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MAR 30 2018

Date:

Symbol: EPC-DO: 18-139

LA-UR: LA-UR-18-22655

Locates Action No.: N/A

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

Subject: Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report,
Quarter 2, Los Alamos National Laboratory EPA ID #NM0890010515

Dear Mr. Kieling:

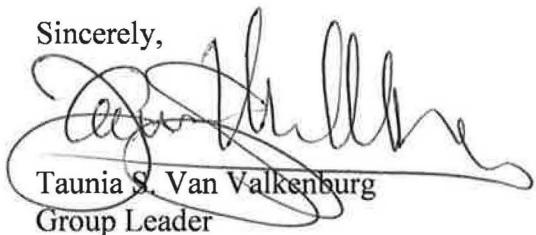
The U.S. Department of Energy (DOE) and the Los Alamos National Security, LLC (LANS), (collectively the Permittees) are submitting this report to the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) in accordance with Section 3.14.3 of the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit). The Permit requires that a soil vapor monitoring system be sampled and evaluated for the LANL Technical Area (TA)-63 Transuranic Waste Facility (TWF) on a quarterly basis after operations at the facility commence. This report provides analytical data for the second quarter period following the start of operations on October 11, 2017. The sampling results indicate that vapor concentrations at the site do not exceed the soil gas screening levels established by the Permit.

The enclosure to this report includes a summary, a figure of the facility with the soil vapor monitoring well locations, a summary table of detected volatile organic compounds for the wells, a table of analytical results and well preparation logs. The figure is from the Permit (Figure 56) and was revised as part of a permit modification request submittal on March 11, 2016 for construction updates for the TWF. Table 1 is a summary of the analytical results and includes detected constituents, detection limits, the appropriate soil gas screening levels from Permit Tables 3.14.3.1-3 and a percentage comparison of the detected levels with the screening levels. Table 2 is a listing of the complete analytical results for the sampling event. A

compact disc with copies of this submittal and the analytical data in Excel format is also included to facilitate review by NMED of the monitoring results.

If you have questions or comments concerning this submittal, please contact Karen E. Armijo of the DOE at (505) 665-7314 or Mark P. Haagenstad, LANS, at (505) 665-2014.

Sincerely,



Taunia S. Van Valkenburg
Group Leader

Sincerely,



Peter Maggiore, Jr.

Karen E. Armijo
Permitting and Compliance Program Manager

TVV/KEA/GAB:em

Enclosure(s):

- 1) TA-63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory

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The enclosure to this report includes a summary, a figure of the facility with the soil vapor monitoring well locations, a summary table of detected volatile organic compounds for the wells, a table of analytical results and well preparation logs. The figure is from the Permit (Figure 56) and was revised as part of a permit modification request submittal on March 11, 2016 for construction updates for the TWF. Table 1 is a summary of the analytical results and includes detected constituents, detection limits, the appropriate soil gas screening levels from Permit Tables 3.14.3.1-3 and a percentage comparison of the detected levels with the screening levels. Table 2 is a listing of the complete analytical results for the sampling event. A

ENCLOSURE 1

**TA-63 Transuranic Waste Facility
Soil Vapor Monitoring System Report
Quarter 2
Los Alamos National Laboratory**

EPC-DO-18-139

LAUR-18-22655
Unclassified

MAR 30 2018
Date: _____

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**TA-63 TRANSURANIC WASTE FACILITY
SOIL VAPOR MONITORING SYSTEM REPORT
QUARTER 2
LOS ALAMOS NATIONAL LABORATORY**

I. Introduction

This report describes the second quarterly sampling of a soil vapor monitoring system for the Technical Area (TA)-63 Transuranic Waste Facility (TWF) at Los Alamos National Laboratory (LANL). Construction of the TWF was approved by the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) as a modification to the LANL Hazardous Waste Facility Permit (Permit) on December 23, 2013. The LANL Permit is issued to the United States Department of Energy (DOE), the owner and co-operator of LANL, and Los Alamos National Security, LLC (LANS), the co-operator of LANL (collectively described as the Permittees). The Permit contains conditions for hazardous waste management activities at LANL necessary to protect human health and the environment. These include requirements for monitoring subsurface vapors to prevent worker exposure to potentially harmful levels of volatile organic compounds (VOCs) at the TWF (Permit Section 3.14.3 and Attachment A.6.10). The monitoring network was constructed to meet the Permit conditions and sampling and analysis for the second quarter of waste management operations has established that soil vapor concentrations at the site do not exceed the soil vapor screening levels established by the Permit.

II. TWF Soil Vapor Monitoring Wells

The TWF is located south-east of the TA-50 Material Disposal Area C, Solid Waste Management Unit 50-009, (MDA-C) at LANL. MDA-C is a site of past waste disposal activities and is the primary source near the TWF for potential soil vapor intrusion. Site investigation indicates that the boundary of a soil vapor plume from MDA-C extends to a position under the northwest section of the TWF site. In response to the Permit conditions, the Permittees installed a subsurface vapor monitoring network consisting of five vapor monitoring wells in or near the TWF facility as specified in Permit Section A.6.10. Two of the monitoring wells are located close to the building foundations adjacent to the unit boundary facing MDA-C and the utility corridor on Puye Road as depicted by locations VMW-1 and VMW-2 in Figure 56 of Attachment N, *Figures*, of the Permit (see Figure 1 of this submittal). A third monitoring well within the permitted unit is located at a point on the western edge of the unit close to the utility corridor on Pajarito Road, as depicted by location VMW-3 on Figure 56. The sampling ports for these wells are located at a 5 foot nominal depth. Two monitoring wells are located between MDA-C and Puye Road, as depicted by locations VMW-4 and VMW-5 on Figure 56. The sampling ports for both these wells are located at 25 and 60 feet.

III. Soil Vapor Sampling

Sampling procedures and VOC analyses of the obtained samples were performed and scheduled in compliance with the conditions contained in the Permit. Sampling of the wells was completed on January 30, 2018. Analytical results for the sample were compared to the soil gas screening levels (SGSLs) in Section 3.14.3 of the Permit.

The sampling of the new vapor-monitoring wells was performed using the same procedures as the ongoing vapor monitoring conducted at MDA-C. Sampling was performed by extracting formation air through the sand layer and into the stainless steel tubing of the wells. Samples were collected from all sampling ports. All samples for VOC analysis were collected in SUMMA canisters and submitted for laboratory analysis of VOCs using U.S. Environmental Protection Agency (EPA) Method TO-15. The samples were analyzed for the constituents identified in Tables 3.14.3.1, 3.14.3.2 and 3.14.3.3 in the Permit. There were no variances in the sampling procedures from the Permit requirements.

IV. Sampling Results

Analytical results for this sampling event are presented in Table 2 and summarized for relevant VOCs above detection limits in Table 1. While analyses of the samples indicated some positive results for trichloroethene (TCE) and other VOCs, none of the concentrations exceed the relevant SGSLs contained in Permit Tables 3.14.3.1 through 3. Table 1 lists the detected VOCs and includes the calculated percentage of the SGSL as an indicator of the relative concentrations.

TCE concentrations were detected in all of the five monitoring well locations. The VMW-4 and VMW-5 locations contain the highest concentrations at 7.5% and 1.4% of the SGSL respectively. These are the sites closest to MDA-C and are not located within the permitted storage unit site at TA-63. The three monitoring wells sited in the permitted unit (VMW-1, VMW-2 and VMW-3) have detected concentrations of TCE of less than 1% of the SGSL. TCE is the highest concentration VOC detected in this sample event and in previous MDA-C investigations.

Additional VOCs included in the soil gas monitoring screening level tables in the Permit were detected in the soil vapor monitoring wells. The well locations within the boundary of the TWF permitted unit (VMW-1, VMW-2 and VMW-3) indicated additional detections of listed VOCs but the concentrations were less than 0.1% of the SGSLs. The well locations north of Puye Road (VMW-4 and VMW-5) also detected additional VOCs matching the constituents of concern in the Permit and the results are included in Table 1. None of the additional detections at these two locations exceeded 1% of the SGSLs listed in the Permit.

The TA-63 TWF soil vapor monitoring wells were originally installed in August 2015. Baseline soil vapor monitoring samples were taken in September 2015 and the results submitted to NMED in the *TA-63 Transuranic Waste Facility Soil Vapor Monitoring System Report*, (ENV-DO-15-0305) of October 29, 2015. Results for the first quarter of waste management operations at the TWF were presented in the *Technical Area 63 Transuranic Waste Facility Soil Vapor*

Monitoring System Report, Quarter 1, Los Alamos National Laboratory EPA ID #NM0890010515, (EPC-DO:17-560) of December 21, 2017. The sampling results reported herein for the second quarter of operations at TWF are consistent with the previous results and do not appear to indicate additional contaminant concerns pending further quarterly analyses subject to the Permit.

