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Date: JUN 2 8 2018
Symbol: EPC-DO: 18-245
LA-UR: LA-UR-18-25633
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 3, Los Alamos National Laboratory EPA ID #NM0890010515**

Dear Mr. Kieling:

The United States Department of Energy (DOE) National Nuclear Security Administration, Los Alamos Field Office (NA-LA) and the Los Alamos National Security, LLC (LANS) 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 third 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 discussion of the history and findings for the third quarter, 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, a quarterly data comparison table and sample collection 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 for the third quarter 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 analytical results for the sampling event. Table 3 is a comparison table of the detected constituents for the three quarters of sampling currently collected for the soil vapor monitoring wells. This additional table was requested in the 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,*" from NMED-HWB dated May 23, 2018. A report certification is included with this submittal in compliance with Permit Section 1.9.16. A compact disc with copies of this submittal and the analytical data in 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 NA-LA at (505) 665-7314 or Patrick L. Padilla, LANS, at (505) 667-3932.

Sincerely,

Enrique Torres
Division Leader
Environmental Protection and Compliance Division
Los Alamos National Security, LLC

Sincerely,

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

KEA/ET/TAD/PLP/GAB;kr

Enclosure: 1) TA-63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 3, Los Alamos National Laboratory

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The enclosure to this report includes a discussion of the history and findings for the third quarter, 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, a quarterly data comparison table and sample collection 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 for the third quarter 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

ENCLOSURE 1

TA-63 Transuranic Waste Facility
Soil Vapor Monitoring System Report
Quarter 3
Los Alamos National Laboratory

EPC-DO-18-245

LAUR-18-25633
Unclassified

Date: JUN 2 8 2018

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TA-63 TRANSURANIC WASTE FACILITY
SOIL VAPOR MONITORING SYSTEM REPORT
QUARTER 3
LOS ALAMOS NATIONAL LABORATORY

I. Introduction

This report describes the third quarterly sampling of a soil vapor monitoring system for the Technical Area (TA)-63 Transuranic Waste Facility (TWF) at Los Alamos National Laboratory (LANL). Construction of the TWF was approved by the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) as a modification to the LANL Hazardous Waste Facility Permit (Permit) on December 23, 2013. The Permit contains conditions for hazardous waste management activities at LANL necessary to protect human health and the environment. The permit modification included requirements for monitoring subsurface vapors to prevent worker exposure to potentially harmful levels of volatile organic compounds (VOCs) at the TWF (Permit Section 3.14.3 and Attachment A.6.10). The monitoring network was constructed to meet the Permit conditions and sampling and analysis for the third quarter of waste management operations at TWF 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. In response to the Permit, a subsurface vapor monitoring network was installed in 2015 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 (LANL Structure Number 63-2009) and VMW-2 (63-2010) in Figure 56 of Attachment N, *Figures*, of the Permit (see Figure 1 of this submittal). A third monitoring well within the permitted unit is located at a point on the western edge of the unit close to the utility corridor on Pajarito Road, as depicted by location VMW-3 (64-2011) 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 (63-2012) and VMW-5 (63-2013) 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 May 1, 2018 for the third quarter of waste management operations at the TA-63 TWF. 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 at the 60 foot depth contain the highest concentrations for each well at 9.3% and 1.7% 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 VOC 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 on October 29, 2015 (LANL, 2015). Results for the first quarter of waste management operations at the TWF were presented on December 21, 2017 (LANL, 2017). Results for the

second quarter of waste management operations at the TWF were presented on March 30, 2018 (LANL, 2018). In reply to a subsequent comment letter from NMED-HWB dated May 23, 2018 (NMED, 2018), an additional Table 3 is included in this report showing the current and previous quarterly soil gas screening level results at the facility for tracking purposes. The sampling results reported herein for the third 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.

References

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

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

LANL, 2018. *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.

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.

