950	63-2013	04/30/2020	Dichloropropene[trans-1,3-]	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.1	41
TWF63-20-200950	63-2013	04/30/2020	Propylbenzene[1-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	44
TWF63-20-200950	63-2013	04/30/2020	Dichlorobenzene[1,4-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	54
TWF63-20-200950	63-2013	04/30/2020	Dibromoethane[1,2-]	69	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	69
TWF63-20-200950	63-2013	04/30/2020	Butadiene[1,3-]	20	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	20
TWF63-20-200950	63-2013	04/30/2020	Chloro-1-propene[3-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	26	110
TWF63-20-200950	63-2013	04/30/2020	Dichloroethane[1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.3	36
TWF63-20-200950	63-2013	04/30/2020	Methyl-2-pentanone[4-]	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19	37
TWF63-20-200950	63-2013	04/30/2020	Trimethylbenzene[1,3,5-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	44
TWF63-20-200950	63-2013	04/30/2020	Toluene	34	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	34
TWF63-20-200950	63-2013	04/30/2020	Chlorobenzene	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	41
TWF63-20-200950	63-2013	04/30/2020	Tetrahydrofuran	27	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.7	27
TWF63-20-200950	63-2013	04/30/2020	Hexane	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.0	32
TWF63-20-200950	63-2013	04/30/2020	Cyclohexane	31	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.5	31
TWF63-20-200950	63-2013	04/30/2020	Trichlorobenzene[1,2,4-]	270	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	55	270
TWF63-20-200950	63-2013	04/30/2020	Dioxane[1,4-]	130	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	130

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200950	63-2013	04/30/2020	Chlorodibromomethane	77	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	77
TWF63-20-200950	63-2013	04/30/2020	Tetrachloroethene	61	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19	61
TWF63-20-200950	63-2013	04/30/2020	n-Heptane	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	37
TWF63-20-200950	63-2013	04/30/2020	Dichloroethene[cis-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	36
TWF63-20-200950	63-2013	04/30/2020	Dichloroethene[trans-1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	36
TWF63-20-200950	63-2013	04/30/2020	Methyl tert-Butyl Ether	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.0	32
TWF63-20-200950	63-2013	04/30/2020	Isooctane	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.5	42
TWF63-20-200950	63-2013	04/30/2020	Dichlorobenzene[1,3-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	54
TWF63-20-200950	63-2013	04/30/2020	Carbon Tetrachloride	57	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14	57
TWF63-20-200950	63-2013	04/30/2020	Hexanone[2-]	150	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	35	150
TWF63-20-200950	63-2013	04/30/2020	Ethyltoluene[4-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	44
TWF63-20-200950	63-2013	04/30/2020	Ethanol	68	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	34	68
TWF63-20-200950	63-2013	04/30/2020	Propanol[2-]	88	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	88
TWF63-20-200950	63-2013	04/30/2020	Acetone	85	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	31	85
TWF63-20-200950	63-2013	04/30/2020	Chloroform	41	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	7.3	44
TWF63-20-200950	63-2013	04/30/2020	Benzene	29	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.5	29
TWF63-20-200950	63-2013	04/30/2020	Trichloroethane[1,1,1-]	24	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.1	49
TWF63-20-200950	63-2013	04/30/2020	Bromomethane	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	140
TWF63-20-200950	63-2013	04/30/2020	Chloromethane	74	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	23	74
TWF63-20-200950	63-2013	04/30/2020	Chloroethane	95	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	37	95
TWF63-20-200950	63-2013	04/30/2020	Vinyl Chloride	23	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	23
TWF63-20-200950	63-2013	04/30/2020	Methylene Chloride	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	49	120
TWF63-20-200950	63-2013	04/30/2020	Carbon Disulfide	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	28	110
TWF63-20-200950	63-2013	04/30/2020	Bromoform	93	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20	93
TWF63-20-200950	63-2013	04/30/2020	Bromodichloromethane	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	60
TWF63-20-200950	63-2013	04/30/2020	Dichloroethane[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.7	36
TWF63-20-200950	63-2013	04/30/2020	Dichloroethene[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.1	36
TWF63-20-200950	63-2013	04/30/2020	Trichlorofluoromethane	51	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.7	51
TWF63-20-200950	63-2013	04/30/2020	Dichlorodifluoromethane	47	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	5.4	44
TWF63-20-200950	63-2013	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	69	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	16	69
TWF63-20-200950	63-2013	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	63	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	63
TWF63-20-200950	63-2013	04/30/2020	Dichloropropane[1,2-]	42	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	42
TWF63-20-200950	63-2013	04/30/2020	Butanone[2-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	32	110
TWF63-20-200950	63-2013	04/30/2020	Trichloroethane[1,1,2-]	49	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	49
TWF63-20-200950	63-2013	04/30/2020	Trichloroethene	380	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	9.1	48
TWF63-20-200950	63-2013	04/30/2020	Tetrachloroethane[1,1,2,2-]	62	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	62
TWF63-20-200950	63-2013	04/30/2020	Hexachlorobutadiene	380	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	54	380
TWF63-20-200950	63-2013	04/30/2020	Xylene[1,2-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.5	39
TWF63-20-200950	63-2013	04/30/2020	Dichlorobenzene[1,2-]	54	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	54
TWF63-20-200950	63-2013	04/30/2020	Trimethylbenzene[1,2,4-]	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.7	44
TWF63-20-200950	63-2013	04/30/2020	Isopropylbenzene	44	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9	44
TWF63-20-200950	63-2013	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	39	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.8	39
TWF63-20-200951	63-2013	04/30/2020	Ethylbenzene	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.4	38
TWF63-20-200951	63-2013	04/30/2020	Styrene	37	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	37
TWF63-20-200951	63-2013	04/30/2020	Benzyl Chloride	46	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	46
TWF63-20-200951	63-2013	04/30/2020	Dichloropropene[cis-1,3-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	40
TWF63-20-200951	63-2013	04/30/2020	Dichloropropene[trans-1,3-]	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.1	40
TWF63-20-200951	63-2013	04/30/2020	Propylbenzene[1-]	43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.4	43
TWF63-20-200951	63-2013	04/30/2020	Dichlorobenzene[1,4-]	53	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	53
TWF63-20-200951	63-2013	04/30/2020	Dibromoethane[1,2-]	68	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	68
TWF63-20-200951	63-2013	04/30/2020	Butadiene[1,3-]	19	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.0	19
TWF63-20-200951	63-2013	04/30/2020	Chloro-1-propene[3-]	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	25	110
TWF63-20-200951	63-2013	04/30/2020	Dichloroethane[1,2-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.9	36
TWF63-20-200951	63-2013	04/30/2020	Methyl-2-pentanone[4-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18	36
TWF63-20-200951	63-2013	04/30/2020	Trimethylbenzene[1,3,5-]	43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.9	43

