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MAY 03 2021

Date: EPC-DO-21-135
Symbol: 21-23520
LA-UR: U2100331
Locates Action No.:

Mr. Kevin Pierard, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Technical Area 63 (TA-63) Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14 March 2021, Los Alamos National Laboratory, EPA ID# NM0890010515

Dear Mr. Pierard:

The United States Department of Energy (DOE) National Nuclear Security Administration, Los Alamos Field Office (NA-LA) and Triad National Security, LLC (Triad) submit this report titled *Technical Area 63 (TA-63) Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14 March 2021* to the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit), Section 3.14.3.

The Permit requires that a soil vapor monitoring system for the LANL TA-63 Transuranic Waste Facility (TWF or the Facility) be sampled for designated volatile organic compounds (VOCs) and be evaluated on a quarterly basis after operations at the Facility commence to ensure protection of environmental health and safety including that of onsite workers. This report provides analytical data for the fourteenth quarter (Q14) period following the start of operations in October, 2017; sampling occurred on March 4, 2021. The sampling results indicate that vapor concentrations at the site are consistent with previous events and do not exceed the soil gas screening levels established by the Permit.

NMED-HWB's correspondence dated March 26, 2021 regarding the Quarter 13 Report required that field blank anomalies be discussed in this quarter's report; that discussion is presented in Section V, Additional Discussion.

The attached enclosure (Enclosure 1) includes a discussion of the history and analytical findings for the fourteenth quarter, a figure of the LANL TWF permitted unit that depicts the soil vapor monitoring well locations, a data summary with analytical results for the quarter, a data comparison table, and the sample collection field logs. Specifically, Table 1 is a summary of the analytical results for the fourteenth quarter and includes detected VOCs, detection limits, the appropriate soil gas screening levels from Permit Tables 3.14.3.1 through 3.14.3.3, and a percentage comparison of the detected levels of VOCs with the screening levels. Table 2 lists the analytical results for the Q14 sampling event. Table 3 is a comparison table of the detected VOCs for the fourteen 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 the report and the analytical data in an Excel format is also included to facilitate the review of the monitoring results by the NMED-HWB.

If you have any questions or comments concerning this report, please feel free to contact Karen E. Armijo, NA-LA, at (505) 665-7314, karen.armijo@nnsa.doe.gov or Patrick L. Padilla, Triad, at (505) 412-0462, plpadilla@lanl.gov.

Sincerely,

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

Sincerely,

Karen E.
Armijo

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

JEP/KEA/PLP

Enclosure: 1) Technical Area 63 (TA-63) Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14 March 2021, Los Alamos National Laboratory EPA ID #NM0890010515

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NMED-HWB's correspondence dated March 26, 2021 regarding the Quarter 13 Report required that field blank anomalies be discussed in this quarter's report; that discussion is presented in Section V, Additional Discussion.

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ENCLOSURE 1

**Technical Area 63 (TA-63) Transuranic Waste Facility
Soil Vapor Monitoring System Report
Quarter 14 March 2021
Los Alamos National Laboratory
EPA ID# NM0890010515**

EPC-DO-21-135

LA-UR-21-23520

Unclassified

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Technical Area 63 (TA-63) Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14 March 2021, Los Alamos National Laboratory, EPA ID# NM0890010515

I. Introduction

This report presents the fourteenth quarterly sampling of the soil vapor monitoring system for 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. Permit Part 3, Section 3.14.3 (Subsurface Vapor Monitoring) includes requirements for monitoring subsurface vapors to prevent worker exposure to potentially harmful levels of volatile organic compounds (VOCs) at the TWF. Sampling and analyses for the fourteenth quarter of waste management operations at TWF continue to confirm that soil vapor concentrations at the site are stable and do not exceed the screening levels established by the Permit. This report also presents a statistical analysis of the data as part of an on-going review to determine the need to sample the site on a quarterly basis.

II. TWF Soil Vapor Monitoring Wells

The TWF subsurface vapor monitoring network consists of five soil vapor monitoring wells located 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); MDA C appears to be the source of the soil vapor constituents. Figure 1 (Soil Vapor Monitoring Well Locations at TA-63 TWF) depicts the locations of the five soil vapor monitoring wells that make up the TWF soil vapor monitoring network.

Two of the vapor monitoring wells, VMW-1 (LANL Structure Number 63-2009) and VMW-2 (63-2010), are located close to the TWF storage building foundations and adjacent to the unit boundary that faces MDA C and the utility corridor on Puye Road. A third vapor monitoring well, VMW-3 (63-2011), is located within the permitted unit at a point on the western edge of the unit and close to the utility corridor on Pajarito Road. The sampling ports for these three wells are located at a 5 foot nominal depth below the concrete pad of the TWF permitted storage unit. Two vapor monitoring wells, VMW-4 (63-2012) and VMW-5 (63-2013), are located outside the permitted unit, across Puye Road to the north and closer to MDA C. There are two sampling ports located at depths of 25 and 60 feet below the ground surface (bgs) in both of these vapor monitoring wells.

III. Soil Vapor Sampling

The soil vapor monitoring wells at the TA-63 TWF were sampled for the fourteenth quarter of waste management operations on March 4, 2021. Sampling procedures and VOC analyses of the vapor samples were scheduled and performed in compliance with the conditions contained in the Permit. Analytical results for the samples are compared to the soil gas screening levels (SGSLs) for individual VOC constituents presented in Permit Section 3.14.3.

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 vapor monitoring 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 TO-15 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 (Permit Tables). 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 (Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – Quarter 14). Constituent concentrations for trichloroethylene (TCE) and other VOCs do not exceed the relevant SGSLs contained in the Permit Tables; however, laboratory analyses indicate some results are detected above the report detection limits. Table 1 lists the detected VOCs and includes the calculated percentage of the SGSL as an indicator of the relative constituent concentrations. Each well port depth has an associated SGSL which is listed in the Permit Tables as well as in the SGSL column of Table 1. A complete listing of the full analytical results is included in Table 2 (VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility – Quarter 14).

The detected concentrations of TCE consistently demonstrate the highest VOC concentrations in this sampling event and in previous quarterly sampling events. TCE concentrations are present in all of the five monitoring well locations and in all port depths. The detected concentrations are highest closer to MDA C. The vapor monitoring wells closest to MDA C with the highest TCE concentrations are: VMW-4 (25ft) 2600 ug/m³ (1.7% SGSL), VMW-4 (60ft) 7000 ug/m³ (7.6%), and VMW-5 (60ft) 1300 ug/m³ (1.4% SGSL). The vapor monitoring wells closest to the unit (VMW-1, VMW-2, and VMW-3) demonstrate TCE concentrations at a fraction of a percent of the SGSL between 0.2% to 0.5%.

Chloroform is also routinely observed in soil gas samples collected at the site. As listed in Table 1, chloroform is present at concentrations higher than the report detection limits in soil vapor samples from VMW-4 in both the 25ft and 60ft sampling ports with concentrations of 88 ug/m³ and 200 ug/m³, respectively. The highest percentage of chloroform in vapor monitoring well VMW-4 compared to the Permit SGSL is 0.8%. In addition, vapor monitoring well VMW-5 in both the 25ft and 60ft sampling ports demonstrates the presence of chloroform at 36 ug/m³ and 22 ug/m³, respectively; however, the detections are estimated (J-flagged) and do not exceeded 0.3% of the SGSL listed in the Permit Tables.

The three well locations within the boundary of the TWF permitted unit (VMW-1, VMW-2 and VMW-3) do not indicate additional VOCs, other than TCE, above the report detection limits for this quarter.

The TA-63 TWF soil vapor monitoring wells were originally installed in August 2015. Baseline soil vapor monitoring samples were collected in September 2015 and the results submitted to NMED on October 29, 2015 (LANL, 2015). Reports were submitted with analytical results for the thirteen 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 (Current and Previous Analytical Results for Constituents Listed in Permit Tables) 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 fourteenth 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 above. A discussion of data anomalies and a discussion regarding statistical analysis of the analytical results are presented below.

Data anomalies were reported in the tenth quarter report (LANL, 2020c), when the vapor monitoring well VMW-5 (60ft) field duplicate sample contained detected constituents which were new; these constituents were not detected in the main sample. Those VOCs included: tetrahydrofuran, ethanol, propanol[2-] (isopropyl alcohol), and 2-butanone. The Permit Tables list 2-butanone (methyl ethyl ketone), but do not list the other constituents. As discussed in the notification of additional constituents submitted to NMED (LANL, 2020b), required by Permit Section 3.14.3, there were no previous indications for the detections and there have been no detections since in the VMW-5 (60ft) samples. The presence of these constituents will continue to be monitored.

Ethanol and propanol[2-] (isopropyl alcohol) have been detected below report detection limits (i.e., are estimated or J-qualified results) in other vapor monitoring wells at the site. Neither of these constituents are included with the VOC constituents identified in the Permit Tables as constituents of concern. In quarter twelve (LANL, 2020e), samples collected from vapor monitoring wells VMW-1 and VMW-4 (25ft) contained ethanol and propanol[2-]. In the current (fourteenth) quarter, analytical results for vapor monitoring well VMW-4 (60ft) demonstrated the presence of propanol[2-] at a concentration of 19 ug/m³. These constituents will continue to be evaluated for re-occurrence.