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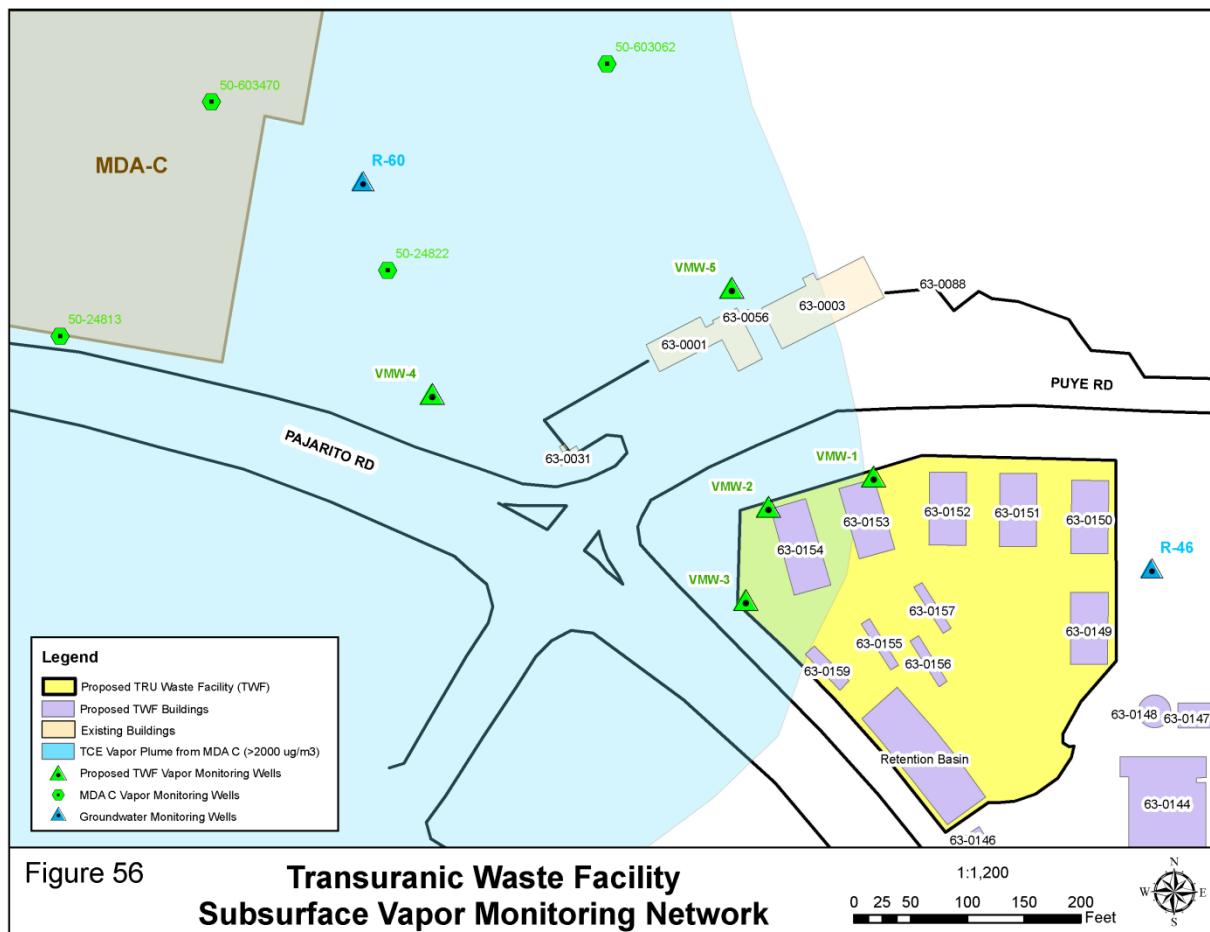


Figure 1

Soil Vapor Monitoring Well Locations at TA-63 TWF

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

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Table 1. Detected volatile organic compounds
at TA-63 Transuranic Waste Facility – Quarter 2

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**Table 1 Detected volatile organic compounds
at TA-63 Transuranic Waste Facility Soil Vapor Monitoring System– Quarter 2**

Well	Sample ID	Sample Port Depth (ft)	Analyte/Constituent	Listing in Permit Tables	Result (ug/m3)	EPA Data Qualifier	Report Detection Limit (ug/m3)	Soil-Gas Screening Level (ug/m3)	Percentage Of SGSL (%)
VMW-1 63-2009	MD54-18-150792	5	Trichloroethene	Trichloroethylene	31.1	J	49.4	1.94E+4	0.2
VMW-2 63-2010	MD54-18-150784	5	Trichloroethene	Trichloroethylene	80.6		46.7	1.94E+4	0.4
VMW-3 63-2011	MD54-18-150785	5	Trichloroethene	Trichloroethylene	64.4		50.5	1.94E+4	0.3
VMW-4 63-2012	MD54-18-150786	25	Tetrachloroethene	Tetrachloroethylene	34.6	J	59.0	2.63E+6	<0.1
			Carbon tetrachloride	Carbon tetrachloride	35.2	J	54.7	1.06E+5	<0.1
			Chloroform	Chloroform	87.8		42.5	2.30E+4	0.4
			Dichlorodifluoromethane	Dichlorodifluoromethane	74.1		43.0	2.61E+6	<0.1
			Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	13.0	J	66.6	6.86E+8	<0.1
			Trichloroethene	Trichloroethylene	2793		46.7	1.57E+5	1.8
VMW-4 63-2012	MD54-18-150787	60	Tetrachloroethene	Tetrachloroethylene	74.6		66.4	2.05E+6	<0.1
			Dichloroethene[cis-1,2-]	Cis-1,2-Dichloroethylene	23.8	J	38.8	2.91E+6	<0.1
			Carbon tetrachloride	Carbon tetrachloride	88.0		61.6	2.13E+5	<0.1
			Chloroform	Chloroform	200		47.8	4.44E+4	0.5
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	14.2	J	53.4	2.34E+8	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	158		48.4	5.38E+6	<0.1
			Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	28.3	J	75.0	1.38E+9	<0.1
			Trichloroethene	Trichloroethylene	6982		52.6	9.27E+4	7.5
VMW-5 63-2013	MDA54-18-150788	25	Chloroform	Chloroform	19.0	J	45.9	2.30E+4	<0.1
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	19.6	J	51.3	1.16E+8	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	42.0	J	46.5	2.61E+6	<0.1
			Trichloroethene	Trichloroethylene	258		50.5	1.57E+5	0.2
VMW-5 63-2013	MDA54-18-150789	60	Tetrachloroethene	Tetrachloroethylene	12.9	J	63.7	2.05E+6	<0.1
			Chloroform	Chloroform	18.1	J	45.9	4.44E+4	<0.1
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	47.4	J	51.3	2.34E+8	<0.1

**Table 1 Detected volatile organic compounds
at TA-63 Transuranic Waste Facility Soil Vapor Monitoring System– Quarter 2**

Well	Sample ID	Sample Port Depth (ft)	Analyte/Constituent	Listing in Permit Tables	Result (ug/m3)	EPA Data Qualifier	Report Detection Limit (ug/m3)	Soil-Gas Screening Level (ug/m3)	Percentage Of SGSL (%)
			Dichlorodifluoromethane	Dichlorodifluoromethane	84.0		46.5	5.38E+6	<0.1
			Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	J	72.0	6.86E+8	<0.1
			Trichloroethene	Trichloroethylene	1343		50.5	9.27E+4	1.4
VMW-5 63-2011	MDA54- 18-150790 Field Duplicate	5	Trichloroethene	Trichloroethylene	45.6	J	47.3	1.57E+5	0.2
VMW-5 63-2013	MDA54- 18-148591 Field Blank		ND						

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

“ND” indicates no VOCs of concern detected

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

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TA-63 Transuranic Waste Facility Vapor Monitoring System
Sampling and Analysis - Quarter 2

Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150784	63-2010	01/30/2018	Ethylbenzene	37.7548	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		12.5849	37.7548
MD54-18-150784	63-2010	01/30/2018	Styrene	37.0365	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		6.81131	37.0365
MD54-18-150784	63-2010	01/30/2018	Benzyl Chloride	45.0128	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.4 ppbv		7.24343	45.0128
MD54-18-150784	63-2010	01/30/2018	Dichloropropene[cis-1,3-]	39.4617	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0 ppbv		9.07166	39.4617
MD54-18-150784	63-2010	01/30/2018	Dichloropropene[trans-1,3-]	39.4617	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.6 ppbv		16.329	39.4617
MD54-18-150784	63-2010	01/30/2018	Propylbenzene[1-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		7.86031	42.7404
MD54-18-150784	63-2010	01/30/2018	Dichlorobenzene[1,4-]	52.2778	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		9.61431	52.2778
MD54-18-150784	63-2010	01/30/2018	Dibromoethane[1,2-]	66.8044	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		11.518	66.8044
MD54-18-150784	63-2010	01/30/2018	Butadiene[1,3-]	19.2354	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		3.75863	19.2354
MD54-18-150784	63-2010	01/30/2018	Chloro-1-propene[3-]	109.47	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.0 ppbv		21.894	109.47
MD54-18-150784	63-2010	01/30/2018	Dichloroethane[1,2-]	35.1909	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0 ppbv		8.08986	35.1909
MD54-18-150784	63-2010	01/30/2018	Methyl-2-pentanone[4-]	35.6176	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.2 ppbv		21.2887	35.6176
MD54-18-150784	63-2010	01/30/2018	Trimethylbenzene[1,3,5-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		7.36904	42.7404
MD54-18-150784	63-2010	01/30/2018	Toluene	32.765	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.1 ppbv		4.1427	32.765
MD54-18-150784	63-2010	01/30/2018	Chlorobenzene	40.0272	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		9.66173	40.0272
MD54-18-150784	63-2010	01/30/2018	Tetrahydrofuran	25.6428	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		7.07389	25.6428
MD54-18-150784	63-2010	01/30/2018	Hexane	30.6462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		8.45413	30.6462
MD54-18-150784	63-2010	01/30/2018	Cyclohexane	29.9279	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		8.25598	29.9279
MD54-18-150784	63-2010	01/30/2018	Trichlorobenzene[1,2,4-]	259.583	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.9 ppbv		51.175	259.583
MD54-18-150784	63-2010	01/30/2018	Dioxane[1,4-]	126.051	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.7 ppbv		20.5282	126.051
MD54-18-150784	63-2010	01/30/2018	Chlorodibromomethane	74.0659	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		17.878	74.0659
MD54-18-150784	63-2010	01/30/2018	Tetrachloroethene	58.9704	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		10.8451	58.9704
MD54-18-150784	63-2010	01/30/2018	n-Heptane	35.6318	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		6.55298	35.6318
MD54-18-150784	63-2010	01/30/2018	Dichloroethene[cis-1,2-]	34.4726	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.8 ppbv		11.0946	34.4726
MD54-18-150784	63-2010	01/30/2018	Dichloroethene[trans-1,2-]	34.4726	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		11.4909	34.4726
MD54-18-150784	63-2010	01/30/2018	Methyl tert-Butyl Ether	31.3468	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.4 ppbv		5.04431	31.3468
MD54-18-150784	63-2010	01/30/2018	Isooctane	40.621	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	0.80 ppbv		3.73527	40.621
MD54-18-150784	63-2010	01/30/2018	Dichlorobenzene[1,3-]	52.2778	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		9.61431	52.2778
MD54-18-150784	63-2010	01/30/2018	Carbon Tetrachloride	54.6995	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.9 ppbv		11.9459	54.6995
MD54-18-150784	63-2010	01/30/2018	Hexanone[2-]	143.289	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		11.0537	143.289
MD54-18-150784	63-2010	01/30/2018	Ethyltoluene[4-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.0 ppbv		4.91269	42.7404
MD54-18-150784	63-2010	01/30/2018	Ethanol	65.9079	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	8.6 ppbv		16.1945	65.9079
MD54-18-150784	63-2010	01/30/2018	Propanol[2-]	85.9793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.2 ppbv		7.86096	85.9793
MD54-18-150784	63-2010	01/30/2018	Acetone	83.0895	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	8.6 ppbv		20.4163	83.0895
MD54-18-150784	63-2010	01/30/2018	Chloroform	42.4524	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		13.1749	42.4524
MD54-18-150784	63-2010	01/30/2018	Benzene	27.7765	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		5.42759	27.7765
MD54-18-150784	63-2010	01/30/2018	Trichloroethane[1,1,1-]	47.438	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0 ppbv		10.9053	47.438
MD54-18-150784	63-2010	01/30/2018	Bromomethane	135.822	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.7 ppbv		22.1195	135.822
MD54-18-150784	63-2010	01/30/2018	Chloromethane	72.2312	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.3 ppbv		6.81037	72.2312
MD54-18-150784	63-2010	01/30/2018	Chloroethane	92.2883	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.0 ppbv		18.4577	92.2883
MD54-18-150784	63-2010	01/30/2018	Vinyl Chloride	22.2247	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.3 ppbv		5.87551	22.2247
MD54-18-150784	63-2010	01/30/2018	Methylene Chloride	121.501	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.8 ppbv		20.1345	121.501
MD54-18-150784	63-2010	01/30/2018	Carbon Disulfide	108.925	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.7 ppbv		11.5149	108.925
MD54-18-150784	63-2010	01/30/2018	Bromoform	89.8726	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.1 ppbv		11.3632	89.8726
MD54-18-150784	63-2010	01/30/2018	Bromodichloromethane	58.2485	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0 ppbv		13.3905	58.2485
MD54-18-150784	63-2010	01/30/2018	Dichloroethane[1,1-]	35.1909	ug/m3	U	N	GAS	REG	GAS	E				