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200951	63-2013	04/30/2020	Toluene	33	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.0	33
TWF63-20-200951	63-2013	04/30/2020	Chlorobenzene	40	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.1	40
TWF63-20-200951	63-2013	04/30/2020	Tetrahydrofuran	26	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.4	26
TWF63-20-200951	63-2013	04/30/2020	Hexane	31	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.0	31
TWF63-20-200951	63-2013	04/30/2020	Cyclohexane	30	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.5	30
TWF63-20-200951	63-2013	04/30/2020	Trichlorobenzene[1,2,4-]	260	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	53	260
TWF63-20-200951	63-2013	04/30/2020	Dioxane[1,4-]	130	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	130
TWF63-20-200951	63-2013	04/30/2020	Chlorodibromomethane	75	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	75
TWF63-20-200951	63-2013	04/30/2020	Tetrachloroethene	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18	60
TWF63-20-200951	63-2013	04/30/2020	n-Heptane	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13	36
TWF63-20-200951	63-2013	04/30/2020	Dichloroethene[cis-1,2-]	35	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.5	35
TWF63-20-200951	63-2013	04/30/2020	Dichloroethene[trans-1,2-]	35	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	35
TWF63-20-200951	63-2013	04/30/2020	Methyl tert-Butyl Ether	32	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.0	32
TWF63-20-200951	63-2013	04/30/2020	Isooctane	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.5	41
TWF63-20-200951	63-2013	04/30/2020	Dichlorobenzene[1,3-]	53	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10	53
TWF63-20-200951	63-2013	04/30/2020	Carbon Tetrachloride	19	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	14	55
TWF63-20-200951	63-2013	04/30/2020	Hexanone[2-]	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	34	140
TWF63-20-200951	63-2013	04/30/2020	Ethyltoluene[4-]	43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	43
TWF63-20-200951	63-2013	04/30/2020	Ethanol	66	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	32	66
TWF63-20-200951	63-2013	04/30/2020	Propanol[2-]	86	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	24	86
TWF63-20-200951	63-2013	04/30/2020	Acetone	83	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	31	83
TWF63-20-200951	63-2013	04/30/2020	Chloroform	23	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	6.8	43
TWF63-20-200951	63-2013	04/30/2020	Benzene	28	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.2	28
TWF63-20-200951	63-2013	04/30/2020	Trichloroethane[1,1,1-]	47	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.0	48
TWF63-20-200951	63-2013	04/30/2020	Bromomethane	140	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40	140
TWF63-20-200951	63-2013	04/30/2020	Chloromethane	72	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	23	72
TWF63-20-200951	63-2013	04/30/2020	Chloroethane	92	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	34	92
TWF63-20-200951	63-2013	04/30/2020	Vinyl Chloride	22	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.9	22
TWF63-20-200951	63-2013	04/30/2020	Methylene Chloride	120	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	49	120
TWF63-20-200951	63-2013	04/30/2020	Carbon Disulfide	110	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	28	110
TWF63-20-200951	63-2013	04/30/2020	Bromoform	91	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19	91
TWF63-20-200951	63-2013	04/30/2020	Bromodichloromethane	59	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	59
TWF63-20-200951	63-2013	04/30/2020	Dichloroethane[1,1-]	36	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.3	36
TWF63-20-200951	63-2013	04/30/2020	Dichloroethene[1,1-]	35	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.1	35
TWF63-20-200951	63-2013	04/30/2020	Trichlorofluoromethane	49	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.7	49
TWF63-20-200951	63-2013	04/30/2020	Dichlorodifluoromethane	84	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	5.4	43
TWF63-20-200951	63-2013	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	67	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	16	67
TWF63-20-200951	63-2013	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	61	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	61
TWF63-20-200951	63-2013	04/30/2020	Dichloropropane[1,2-]	41	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12	41
TWF63-20-200951	63-2013	04/30/2020	Butanone[2-]	100	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	30	100
TWF63-20-200951	63-2013	04/30/2020	Trichloroethane[1,1,2-]	48	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	48
TWF63-20-200951	63-2013	04/30/2020	Trichloroethene	1400	ug/m3	NQ	Y	GAS	REG	VOC	EPA:TO15	8.6	47
TWF63-20-200951	63-2013	04/30/2020	Tetrachloroethane[1,1,2,2-]	60	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.2	60
TWF63-20-200951	63-2013	04/30/2020	Hexachlorobutadiene	370	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	53	370
TWF63-20-200951	63-2013	04/30/2020	Xylene[1,2-]	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.1	38
TWF63-20-200951	63-2013	04/30/2020	Dichlorobenzene[1,2-]	53	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11	53
TWF63-20-200951	63-2013	04/30/2020	Trimethylbenzene[1,2,4-]	43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.6	43
TWF63-20-200951	63-2013	04/30/2020	Isopropylbenzene	43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.4	43
TWF63-20-200951	63-2013	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	38	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.8	38
TWF63-20-200952	63-2013	04/30/2020	Ethylbenzene	39	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.4	39
TWF63-20-200952	63-2013	04/30/2020	Styrene	39	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	5.1	39
TWF63-20-200952	63-2013	04/30/2020	Benzyl Chloride	47	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	11	47
TWF63-20-200952	63-2013	04/30/2020	Dichloropropene[cis-1,3-]	41	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	11	41
TWF63-20-200952	63-2013	04/30/2020	Dichloropropene[trans-1,3-]	41	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	9.1	41
TWF63-20-200952	63-2013	04/30/2020	Propylbenzene[1-]	45	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	5.4	45