Ethylbenzene and xylene isomers, which are both listed in the Permit Tables, have been detected in the field blank samples from the sixth through the current quarter (LANL, 2019a; LANL, 2019b; LANL, 2019c; LANL, 2020a; LANL, 2020c; LANL, 2020d; LANL, 2020e, 2020f). However, these constituents have not been detected in the samples collected from the soil vapor monitoring wells, only in the field blanks. The analytical results for xylenes and ethylbenzene concentrations are just above the laboratory method detection limits and are J-flagged or estimated results. In correspondence dated March 26, 2021 (NMED, 2021) the NMED-HWB required that “[t]he source of the error must be identified and corrected, or an explanation provided for the anomalies each quarter.” After reaching out to subject matter experts in the sampling office as well as the subcontractor, the consistent presence of xylene[1,3-]+xylene[1,4-], ethylbenzene, and xylene[1,2-] in the field blanks suggests that there is the potential for trace contamination in the ultra high pure nitrogen tank used to collect field blank samples rather than analytical lab contamination or field contamination. During the next round of sampling, the subcontractor will use a new nitrogen tank to see if the nitrogen tank is causing the issue. The results will be presented in the next quarterly report.

Statistical Discussion

The following statistical discussion is included to demonstrate that the sampling data collected for TCE, 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 soil vapor monitoring well and port over the time of facility waste operations are presented in Table 4 (Statistical Analysis) to assist in the determination of whether the concentrations for the TCE 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 fourteen quarters remain 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 in the analytical results from the 25ft sampling ports of VMW-4 and VMW-5. A three standard deviation calculation for those wells demonstrates 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.

Data plots for the wells are included as Figures 2 and 3 to evaluate whether any significant trends regarding constituent concentration changes over quarters are readily discernable. The line plots for the concentrations determined for separate sampling locations are relatively flat and there does not appear to be data relationships between the well results that 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 (by at least one order of magnitude). The TCE concentrations for the quarters collected to this date appear relatively stable. This suggests that any increase in VOC concentrations that would be of concern according to the Permit conditions for reporting would likely occur slowly over time and will be easily identified without approaching the SGSLs.

References

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- LANL, 2017. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 1, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:17-560), December 21, 2017. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL, 2018a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-139) of March 30, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL, 2018b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 3, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-245) of June 28, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL, 2018c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 4, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-349) of September 26, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL, 2018d. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 5, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-448) of December 27, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL, 2019a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 6, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-103) of April 4, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.
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- 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.

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

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

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

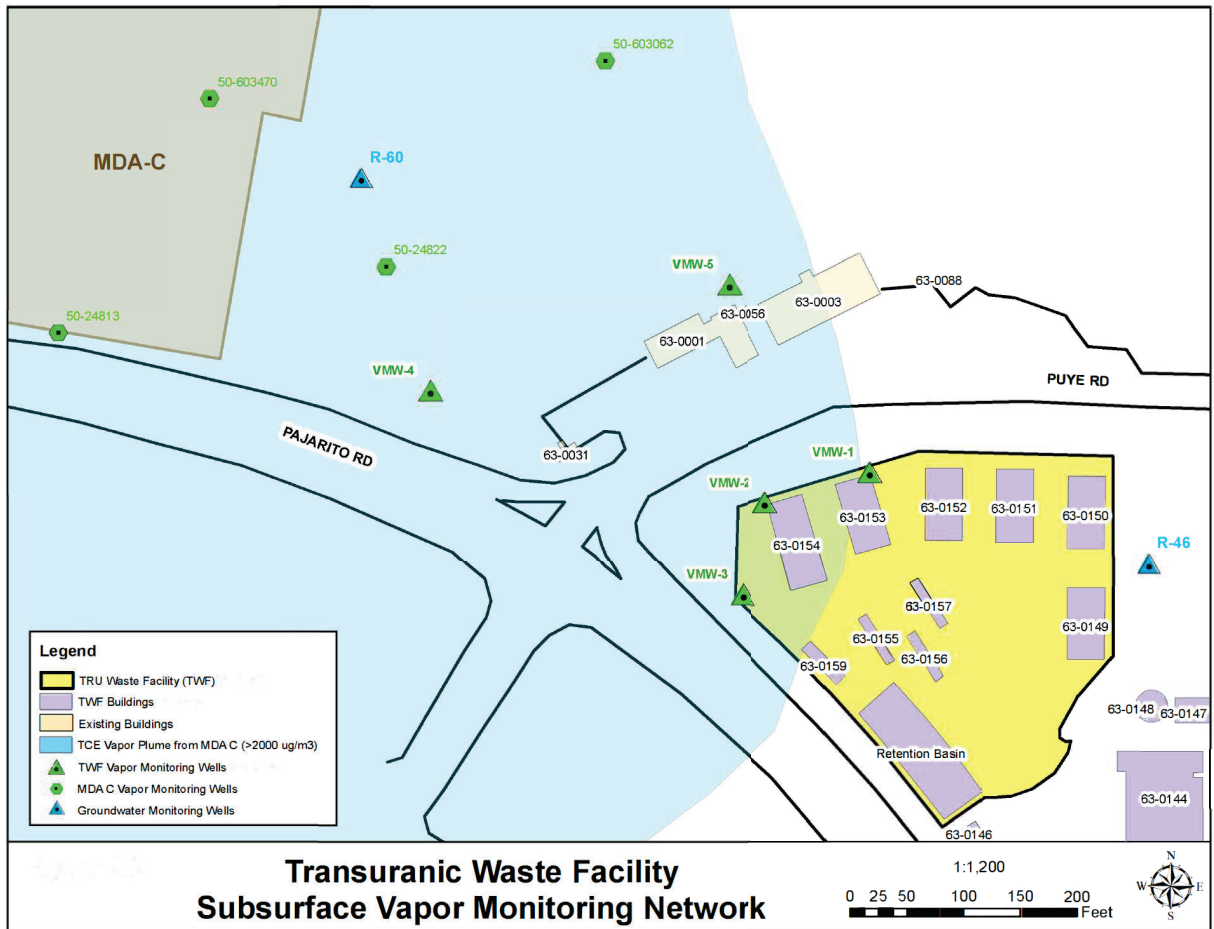
NMED, 2018. Letter: “*Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory EPA ID#NM0890010515, HWB-LANL-18-016*,” dated May 23, 2018. New Mexico Environment Department, Hazardous Waste Bureau, Santa Fe, New Mexico.

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

FIGURES AND TABLES

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Figure 1:
Soil Vapor Monitoring Well Locations at TA-63 TWF



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Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility - Quarter 14

Well ID	Field Sample ID	Port Depth	Sample Purpose	Analyte Name	Analyte Listing in Permit	Report Result (ug/m3)	EPA Data Qualifier	Report Detection Limit (ug/m3)	SGSL (ug/m3)	% SGSL
VMW-1 (63-2009)	TWF63-21-218156	5	REG	Trichloroethene	Trichloroethylene	43	J	97	1.94E+04	0.2
VMW-2 (63-2010)	TWF63-21-218157	5	REG	Trichloroethene	Trichloroethylene	97	NQ	50	1.94E+04	0.5
VMW-3 (63-2011)	TWF63-21-218158	5	REG	Trichloroethene	Trichloroethylene	75	NQ	52	1.94E+04	0.4
VMW-4 (63-2012)	TWF63-21-218159	25	REG	Trichloroethene	Trichloroethylene	2600	NQ	49	1.57E+05	1.7
	TWF63-21-218159	25	REG	Tetrachloroethene	Tetrachloroethylene	35	J	62	2.63E+06	<0.1
	TWF63-21-218159	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	41	J	58	4.42E+04	<0.1
	TWF63-21-218159	25	REG	Chloroform	Chloroform	88	NQ	45	1.08E+04	0.8
	TWF63-21-218159	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	59	NQ	45	2.61E+06	<0.1
VMW-4 (63-2012)	TWF63-21-218160	60	REG	Propanol[2-]	N/A ⁽¹⁾	19	J	91	N/A ⁽¹⁾	N/A ⁽¹⁾
	TWF63-21-218160	60	REG	Trichloroethene	Trichloroethylene	7000	NQ	49	9.27E+04	7.6
	TWF63-21-218160	60	REG	Tetrachloroethene	Tetrachloroethylene	75	NQ	62	2.05E+06	<0.1
	TWF63-21-218160	60	REG	Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	23	J	36	2.91E+06	<0.1
	TWF63-21-218160	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	94	NQ	58	2.13E+05	<0.1
	TWF63-21-218160	60	REG	Chloroform	Chloroform	200	NQ	45	4.44E+04	0.5
	TWF63-21-218160	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	13	J	50	2.34E+08	<0.1
	TWF63-21-218160	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	140	NQ	45	5.38E+06	<0.1
	TWF63-21-218160	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	29	J	70	1.38E+09	<0.1
TWF63-21-218160	60	REG	Trichlorofluoromethane	Trichlorofluoromethane	7.3	J	52	3.01E+07	<0.1	
VMW-5 (63-2013)	TWF63-21-218161	25	REG	Trichloroethene	Trichloroethylene	360	NQ	52	1.57E+05	0.2
	TWF63-21-218161	25	REG	Chloroform	Chloroform	36	J	47	1.08E+04	0.3
	TWF63-21-218161	25	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	18	J	52	1.16E+08	<0.1
	TWF63-21-218161	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	41	J	47	2.61E+06	<0.1
VMW-5 (63-2013)	TWF63-21-218162	60	REG	Trichloroethene	Trichloroethylene	1300	NQ	46	9.27E+04	1.4
	TWF63-21-218162	60	REG	Chloroform	Chloroform	22	J	42	4.44E+04	<0.1
	TWF63-21-218162	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	41	J	47	2.34E+08	<0.1
	TWF63-21-218162	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	64	NQ	43	5.38E+06	<0.1
	TWF63-21-218162	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	16	J	54	2.13E+05	<0.1

Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility - Quarter 14

Well ID	Field Sample ID	Port Depth	Sample Purpose	Analyte Name	Analyte Listing in Permit	Report Result (ug/m3)	EPA Data Qualifier	Report Detection Limit (ug/m3)	SGSL (ug/m3)	% SGSL
Field Duplicate VMW-5 (63-2013)	TWF63-21-218163	60	FD	Trichloroethene	Trichloroethylene	1300	NQ	50	9.27E+04	1.4
	TWF63-21-218163	60	FD	Chloroform	Chloroform	20	J	50	4.44E+04	<0.1
	TWF63-21-218163	60	FD	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	40	J	50	2.34E+08	<0.1
	TWF63-21-218163	60	FD	Dichlorodifluoromethane	Dichlorodifluoromethane	69	NQ	50	5.38E+06	<0.1
	TWF63-21-218163	60	FD	Carbon Tetrachloride	Carbon Tetrachloride	19	J	60	2.13E+05	<0.1
Field Blank	TWF63-21-218164	N/A ⁽²⁾	FB	Xylene[1,3-]+Xylene[1,4-]	p-Xylene + m-Xylene	56	J	78	N/A ⁽²⁾	N/A ⁽²⁾

Notes: EPA Data Qualifier "J" indicates analytes that are detected but results are estimated as less than the report detection limit
 EPA Data Qualifier "NQ" indicates analytes that are detected above the report detection limit with no data qualifiers
 REG = regular sample
 FD = field duplicate
 FB = field blank
 SGSL = Soil Gas Screening Level from Permit Tables 3.14.3.1 through 3.14.3.3
 (1) Propanol[2-] also known as isopropyl alcohol is not listed in Permit Tables
 (2) The field blank of the SUMMA canisters used to collect samples is not compared to SGSLs

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	78	U	12	78	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	77	U	14	77	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	93	U	13	93	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	82	U	13	82	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	82	U	35	82	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	88	U	11	88	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	110	U	20	110	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	140	U	28	140	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	40	U	19	40	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	230	U	28	230	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	73	U	13	73	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	74	U	40	74	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	88	U	9.3	88	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	260	U	31	260	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	150	U	23	150	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	120	U	26	120	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	74	U	20	74	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	71	U	19	71	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	71	U	16	71	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	65	U	23	65	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	180	U	29	180	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	170	U	28	170	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	88	U	19	88	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	57	U	4.8	57	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	98	U	7.6	98	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	280	U	43	280	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	150	U	58	150	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	68	U	9.0	68	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	83	U	8.3	83	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	53	U	26	53	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	63	U	12	63	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	62	U	24	62	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	540	U	330	540	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	84	U	13	84	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	110	U	19	110	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	110	U	18	110	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	300	U	66	300	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	88	U	8.8	88	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	140	U	53	140	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	190	U	29	190	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	46	U	22	46	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	250	U	45	250	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	230	U	19	230	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	190	U	22	190	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	120	U	22	120	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	73	U	13	73	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	71	U	14	71	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	100	U	13	100	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	89	U	25	89	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	140	U	31	140	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	130	U	32	130	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	83	U	26	83	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	220	U	56	220	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	98	U	20	98	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	43	J	21	97	Y
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	120	U	18	120	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	780	U	360	780	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	78	U	10.0	78	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	110	U	25	110	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	88	U	11	88	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	88	U	9.8	88	N
63-2009	5	TWF63-21-218156	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	78	U	15	78	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	38	U	21	38	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	46	U	4.9	46	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	35	U	4.5	35	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	43	U	4.3	43	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	28	U	13	28	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	33	U	6.3	33	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	32	U	12	32	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	270	U	160	270	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	130	U	16	130	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	80	U	12	80	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	64	U	13	64	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	38	U	10	38	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	37	U	9.5	37	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	37	U	7.9	37	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	34	U	12	34	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	44	U	6.5	44	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	56	U	9.6	56	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	59	U	8.8	59	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	150	U	3.3	150	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	46	U	4.4	46	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	70	U	26	70	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	91	U	15	91	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	88	U	15	88	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	46	U	9.8	46	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	30	U	2.5	30	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	51	U	4.0	51	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	140	U	22	140	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	76	U	29	76	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	98	U	15	98	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	24	U	11	24	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	130	U	23	130	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	120	U	9.6	120	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	97	U	11	97	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	63	U	11	63	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	38	U	6.5	38	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	37	U	7.5	37	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	53	U	6.7	53	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	46	U	13	46	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,1,2,2-trifluoroethane[1,1,2-]	72	U	16	72	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	66	U	17	66	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	43	U	13	43	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	110	U	29	110	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	51	U	10	51	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	97	NQ	11	50	Y
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	64	U	8.9	64	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	390	U	180	390	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	41	U	5.2	41	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	56	U	13	56	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	46	U	5.4	46	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	46	U	4.9	46	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	41	U	7.4	41	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	40	U	6.8	40	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	49	U	6.7	49	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	43	U	6.4	43	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	43	U	18	43	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	46	U	5.9	46	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	56	U	11	56	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	72	U	14	72	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	21	U	9.7	21	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	120	U	14	120	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	38	U	6.5	38	N
63-2010	5	TWF63-21-218157	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	41	U	6.1	41	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	140	U	16	140	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	82	U	12	82	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	65	U	14	65	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	39	U	10	39	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	38	U	9.9	38	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	38	U	8.3	38	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	35	U	12	35	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	45	U	6.5	45	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	58	U	10	58	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	60	U	8.8	60	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	160	U	34	160	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	47	U	4.5	47	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	72	U	28	72	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	93	U	15	93	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	90	U	15	90	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	47	U	9.8	47	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	31	U	2.5	31	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	52	U	4.0	52	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	150	U	22	150	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	78	U	29	78	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	100	U	15	100	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	25	U	11	25	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	130	U	23	130	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	120	U	10.0	120	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	99	U	11	99	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	64	U	11	64	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	39	U	6.5	39	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	38	U	7.5	38	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	54	U	7.3	54	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	47	U	13	47	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	74	U	16	74	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	67	U	17	67	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	44	U	14	44	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	110	U	30	110	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	52	U	10	52	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	75	NQ	11	52	Y
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	66	U	9.6	66	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	410	U	190	410	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	42	U	5.2	42	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	58	U	13	58	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	47	U	5.9	47	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	47	U	5.4	47	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	42	U	7.8	42	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	42	U	6.1	42	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	41	U	7.2	41	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	50	U	7.2	50	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	44	U	6.4	44	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	44	U	19	44	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	47	U	5.9	47	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	58	U	11	58	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	74	U	15	74	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	21	U	9.7	21	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	120	U	15	120	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	39	U	6.9	39	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	39	U	21	39	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	47	U	4.9	47	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	36	U	4.5	36	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	44	U	4.4	44	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	28	U	14	28	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	34	U	6.3	34	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	33	U	13	33	N
63-2011	5	TWF63-21-218158	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	280	U	170	280	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	42	U	13	42	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	110	U	28	110	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	50	U	9.8	50	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	2600	NQ	11	49	Y
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	63	U	8.9	63	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	390	U	180	390	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	40	U	5.2	40	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	40	U	6.1	40	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	39	U	6.8	39	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	48	U	6.7	48	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	42	U	6.4	42	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	42	U	18	42	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	45	U	5.9	45	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	130	U	22	130	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	120	U	9.3	120	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	95	U	11	95	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	62	U	11	62	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	37	U	6.1	37	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	36	U	7.1	36	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	52	U	6.7	52	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	59	NQ	13	45	Y
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	70	U	15	70	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	64	U	16	64	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	120	U	14	120	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	37	U	6.5	37	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	38	U	20	38	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	45	U	4.8	45	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	35	U	4.5	35	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	42	U	4.2	42	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	27	U	13	27	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	32	U	6.3	32	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	32	U	12	32	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	270	U	160	270	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	130	U	16	130	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	78	U	12	78	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	35	J	13	62	Y
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	38	U	9.8	38	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	36	U	9.5	36	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	36	U	7.9	36	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	33	U	12	33	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	43	U	6.5	43	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	55	U	9.6	55	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	41	J	8.8	58	Y
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	150	U	33	150	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	45	U	4.3	45	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	70	U	26	70	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	91	U	14	91	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	88	U	15	88	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	88	NQ	9.3	45	Y
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	29	U	2.4	29	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	50	U	3.9	50	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	140	U	21	140	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	76	U	29	76	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	98	U	15	98	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	24	U	11	24	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	55	U	12	55	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	45	U	5.4	45	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	45	U	4.9	45	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	40	U	7.4	40	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	55	U	10	55	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	71	U	14	71	N
63-2012	25	TWF63-21-218159	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	20	U	9.5	20	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	45	U	5.4	45	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	70	U	26	70	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	19	J	14	91	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	88	U	15	88	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	200	NQ	9.3	45	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	29	U	2.4	29	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	13	J	3.9	50	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	20	U	9.5	20	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	120	U	14	120	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	37	U	6.5	37	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	38	U	20	38	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	45	U	4.8	45	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	35	U	4.5	35	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	42	U	4.2	42	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	27	U	13	27	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	32	U	6.3	32	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	32	U	12	32	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	270	U	160	270	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	130	U	16	130	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	78	U	12	78	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	75	NQ	13	62	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	38	U	9.8	38	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	23	J	9.5	36	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	36	U	7.9	36	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	33	U	12	33	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	43	U	6.5	43	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	55	U	9.6	55	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	94	NQ	8.8	58	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	150	U	33	150	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	45	U	4.3	45	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	140	U	21	140	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	76	U	29	76	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	98	U	15	98	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	24	U	11	24	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	130	U	22	130	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	120	U	9.3	120	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	95	U	11	95	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	62	U	11	62	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	37	U	6.1	37	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	36	U	7.1	36	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	7.3	J	6.7	52	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	45	U	4.9	45	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	40	U	7.4	40	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	40	U	6.1	40	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	39	U	6.8	39	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	48	U	6.7	48	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	42	U	6.4	42	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	42	U	18	42	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	45	U	5.9	45	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	55	U	10	55	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	71	U	14	71	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	140	NQ	13	45	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	29	J	15	70	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	64	U	16	64	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	42	U	13	42	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	110	U	28	110	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	50	U	9.8	50	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	7000	NQ	11	49	Y
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	63	U	8.9	63	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	390	U	180	390	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	40	U	5.2	40	N
63-2012	60	TWF63-21-218160	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	55	U	12	55	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	42	U	6.1	42	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	41	U	7.2	41	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	50	U	7.2	50	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	44	U	6.4	44	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	44	U	19	44	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	47	U	5.9	47	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	58	U	11	58	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	74	U	15	74	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	41	J	13	47	Y
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	74	U	16	74	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	67	U	17	67	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	44	U	14	44	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	110	U	30	110	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	52	U	10	52	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	360	NQ	11	52	Y
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	66	U	9.6	66	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	410	U	190	410	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	42	U	5.2	42	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	58	U	13	58	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	47	U	5.9	47	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	35	U	12	35	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	45	U	6.5	45	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	58	U	10	58	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	60	U	8.8	60	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	160	U	34	160	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	47	U	4.5	47	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	38	U	7.5	38	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	54	U	7.3	54	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	39	U	6.5	39	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	47	U	5.4	47	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	42	U	7.8	42	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	90	U	15	90	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	36	J	9.8	47	Y
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	31	U	2.5	31	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	18	J	4.0	52	Y
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	150	U	22	150	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	78	U	29	78	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	100	U	15	100	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	25	U	11	25	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	130	U	23	130	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	120	U	10.0	120	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	99	U	11	99	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	64	U	11	64	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	21	U	9.7	21	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	120	U	15	120	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	39	U	6.9	39	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	39	U	21	39	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	47	U	4.9	47	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	36	U	4.5	36	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	44	U	4.4	44	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	28	U	14	28	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	34	U	6.3	34	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	33	U	13	33	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	280	U	170	280	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	140	U	16	140	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	72	U	28	72	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	93	U	15	93	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	82	U	12	82	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	65	U	14	65	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	39	U	10	39	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	38	U	9.9	38	N
63-2013	25	TWF63-21-218161	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	38	U	8.3	38	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	30	U	5.6	30	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	30	U	11	30	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	250	U	100	250	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	15	120	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	73	U	11	73	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	58	U	12	58	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	35	U	9.0	35	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	19	U	8.8	19	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	110	U	13	110	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	35	U	6.1	35	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	35	U	19	35	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	42	U	4.5	42	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	32	U	4.1	32	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	40	U	4.0	40	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	25	U	12	25	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	34	U	8.7	34	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	34	U	7.5	34	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	31	U	11	31	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	40	U	6.1	40	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	52	U	9.0	52	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	16	J	8.2	54	Y
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	140	U	30	140	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	42	U	4.0	42	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	64	U	24	64	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	84	U	14	84	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	81	U	14	81	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	120	U	20	120	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	110	U	8.7	110	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	89	U	10	89	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	58	U	11	58	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	35	U	5.7	35	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	34	U	6.7	34	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	48	U	6.2	48	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	64	NQ	12	43	Y
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	66	U	15	66	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	37	U	5.6	37	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	37	U	6.4	37	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	44	U	6.2	44	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	39	U	5.9	39	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	39	U	16	39	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	42	U	5.4	42	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	52	U	9.6	52	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	66	U	13	66	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	22	J	8.8	42	Y
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	27	U	2.2	27	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	41	J	3.7	47	Y