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Sampling and Analysis - Quarter 2

Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150784	63-2010	01/30/2018	Trimethylbenzene[1,2,4-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.5 ppbv	7.36904	42.7404
MD54-18-150784	63-2010	01/30/2018	Isopropylbenzene	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.1 ppbv	5.40396	42.7404
MD54-18-150784	63-2010	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	37.7513	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.9 ppbv	8.24453	37.7513
MD54-18-150785	63-2010	01/30/2018	Ethylbenzene	40.7926	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		3.2 ppbv	13.8868	40.7926
MD54-18-150785	63-2010	01/30/2018	Styrene	40.0164	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.7 ppbv	7.23702	40.0164
MD54-18-150785	63-2010	01/30/2018	Benzyl Chloride	48.6345	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.5 ppbv	7.76082	48.6345
MD54-18-150785	63-2010	01/30/2018	Dichloropropene[cis-1,3-]	42.6368	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.2 ppbv	9.97883	42.6368
MD54-18-150785	63-2010	01/30/2018	Dichloropropene[trans-1,3-]	42.6368	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		3.9 ppbv	17.6897	42.6368
MD54-18-150785	63-2010	01/30/2018	Propylbenzene[1-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.8 ppbv	8.84285	46.1793
MD54-18-150785	63-2010	01/30/2018	Dichlorobenzene[1,4-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.8 ppbv	10.8161	56.4841
MD54-18-150785	63-2010	01/30/2018	Dibromoethane[1,2-]	72.1794	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.6 ppbv	12.2859	72.1794
MD54-18-150785	63-2010	01/30/2018	Butadiene[1,3-]	20.783	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.8 ppbv	3.97973	20.783
MD54-18-150785	63-2010	01/30/2018	Chloro-1-propene[3-]	118.853	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		7.6 ppbv	23.7706	118.853
MD54-18-150785	63-2010	01/30/2018	Dichloroethane[1,2-]	38.0223	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.2 ppbv	8.89885	38.0223
MD54-18-150785	63-2010	01/30/2018	Methyl-2-pentanone[4-]	38.4834	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		5.6 ppbv	22.9263	38.4834
MD54-18-150785	63-2010	01/30/2018	Trimethylbenzene[1,3,5-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.6 ppbv	7.86031	46.1793
MD54-18-150785	63-2010	01/30/2018	Toluene	35.4012	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.2 ppbv	4.51931	35.4012
MD54-18-150785	63-2010	01/30/2018	Chlorobenzene	43.2477	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.3 ppbv	10.5819	43.2477
MD54-18-150785	63-2010	01/30/2018	Tetrahydrofuran	27.7061	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.7 ppbv	7.95812	27.7061
MD54-18-150785	63-2010	01/30/2018	Hexane	33.112	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.6 ppbv	9.15864	33.112
MD54-18-150785	63-2010	01/30/2018	Cyclohexane	32.3359	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.6 ppbv	8.94397	32.3359
MD54-18-150785	63-2010	01/30/2018	Trichlorobenzene[1,2,4-]	281.833	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		7.5 ppbv	55.6249	281.833
MD54-18-150785	63-2010	01/30/2018	Dioxane[1,4-]	136.855	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		6.2 ppbv	22.3289	136.855
MD54-18-150785	63-2010	01/30/2018	Chlorodibromomethane	80.0252	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.2 ppbv	18.7293	80.0252
MD54-18-150785	63-2010	01/30/2018	Tetrachloroethene	63.7151	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.7 ppbv	11.5229	63.7151
MD54-18-150785	63-2010	01/30/2018	n-Heptane	38.4988	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.7 ppbv	6.96254	38.4988
MD54-18-150785	63-2010	01/30/2018	Dichloroethene[cis-1,2-]	37.2462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		3.0 ppbv	11.8871	37.2462
MD54-18-150785	63-2010	01/30/2018	Dichloroethene[trans-1,2-]	37.2462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		3.1 ppbv	12.2833	37.2462
MD54-18-150785	63-2010	01/30/2018	Methyl tert-Butyl Ether	33.8689	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.5 ppbv	5.40462	33.8689
MD54-18-150785	63-2010	01/30/2018	Isooctane	43.8894	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		0.87 ppbv	4.0621	43.8894
MD54-18-150785	63-2010	01/30/2018	Dichlorobenzene[1,3-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.8 ppbv	10.8161	56.4841
MD54-18-150785	63-2010	01/30/2018	Carbon Tetrachloride	59.1006	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.1 ppbv	13.2033	59.1006
MD54-18-150785	63-2010	01/30/2018	Hexanone[2-]	155.571	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		3.0 ppbv	12.2819	155.571
MD54-18-150785	63-2010	01/30/2018	Ethyltoluene[4-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.1 ppbv	5.40396	46.1793
MD54-18-150785	63-2010	01/30/2018	Ethanol	71.5572	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		9.3 ppbv	17.5127	71.5572
MD54-18-150785	63-2010	01/30/2018	Propanol[2-]	93.349	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		3.5 ppbv	8.59793	93.349
MD54-18-150785	63-2010	01/30/2018	Acetone	90.2114	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		9.4 ppbv	22.3155	90.2114
MD54-18-150785	63-2010	01/30/2018	Chloroform	45.8681	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.9 ppbv	14.1508	45.8681
MD54-18-150785	63-2010	01/30/2018	Benzene	30.0114	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		1.8 ppbv	5.74686	30.0114
MD54-18-150785	63-2010	01/30/2018	Trichloroethane[1,1,1-]	51.2549	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.2 ppbv	11.9958	51.2549
MD54-18-150785	63-2010	01/30/2018	Bromomethane	147.463	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		6.2 ppbv	24.0598	147.463
MD54-18-150785	63-2010	01/30/2018	Chloromethane	78.4224	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		3.6 ppbv	7.42949	78.4224
MD54-18-150785	63-2010	01/30/2018	Chloroethane	100.199	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		7.6 ppbv	20.0397	100.199
MD54-18-150785	63-2010	01/30/2018	Vinyl Chloride	24.0129	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		2.5 ppbv	6.38642	24.0129
MD54-18-150785	63-2010	01/30/2018	Methylene Chloride	131.916	ug/m3	U	N	GAS	REG	GAS	EPA:TO15		6.2 ppbv	21.5231	131.916
MD54-18-150785	63-2010	01/30/2018	Carbon Disulfide	118.261	ug/m3	U									