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200952	63-2013	04/30/2020	Dichlorobenzene[1,4-]	55 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	11	55
TWF63-20-200952	63-2013	04/30/2020	Dibromoethane[1,2-]	70 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	12	70
TWF63-20-200952	63-2013	04/30/2020	Butadiene[1,3-]	20 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	8.2	20
TWF63-20-200952	63-2013	04/30/2020	Chloro-1-propene[3-]	110 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	26	110
TWF63-20-200952	63-2013	04/30/2020	Dichloroethane[1,2-]	37 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	9.3	37
TWF63-20-200952	63-2013	04/30/2020	Methyl-2-pentanone[4-]	37 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	19	37
TWF63-20-200952	63-2013	04/30/2020	Trimethylbenzene[1,3,5-]	45 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	5.9	45
TWF63-20-200952	63-2013	04/30/2020	Toluene	34 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	6.4	34
TWF63-20-200952	63-2013	04/30/2020	Chlorobenzene	42 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	5.1	42
TWF63-20-200952	63-2013	04/30/2020	Tetrahydrofuran	27 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	7.7	27
TWF63-20-200952	63-2013	04/30/2020	Hexane	32 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	7.0	32
TWF63-20-200952	63-2013	04/30/2020	Cyclohexane	31 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	6.5	31
TWF63-20-200952	63-2013	04/30/2020	Trichlorobenzene[1,2,4-]	270 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	55	270
TWF63-20-200952	63-2013	04/30/2020	Dioxane[1,4-]	130 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	40	130
TWF63-20-200952	63-2013	04/30/2020	Chlorodibromomethane	77 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	14	77
TWF63-20-200952	63-2013	04/30/2020	Tetrachloroethene	62 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	19	62
TWF63-20-200952	63-2013	04/30/2020	n-Heptane	37 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	13	37
TWF63-20-200952	63-2013	04/30/2020	Dichloroethene[cis-1,2-]	36 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	5.5	36
TWF63-20-200952	63-2013	04/30/2020	Dichloroethene[trans-1,2-]	36 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	11	36
TWF63-20-200952	63-2013	04/30/2020	Methyl tert-Butyl Ether	33 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	5.0	33
TWF63-20-200952	63-2013	04/30/2020	Isooctane	42 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	7.5	42
TWF63-20-200952	63-2013	04/30/2020	Dichlorobenzene[1,3-]	55 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	10	55
TWF63-20-200952	63-2013	04/30/2020	Carbon Tetrachloride	19 ug/m3	J	Y	Y	GAS	FD	VOC	EPA:TO15	14	57
TWF63-20-200952	63-2013	04/30/2020	Hexanone[2-]	150 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	35	150
TWF63-20-200952	63-2013	04/30/2020	Ethyltoluene[4-]	45 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	6.4	45
TWF63-20-200952	63-2013	04/30/2020	Ethanol	68 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	34	68
TWF63-20-200952	63-2013	04/30/2020	Propanol[2-]	88 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	20	88
TWF63-20-200952	63-2013	04/30/2020	Acetone	85 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	33	85
TWF63-20-200952	63-2013	04/30/2020	Chloroform	29 ug/m3	J	Y	Y	GAS	FD	VOC	EPA:TO15	7.3	44
TWF63-20-200952	63-2013	04/30/2020	Benzene	29 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	4.5	29
TWF63-20-200952	63-2013	04/30/2020	Trichloroethane[1,1,1-]	47 ug/m3	J	Y	Y	GAS	FD	VOC	EPA:TO15	5.2	50
TWF63-20-200952	63-2013	04/30/2020	Bromomethane	140 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	40	140
TWF63-20-200952	63-2013	04/30/2020	Chloromethane	74 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	25	74
TWF63-20-200952	63-2013	04/30/2020	Chloroethane	95 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	37	95
TWF63-20-200952	63-2013	04/30/2020	Vinyl Chloride	23 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	8.2	23
TWF63-20-200952	63-2013	04/30/2020	Methylene Chloride	120 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	49	120
TWF63-20-200952	63-2013	04/30/2020	Carbon Disulfide	110 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	29	110
TWF63-20-200952	63-2013	04/30/2020	Bromoform	94 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	20	94
TWF63-20-200952	63-2013	04/30/2020	Bromodichloromethane	61 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	11	61
TWF63-20-200952	63-2013	04/30/2020	Dichloroethane[1,1-]	37 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	7.7	37
TWF63-20-200952	63-2013	04/30/2020	Dichloroethene[1,1-]	36 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	7.1	36
TWF63-20-200952	63-2013	04/30/2020	Trichlorofluoromethane	51 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	6.7	51
TWF63-20-200952	63-2013	04/30/2020	Dichlorodifluoromethane	79 ug/m3	NQ	Y	Y	GAS	FD	VOC	EPA:TO15	5.4	45
TWF63-20-200952	63-2013	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	70 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	16	70
TWF63-20-200952	63-2013	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	64 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	13	64
TWF63-20-200952	63-2013	04/30/2020	Dichloropropane[1,2-]	42 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	12	42
TWF63-20-200952	63-2013	04/30/2020	Butanone[2-]	110 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	32	110
TWF63-20-200952	63-2013	04/30/2020	Trichloroethane[1,1,2-]	50 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	11	50
TWF63-20-200952	63-2013	04/30/2020	Trichloroethene	1500 ug/m3	NQ	Y	Y	GAS	FD	VOC	EPA:TO15	9.1	49
TWF63-20-200952	63-2013	04/30/2020	Tetrachloroethane[1,1,2,2-]	62 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	8.2	62
TWF63-20-200952	63-2013	04/30/2020	Hexachlorobutadiene	380 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	55	380
TWF63-20-200952	63-2013	04/30/2020	Xylene[1,2-]	39 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	6.5	39
TWF63-20-200952	63-2013	04/30/2020	Dichlorobenzene[1,2-]	55 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	11	55
TWF63-20-200952	63-2013	04/30/2020	Trimethylbenzene[1,2,4-]	45 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	4.7	45
TWF63-20-200952	63-2013	04/30/2020	Isopropylbenzene	45 ug/m3	U	N	N	GAS	FD	VOC	EPA:TO15	6.9	45