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	130	U	20	130	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	70	U	27	70	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	90	U	13	90	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	22	U	10	22	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	60	U	15	60	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	40	U	12	40	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	100	U	26	100	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	47	U	9.3	47	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	1300	NQ	9.7	46	Y
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	59	U	8.2	59	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	360	U	170	360	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	37	U	4.8	37	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	52	U	11	52	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	42	U	4.9	42	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	42	U	4.7	42	N
63-2013	60	TWF63-21-218162	03/04/2021	03/11/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	37	U	6.9	37	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	79-01-6	Trichloroethene	1300	NQ	12	50	Y
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	70	U	9.6	70	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	87-68-3	Hexachlorobutadiene	400	U	200	400	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	95-47-6	Xylene[1,2-]	40	U	5.6	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	95-50-1	Dichlorobenzene[1,2-]	60	U	13	60	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	95-63-6	Trimethylbenzene[1,2,4-]	50	U	5.9	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	98-82-8	Isopropylbenzene	50	U	5.4	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	40	U	7.8	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	100-41-4	Ethylbenzene	40	U	6.5	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	100-42-5	Styrene	40	U	7.2	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	100-44-7	Benzyl Chloride	50	U	7.2	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	10061-01-5	Dichloropropene[cis-1,3-]	50	U	6.8	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	10061-02-6	Dichloropropene[trans-1,3-]	50	U	20	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	103-65-1	Propylbenzene[1-]	50	U	6.4	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	106-46-7	Dichlorobenzene[1,4-]	60	U	11	60	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	106-93-4	Dibromoethane[1,2-]	80	U	15	80	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	106-99-0	Butadiene[1,3-]	20	U	10	20	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	107-05-1	Chloro-1-propene[3-]	100	U	16	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	107-06-2	Dichloroethane[1,2-]	40	U	7.3	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	108-10-1	Methyl-2-pentanone[4-]	40	U	23	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	108-67-8	Trimethylbenzene[1,3,5-]	50	U	5.4	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	108-88-3	Toluene	40	U	4.9	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	108-90-7	Chlorobenzene	50	U	4.6	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	109-99-9	Tetrahydrofuran	30	U	14	30	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	110-54-3	Hexane	40	U	6.7	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	110-82-7	Cyclohexane	30	U	13	30	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	120-82-1	Trichlorobenzene[1,2,4-]	300	U	180	300	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	123-91-1	Dioxane[1,4-]	100	U	17	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	124-48-1	Chlorodibromomethane	90	U	13	90	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	127-18-4	Tetrachloroethene	70	U	14	70	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	142-82-5	n-Heptane	40	U	11	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	156-59-2	Dichloroethene[cis-1,2-]	40	U	10	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	156-60-5	Dichloroethene[trans-1,2-]	40	U	8.7	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	1634-04-4	Methyl tert-Butyl Ether	40	U	13	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	540-84-1	Isooctane	50	U	7.0	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	541-73-1	Dichlorobenzene[1,3-]	60	U	11	60	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	56-23-5	Carbon Tetrachloride	19	J	9.4	60	Y
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	591-78-6	Hexanone[2-]	200	U	36	200	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	622-96-8	Ethyltoluene[4-]	50	U	4.7	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	64-17-5	Ethanol	80	U	30	80	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	67-63-0	Propanol[2-]	100	U	16	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	67-64-1	Acetone	90	U	16	90	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	67-66-3	Chloroform	20	J	10	50	Y
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	71-43-2	Benzene	30	U	2.6	30	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	71-55-6	Trichloroethane[1,1,1-]	40	J	4.3	50	Y
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	74-83-9	Bromomethane	200	U	23	200	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	74-87-3	Chloromethane	80	U	31	80	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-00-3	Chloroethane	100	U	16	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-01-4	Vinyl Chloride	30	U	12	30	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-09-2	Methylene Chloride	100	U	24	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-15-0	Carbon Disulfide	100	U	10	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-25-2	Bromoform	100	U	12	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-27-4	Bromodichloromethane	70	U	12	70	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-34-3	Dichloroethane[1,1-]	40	U	6.9	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-35-4	Dichloroethene[1,1-]	40	U	7.9	40	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-69-4	Trichlorofluoromethane	60	U	7.3	60	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	75-71-8	Dichlorodifluoromethane	69	NQ	14	50	Y
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	80	U	17	80	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	70	U	18	70	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	78-87-5	Dichloropropane[1,2-]	50	U	15	50	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	78-93-3	Butanone[2-]	100	U	30	100	N
63-2013	60	TWF63-21-218163	03/04/2021	03/11/2021	VOC	EPA:TO15	FD	GAS	79-00-5	Trichloroethane[1,1,2-]	50	U	11	50	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	100-41-4	Ethylbenzene	78	U	11	78	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	100-42-5	Styrene	77	U	13	77	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	100-44-7	Benzyl Chloride	93	U	13	93	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	10061-01-5	Dichloropropene[cis-1,3-]	82	U	12	82	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	10061-02-6	Dichloropropene[trans-1,3-]	82	U	34	82	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	103-65-1	Propylbenzene[1-]	88	U	11	88	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	106-46-7	Dichlorobenzene[1,4-]	110	U	20	110	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	106-93-4	Dibromoethane[1,2-]	140	U	27	140	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-69-4	Trichlorofluoromethane	100	U	13	100	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-71-8	Dichlorodifluoromethane	89	U	24	89	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	140	U	30	140	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	130	U	31	130	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	78-87-5	Dichloropropane[1,2-]	83	U	25	83	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	78-93-3	Butanone[2-]	200	U	53	200	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	79-00-5	Trichloroethane[1,1,2-]	98	U	19	98	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	79-01-6	Trichloroethene	97	U	20	97	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	120	U	17	120	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	87-68-3	Hexachlorobutadiene	700	U	340	700	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	95-47-6	Xylene[1,2-]	78	U	9.5	78	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	95-50-1	Dichlorobenzene[1,2-]	110	U	23	110	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	67-64-1	Acetone	200	U	28	200	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	67-66-3	Chloroform	88	U	18	88	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	71-43-2	Benzene	57	U	4.5	57	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	71-55-6	Trichloroethane[1,1,1-]	98	U	7.6	98	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	74-83-9	Bromomethane	300	U	40	300	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	74-87-3	Chloromethane	100	U	54	100	N