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150785	63-2010	01/30/2018	Hexachlorobutadiene	405.02	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	9.0 ppbv		95.9257	405.02
MD54-18-150785	63-2010	01/30/2018	Xylene[1,2-]	40.7887	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		12.5838	40.7887
MD54-18-150785	63-2010	01/30/2018	Dichlorobenzene[1,2-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		15.6233	56.4841
MD54-18-150785	63-2010	01/30/2018	Trimethylbenzene[1,2,4-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		7.86031	46.1793
MD54-18-150785	63-2010	01/30/2018	Isopropylbenzene	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		5.89523	46.1793
MD54-18-150785	63-2010	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	40.7887	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		9.11238	40.7887
MD54-18-150786	63-2012	01/30/2018	Ethylbenzene	37.7548	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		12.5849	37.7548
MD54-18-150786	63-2012	01/30/2018	Styrene	37.0365	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		6.81131	37.0365
MD54-18-150786	63-2012	01/30/2018	Benzyl Chloride	45.0128	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.4 ppbv		7.24343	45.0128
MD54-18-150786	63-2012	01/30/2018	Dichloropropene[cis-1,3-]	39.4617	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0 ppbv		9.07166	39.4617
MD54-18-150786	63-2012	01/30/2018	Dichloropropene[trans-1,3-]	39.4617	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.6 ppbv		16.329	39.4617
MD54-18-150786	63-2012	01/30/2018	Propylbenzene[1-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		7.86031	42.7404
MD54-18-150786	63-2012	01/30/2018	Dichlorobenzene[1,4-]	52.2778	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		9.61431	52.2778
MD54-18-150786	63-2012	01/30/2018	Dibromoethane[1,2-]	66.8044	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		11.518	66.8044
MD54-18-150786	63-2012	01/30/2018	Butadiene[1,3-]	19.2354	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		3.75863	19.2354
MD54-18-150786	63-2012	01/30/2018	Chloro-1-propene[3-]	109.47	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.0 ppbv		21.894	109.47
MD54-18-150786	63-2012	01/30/2018	Dichloroethane[1,2-]	35.1909	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0 ppbv		8.08986	35.1909
MD54-18-150786	63-2012	01/30/2018	Methyl-2-pentanone[4-]	35.6176	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.2 ppbv		21.2887	35.6176
MD54-18-150786	63-2012	01/30/2018	Trimethylbenzene[1,3,5-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		7.36904	42.7404
MD54-18-150786	63-2012	01/30/2018	Toluene	32.765	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.1 ppbv		4.1427	32.765
MD54-18-150786	63-2012	01/30/2018	Chlorobenzene	40.0272	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		9.66173	40.0272
MD54-18-150786	63-2012	01/30/2018	Tetrahydrofuran	25.6428	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		7.07389	25.6428
MD54-18-150786	63-2012	01/30/2018	Hexane	30.6462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		8.45413	30.6462
MD54-18-150786	63-2012	01/30/2018	Cyclohexane	29.9279	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		8.25598	29.9279
MD54-18-150786	63-2012	01/30/2018	Trichlorobenzene[1,2,4-]	259.583	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.9 ppbv		51.175	259.583
MD54-18-150786	63-2012	01/30/2018	Dioxane[1,4-]	126.051	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.7 ppbv		20.5282	126.051
MD54-18-150786	63-2012	01/30/2018	Chlorodibromomethane	74.0659	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		17.878	74.0659
MD54-18-150786	63-2012	01/30/2018	Tetrachloroethene	34.5688	ug/m3	J	Y	GAS	REG	GAS	EPA:TO15	1.6 ppbv		10.8451	58.9704
MD54-18-150786	63-2012	01/30/2018	n-Heptane	35.6318	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		6.55298	35.6318
MD54-18-150786	63-2012	01/30/2018	Dichloroethene[cis-1,2-]	34.4726	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.8 ppbv		11.0946	34.4726
MD54-18-150786	63-2012	01/30/2018	Dichloroethene[trans-1,2-]	34.4726	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		11.4909	34.4726
MD54-18-150786	63-2012	01/30/2018	Methyl tert-Butyl Ether	31.3468	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.4 ppbv		5.04431	31.3468
MD54-18-150786	63-2012	01/30/2018	Isooctane	40.621	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	0.80 ppbv		3.73527	40.621
MD54-18-150786	63-2012	01/30/2018	Dichlorobenzene[1,3-]	52.2778	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		9.61431	52.2778
MD54-18-150786	63-2012	01/30/2018	Carbon Tetrachloride	35.2089	ug/m3	J	Y	GAS	REG	GAS	EPA:TO15	1.9 ppbv		11.9459	54.6995
MD54-18-150786	63-2012	01/30/2018	Hexanone[2-]	143.289	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		11.0537	143.289
MD54-18-150786	63-2012	01/30/2018	Ethyltoluene[4-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.0 ppbv		4.91269	42.7404
MD54-18-150786	63-2012	01/30/2018	Ethanol	65.9079	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	8.6 ppbv		16.1945	65.9079
MD54-18-150786	63-2012	01/30/2018	Propanol[2-]	85.9793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.2 ppbv		7.86096	85.9793
MD54-18-150786	63-2012	01/30/2018	Acetone	83.0895	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	8.6 ppbv		20.4163	83.0895
MD54-18-150786	63-2012	01/30/2018	Chloroform	87.8325	ug/m3		Y	GAS	REG	GAS	EPA:TO15	2.7 ppbv		13.1749	42.4524
MD54-18-150786	63-2012	01/30/2018	Benzene	27.7765	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		5.42759	27.7765
MD54-18-150786	63-2012	01/30/2018	Trichloroethane[1,1,1-]	47.438	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0 ppbv		10.9053	47.438
MD54-18-150786	63-2012	01/30/2018	Bromomethane	135.822	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.7 ppbv		22.1195	135.822
MD54-18-150786	63-2012	01/30/2018	Chloromethane	72.2312	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.3 ppbv		6.81037	72.2312
MD54-18-150786	63-2012	01/30/2018	Chloroethane	92.2883	ug/m3										

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150786	63-2012	01/30/2018	Trichloroethane[1,1,2-]	47.438	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		6.54317	47.438
MD54-18-150786	63-2012	01/30/2018	Trichloroethene	2792.65	ug/m3		Y	GAS	REG	GAS	EPA:TO15	3.3 ppbv		17.7226	46.7232
MD54-18-150786	63-2012	01/30/2018	Tetrachloroethane[1,1,2,2-]	59.6887	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		10.9772	59.6887
MD54-18-150786	63-2012	01/30/2018	Hexachlorobutadiene	373.044	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	8.3 ppbv		88.4648	373.044
MD54-18-150786	63-2012	01/30/2018	Xylene[1,2-]	37.7513	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		11.7159	37.7513
MD54-18-150786	63-2012	01/30/2018	Dichlorobenzene[1,2-]	52.2778	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		14.4215	52.2778
MD54-18-150786	63-2012	01/30/2018	Trimethylbenzene[1,2,4-]	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		7.36904	42.7404
MD54-18-150786	63-2012	01/30/2018	Isopropylbenzene	42.7404	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.1 ppbv		5.40396	42.7404
MD54-18-150786	63-2012	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	37.7513	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.9 ppbv		8.24453	37.7513
MD54-18-150787	63-2012	01/30/2018	Ethylbenzene	42.5284	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.3 ppbv		14.3208	42.5284
MD54-18-150787	63-2012	01/30/2018	Styrene	41.7193	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		7.66272	41.7193
MD54-18-150787	63-2012	01/30/2018	Benzyl Chloride	50.704	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		8.27821	50.704
MD54-18-150787	63-2012	01/30/2018	Dichloropropene[cis-1,3-]	44.4512	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.3 ppbv		10.4324	44.4512
MD54-18-150787	63-2012	01/30/2018	Dichloropropene[trans-1,3-]	44.4512	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	4.1 ppbv		18.5969	44.4512
MD54-18-150787	63-2012	01/30/2018	Propylbenzene[1-]	48.1444	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		8.84285	48.1444
MD54-18-150787	63-2012	01/30/2018	Dichlorobenzene[1,4-]	58.8877	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		10.8161	58.8877
MD54-18-150787	63-2012	01/30/2018	Dibromoethane[1,2-]	75.2509	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		13.0537	75.2509
MD54-18-150787	63-2012	01/30/2018	Butadiene[1,3-]	21.6674	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.9 ppbv		4.20083	21.6674
MD54-18-150787	63-2012	01/30/2018	Chloro-1-propene[3-]	121.981	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.9 ppbv		24.7089	121.981
MD54-18-150787	63-2012	01/30/2018	Dichloroethane[1,2-]	39.6403	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.3 ppbv		9.30334	39.6403
MD54-18-150787	63-2012	01/30/2018	Methyl-2-pentanone[4-]	40.121	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.8 ppbv		23.7451	40.121
MD54-18-150787	63-2012	01/30/2018	Trimethylbenzene[1,3,5-]	48.1444	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		8.35158	48.1444
MD54-18-150787	63-2012	01/30/2018	Toluene	36.9077	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		4.51931	36.9077
MD54-18-150787	63-2012	01/30/2018	Chlorobenzene	45.0881	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4 ppbv		11.042	45.0881
MD54-18-150787	63-2012	01/30/2018	Tetrahydrofuran	28.885	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.8 ppbv		8.25287	28.885
MD54-18-150787	63-2012	01/30/2018	Hexane	34.521	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		9.5109	34.521
MD54-18-150787	63-2012	01/30/2018	Cyclohexane	33.7119	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		9.28797	33.7119
MD54-18-150787	63-2012	01/30/2018	Trichlorobenzene[1,2,4-]	289.25	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.8 ppbv		57.8499	289.25
MD54-18-150787	63-2012	01/30/2018	Dioxane[1,4-]	140.456	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.5 ppbv		23.4094	140.456
MD54-18-150787	63-2012	01/30/2018	Chlorodibromomethane	83.4305	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.3 ppbv		19.5806	83.4305
MD54-18-150787	63-2012	01/30/2018	Tetrachloroethene	74.5602	ug/m3		Y	GAS	REG	GAS	EPA:TO15	1.8 ppbv		12.2008	66.4264
MD54-18-150787	63-2012	01/30/2018	n-Heptane	40.137	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		7.37211	40.137
MD54-18-150787	63-2012	01/30/2018	Dichloroethene[cis-1,2-]	23.7742	ug/m3	J	Y	GAS	REG	GAS	EPA:TO15	3.1 ppbv		12.2833	38.8312
MD54-18-150787	63-2012	01/30/2018	Dichloroethene[trans-1,2-]	38.8312	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.2 ppbv		12.6796	38.8312
MD54-18-150787	63-2012	01/30/2018	Methyl tert-Butyl Ether	35.3102	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		5.76493	35.3102
MD54-18-150787	63-2012	01/30/2018	Isooctane	45.757	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	0.91 ppbv		4.24887	45.757
MD54-18-150787	63-2012	01/30/2018	Dichlorobenzene[1,3-]	58.8877	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		10.8161	58.8877
MD54-18-150787	63-2012	01/30/2018	Carbon Tetrachloride	88.0222	ug/m3		Y	GAS	REG	GAS	EPA:TO15	2.2 ppbv		13.8321	61.6155
MD54-18-150787	63-2012	01/30/2018	Hexanone[2-]	159.665	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.1 ppbv		12.6913	159.665
MD54-18-150787	63-2012	01/30/2018	Ethyltoluene[4-]	48.1444	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		5.89523	48.1444
MD54-18-150787	63-2012	01/30/2018	Ethanol	73.4403	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	9.7 ppbv		18.2659	73.4403
MD54-18-150787	63-2012	01/30/2018	Propanol[2-]	95.8055	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.7 ppbv		9.08924	95.8055
MD54-18-150787	63-2012	01/30/2018	Acetone	92.5854	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	9.8 ppbv		23.2651	92.5854
MD54-18-150787	63-2012	01/30/2018	Chloroform	200.063	ug/m3		Y	GAS	REG	GAS	EPA:TO15	3.0 ppbv		14.6388	47.8199
MD54-18-150787	63-2012	01/30/2018	Benzene	31.2885	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.9 ppbv		6.06613	31.2885
MD54-18-150787	63-2012	01/30/2018	Trichloroethane[1,1,1-]	14.1											