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200952	63-2013	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	39	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.8	39
TWF63-20-200953	63-2013	04/30/2020	Ethylbenzene	36	ug/m3	J	Y	GAS	FB	VOC	EPA:TO15	28	150
TWF63-20-200953	63-2013	04/30/2020	Styrene	140	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	20	140
TWF63-20-200953	63-2013	04/30/2020	Benzyl Chloride	180	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	41	180
TWF63-20-200953	63-2013	04/30/2020	Dichloropropene[cis-1,3-]	150	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	41	150
TWF63-20-200953	63-2013	04/30/2020	Dichloropropene[trans-1,3-]	150	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	35	150
TWF63-20-200953	63-2013	04/30/2020	Propylbenzene[1-]	170	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	21	170
TWF63-20-200953	63-2013	04/30/2020	Dichlorobenzene[1,4-]	200	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	40	200
TWF63-20-200953	63-2013	04/30/2020	Dibromoethane[1,2-]	260	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	46	260
TWF63-20-200953	63-2013	04/30/2020	Butadiene[1,3-]	75	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	31	75
TWF63-20-200953	63-2013	04/30/2020	Chloro-1-propene[3-]	440	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	97	440
TWF63-20-200953	63-2013	04/30/2020	Dichloroethane[1,2-]	140	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	35	140
TWF63-20-200953	63-2013	04/30/2020	Methyl-2-pentanone[4-]	140	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	70	140
TWF63-20-200953	63-2013	04/30/2020	Trimethylbenzene[1,3,5-]	170	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	23	170
TWF63-20-200953	63-2013	04/30/2020	Toluene	130	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	24	130
TWF63-20-200953	63-2013	04/30/2020	Chlorobenzene	160	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	20	160
TWF63-20-200953	63-2013	04/30/2020	Tetrahydrofuran	100	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	29	100
TWF63-20-200953	63-2013	04/30/2020	Hexane	120	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	27	120
TWF63-20-200953	63-2013	04/30/2020	Cyclohexane	120	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	25	120
TWF63-20-200953	63-2013	04/30/2020	Trichlorobenzene[1,2,4-]	1000	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	210	1000
TWF63-20-200953	63-2013	04/30/2020	Dioxane[1,4-]	500	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	150	500
TWF63-20-200953	63-2013	04/30/2020	Chlorodibromomethane	290	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	50	290
TWF63-20-200953	63-2013	04/30/2020	Tetrachloroethene	230	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	70	230
TWF63-20-200953	63-2013	04/30/2020	n-Heptane	140	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	49	140
TWF63-20-200953	63-2013	04/30/2020	Dichloroethene[cis-1,2-]	130	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	21	130
TWF63-20-200953	63-2013	04/30/2020	Dichloroethene[trans-1,2-]	130	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	40	130
TWF63-20-200953	63-2013	04/30/2020	Methyl tert-Butyl Ether	120	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	19	120
TWF63-20-200953	63-2013	04/30/2020	Isooctane	160	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	28	160
TWF63-20-200953	63-2013	04/30/2020	Dichlorobenzene[1,3-]	200	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	38	200
TWF63-20-200953	63-2013	04/30/2020	Carbon Tetrachloride	210	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	54	210
TWF63-20-200953	63-2013	04/30/2020	Hexanone[2-]	570	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	130	570
TWF63-20-200953	63-2013	04/30/2020	Ethyltoluene[4-]	170	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	24	170
TWF63-20-200953	63-2013	04/30/2020	Ethanol	260	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	120	260
TWF63-20-200953	63-2013	04/30/2020	Propanol[2-]	340	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	93	340
TWF63-20-200953	63-2013	04/30/2020	Acetone	330	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	120	330
TWF63-20-200953	63-2013	04/30/2020	Chloroform	170	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	27	170
TWF63-20-200953	63-2013	04/30/2020	Benzene	110	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	16	110
TWF63-20-200953	63-2013	04/30/2020	Trichloroethane[1,1,1-]	190	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	20	190
TWF63-20-200953	63-2013	04/30/2020	Bromomethane	540	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	150	540
TWF63-20-200953	63-2013	04/30/2020	Chloromethane	290	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	89	290
TWF63-20-200953	63-2013	04/30/2020	Chloroethane	370	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	130	370
TWF63-20-200953	63-2013	04/30/2020	Vinyl Chloride	87	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	31	87
TWF63-20-200953	63-2013	04/30/2020	Methylene Chloride	490	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	180	490
TWF63-20-200953	63-2013	04/30/2020	Carbon Disulfide	440	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	110	440
TWF63-20-200953	63-2013	04/30/2020	Bromoform	350	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	73	350
TWF63-20-200953	63-2013	04/30/2020	Bromodichloromethane	230	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	43	230
TWF63-20-200953	63-2013	04/30/2020	Dichloroethane[1,1-]	140	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	29	140
TWF63-20-200953	63-2013	04/30/2020	Dichloroethene[1,1-]	130	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	27	130
TWF63-20-200953	63-2013	04/30/2020	Trichlorofluoromethane	190	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	26	190
TWF63-20-200953	63-2013	04/30/2020	Dichlorodifluoromethane	170	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	21	170
TWF63-20-200953	63-2013	04/30/2020	Trichloro-1,2,2-trifluoroethane[1,1,2-]	260	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	62	260
TWF63-20-200953	63-2013	04/30/2020	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	240	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	46	240
TWF63-20-200953	63-2013	04/30/2020	Dichloropropane[1,2-]	160	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	44	160
TWF63-20-200953	63-2013	04/30/2020	Butanone[2-]	410	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	100	410
TWF63-20-200953	63-2013	04/30/2020	Trichloroethane[1,1,2-]	190	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	43	190