Table 2: VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 14

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-00-3	Chloroethane	200	U	30	200	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-01-4	Vinyl Chloride	46	U	21	46	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-09-2	Methylene Chloride	200	U	42	200	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-15-0	Carbon Disulfide	200	U	18	200	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-25-2	Bromoform	190	U	21	190	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-27-4	Bromodichloromethane	120	U	21	120	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	106-99-0	Butadiene[1,3-]	40	U	18	40	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	107-05-1	Chloro-1-propene[3-]	200	U	27	200	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	107-06-2	Dichloroethane[1,2-]	73	U	13	73	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	108-10-1	Methyl-2-pentanone[4-]	74	U	39	74	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	108-67-8	Trimethylbenzene[1,3,5-]	88	U	8.8	88	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	108-88-3	Toluene	68	U	8.7	68	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	108-90-7	Chlorobenzene	83	U	8.3	83	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	109-99-9	Tetrahydrofuran	53	U	25	53	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	110-54-3	Hexane	63	U	12	63	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	110-82-7	Cyclohexane	62	U	23	62	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	120-82-1	Trichlorobenzene[1,2,4-]	500	U	310	500	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	123-91-1	Dioxane[1,4-]	300	U	30	300	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	64-17-5	Ethanol	100	U	51	100	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	67-63-0	Propanol[2-]	200	U	27	200	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	124-48-1	Chlorodibromomethane	150	U	22	150	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	127-18-4	Tetrachloroethene	120	U	24	120	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	142-82-5	n-Heptane	74	U	19	74	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	156-59-2	Dichloroethene[cis-1,2-]	71	U	18	71	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	156-60-5	Dichloroethene[trans-1,2-]	71	U	15	71	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	1634-04-4	Methyl tert-Butyl Ether	65	U	22	65	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	540-84-1	Isooctane	84	U	12	84	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	541-73-1	Dichlorobenzene[1,3-]	110	U	19	110	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	56-23-5	Carbon Tetrachloride	110	U	17	110	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	591-78-6	Hexanone[2-]	300	U	61	300	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	622-96-8	Ethyltoluene[4-]	88	U	8.4	88	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-35-4	Dichloroethene[1,1-]	71	U	14	71	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	75-34-3	Dichloroethane[1,1-]	73	U	12	73	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	95-63-6	Trimethylbenzene[1,2,4-]	88	U	10	88	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	98-82-8	Isopropylbenzene	88	U	9.8	88	N
63-2013		TWF63-21-218164	03/04/2021	03/11/2021	VOC	EPA:TO15	FB	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	56	J	14	78	Y

Notes: Rows in Bold font indicate the analyte is detected
 FD= Field Duplicate
 FB = Field Blank
 U = Non-detect
 J = estimated value
 NQ = no data qualifiers

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

Well ID (Port(ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9	
		Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)
VMW-1 (5) 63-2009	Trichloroethylene	64.4	0.3	31.1	0.2	48.3	0.2	53.7	0.3	43.5	0.2	36	0.2	44	0.2	59.1	0.3	40.3	0.2
	Toluene	12.4	<0.1																
	Tetrachloroethylene	11.5	<0.1																
	cis-1,2-Dichloroethylene	11.5	<0.1																
	Acetone	16.1	<0.1																
	1,1,1-Trichloroethane	142	<0.1			8.2	<0.1									8.7	<0.1		
	1,1-Dichloroethane	33.6	<0.1																
	1,1-Dichloroethylene	10.3	<0.1																
	Dichlorodifluoromethane	6.9	<0.1																
	Methylene chloride							13.2	<0.1										
Chloroform															5.9	<0.1			
VMW-2 (5) 63-2010	Trichloroethylene	134	0.7	80.6	0.4	129	0.7	85.9	0.4	107	0.6	113	0.6	118	0.6	102	0.5	96.7	0.5
	Dichlorodifluoromethane	7.9	<0.1													6.4	<0.1		
	Acetone												20.2	<0.1					
	1,1,1-Trichloroethane																		
	Toluene															6.8	<0.1		
VMW-3 (5) 63-2011	Trichloroethylene	69.8	0.4	64.4	0.3	96.7	0.5	59.1	0.3	75.2	0.4	85.9	0.4	107	0.6	85.9	0.4	64.4	0.3
	Toluene	8.3	<0.1																
	Acetone							20.9	<0.1						12.3	<0.1			
	Dichlorodifluoromethane															5.9	<0.1		
VMW-4 (25) 63-2012	Trichloroethylene	3810	2.4	2793	1.8	3437	2.2	2954	1.9	2900	1.8	2900	1.8	2790	1.8	3010	1.9	2790	1.8
	Tetrachloroethylene	49.5	<0.1	34.6	<0.1	34.6	<0.1	36.6	<0.1	43.4	<0.1	39.3	<0.1	34.6	<0.1			35.9	<0.1
	Carbon tetrachloride	49.7	<0.1	35.2	<0.1	48.4	<0.1	41.5	<0.1	35.2	<0.1	46.5	<0.1	42.1	<0.1	50.9	<0.1	41.5	<0.1
	Chloroform	112	0.5	87.8	0.2	107	0.5	107	0.5	102	0.4	92.7	0.4	97.6	0.4	97.6	0.4	102	0.4
	Dichlorodifluoromethane	84	<0.1	74.1	<0.1	84	<0.1	84	<0.1	69.2	<0.1	79.1	<0.1	84	<0.1	59.3	<0.1	74.1	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	<0.1	13	<0.1									16.1	<0.1	13	<0.1		
	1,1,1-Trichloroethane	7.1	<0.1																
	Bromodichloromethane															6.6	<0.1		
VMW-4 (60) 63-2012	Trichloroethylene	8060	8.7	6980	7.5	8590	9.3	8060	8.7	8060	8.7	7520	8.1	7520	8.1	8590	9.3	6980	7.5
	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
	cis-1,2-Dichloroethylene	16.6	<0.1	23.8	<0.1	25.8	<0.1	25	<0.1	19.4	<0.1	19.8	<0.1	19.8	<0.1	21.8	<0.1	22.2	<0.1
	Carbon tetrachloride	94.3	<0.1	88	<0.1	113	<0.1	107	<0.1	107	<0.1	113	<0.1	101	<0.1	107	<0.1	101	<0.1
	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
	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
	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
	1,1,2-Trichloro-1,2,2-trifluoroethane	25.3	<0.1	28.3	<0.1	29.9	<0.1	32.2	<0.1	36.8	<0.1	26	<0.1	28.3	<0.1			26.8	<0.1
	Toluene	7.6	<0.1																
	Acetone	16.1	<0.1																
Trichlorofluoromethane	6.2	<0.1			6.7	<0.1													
VMW-5 (25) 63-2013	Trichloroethylene	483	0.3	258	0.2	414	0.3	344	0.2	365	0.2	360	0.2	360	0.2	424	0.3	338	0.2
	Chloroform	35.6	0.2	19	<0.1	26.3	0.1	32.2	<0.1	32.2	0.1	28.8	0.1	32.2	0.1	30.3	0.1	36.6	<0.1
	1,1,1-Trichloroethane	30.5	<0.1	19.6	<0.1	20.2	<0.1	27.8	<0.1	22.9	<0.1			23.4	<0.1	22.4	<0.1	21.8	<0.1
	Dichlorodifluoromethane	59.3	<0.1	42	<0.1	42	<0.1	47.4	<0.1	47	<0.1	49.4	<0.1	54.4	<0.1	36.6	<0.1	45.5	<0.1
	Tetrachloroethylene	6.8	<0.1																
	Acetone							15	<0.1					12.3	<0.1				
Carbon tetrachloride															7.5	<0.1			