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150787	63-2012	01/30/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	68.4653	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		12.5753	68.4653
MD54-18-150787	63-2012	01/30/2018	Dichloropropane[1,2-]	45.2603	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		13.3934	45.2603
MD54-18-150787	63-2012	01/30/2018	Butanone[2-]	114.951	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	4.3 ppbv		12.674	114.951
MD54-18-150787	63-2012	01/30/2018	Trichloroethane[1,1,2-]	53.4359	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.4 ppbv		7.6337	53.4359
MD54-18-150787	63-2012	01/30/2018	Trichloroethene	6981.63	ug/m3	Y		GAS	REG	GAS	EPA:TO15	3.8 ppbv		20.4079	52.6308
MD54-18-150787	63-2012	01/30/2018	Tetrachloroethane[1,1,2,2-]	67.2355	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		12.3494	67.2355
MD54-18-150787	63-2012	01/30/2018	Hexachlorobutadiene	415.678	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	9.4 ppbv		100.189	415.678
MD54-18-150787	63-2012	01/30/2018	Xylene[1,2-]	42.5244	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.0 ppbv		13.0177	42.5244
MD54-18-150787	63-2012	01/30/2018	Dichlorobenzene[1,2-]	58.8877	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		16.2242	58.8877
MD54-18-150787	63-2012	01/30/2018	Trimethylbenzene[1,2,4-]	48.1444	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		8.35158	48.1444
MD54-18-150787	63-2012	01/30/2018	Isopropylbenzene	48.1444	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		5.89523	48.1444
MD54-18-150787	63-2012	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	42.5244	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		9.5463	42.5244
MD54-18-150788	63-2013	01/30/2018	Ethylbenzene	40.7926	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.2 ppbv		13.8868	40.7926
MD54-18-150788	63-2013	01/30/2018	Styrene	40.0164	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		7.23702	40.0164
MD54-18-150788	63-2013	01/30/2018	Benzyl Chloride	48.6345	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		7.76082	48.6345
MD54-18-150788	63-2013	01/30/2018	Dichloropropene[cis-1,3-]	42.6368	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		9.97883	42.6368
MD54-18-150788	63-2013	01/30/2018	Dichloropropene[trans-1,3-]	42.6368	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.9 ppbv		17.6897	42.6368
MD54-18-150788	63-2013	01/30/2018	Propylbenzene[1-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		8.35158	46.1793
MD54-18-150788	63-2013	01/30/2018	Dichlorobenzene[1,4-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		10.2152	56.4841
MD54-18-150788	63-2013	01/30/2018	Dibromoethane[1,2-]	72.1794	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		12.2859	72.1794
MD54-18-150788	63-2013	01/30/2018	Butadiene[1,3-]	20.783	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		3.97973	20.783
MD54-18-150788	63-2013	01/30/2018	Chloro-1-propene[3-]	118.853	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.6 ppbv		23.7706	118.853
MD54-18-150788	63-2013	01/30/2018	Dichloroethane[1,2-]	38.0223	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		8.89885	38.0223
MD54-18-150788	63-2013	01/30/2018	Methyl-2-pentanone[4-]	38.4834	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.6 ppbv		22.9263	38.4834
MD54-18-150788	63-2013	01/30/2018	Trimethylbenzene[1,3,5-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		7.86031	46.1793
MD54-18-150788	63-2013	01/30/2018	Toluene	35.4012	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		4.51931	35.4012
MD54-18-150788	63-2013	01/30/2018	Chlorobenzene	43.2477	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		10.1218	43.2477
MD54-18-150788	63-2013	01/30/2018	Tetrahydrofuran	27.7061	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		7.66338	27.7061
MD54-18-150788	63-2013	01/30/2018	Hexane	33.112	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		9.15864	33.112
MD54-18-150788	63-2013	01/30/2018	Cyclohexane	32.3359	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		8.94397	32.3359
MD54-18-150788	63-2013	01/30/2018	Trichlorobenzene[1,2,4-]	281.833	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.4 ppbv		54.8833	281.833
MD54-18-150788	63-2013	01/30/2018	Dioxane[1,4-]	136.855	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.2 ppbv		22.3289	136.855
MD54-18-150788	63-2013	01/30/2018	Chlorodibromomethane	80.0252	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		18.7293	80.0252
MD54-18-150788	63-2013	01/30/2018	Tetrachloroethene	63.7151	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		11.5229	63.7151
MD54-18-150788	63-2013	01/30/2018	n-Heptane	38.4988	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		6.96254	38.4988
MD54-18-150788	63-2013	01/30/2018	Dichloroethene[cis-1,2-]	37.2462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.0 ppbv		11.8871	37.2462
MD54-18-150788	63-2013	01/30/2018	Dichloroethene[trans-1,2-]	37.2462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.1 ppbv		12.2833	37.2462
MD54-18-150788	63-2013	01/30/2018	Methyl tert-Butyl Ether	33.8689	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		5.40462	33.8689
MD54-18-150788	63-2013	01/30/2018	Isooctane	43.8894	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	0.86 ppbv		4.01541	43.8894
MD54-18-150788	63-2013	01/30/2018	Dichlorobenzene[1,3-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		10.2152	56.4841
MD54-18-150788	63-2013	01/30/2018	Carbon Tetrachloride	59.1006	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		13.2033	59.1006
MD54-18-150788	63-2013	01/30/2018	Hexanone[2-]	155.571	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.0 ppbv		12.2819	155.571
MD54-18-150788	63-2013	01/30/2018	Ethyltoluene[4-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.1 ppbv		5.40396	46.1793
MD54-18-150788	63-2013	01/30/2018	Ethanol	71.5572	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	9.3 ppbv		17.5127	71.5572
MD54-18-150788	63-2013	01/30/2018	Propanol[2-]	93.349	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.5 ppbv		8.59793	93.349
MD54-18-150788	63-2013</														