**TA-63 Transuranic Waste Facility Soil Vapor Monitoring System
Sampling and Analysis - Quarter 11**

Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Validation Qualifier	Detected	Sample Type	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit	Report Detection Limit
TWF63-20-200953	63-2013	04/30/2020	Trichloroethene	180	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	34	180
TWF63-20-200953	63-2013	04/30/2020	Tetrachloroethane[1,1,2,2-]	230	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	32	230
TWF63-20-200953	63-2013	04/30/2020	Hexachlorobutadiene	1500	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	200	1500
TWF63-20-200953	63-2013	04/30/2020	Xylene[1,2-]	33	ug/m3	J	Y	GAS	FB	VOC	EPA:TO15	24	150
TWF63-20-200953	63-2013	04/30/2020	Dichlorobenzene[1,2-]	200	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	44	200
TWF63-20-200953	63-2013	04/30/2020	Trimethylbenzene[1,2,4-]	170	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	18	170
TWF63-20-200953	63-2013	04/30/2020	Isopropylbenzene	170	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	25	170
TWF63-20-200953	63-2013	04/30/2020	Xylene[1,3-]+Xylene[1,4-]	140	ug/m3	J	Y	GAS	FB	VOC	EPA:TO15	30	150

Table 3. Current and Previous
Quarterly Results

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Table 3: Current and Previous Quarter Results

Well	Sample Port Depth (ft)	Analyte/Constituent (as Listed in Permit Tables)	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Quarter 5		Quarter 6		Quarter 7		Quarter 8		Quarter 9		Quarter 10		Quarter 11			
			Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)		
VMW-1 63-2009	5	Trichloroethylene	64.4	0.3	31.1	0.2	48.3	0.2	53.7	0.3	43.5	0.2	36.0	0.2	44.0	0.2	59.1	0.3	40.3	0.2	41.9	0.2	41	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					7.6	<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									
VMW-2 63-2010	5	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	97	0.5		
		Dichlorodifluoromethane	7.9	<0.1													6.4	<0.1					6.9	<0.1		
		Acetone													20.2	<0.1										
		Toluene															6.8	<0.1								
VMW-3 63-2011	5	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	97	0.5		
		Toluene	8.3	<0.1																						
		Acetone							20.9	<0.1					12.3	<0.1										
		Dichlorodifluoromethane															5.9	<0.1								
VMW-4 63-2012	25	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	2800	1.8		
		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			47	<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	102	0.4	93	0.4
		Dichlorodifluoromethane	84	<0.1	74.1	<0.1	84.0	<0.1	84.0	<0.1	69.2	<0.1	79.1	<0.1	84.0	<0.1	59.3	<0.1	74.1	<0.1	74.1	<0.1	74.1	<0.1	79	<0.1
		1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	<0.1	13.0	<0.1										16.1	<0.1	13.0	<0.1					19	<0.1	
		1,1,1-Trichloroethane	7.1	<0.1																				9.3	<0.1	
		Bromodichloromethane															6.6	<0.1								
VMW-4 63-2012	60	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	7500	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	81	<0.1		
		cis-1,2-Dichloroethylene	16.6	<0.1	23.8	<0.1	25.8	<0.1	25.0	<0.1	19.4	<0.1	19.8	<0.1	19.8	<0.1	21.8	<0.1	22.2	<0.1	23.0	<0.1	23	<0.1		
		Carbon tetrachloride	94.3	<0.1	88.0	<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	100	<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	240	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	18	<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	190	<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	<0.1	28.3	<0.1			26.8	<0.1	27.6	<0.1	38	<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 63-2013	25	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	380	0.2		
		Chloroform	35.6	0.2	19.0	<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	41	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	22.9	<0.1	23.4	<0.1	22.4	<0.1	21.8	<0.1	24.5	<0.1	24	<0.1		
		Dichlorodifluoromethane	59.3	<0.1	42.0	<0.1	42.0	<0.1	47.4	<0.1	47.0	<0.1	49.4	<0.1	54.4	<0.1	36.6	<0.1	45.5	<0.1	48.9	<0.1	47	<0.1		
Tetrachloroethylene	6.8	<0.1																								

Table 3: Current and Previous Quarter Results

Well	Sample Port Depth (ft)	Analyte/Constituent (as Listed in Permit Tables)	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Quarter 5		Quarter 6		Quarter 7		Quarter 8		Quarter 9		Quarter 10		Quarter 11	
			Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)
		Acetone							15.0	<0.1					12.3	<0.1								
		Carbon tetrachloride															7.5	<0.1						
VMW-5 63-2013	60	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	1400	1.5
		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	<0.1	22.9	<0.1	22.0	<0.1	21.5	<0.1	26.3	<0.1	21.0	<0.1	23.4	<0.1	23	<0.1
		1,1,1-Trichloroethane	44.7	<0.1	47.4	<0.1	47.4	<0.1	60.0	<0.1	50.2	<0.1	42.0	<0.1	45.3	<0.1	46.9	<0.1	44.7	<0.1	47.4	<0.1	47	<0.1
		Dichlorodifluoromethane	64.2	<0.1	84.0	<0.1	69.2	<0.1	84.0	<0.1	79.0	<0.1	79.0	<0.1	79.0	<0.1	59.3	<0.1	64.2	<0.1	79.1	<0.1	84	<0.1
		1,1,2-Trichloro-1,2,2-trifluoroethane			10.0	<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			19	<0.1
		Acetone	26.1	<0.1													26.1	<0.1						
VMW-5 63-2013 Field Duplicate	25	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-3 63-2011 Field Duplicate	5	Trichloroethylene			45.6	0.2					80.6	0.4												
VMW-4 63-2012 Field Duplicate	25	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										
VWM-4 63-2012 Field Duplicate	60	Trichloroethylene							8593	9.3														
		Tetrachloroethylene							81.3	<0.1														
		cis-1,2-Dichloroethylene							27.0	<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-1	5	Trichloroethylene													59.1	0.3								