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

Well ID (Port(ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		
		Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	
VMW-5 (60) 63-2013	Trichloroethylene	1340	1.4	1343	1.4	1557	1.7	1504	1.6	1396	1.5	1400	1.5	1560	1.7	1500	1.6	1400	1.5	
	Tetrachloroethylene	16.9	<0.1	12.9	<0.1	15.6	<0.1					10.2	<0.1	12.9	<0.1					
	Chloroform	15.6	<0.1	18.1	<0.1	22.9	<0.1	19	<0.1	22.9	<0.1	22	<0.1	21.5	<0.1	26.3	<0.1	21	<0.1	
	1,1,1-Trichloroethane	44.7	<0.1	47.4	<0.1	47.4	<0.1	60	<0.1	50.2	<0.1	42	<0.1	45.3	<0.1	46.9	<0.1	44.7	<0.1	
	Dichlorodifluoromethane	64.2	<0.1	84	<0.1	69.2	<0.1	84	<0.1	79	<0.1	79	<0.1	79	<0.1	59.3	<0.1	64.2	<0.1	
	1,1,2-Trichloro-1,2,2-trifluoroethane			10	<0.1	19.9	<0.1							15.3	<0.1	14.6	<0.1			
	Toluene	10.5	<0.1																	
	Carbon tetrachloride	13.2	<0.1			10.7	<0.1								18.2	<0.1	21.4	<0.1	20.1	<0.1
	Acetone	26.1	<0.1													26.1	<0.1			
Field Duplicates:																				
VMW-1 (5) 63-2009(FD)	Trichloroethylene													59.1	0.3					
	Dichlorodifluoromethane													6.9	<0.1					
VMW-3 63-2011(FD)	Trichloroethylene		45.6	0.2					80.6	0.4										
VMW-4 (25) 63-2012(FD)	Trichloroethylene					3276	2.1					2790	1.8							
	Tetrachloroethylene					32.5	<0.1					34.6	<0.1							
	Carbon tetrachloride					56.6	<0.1					49.7	<0.1							
	Chloroform					112	0.5					97.6	0.4							
	1,1,1-Trichloroethane					12.5	<0.1													
	Dichlorofluoromethane					74.1	<0.1					79.1	<0.1							
VWM-4 (60) 23-2012(FD)	Trichloroethylene							8593	9.3											
	Tetrachloroethylene							81.3	<0.1											
	cis-1,2-Dichloroethylene							27	<0.1											
	Carbon tetrachloride							113	<0.1											
	Chloroform							249	0.6											
	Dichlorodifluoromethane							188	<0.1											
1,1,2-Trichloro-1,2,2-trifluoroethane							32.2	<0.1												
VMW-5 (25) 63-2013(FD)	Trichloroethylene	451	0.3																	
	Tetrachloroethylene	8.8	<0.1																	
	Chloroform	30.7	0.1																	
	1,1,1-Trichloroethane	32.7	<0.1																	
	Dichlorodifluoromethane	59.3	<0.1																	
VMW-5 (60) 63-2012(FD)	Trichloroethylene															1560	1.7	1340	1.4	
	Carbon tetrachloride															18.2	<0.1			
	1,1,1-Trichloroethane															47.4	<0.1	48.5	<0.1	
	Dichlorodifluoromethane															64.2	<0.1	69.2	<0.1	
	1,1,2-Trichloro-1,2,2-trifluoroethane															15.3	<0.1	17.6	<0.1	
	Chloroform																	20.5	<0.1	
Methylethylketone (2-butanone)																				
1,2,4-Trimethylbenzene																				

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

Well ID (Port(ft))	Constituent	Q10		Q11		Q12		Q13		Q14	
		Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)
VMW-1 (5) 63-2009	Trichloroethylene	41.9	0.2	41	0.2	59	0.3	44	0.2	43	0.2
	Toluene										
	Tetrachloroethylene										
	cis-1,2-Dichloroethylene										
	Acetone										
	1,1,1-Trichloroethane			7.6	<0.1	6	<0.1				
	1,1-Dichloroethane										
	1,1-Dichloroethylene										
	Dichlorodifluoromethane					6.9	<0.1				
	Methylene chloride										
Chloroform											
VMW-2 (5) 63-2010	Trichloroethylene	102	0.5	97	0.5	86	0.4	130	0.7	97	0.5
	Dichlorodifluoromethane			6.9	<0.1	5.9	<0.1	5.9	<0.1		
	Acetone										
	1,1,1-Trichloroethane							5.1	<0.1		
VMW-3 (5) 63-2011	Toluene										
	Acetone										
	Dichlorodifluoromethane							7.9	<0.1		
	Trichloroethylene	75.2	0.4	97	0.5	75	0.4	86	0.4	75	0.4
VMW-4 (25) 63-2012	Toluene										
	Trichloroethylene	2740	1.7	2800	1.8	2600	1.7	2600	1.7	2600	1.7
	Tetrachloroethylene					40	<0.1	40	<0.1	35	<0.1
	Carbon tetrachloride			47	<0.1	39	<0.1	43	<0.1	41	<0.1
	Chloroform	102	0.4	93	0.4	88	0.4	83	0.5	88	0.8
	Dichlorodifluoromethane	74.1	<0.1	79	<0.1	59	<0.1	64	<0.1	59	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane			19	<0.1						
	1,1,1-Trichloroethane			9.3	<0.1	5.5	<0.1				
Bromodichloromethane											
VMW-4 (60) 63-2012	Trichloroethylene	7520	8.1	7500	8.1	7500	8.1	7500	8.1	7000	7.6
	Tetrachloroethylene	74.6	<0.1	81	<0.1	81	<0.1	75	<0.1	75	<0.1
	cis-1,2-Dichloroethylene	23	<0.1	23	<0.1	22	<0.1	21	<0.1	23	<0.1
	Carbon tetrachloride	107	<0.1	100	<0.1	100	<0.1	110	<0.1	94	<0.1
	Chloroform	224	0.5	240	0.5	200	0.5	200	0.4	200	0.5
	1,1,1-Trichloroethane	15.9	<0.1	18	<0.1	13	<0.1	15	<0.1	13	<0.1
	Dichlorodifluoromethane	173	<0.1	190	<0.1	160	<0.1	160	<0.1	140	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	27.6	<0.1	38	<0.1	24	<0.1	34	<0.1	29	<0.1
	Toluene										
	Acetone										
	Trichlorofluoromethane	10.7	<0.1							7.3	<0.1
VMW-5 (25) 63-2013	Trichloroethylene	392	0.2	380	0.2	390	0.2	400	0.3	360	0.2
	Chloroform	41.5	0.2	41	0.2	40	0.2	35	0.2	36	0.3
	1,1,1-Trichloroethane	24.5	<0.1	24	<0.1	19	<0.1	19	<0.1	18	<0.1
	Dichlorodifluoromethane	48.9	<0.1	47	<0.1	37	<0.1	47	<0.1	41	<0.1
	Tetrachloroethylene										
	Acetone										
Carbon tetrachloride											