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150788	63-2013	01/30/2018	Trichlorofluoromethane	52.7802	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		10.1068	52.7802
MD54-18-150788	63-2013	01/30/2018	Dichlorodifluoromethane	42.008	ug/m3	J	Y	GAS	REG	GAS	EPA:TO15	2.7 ppbv		13.3437	46.456
MD54-18-150788	63-2013	01/30/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	71.9935	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.0 ppbv		7.65888	71.9935
MD54-18-150788	63-2013	01/30/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	65.6708	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		12.5753	65.6708
MD54-18-150788	63-2013	01/30/2018	Dichloropropane[1,2-]	43.4129	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.8 ppbv		12.9315	43.4129
MD54-18-150788	63-2013	01/30/2018	Butanone[2-]	112.003	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	4.1 ppbv		12.0846	112.003
MD54-18-150788	63-2013	01/30/2018	Trichloroethane[1,1,2-]	51.2549	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.4 ppbv		7.6337	51.2549
MD54-18-150788	63-2013	01/30/2018	Trichloroethene	257.783	ug/m3		Y	GAS	REG	GAS	EPA:TO15	3.6 ppbv		19.3338	50.4826
MD54-18-150788	63-2013	01/30/2018	Tetrachloroethane[1,1,2,2-]	64.4912	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		11.6633	64.4912
MD54-18-150788	63-2013	01/30/2018	Hexachlorobutadiene	405.02	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	9.0 ppbv		95.9257	405.02
MD54-18-150788	63-2013	01/30/2018	Xylene[1,2-]	40.7887	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		12.5838	40.7887
MD54-18-150788	63-2013	01/30/2018	Dichlorobenzene[1,2-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		15.6233	56.4841
MD54-18-150788	63-2013	01/30/2018	Trimethylbenzene[1,2,4-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		7.86031	46.1793
MD54-18-150788	63-2013	01/30/2018	Isopropylbenzene	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		5.89523	46.1793
MD54-18-150788	63-2013	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	40.7887	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		9.11238	40.7887
MD54-18-150789	63-2013	01/30/2018	Ethylbenzene	40.7926	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.2 ppbv		13.8868	40.7926
MD54-18-150789	63-2013	01/30/2018	Styrene	40.0164	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		7.23702	40.0164
MD54-18-150789	63-2013	01/30/2018	Benzyl Chloride	48.6345	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		7.76082	48.6345
MD54-18-150789	63-2013	01/30/2018	Dichloropropene[cis-1,3-]	42.6368	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		9.97883	42.6368
MD54-18-150789	63-2013	01/30/2018	Dichloropropene[trans-1,3-]	42.6368	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.9 ppbv		17.6897	42.6368
MD54-18-150789	63-2013	01/30/2018	Propylbenzene[1-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		8.84285	46.1793
MD54-18-150789	63-2013	01/30/2018	Dichlorobenzene[1,4-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		10.8161	56.4841
MD54-18-150789	63-2013	01/30/2018	Dibromoethane[1,2-]	72.1794	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		12.2859	72.1794
MD54-18-150789	63-2013	01/30/2018	Butadiene[1,3-]	20.783	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		3.97973	20.783
MD54-18-150789	63-2013	01/30/2018	Chloro-1-propene[3-]	118.853	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.6 ppbv		23.7706	118.853
MD54-18-150789	63-2013	01/30/2018	Dichloroethane[1,2-]	38.0223	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		8.89885	38.0223
MD54-18-150789	63-2013	01/30/2018	Methyl-2-pentanone[4-]	38.4834	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.6 ppbv		22.9263	38.4834
MD54-18-150789	63-2013	01/30/2018	Trimethylbenzene[1,3,5-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		7.86031	46.1793
MD54-18-150789	63-2013	01/30/2018	Toluene	35.4012	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		4.51931	35.4012
MD54-18-150789	63-2013	01/30/2018	Chlorobenzene	43.2477	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.3 ppbv		10.5819	43.2477
MD54-18-150789	63-2013	01/30/2018	Tetrahydrofuran	27.7061	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7 ppbv		7.95812	27.7061
MD54-18-150789	63-2013	01/30/2018	Hexane	33.112	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		9.15864	33.112
MD54-18-150789	63-2013	01/30/2018	Cyclohexane	32.3359	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		8.94397	32.3359
MD54-18-150789	63-2013	01/30/2018	Trichlorobenzene[1,2,4-]	281.833	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.5 ppbv		55.6249	281.833
MD54-18-150789	63-2013	01/30/2018	Dioxane[1,4-]	136.855	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.2 ppbv		22.3289	136.855
MD54-18-150789	63-2013	01/30/2018	Chlorodibromomethane	80.0252	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		18.7293	80.0252
MD54-18-150789	63-2013	01/30/2018	Tetrachloroethene	12.8786	ug/m3	J	Y	GAS	REG	GAS	EPA:TO15	1.7 ppbv		11.5229	63.7151
MD54-18-150789	63-2013	01/30/2018	n-Heptane	38.4988	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		6.96254	38.4988
MD54-18-150789	63-2013	01/30/2018	Dichloroethene[cis-1,2-]	37.2462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.0 ppbv		11.8871	37.2462
MD54-18-150789	63-2013	01/30/2018	Dichloroethene[trans-1,2-]	37.2462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.1 ppbv		12.2833	37.2462
MD54-18-150789	63-2013	01/30/2018	Methyl tert-Butyl Ether	33.8689	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5 ppbv		5.40462	33.8689
MD54-18-150789	63-2013	01/30/2018	Isooctane	43.8894	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	0.87 ppbv		4.0621	43.8894
MD54-18-150789	63-2013	01/30/2018	Dichlorobenzene[1,3-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		10.8161	56.4841
MD54-18-150789	63-2013	01/30/2018	Carbon Tetrachloride	59.1006	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		13.2033	59.1006
MD54-18-150789	63-2013	01/30/2018	Hexanone[2-]	155.571	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.0 ppbv		12.2819	155.571
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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150789	63-2013	01/30/2018	Bromodichloromethane	62.9351	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2 ppbv		14.7295	62.9351
MD54-18-150789	63-2013	01/30/2018	Dichloroethane[1,1-]	38.0223	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		7.28087	38.0223
MD54-18-150789	63-2013	01/30/2018	Dichloroethene[1,1-]	37.2462	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.7 ppbv		14.6607	37.2462
MD54-18-150789	63-2013	01/30/2018	Trichlorofluoromethane	52.7802	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		10.1068	52.7802
MD54-18-150789	63-2013	01/30/2018	Dichlorodifluoromethane	84.0161	ug/m3		Y	GAS	REG	GAS	EPA:TO15	2.8 ppbv		13.8379	46.456
MD54-18-150789	63-2013	01/30/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	9.95655	ug/m3	J	Y	GAS	REG	GAS	EPA:TO15	1.0 ppbv		7.65888	71.9935
MD54-18-150789	63-2013	01/30/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	65.6708	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8 ppbv		12.5753	65.6708
MD54-18-150789	63-2013	01/30/2018	Dichloropropane[1,2-]	43.4129	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.8 ppbv		12.9315	43.4129
MD54-18-150789	63-2013	01/30/2018	Butanone[2-]	112.003	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	4.1 ppbv		12.0846	112.003
MD54-18-150789	63-2013	01/30/2018	Trichloroethane[1,1,2-]	51.2549	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.4 ppbv		7.6337	51.2549
MD54-18-150789	63-2013	01/30/2018	Trichloroethene	1342.62	ug/m3		Y	GAS	REG	GAS	EPA:TO15	3.6 ppbv		19.3338	50.4826
MD54-18-150789	63-2013	01/30/2018	Tetrachloroethane[1,1,2,2-]	64.4912	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7 ppbv		11.6633	64.4912
MD54-18-150789	63-2013	01/30/2018	Hexachlorobutadiene	405.02	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	9.0 ppbv		95.9257	405.02
MD54-18-150789	63-2013	01/30/2018	Xylene[1,2-]	40.7887	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.9 ppbv		12.5838	40.7887
MD54-18-150789	63-2013	01/30/2018	Dichlorobenzene[1,2-]	56.4841	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6 ppbv		15.6233	56.4841
MD54-18-150789	63-2013	01/30/2018	Trimethylbenzene[1,2,4-]	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6 ppbv		7.86031	46.1793
MD54-18-150789	63-2013	01/30/2018	Isopropylbenzene	46.1793	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2 ppbv		5.89523	46.1793
MD54-18-150789	63-2013	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	40.7887	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1 ppbv		9.11238	40.7887
MD54-18-150790	63-2011	01/30/2018	Ethylbenzene	38.1888	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	3.0 ppbv		13.0189	38.1888
MD54-18-150790	63-2011	01/30/2018	Styrene	37.4622	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.6 ppbv		6.81131	37.4622
MD54-18-150790	63-2011	01/30/2018	Benzyl Chloride	45.5302	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.4 ppbv		7.24343	45.5302
MD54-18-150790	63-2011	01/30/2018	Dichloropropene[cis-1,3-]	39.9153	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.0 ppbv		9.07166	39.9153
MD54-18-150790	63-2011	01/30/2018	Dichloropropene[trans-1,3-]	39.9153	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	3.7 ppbv		16.7826	39.9153
MD54-18-150790	63-2011	01/30/2018	Propylbenzene[1-]	43.2317	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.6 ppbv		7.86031	43.2317
MD54-18-150790	63-2011	01/30/2018	Dichlorobenzene[1,4-]	52.8787	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.6 ppbv		9.61431	52.8787
MD54-18-150790	63-2011	01/30/2018	Dibromoethane[1,2-]	67.5723	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.5 ppbv		11.518	67.5723
MD54-18-150790	63-2011	01/30/2018	Butadiene[1,3-]	19.4565	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.7 ppbv		3.75863	19.4565
MD54-18-150790	63-2011	01/30/2018	Chloro-1-propene[3-]	109.47	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	7.1 ppbv		22.2067	109.47
MD54-18-150790	63-2011	01/30/2018	Dichloroethane[1,2-]	35.5954	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.0 ppbv		8.08986	35.5954
MD54-18-150790	63-2011	01/30/2018	Methyl-2-pentanone[4-]	36.027	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	5.2 ppbv		21.2887	36.027
MD54-18-150790	63-2011	01/30/2018	Trimethylbenzene[1,3,5-]	43.2317	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.5 ppbv		7.36904	43.2317
MD54-18-150790	63-2011	01/30/2018	Toluene	33.1416	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.1 ppbv		4.1427	33.1416
MD54-18-150790	63-2011	01/30/2018	Chlorobenzene	40.4872	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.1 ppbv		9.66173	40.4872
MD54-18-150790	63-2011	01/30/2018	Tetrahydrofuran	25.9376	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.5 ppbv		7.36863	25.9376
MD54-18-150790	63-2011	01/30/2018	Hexane	30.9985	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.4 ppbv		8.45413	30.9985
MD54-18-150790	63-2011	01/30/2018	Cyclohexane	30.2719	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.4 ppbv		8.25598	30.2719
MD54-18-150790	63-2011	01/30/2018	Trichlorobenzene[1,2,4-]	259.583	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	7.0 ppbv		51.9166	259.583
MD54-18-150790	63-2011	01/30/2018	Dioxane[1,4-]	126.051	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	5.8 ppbv		20.8884	126.051
MD54-18-150790	63-2011	01/30/2018	Chlorodibromomethane	74.9172	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.1 ppbv		17.878	74.9172
MD54-18-150790	63-2011	01/30/2018	Tetrachloroethene	59.6482	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.6 ppbv		10.8451	59.6482
MD54-18-150790	63-2011	01/30/2018	n-Heptane	36.0414	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.6 ppbv		6.55298	36.0414
MD54-18-150790	63-2011	01/30/2018	Dichloroethene[cis-1,2-]	34.8688	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.8 ppbv		11.0946	34.8688
MD54-18-150790	63-2011	01/30/2018	Dichloroethene[trans-1,2-]	34.8688	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.9 ppbv		11.4909	34.8688
MD54-18-150790	63-2011	01/30/2018	Methyl tert-Butyl Ether	31.7071	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.4 ppbv		5.04431	31.7071
MD54-18-150790	63-2011	01/30/2018	Isooctane	41.0879	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	0.81 ppbv		3.78196	41.0879

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Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150790	63-2011	01/30/2018	Methylene Chloride	121.501	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	5.8 ppbv		20.1345	121.501
MD54-18-150790	63-2011	01/30/2018	Carbon Disulfide	108.925	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	3.7 ppbv		11.5149	108.925
MD54-18-150790	63-2011	01/30/2018	Bromoform	90.9056	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.1 ppbv		11.3632	90.9056
MD54-18-150790	63-2011	01/30/2018	Bromodichloromethane	58.918	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.0 ppbv		13.3905	58.918
MD54-18-150790	63-2011	01/30/2018	Dichloroethane[1,1-]	35.5954	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.7 ppbv		6.87638	35.5954
MD54-18-150790	63-2011	01/30/2018	Dichloroethene[1,1-]	34.8688	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	3.4 ppbv		13.472	34.8688
MD54-18-150790	63-2011	01/30/2018	Trichlorofluoromethane	49.4113	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.7 ppbv		9.54536	49.4113
MD54-18-150790	63-2011	01/30/2018	Dichlorodifluoromethane	43.4907	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.6 ppbv		12.8495	43.4907
MD54-18-150790	63-2011	01/30/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	67.3982	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	0.93 ppbv		7.12276	67.3982
MD54-18-150790	63-2011	01/30/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	61.479	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.6 ppbv		11.178	61.479
MD54-18-150790	63-2011	01/30/2018	Dichloropropane[1,2-]	40.6419	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.6 ppbv		12.0078	40.6419
MD54-18-150790	63-2011	01/30/2018	Butanone[2-]	103.161	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	3.8 ppbv		11.2003	103.161
MD54-18-150790	63-2011	01/30/2018	Trichloroethane[1,1,2-]	47.9833	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.3 ppbv		7.08844	47.9833
MD54-18-150790	63-2011	01/30/2018	Trichloroethene	45.6491	ug/m3	J	Y	GAS	FD	GAS	EPA:TO15	3.4 ppbv		18.2597	47.2603
MD54-18-150790	63-2011	01/30/2018	Tetrachloroethane[1,1,2,2-]	60.3748	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.6 ppbv		10.9772	60.3748
MD54-18-150790	63-2011	01/30/2018	Hexachlorobutadiene	373.044	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	8.4 ppbv		89.5306	373.044
MD54-18-150790	63-2011	01/30/2018	Xylene[1,2-]	38.1852	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.7 ppbv		11.7159	38.1852
MD54-18-150790	63-2011	01/30/2018	Dichlorobenzene[1,2-]	52.8787	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.4 ppbv		14.4215	52.8787
MD54-18-150790	63-2011	01/30/2018	Trimethylbenzene[1,2,4-]	43.2317	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.5 ppbv		7.36904	43.2317
MD54-18-150790	63-2011	01/30/2018	Isopropylbenzene	43.2317	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	1.1 ppbv		5.40396	43.2317
MD54-18-150790	63-2011	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	38.1852	ug/m3	U	N	GAS	FD	GAS	EPA:TO15	2.0 ppbv		8.67845	38.1852
MD54-18-150791	63-2013	01/30/2018	Ethylbenzene	91.1323	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	7.0 ppbv		30.3774	91.1323
MD54-18-150791	63-2013	01/30/2018	Styrene	89.3984	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.8 ppbv		16.1769	89.3984
MD54-18-150791	63-2013	01/30/2018	Benzyl Chloride	108.652	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.4 ppbv		17.5912	108.652
MD54-18-150791	63-2013	01/30/2018	Dichloropropene[cis-1,3-]	95.2525	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.8 ppbv		21.772	95.2525
MD54-18-150791	63-2013	01/30/2018	Dichloropropene[trans-1,3-]	95.2525	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	8.6 ppbv		39.0082	95.2525
MD54-18-150791	63-2013	01/30/2018	Propylbenzene[1-]	103.167	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.8 ppbv		18.6682	103.167
MD54-18-150791	63-2013	01/30/2018	Dichlorobenzene[1,4-]	126.188	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.8 ppbv		22.834	126.188
MD54-18-150791	63-2013	01/30/2018	Dibromoethane[1,2-]	161.252	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.6 ppbv		27.6432	161.252
MD54-18-150791	63-2013	01/30/2018	Butadiene[1,3-]	46.4302	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.0 ppbv		8.84385	46.4302
MD54-18-150791	63-2013	01/30/2018	Chloro-1-propene[3-]	259.6	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	17 ppbv		53.1711	259.6
MD54-18-150791	63-2013	01/30/2018	Dichloroethane[1,2-]	84.9435	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.8 ppbv		19.4157	84.9435
MD54-18-150791	63-2013	01/30/2018	Methyl-2-pentanone[4-]	85.9736	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	12 ppbv		49.1278	85.9736
MD54-18-150791	63-2013	01/30/2018	Trimethylbenzene[1,3,5-]	103.167	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.6 ppbv		17.6857	103.167
MD54-18-150791	63-2013	01/30/2018	Toluene	79.0879	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	2.6 ppbv		9.79183	79.0879
MD54-18-150791	63-2013	01/30/2018	Chlorobenzene	96.6173	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	5.0 ppbv		23.0041	96.6173
MD54-18-150791	63-2013	01/30/2018	Tetrahydrofuran	61.8965	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	5.8 ppbv		17.0952	61.8965
MD54-18-150791	63-2013	01/30/2018	Hexane	73.9737	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	5.8 ppbv		20.4308	73.9737
MD54-18-150791	63-2013	01/30/2018	Cyclohexane	72.2398	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	5.8 ppbv		19.9519	72.2398
MD54-18-150791	63-2013	01/30/2018	Trichlorobenzene[1,2,4-]	615.583	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	16 ppbv		118.667	615.583
MD54-18-150791	63-2013	01/30/2018	Dioxane[1,4-]	298.92	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	14 ppbv		50.4202	298.92
MD54-18-150791	63-2013	01/30/2018	Chlorodibromomethane	178.78	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.9 ppbv		41.7153	178.78
MD54-18-150791	63-2013	01/30/2018	Tetrachloroethene	142.342	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.7 ppbv		25.0793	142.342
MD54-18-150791	63-2013	01/30/2018	n-Heptane	86.0079	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.8 ppbv		15.5633	86.0079
MD54-18-150791	63-2013	01/30/2018	Dichloroethene[cis-1,2-]	83.2096	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	6.6 ppbv		26.1516	83.2096
MD54-18-150791															