Table 3: Current and Previous Quarter Results

Well	Sample Port Depth (ft)	Analyte/Constituent (as Listed in Permit Tables)	Quarter 1		Quarter 2		Quarter 3		Quarter 4		Quarter 5		Quarter 6		Quarter 7		Quarter 8		Quarter 9		Quarter 10		Quarter 11	
			Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)	Result (ug/m ³)	Percentage of SGSL (%)
63-2009 Field Duplicate																								
		Dichlorodifluoromethane													6.9	<0.1								
VMW-5 63-2013 Field Duplicate	60	Trichloroethylene															1560	1.7	1340	1.4	1340	1.4	1500	1.6
		Carbon tetrachloride															18.2	<0.1			17.6	<0.1	19	<0.1
		1,1,1-Trichloroethane															47.4	<0.1	48.5	<0.1	46.3	<0.1	47	<0.1
		Dichlorodifluoromethane															64.2	<0.1	69.2	<0.1	79.1	<0.1	79	<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	29	<0.1
		Methylethylketone (2-butanone)																			162	<0.1		
		1,2,4-Trimethylbenzene																			10.3	<0.1		

Table 4. Statistical Analysis

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Table 4. Statistical Analysis
 TWF Soil Vapor Monitoring
 Trichloroethylene Data Statistics
 Mean and 95% Confidence Range

	VMW-1 (ug/m ³)	VMW-2 (ug/m ³)	VMW-3 (ug/m ³)	VMW-4 25 ft (ug/m ³)	VMW-4 60 ft (ug/m ³)	VMW-5 25 ft (ug/m ³)	VMW-5 60 ft (ug/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	36.0	113	85.9	2900	7520	360	1400
Quarter 7	44.0	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
Mean (M)	46.5	106	80.1	2990	7760	374	1440
Standard Deviation (SD) [n-1]	9.9	16.6	15.6	333	557	57.0	81.2
Lower Limit (95%=M-2xSD)	26.7	72.8	48.9	2324	6646	260	1278
Upper Limit (95%=M+2xSD)	66.3	139	111	3656	8874	488	1602
Lower Limit (99%=M-3xSD)				1990		203	
Upper Limit (99%=M+3xSD)				3990		545	

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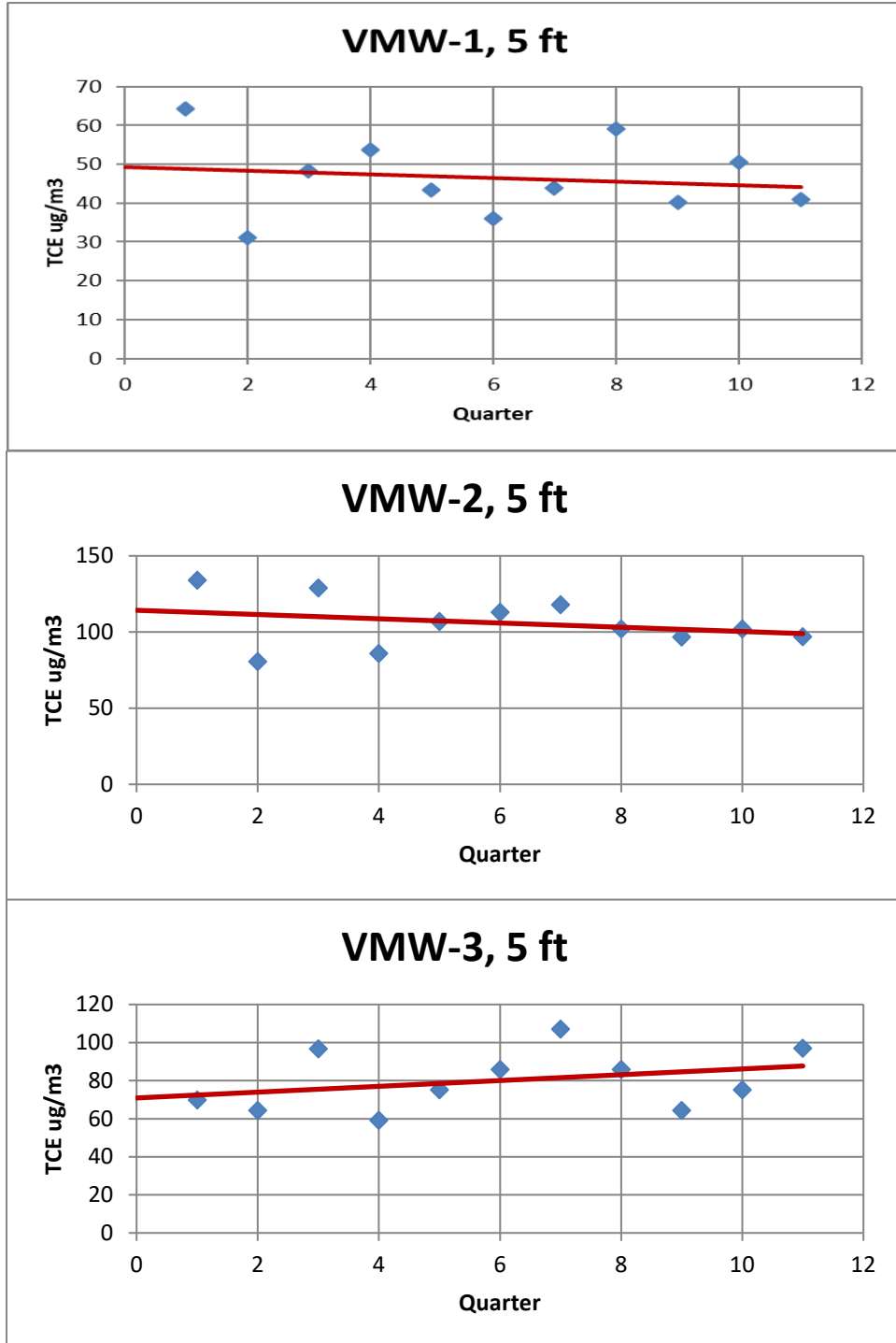