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

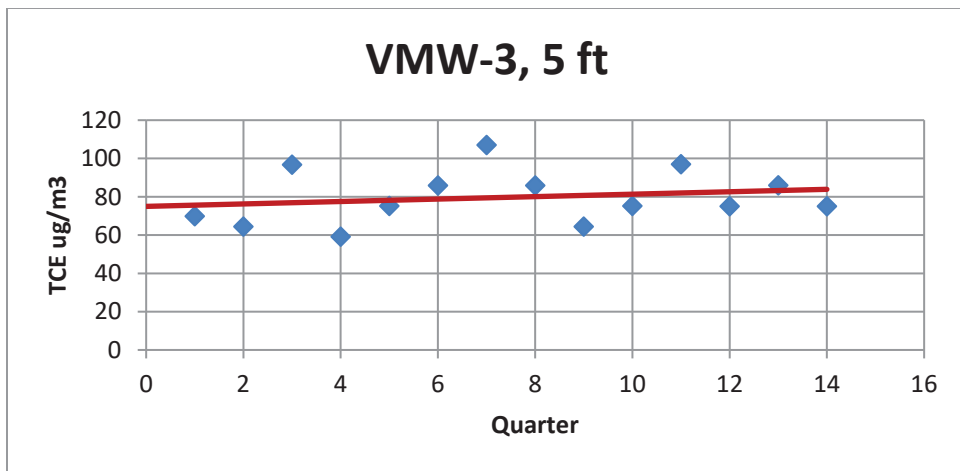
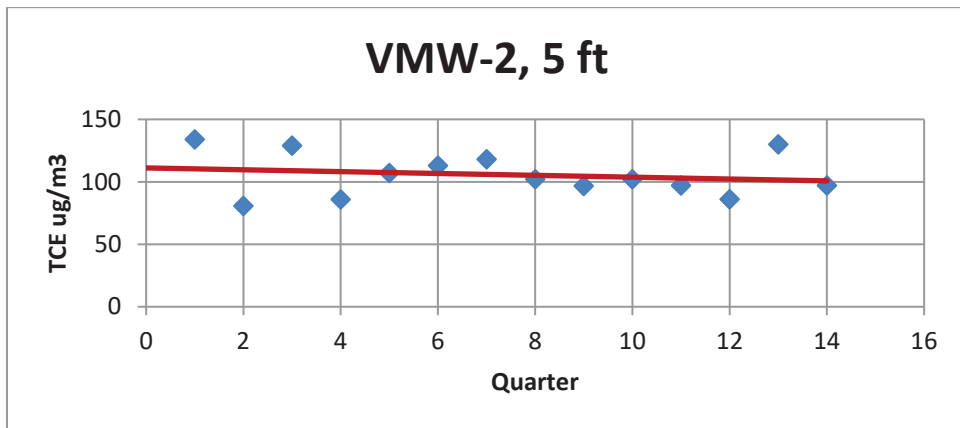
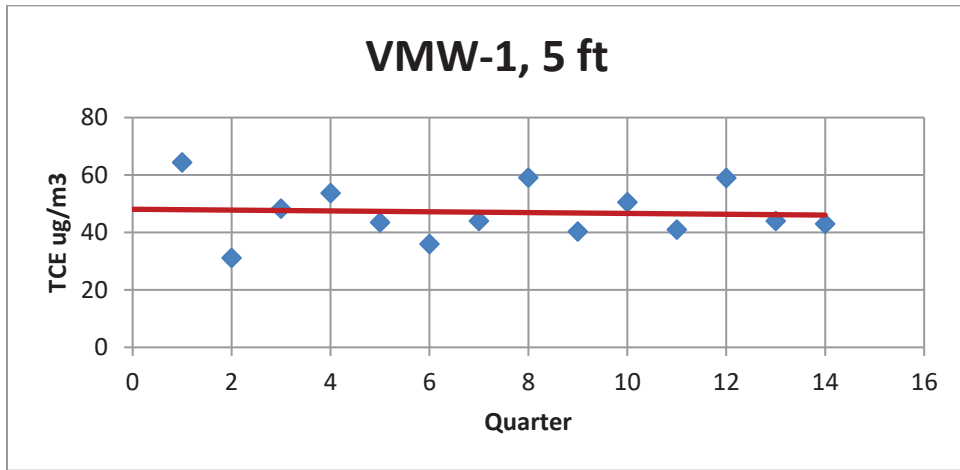
Well ID (Port(ft))	Constituent	Q10		Q11		Q12		Q13		Q14	
		Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)
VMW-5 (60) 63-2013	Trichloroethylene	1503	1.6	1400	1.5	1400	1.5	1300	1.4	1300	1.4
	Tetrachloroethylene										
	Chloroform	23.4	<0.1	23	<0.1	20	<0.1	19	<0.1	20	<0.1
	1,1,1-Trichloroethane	47.4	<0.1	47	<0.1	40	<0.1	33	<0.1	40	<0.1
	Dichlorodifluoromethane	79.1	<0.1	84	<0.1	69	<0.1	74	<0.1	69	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	18.4	<0.1			17	<0.1				
	Toluene										
	Carbon tetrachloride			19	<0.1	18	<0.1	18	<0.1	19	<0.1
Acetone											
Field Duplicates:											
VMW-1 (5) 63-2009(FD)	Trichloroethylene										
	Dichlorodifluoromethane										
VMW-3 63-2011(FD)	Trichloroethylene										
VMW-4 (25) 63-2012(FD)	Trichloroethylene										
	Tetrachloroethylene										
	Carbon tetrachloride										
	Chloroform										
	1,1,1-Trichloroethane										
	Dichlorodifluoromethane										
VMW-4 (60) 23-2012(FD)	Trichloroethylene										
	Tetrachloroethylene										
	cis-1,2-Dichloroethylene										
	Carbon tetrachloride										
	Chloroform										
	Dichlorodifluoromethane										
	1,1,2-Trichloro-1,2,2-trifluoroethane										
VMW-5 (25) 63-2013(FD)	Trichloroethylene										
	Tetrachloroethylene										
	Chloroform										
	1,1,1-Trichloroethane										
	Dichlorodifluoromethane										
VMW-5 (60) 63-2012(FD)	Trichloroethylene	1340	1.4	1500	1.6	1400	1.5	1400	1.5	1300	1.4
	Carbon tetrachloride	17.6	<0.1	19	<0.1	19	<0.1	22	<0.1	19	<0.1
	1,1,1-Trichloroethane	46.3	<0.1	47	<0.1	38	<0.1	47	<0.1	40	<0.1
	Dichlorodifluoromethane	79.1	<0.1	79	<0.1	69	<0.1	74	<0.1	69	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane							18	<0.1		
	Chloroform	19.5	<0.1	29	<0.1	24	<0.1	22	<0.1	20	<0.1
	Methylethylketone (2-butanone)	162	<0.1								
	1,2,4-Trimethylbenzene	10.3	<0.1								

Table 4: Statistical Analysis

	VMW-1 5ft (ug/m3)	VMW-2 5ft (ug/m3)	VMW-3 5ft (ug/m3)	VMW-4 25ft (ug/m3)	VMW-4 60ft (ug/m3)	VMW-5 25ft (ug/m3)	VMW-5 60ft (ug/m3)
Quarter 1	64.4	134	69.8	3810	8060	483	1340
Quarter 2	31.1	80.6	64.4	2793	6982	258	1343
Quarter 3	48.3	129	96.7	3437	8593	414	1557
Quarter 4	53.7	85.9	59.1	2954	8056	344	1504
Quarter 5	43.5	107	75.2	2900	8056	365	1396
Quarter 6	36	113	85.9	2900	7520	360	1400
Quarter 7	44	118	107	2790	7520	360	1560
Quarter 8	59.1	102	85.9	3010	8590	424	1500
Quarter 9	40.3	96.7	64.4	2790	6980	338	1400
Quarter 10	41.9	102	75.2	2740	7520	392	1500
Quarter 11	41	97	97	2800	7500	380	1400
Quarter 12	59	86	75	2600	7500	390	1400
Quarter 13	44	130	86	2600	7500	400	1300
Quarter 14	43	97	75	2600	7000	360	1300
Mean (M)							
	46.4	105.6	79.8	2908.9	7669.8	376.3	1421.4
Standard Deviation (SD)[n-1]							
	9.5	17.1	13.9	336.5	533.6	50.8	88.4
Lower Limit (95%=M-2xSD)							
	27.5	71.3	51.9	2235.9	6602.7	274.7	1244.7
Upper Limit (95%=M+2xSD)							
	65.3	139.8	107.6	3581.8	8736.9	477.8	1598.2
Lower Limit (99%=M-3xSD)							
				1899.5		223.9	
Upper Limit (99%=M+3xSD)							
				3918.2		528.6	

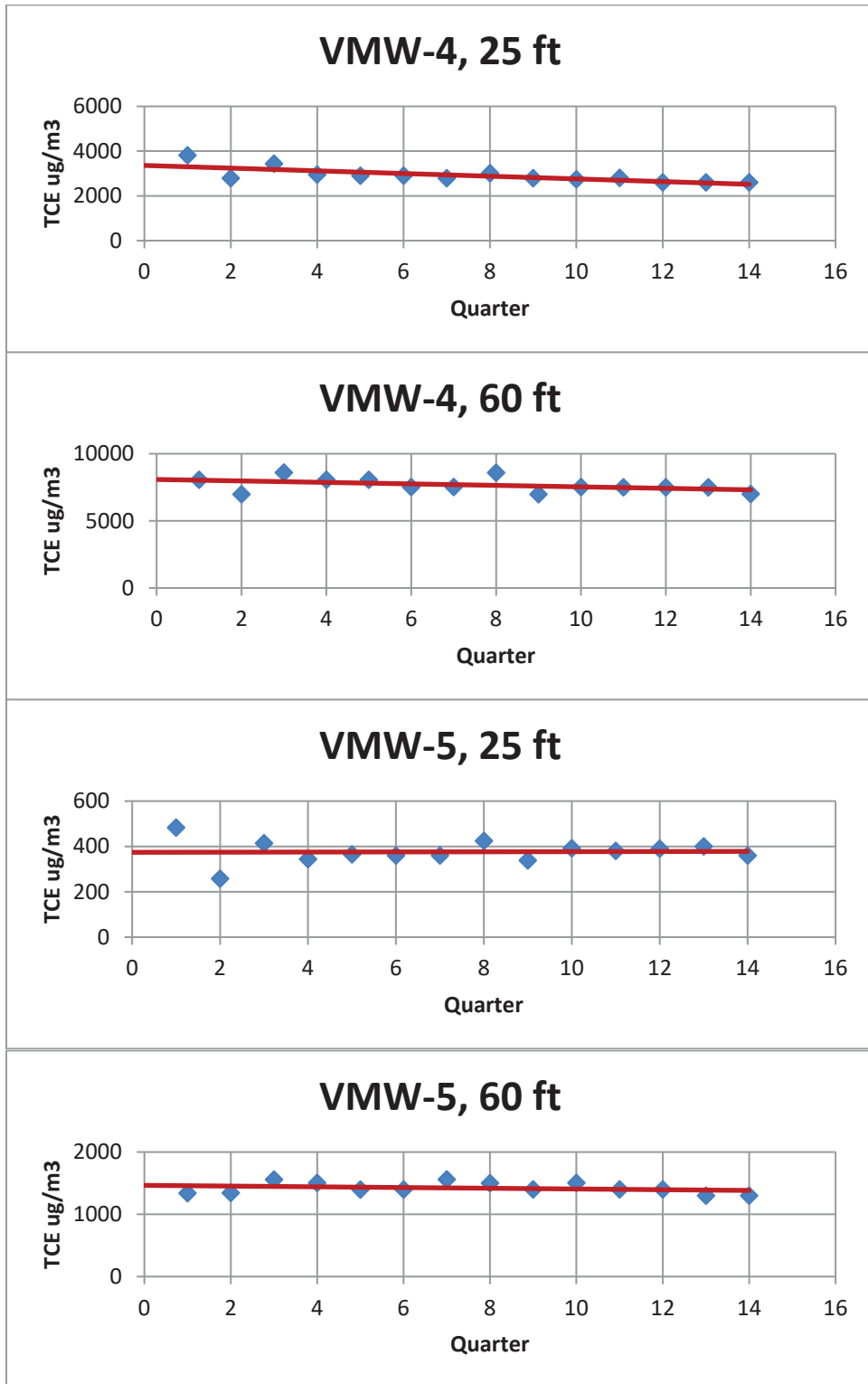
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Figure 2:
Data Plots for TA-63 TWF Soil Vapor Monitoring Wells Inside the Permitted Unit