TA-63 Transuranic Waste Facility Vapor Monitoring System
Sampling and Analysis - Quarter 2

Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150791	63-2013	01/30/2018	Chloromethane	171.291	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	7.9	ppbv	16.3036	171.291
MD54-18-150791	63-2013	01/30/2018	Chloroethane	218.855	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	17	ppbv	44.8257	218.855
MD54-18-150791	63-2013	01/30/2018	Vinyl Chloride	53.6459	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	5.5	ppbv	14.0501	53.6459
MD54-18-150791	63-2013	01/30/2018	Methylene Chloride	288.131	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	14	ppbv	48.6005	288.131
MD54-18-150791	63-2013	01/30/2018	Carbon Disulfide	258.307	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	8.7	ppbv	27.0756	258.307
MD54-18-150791	63-2013	01/30/2018	Bromoform	216.934	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	2.6	ppbv	26.8585	216.934
MD54-18-150791	63-2013	01/30/2018	Bromodichloromethane	140.6	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.7	ppbv	31.4676	140.6
MD54-18-150791	63-2013	01/30/2018	Dichloroethane[1,1-]	84.9435	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.0	ppbv	16.1797	84.9435
MD54-18-150791	63-2013	01/30/2018	Dichloroethene[1,1-]	83.2096	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	8.0	ppbv	31.6989	83.2096
MD54-18-150791	63-2013	01/30/2018	Trichlorofluoromethane	117.913	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.0	ppbv	22.4597	117.913
MD54-18-150791	63-2013	01/30/2018	Dichlorodifluoromethane	103.785	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	6.0	ppbv	29.6527	103.785
MD54-18-150791	63-2013	01/30/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	160.837	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	2.2	ppbv	16.8495	160.837
MD54-18-150791	63-2013	01/30/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	146.711	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.9	ppbv	27.2464	146.711
MD54-18-150791	63-2013	01/30/2018	Dichloroproppane[1,2-]	96.9864	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	6.1	ppbv	28.1722	96.9864
MD54-18-150791	63-2013	01/30/2018	Butanone[2-]	244.639	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	9.1	ppbv	26.8218	244.639
MD54-18-150791	63-2013	01/30/2018	Trichloroethane[1,1,2-]	114.506	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.0	ppbv	16.3579	114.506
MD54-18-150791	63-2013	01/30/2018	Trichloroethene	112.78	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	7.9	ppbv	42.4268	112.78
MD54-18-150791	63-2013	01/30/2018	Tetrachloroethane[1,1,2,2-]	144.076	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.7	ppbv	25.3848	144.076
MD54-18-150791	63-2013	01/30/2018	Hexachlorobutadiene	884.648	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	20	ppbv	213.168	884.648
MD54-18-150791	63-2013	01/30/2018	Xylene[1,2-]	91.1238	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	6.4	ppbv	27.771	91.1238
MD54-18-150791	63-2013	01/30/2018	Dichlorobenzene[1,2-]	126.188	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	5.8	ppbv	34.8519	126.188
MD54-18-150791	63-2013	01/30/2018	Trimethylbenzene[1,2,4-]	103.167	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	3.6	ppbv	17.6857	103.167
MD54-18-150791	63-2013	01/30/2018	Isopropylbenzene	103.167	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	2.6	ppbv	12.773	103.167
MD54-18-150791	63-2013	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	91.1238	ug/m3	U	N	GAS	FB	GAS	EPA:TO15	4.6	ppbv	19.9604	91.1238
MD54-18-150792	63-2009	01/30/2018	Ethylbenzene	39.9246	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.1	ppbv	13.4529	39.9246
MD54-18-150792	63-2009	01/30/2018	Styrene	39.165	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7	ppbv	7.23702	39.165
MD54-18-150792	63-2009	01/30/2018	Benzyl Chloride	47.5997	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.5	ppbv	7.76082	47.5997
MD54-18-150792	63-2009	01/30/2018	Dichloropropene[cis-1,3-]	41.7297	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1	ppbv	9.52525	41.7297
MD54-18-150792	63-2009	01/30/2018	Dichloropropene[trans-1,3-]	41.7297	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.8	ppbv	17.2362	41.7297
MD54-18-150792	63-2009	01/30/2018	Propylbenzene[1-]	45.1968	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7	ppbv	8.35158	45.1968
MD54-18-150792	63-2009	01/30/2018	Dichlorobenzene[1,4-]	55.2823	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7	ppbv	10.2152	55.2823
MD54-18-150792	63-2009	01/30/2018	Dibromoethane[1,2-]	70.6437	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6	ppbv	12.2859	70.6437
MD54-18-150792	63-2009	01/30/2018	Butadiene[1,3-]	20.3408	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8	ppbv	3.97973	20.3408
MD54-18-150792	63-2009	01/30/2018	Chloro-1-propene[3-]	115.725	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.4	ppbv	23.145	115.725
MD54-18-150792	63-2009	01/30/2018	Dichloroethane[1,2-]	37.2134	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2	ppbv	8.89885	37.2134
MD54-18-150792	63-2009	01/30/2018	Methyl-2-pentanone[4-]	37.6646	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	5.5	ppbv	22.5169	37.6646
MD54-18-150792	63-2009	01/30/2018	Trimethylbenzene[1,3,5-]	45.1968	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6	ppbv	7.86031	45.1968
MD54-18-150792	63-2009	01/30/2018	Toluene	34.648	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.1	ppbv	4.1427	34.648
MD54-18-150792	63-2009	01/30/2018	Chlorobenzene	42.3276	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2	ppbv	10.1218	42.3276
MD54-18-150792	63-2009	01/30/2018	Tetrahydrofuran	27.1166	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6	ppbv	7.66338	27.1166
MD54-18-150792	63-2009	01/30/2018	Hexane	32.4075	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6	ppbv	9.15864	32.4075
MD54-18-150792	63-2009	01/30/2018	Cyclohexane	31.6479	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6	ppbv	8.94397	31.6479
MD54-18-150792	63-2009	01/30/2018	Trichlorobenzene[1,2,4-]	274.416	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.3	ppbv	54.1416	274.416
MD54-18-150792	63-2009	01/30/2018	Dioxane[1,4-]	133.253	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.0	ppbv	21.6087	133.253
MD54-18-150792	63-2009	01/30/2018	Chlorodibromomethane	78.3225	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.2	ppbv	18.7293	7

TA-63 Transuranic Waste Facility Vapor Monitoring System
Sampling and Analysis - Quarter 2