Figure 2. Simple Linear Regression Plots for TA-63 TWF Soil Vapor Monitoring Wells Inside the Permitted Unit

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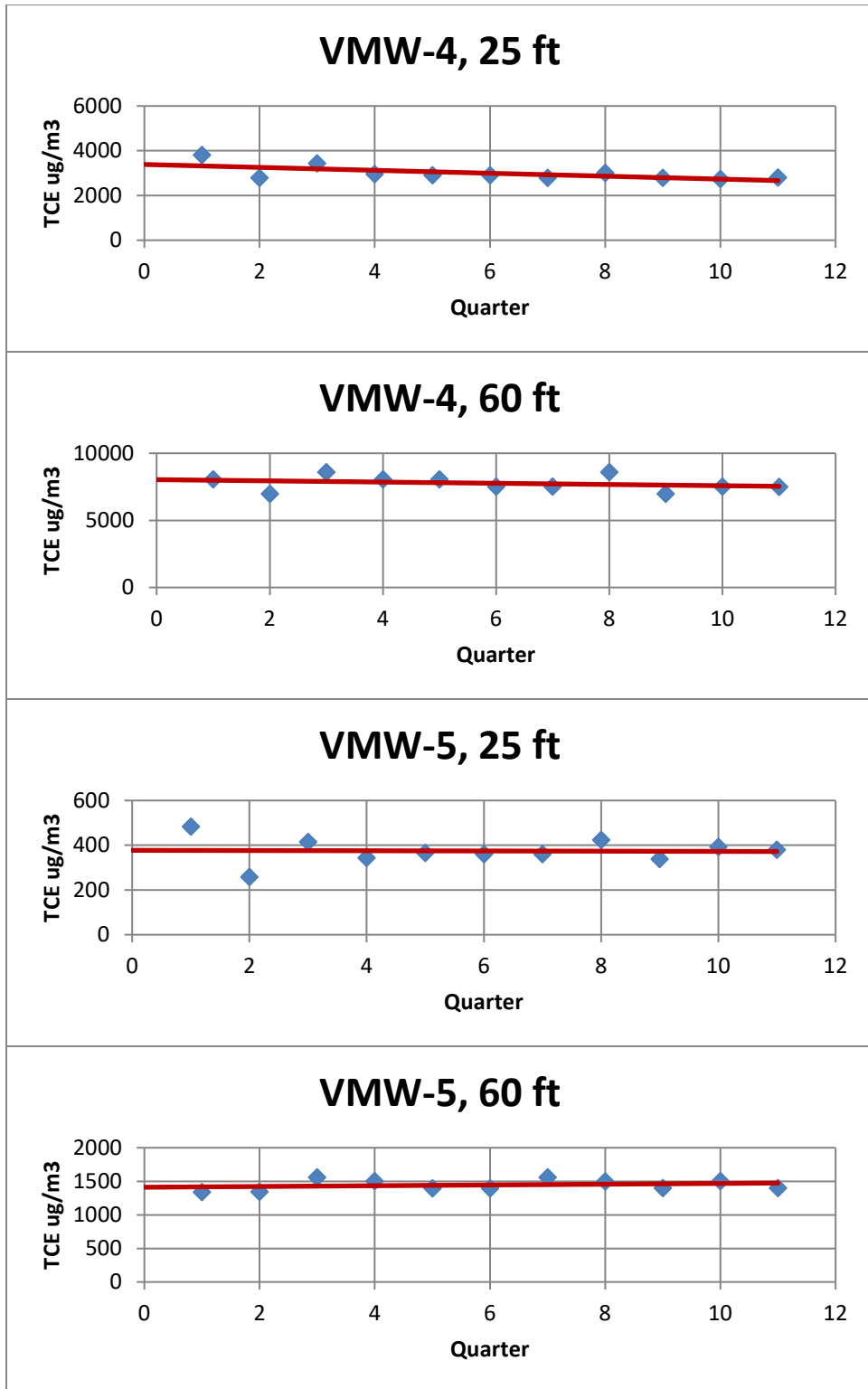


Figure 3. Simple Linear Regression Plots for TA-63 TWF Soil Vapor Monitoring Wells Outside the Permitted Unit

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Sample Collection Logs
TA-63 Transuranic Waste Facility – Quarter 11

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SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200945

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	4/30/20	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1054		MEDIA:	Gas	
PRS ID:	TA-63		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 / <input checked="" type="radio"/> NA

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

SAMPLE COMMENTS: Summa # 00925

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄ = 0 % CO₂ = 9225 ppm O₂ % = 20.3 % VOC = 0 ppm

COLLECTED BY (PRINT): M. Shendo

RELINQUISHED BY (Printed Name) <u>Daniel Sando</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/20</u> <u>1401</u>	RECEIVED BY (Printed Name) <u>[Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/2020</u> <u>1401</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200946

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	04/30/2020	ck	FIELD MATRIX:	GAS	dc
TIME COLLECTED (HH:MM):	1116		MEDIA:	GAS	
PRS ID:	TA-63		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 / <input checked="" type="checkbox"/> NA	