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Figure 3:
Data 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 14

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SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218156

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	ck	03/04/2021	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	↓	942	MEDIA:	BH	↓
PRS ID:	↓	ck	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	63-2009	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	AMS	↓	FIELD QC TYPE:	REG	↓
TOP DEPTH:	6.5 ft	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	7.5 ft	↓	EXCAVATED:		YES / NO <u>NA</u>

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

SAMPLE COMMENTS: Port - 1

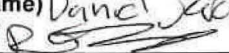

LOCATION COMMENTS: VMW-1 Summa #1 03946

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄ = 0% CO₂ = 8200 ppm O₂ = 20.6% VOC = 0 ppm

COLLECTED BY (PRINT): M. Stendo K. Reid

RELINQUISHED BY (Printed Name) Daniel Jaramb (Signature) 	Date/Time 3/4/21 1305	RECEIVED BY (Printed Name) Melissa (Signature) 	Date/Time 3/4/21 1305
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218157

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	ok	03/04/21	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	↓	1004	MEDIA:	BH	↓
PRS ID:	↓	ok	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	63-2010	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	AMS	↓	FIELD QC TYPE:	REG	↓
TOP DEPTH:	6.5 ft	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	7.5 ft	↓	EXCAVATED:	YES / NO / NA	

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

SAMPLE COMMENTS:

Port 1

LOCATION COMMENTS:

VMW-2 Summa # 35165

FIELD PARAMETERS:

Sample Time NT HH:MM

CH₄ = 0% CO₂ = 4600 ppm O₂ = 20.9% VOL = 0.0 ppm

COLLECTED BY (PRINT): M. Shando, K Reid

RELINQUISHED BY (Printed Name) Daniel Jaramba (Signature)	Date/Time 3/4/21 1305	RECEIVED BY (Printed Name) Melissa Nye (Signature)	Date/Time 3/4/21 1305
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218158

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	ck	03/04/2021	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	↓	1026	MEDIA:	BH	↓
PRS ID:	↓	ck	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	63-2011	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	AMS	↓	FIELD QC TYPE:	REG	↓
TOP DEPTH:	6.5 ft	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	7.5 ft	↓	EXCAVATED:	YES / NO <i>ICMA</i>	

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

SAMPLE COMMENTS: Part 1

LOCATION COMMENTS: VMW-3 Summa # 22504

FIELD PARAMETERS:

Sample Time 10 HH:MM

CH₄ = 0% CO₂ = 3400 ppm O₂ = 20.9 % VOC = 0.0 ppm

COLLECTED BY (PRINT): *m. Standa, K. Reid*

RELINQUISHED BY (Printed Name) (Signature) <i>Daniel Scrumb</i>	Date/Time 3/4/21 1305	RECEIVED BY (Printed Name) (Signature) <i>Melissa Ruff</i>	Date/Time 3/4/21 1305
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218159

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	OK	03/04/2021	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	↓	11 22	MEDIA:	BH	↓
PRS ID:	↓	↓	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	63-2012	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	AMS	↓	FIELD QC TYPE:	REG	↓
TOP DEPTH:	24 ft	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	25 ft	↓	EXCAVATED:		YES / NO <i>NA</i>

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

SAMPLE COMMENTS: *Port - 1*

LOCATION COMMENTS: *VMW-4 summa # 34423*

FIELD PARAMETERS:

Sample Time *~* HH:MM

CH₄ = 0% CO₂ = 10.800 ppm O₂ = 20.5% VOC = 0.5 ppm

COLLECTED BY (PRINT): *M. Sando K. Reid*

RELINQUISHED BY (Printed Name) <i>David Jurabo</i> (Signature) <i>[Signature]</i>	Date/Time <i>3/4/21</i> <i>1305</i>	RECEIVED BY (Printed Name) <i>Alexis [Signature]</i> (Signature) <i>[Signature]</i>	Date/Time <i>3/4/21</i> <i>1315</i>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492 **EVENT NAME:** FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218160

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	OK	03/04/2021	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	↓	1138	MEDIA:	BH	↓
PRS ID:	↓	↓	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	63-2012	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	AMS	↓	FIELD QC TYPE:	REG	↓
TOP DEPTH:	59 ft	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	60 ft	↓	EXCAVATED:		YES / NO / <u>NA</u>

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

SAMPLE COMMENTS: Port-2

LOCATION COMMENTS: VMW-4 summa # 33927

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄ = 0% CO₂ = 16000 ppm O₂ = 14.4% VOC = 2.5 ppm

COLLECTED BY (PRINT): D. Jaramb M. Stend, K Reid

RELINQUISHED BY (Printed Name) <u>Daniel Jaramb</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1305</u>	RECEIVED BY (Printed Name) <u>Alexis [Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1305</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218161

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	ck	03/04/2021	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	↓	1203	MEDIA:	BH	↓
PRS ID:	↓	OK	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	63-2013	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	AMS	↓	FIELD QC TYPE:	REG	↓
TOP DEPTH:	24 ft	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	25 ft	↓	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: Port 1

LOCATION COMMENTS: VMW-5 summat 34216

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄ = 0% CO₂ = 30,400 ppm O₂ = 18.7 % VOC = 0.0 ppm

COLLECTED BY (PRINT): m. stendo K. Reid

RELINQUISHED BY (Printed Name) <u>Daniel Jaramila</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1305</u>	RECEIVED BY (Printed Name) <u>Melissa [Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1305</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218162

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	ok	03/04 ²⁰²¹ 2021	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	↓	12:19 ^{RS 2/4/21}	MEDIA:	BH	↓
PRS ID:	↓	ok	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	63-2013	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	AMS	↓	FIELD QC TYPE:	REG	↓
TOP DEPTH:	59 ft	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	60 ft	↓	EXCAVATED:	YES / NO / <u>NA</u>	

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

SAMPLE COMMENTS: Port - 2

LOCATION COMMENTS: VMW-5 summa # 33941

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 2300 ppm O₂ = 19.1 % VOC = 0.2 ppm

COLLECTED BY (PRINT): m. Slando K Reid

RELINQUISHED BY (Printed Name) <u>Daniel Jaramo</u> (Signature)	Date/Time <u>3/4/21</u> <u>1305</u>	RECEIVED BY (Printed Name) <u>Melissa Slupe</u> (Signature)	Date/Time <u>5/4/21</u> <u>1305</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218163

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	OK	03/04/2021	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	↓	1220	MEDIA:	BH	↓
PRS ID:	↓	OK	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	UNK	↓	FIELD PREP:	NA	↓
LOCATION TYPE:	BHover10ft	↓	FIELD QC TYPE:	FD	↓
TOP DEPTH:	59 ft	↓	SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	60 ft	↓	EXCAVATED:	YES / NO / NA	

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	T015	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: (QC) field duplicate for TWF63-21-218162 part 2 UMW-5

LOCATION COMMENTS: Summa # 06277

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄ 0% CO₂ 23.00 ppm O₂ 19.1 % VOC 0.2 ppm

COLLECTED BY (PRINT): m. steno K Reid

RELINQUISHED BY (Printed Name) <u>Daniel Jarama</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1305</u>	RECEIVED BY (Printed Name) <u>Melissa [Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1305</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 13492

EVENT NAME: FY 2021 - Poregas Sampling - TA-63 - TWF - February

SAMPLE ID: TWF63-21-218164

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY)	ok	03/04/2021	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	↓	1245	MEDIA:	BH	↓
PRS ID:	↓	ok	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	UNK	63-2013	FIELD PREP:	NA	↓
LOCATION TYPE:	BH over 10ft	nd	FIELD QC TYPE:	FB	↓
TOP DEPTH:	NA	ok	SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	NA	ok	EXCAVATED:	YES / NO / NA	

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

SAMPLE COMMENTS: OK sample for TWF63-21-218162

LOCATION COMMENTS: Summa # 21011

FIELD PARAMETERS:

Sample Time NA HH:MM

COLLECTED BY (PRINT): M. Stender

RELINQUISHED BY (Printed Name) <u>Daniel Jaramila</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1305</u>	RECEIVED BY (Printed Name) <u>Melissa [Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>3/4/21</u> <u>1300</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

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Document: TA-63 TWF SVM Report-Quarter 14
Date: May 2021

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: 2021.04.29 16:50:32
-06'00'

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

Date Signed

Karen E.
Armijo



Digitally signed by Karen
E. Armijo
Date: 2021.04.30
10:08:20 -06'00'

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

Date Signed

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