Field Sample ID	Location ID	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Sample Type	Lab Method	Method Detection Limit	Lab Units	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-150792	63-2009	01/30/2018	Benzene	29.3728	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8	ppbv	5.74686	29.3728
MD54-18-150792	63-2009	01/30/2018	Trichloroethane[1,1,1-]	50.1643	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1	ppbv	11.4506	50.1643
MD54-18-150792	63-2009	01/30/2018	Bromomethane	143.583	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.0	ppbv	23.2837	143.583
MD54-18-150792	63-2009	01/30/2018	Chloromethane	76.3587	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.5	ppbv	7.22312	76.3587
MD54-18-150792	63-2009	01/30/2018	Chloroethane	97.5619	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	7.4	ppbv	19.5124	97.5619
MD54-18-150792	63-2009	01/30/2018	Vinyl Chloride	23.502	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.4	ppbv	6.13096	23.502
MD54-18-150792	63-2009	01/30/2018	Methylene Chloride	128.444	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	6.1	ppbv	21.1759	128.444
MD54-18-150792	63-2009	01/30/2018	Carbon Disulfide	115.149	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.9	ppbv	12.1373	115.149
MD54-18-150792	63-2009	01/30/2018	Bromoform	95.0377	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.1	ppbv	11.3632	95.0377
MD54-18-150792	63-2009	01/30/2018	Bromodichloromethane	61.5961	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.1	ppbv	14.06	61.5961
MD54-18-150792	63-2009	01/30/2018	Dichloroethane[1,1-]	37.2134	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8	ppbv	7.28087	37.2134
MD54-18-150792	63-2009	01/30/2018	Dichloroethene[1,1-]	36.4538	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	3.6	ppbv	14.2645	36.4538
MD54-18-150792	63-2009	01/30/2018	Trichlorofluoromethane	51.6572	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.8	ppbv	10.1068	51.6572
MD54-18-150792	63-2009	01/30/2018	Dichlorodifluoromethane	45.4675	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7	ppbv	13.3437	45.4675
MD54-18-150792	63-2009	01/30/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	70.4617	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	0.98	ppbv	7.5057	70.4617
MD54-18-150792	63-2009	01/30/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	64.2735	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.7	ppbv	11.8766	64.2735
MD54-18-150792	63-2009	01/30/2018	Dichloroproppane[1,2-]	42.4893	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.7	ppbv	12.4697	42.4893
MD54-18-150792	63-2009	01/30/2018	Butanone[2-]	109.056	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	4.0	ppbv	11.7898	109.056
MD54-18-150792	63-2009	01/30/2018	Trichloroethane[1,1,2-]	50.1643	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.3	ppbv	7.08844	50.1643
MD54-18-150792	63-2009	01/30/2018	Trichloroethene	31.1488	ug/m3	J	Y	GAS	REG	GAS	EPA:TO15	3.5	ppbv	18.7967	49.4085
MD54-18-150792	63-2009	01/30/2018	Tetrachloroethane[1,1,2,2-]	63.1191	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6	ppbv	10.9772	63.1191
MD54-18-150792	63-2009	01/30/2018	Hexachlorobutadiene	394.361	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	8.8	ppbv	93.794	394.361
MD54-18-150792	63-2009	01/30/2018	Xylene[1,2-]	39.9209	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.8	ppbv	12.1498	39.9209
MD54-18-150792	63-2009	01/30/2018	Dichlorobenzene[1,2-]	55.2823	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.6	ppbv	15.6233	55.2823
MD54-18-150792	63-2009	01/30/2018	Trimethylbenzene[1,2,4-]	45.1968	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.6	ppbv	7.86031	45.1968
MD54-18-150792	63-2009	01/30/2018	Isopropylbenzene	45.1968	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	1.2	ppbv	5.89523	45.1968
MD54-18-150792	63-2009	01/30/2018	Xylene[1,3-]+Xylene[1,4-]	39.9209	ug/m3	U	N	GAS	REG	GAS	EPA:TO15	2.0	ppbv	8.67845	39.9209

Lab Qualifier: U = The analyte was analyzed for but not detected above the reported estimated quantitation limit. J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample but lower than the Report Detection Limit.

Sample Collection Logs
at TA-63 Transuranic Waste Facility – Quarter 2

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SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150784

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>	<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	OK	FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):	1004		MEDIA:	GAS
PRS ID:	TA-54		SAMPLE TECH CODE:	VOST
LOCATION ID:	63-2010		FIELD PREP:	NA
LOCATION TYPE:	BH		FIELD QC TYPE:	REG
TOP DEPTH:	6.5		SAMPLE USAGE:	INV
BOTTOM DEPTH:	7.5		EXCAVATED:	YES / NO / (NA)

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # N1275

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄ = 0% CO₂ = 3320 ppm O₂ = 20.4% VOC = 0.00 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>[Signature]</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	M. Monta <i>[Signature]</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150785

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	OK		FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):	1029			MEDIA:	GAS
PRS ID:	TA-54			SAMPLE TECH CODE:	VOST
LOCATION ID:	63-2011			FIELD PREP:	NA
LOCATION TYPE:	BH			FIELD QC TYPE:	REG
TOP DEPTH:	6.5			SAMPLE USAGE:	INV
BOTTOM DEPTH:	7.5			EXCAVATED:	YES / NO / <input checked="" type="checkbox"/> NA

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

SAMPLE COMMENTS:

Port 1

LOCATION COMMENTS:

Summa # N2509

FIELD PARAMETERS:

Sample Time

NA

HH:MM

$\text{CH}_4 = 0\%$ $\text{CO}_2 = 2200 \text{ ppm}$ $\text{O}_2 = 20.9\%$ $\text{VOC} = 0.00 \text{ ppm}$

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>Katrina Tow</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	<i>M. Mont</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150786

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1139		MEDIA:	GAS	
PRS ID:	TA-54		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	BH		FIELD QC TYPE:	REG	
TOP DEPTH:	24		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25	↓	EXCAVATED:	YES / NO / NA	NA

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # N2537

FIELD PARAMETERS:

Sample Time NA HH:MM $\text{CH}_4 = 0\%$ $\text{CO}_2 = 7410 \text{ ppm}$ $\text{O}_2 = 20.0\%$ $\text{VOC} = 0.6 \text{ ppm}$

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>[Signature]</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	Sherwood <i>[Signature]</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150787

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	0/C		FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):	1155			MEDIA:	GAS
PRS ID:	TA-54			SAMPLE TECH CODE:	VOST
LOCATION ID:	63-2012			FIELD PREP:	NA
LOCATION TYPE:	BH			FIELD QC TYPE:	REG
TOP DEPTH:	59			SAMPLE USAGE:	INV
BOTTOM DEPTH:	60			EXCAVATED:	YES / NO / <u>NA</u>

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

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 00292

FIELD PARAMETERS:

Sample Time NA HH:MM $\text{CH}_4 = 0\%$ $\text{CO}_2 = 8800 \text{ ppm}$ $\text{O}_2 = 19.8\%$ $\text{VOC} = 1.5 \text{ ppm}$

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>[Signature]</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	S. Sherwood <i>[Signature]</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150788

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	OK		FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):	1223			MEDIA:	GAS
PRS ID:	TA-54			SAMPLE TECH CODE:	VOST
LOCATION ID:	63-2013			FIELD PREP:	NA
LOCATION TYPE:	BH			FIELD QC TYPE:	REG
TOP DEPTH:	24			SAMPLE USAGE:	INV
BOTTOM DEPTH:	25	↓		EXCAVATED:	YES / NO / NA

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

SAMPLE COMMENTS:

Port 1

LOCATION COMMENTS:

Summa # N1636

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄=0% CO₂=19,600 ppm O₂=19.0% VOC=0.0 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>[Signature]</i>	Date/Time 1/30/2018 1415	RECEIVED BY (Printed Name) (Signature)	J. Sherwood <i>[Signature]</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150789

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1239		MEDIA:	GAS	
PRS ID:	TA-54		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	BH		FIELD QC TYPE:	REG	
TOP DEPTH:	59		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60	↓	EXCAVATED:	YES / NO / NA	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 2

LOCATION COMMENTS: Summa # N2504

FIELD PARAMETERS:

Sample Time NA HH:MM

CH₄ = 0% CO₂ = 13,600 ppm O₂ = 19.5% VOC = 0.2 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>K. Tow</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	S. Sherwood <i>S. Sherwood</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150790

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	OK		FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):	1030			MEDIA:	Gas
PRS ID:	TA-54			SAMPLE TECH CODE:	VOST
LOCATION ID:	UNK	63-2011		FIELD PREP:	NA
LOCATION TYPE:	BH	OK		FIELD QC TYPE:	FD
TOP DEPTH:	6.5			SAMPLE USAGE:	QC
BOTTOM DEPTH:	7.5			EXCAVATED:	YES / NO <input checked="" type="checkbox"/>

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

SAMPLE COMMENTS:

Port 1

LOCATION COMMENTS:

Summa # N1275

FIELD PARAMETERS:

Sample Time NA HH:MM

$\text{CH}_4 = 0\%$ $\text{CO}_2 = 2200 \text{ ppm}$ $\text{O}_2 = 20.9\%$ $\text{VOC} = 0.00 \text{ ppm}$

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>Katrina</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	<i>M. M. Jaramillo</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150791

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1250		MEDIA:	Nitrogen	
PRS ID:	TA-54		SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK	63-2013	FIELD PREP:	NA	
LOCATION TYPE:	NA	OK	FIELD QC TYPE:	FB	
TOP DEPTH:			SAMPLE USAGE:	QC	
BOTTOM DEPTH:	↓	↓	EXCAVATED:	YES / NO	NA

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

SAMPLE COMMENTS: QC Sample of MD54-18-150789

LOCATION COMMENTS: Summa # 13843

FIELD PARAMETERS:

Sample Time NA HH:MM

NONE

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>[Signature]</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	Sherwood <i>[Signature]</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11639

EVENT NAME: 2nd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-150792

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>	<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	1/30/2018	OK	FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):	0939		MEDIA:	GAS
PRS ID:	TA-54		SAMPLE TECH CODE:	VOST
LOCATION ID:	63-2009		FIELD PREP:	NA
LOCATION TYPE:	Btt		FIELD QC TYPE:	REG
TOP DEPTH:	6.5		SAMPLE USAGE:	INV
BOTTOM DEPTH:	7.5	↓	EXCAVATED:	YES / NO / NA

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

SAMPLE COMMENTS:

Port 1

LOCATION COMMENTS:

Summa # N2836

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 4810 ppm O₂ = 20.1 % VOC = 0.0 ppm

COLLECTED BY (PRINT): D. Jaramillo

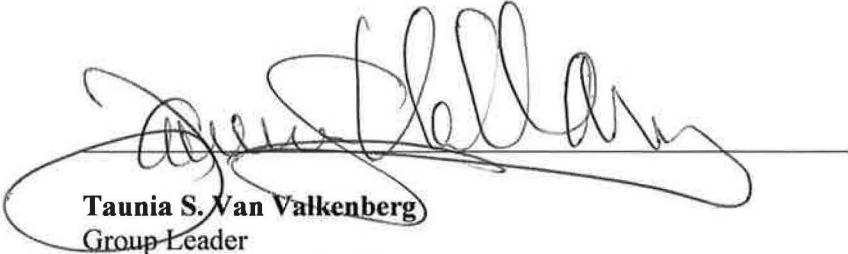
RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow <i>Katrina</i>	Date/Time 1/30/18 1415	RECEIVED BY (Printed Name) (Signature)	M. Martin <i>M. Martin</i>	Date/Time 1/30/18 1415
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

CERTIFICATION

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CERTIFICATION

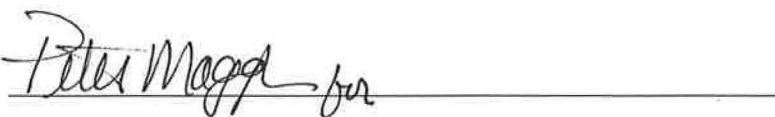
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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.



Taunia S. Van Valkenberg
Group Leader
Compliance Protection Group
Environmental Protection Division
Los Alamos National Laboratory

3/29/2018

Date Signed



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

3/29/2018

Date Signed

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