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

SAMPLE COMMENTS: Summa # N2618

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time 1116 HH:MM

CH₄ = 0 % CO₂ 5350 ppm O₂ = 20.8 % VOC = 0 ppm

COLLECTED BY (PRINT): Mr. Shendo

RELINQUISHED BY (Printed Name) <u>Daniel Zoraw</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/20</u> <u>1401</u>	RECEIVED BY (Printed Name) <u>[Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/2020</u> <u>1401</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200947

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	04/20/2020	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1139	ok	MEDIA:	GAS	↓
PRS ID:	TA-63	↓	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
WA	TO15	6 Liter Summa Canister	1	NONE	✓	6 Liter Summa

SAMPLE COMMENTS: Summa #5325

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time 1137 HH:MM

3375

CH₄ = 0 % CO₂ = ~~0.34~~ 3375 ppm O₂ = 20.9 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Shendo

RELINQUISHED BY (Printed Name) <u>Daniel Frank</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/20/20</u> <u>1401</u>	RECEIVED BY (Printed Name) <u>[Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/2020</u> <u>1401</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200948

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04/30/2020	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1224	ok	MEDIA:	Gas	
PRS ID:	TA-63		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
Y	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Summa #30844 Port 1

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = ^{over} 0.00 ppm ppm O₂ = 19.4 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Shendo

RELINQUISHED BY (Printed Name) Daniel Shendo (Signature) <i>[Signature]</i>	Date/Time 4/30/2020 1401	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 4/30/2020 1401
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200949

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	04/30/2020	ck	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1240	ck	MEDIA:	GAS	
PRS ID:	TA-63		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="radio"/> NA	

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

SAMPLE COMMENTS: Summa # 6LQ4 Part 2

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time 1240 HH:MM

CH₄ = 0 % CO₂ = over 10000 ppm O₂ = 19.4 % VOC = 1.0 ppm

COLLECTED BY (PRINT): McShendo

RELINQUISHED BY (Printed Name) <u>Dominic Scrambo</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/2020</u> <u>1401</u>	RECEIVED BY (Printed Name) <u>Melissa [Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/2020</u> <u>1401</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200950

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	4/30/20	OK	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1307		MEDIA:	GAS	
PRS ID:	TA-63		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 / <u>NA</u>	

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

SAMPLE COMMENTS: Summa # 00305

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = ^{avg} 10.00 ppm O₂ = 18.5 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Shendo

RELINQUISHED BY (Printed Name) Daniel Jarama (Signature)	Date/Time 4/30/20 1401	RECEIVED BY (Printed Name) Melissa Lopez (Signature)	Date/Time 4/30/2020 1401
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200951

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04/30/2020	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1322	ok	MEDIA:	GAS	
PRS ID:	TA63		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 / <u>NA</u>

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

SAMPLE COMMENTS: Summa # 102725

LOCATION COMMENTS: FD Summa # 35275

FIELD PARAMETERS:

Sample Time 1322 HH:MM

CH₄ = 0 % CO₂ = over 10:000ppm ppm O₂ = 18.6 % VOC = 0.0 ppm

COLLECTED BY (PRINT): *M. Stando*

RELINQUISHED BY (Printed Name) <i>Daniel Scrate</i> (Signature) <i>[Signature]</i>	Date/Time 4/30/20 1401	RECEIVED BY (Printed Name) <i>Melissa Myer</i> (Signature) <i>[Signature]</i>	Date/Time 4/30/2020 1401
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200952

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04/30/2020	ck	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1323	ck	MEDIA:	Gas	
PRS ID:	TA 63		SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK		FIELD PREP:	NA	
LOCATION TYPE:	BH over 10ft		FIELD QC TYPE:	FD	
TOP DEPTH:	59		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	60		EXCAVATED:		YES / NO / NA

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

SAMPLE COMMENTS: Summa # 35275

LOCATION COMMENTS: QC sample of TWF63-20-200951

FIELD PARAMETERS:

Sample Time 1323 HH:MM

CH₄ = 0 % CO₂ = ^{over} 1000 ppm ppm O₂ = 18.8 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Stando

RELINQUISHED BY (Printed Name) <u>Daniel Stando</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/2020</u> <u>1401</u>	RECEIVED BY (Printed Name) <u>Miss. [Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>4/30/2020</u> <u>1401</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13084

EVENT NAME: FY 2020 - Poregas Sampling - TA-63 - TWF - April

SAMPLE ID: TWF63-20-200953

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	04/30/2020	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1345		MEDIA:	Nitrogen	
PRS ID:	TA-63		SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK		FIELD PREP:	NA	
LOCATION TYPE:	DS 4/30/20 BHOVER 10ft		FIELD QC TYPE:	FB	
TOP DEPTH:	44 ↓		SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	↓	↓	EXCAVATED:	YES / NO / <u>NA</u>	

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

SAMPLE COMMENTS: QC Sample of TWF63-20-200951

LOCATION COMMENTS:

FIELD PARAMETERS:

Summa # 34200

Sample Time _____ HH:MM

COLLECTED BY (PRINT): M. Shardo

RELINQUISHED BY (Printed Name) <i>Daniel Jarama</i> (Signature) <i>[Signature]</i>	Date/Time 4/30/20 1401	RECEIVED BY (Printed Name) <i>McLessa Mugh</i> (Signature) <i>[Signature]</i>	Date/Time 4/30/2020 1401
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Document: TA63 TWF SVM Report-Quarter 11
Date: June, 2020

CERTIFICATION

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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.

JENNIFER
PAYNE (Affiliate)

Digitally signed by JENNIFER
PAYNE (Affiliate)
Date: 2020.06.29 15:19:43
-06'00'

6/29/20

Jennifer E. Payne
Division Leader
Environmental Protection and Compliance Division
Triad National Security, LLC

Date Signed

Karen E.
Armijo

Digitally signed by Karen
E. Armijo
Date: 2020.06.30
13:07:56 -06'00'

6/30/20

Karen E. Armijo
Permitting and Compliance Program Manager
National Nuclear Security Administration
U.S. Department of Energy

Date Signed

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