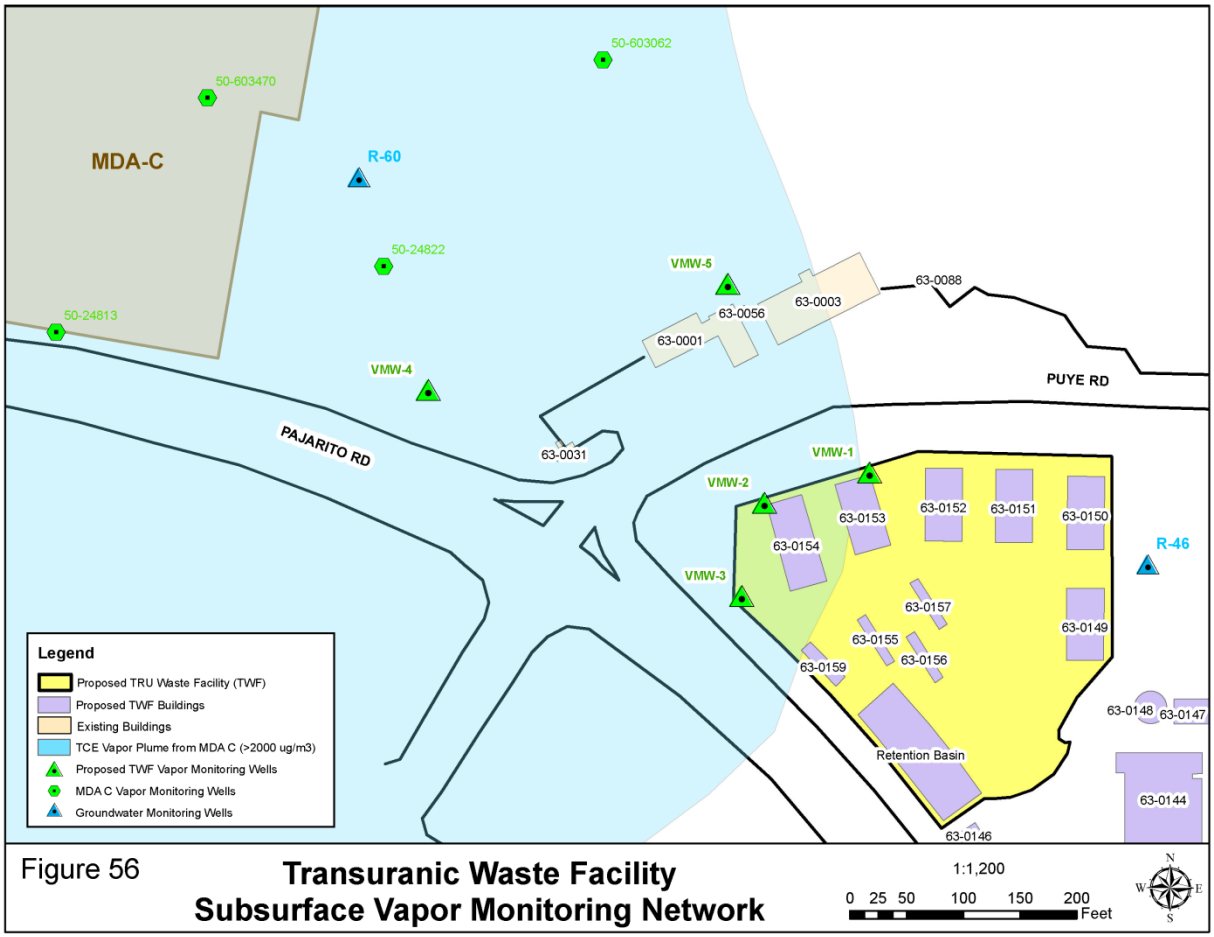

Figure 1

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 3

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Table 1: Detected volatile organic compounds
at TA-63 Transuranic Waste Facility Soil Vapor Monitoring System– Quarter 3

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	MD54-18-154816	5	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	8.18	J	49.1	4.86E+07	<0.1
			Trichloroethene	Trichloroethylene	48.3		48.3	1.94E+04	0.2
VMW-2 63-2010	MD54-18-154817	5	Trichloroethene	Trichloroethylene	129		52.6	1.94E+04	0.7
VMW-3 63-2011	MD54-18-154818	5	Trichloroethene	Trichloroethylene	96.7		64.4	1.94E+04	0.5
VMW-4 63-2012	MD54-18-154819	25	Tetrachloroethene	Tetrachloroethylene	34.6	J	67.8	2.63E+06	<0.1
			Carbon tetrachloride	Carbon tetrachloride	48.4	J	62.9	1.06E+05	<0.1
			Chloroform	Chloroform	107		48.8	2.30E+04	0.5
			Dichlorodifluoromethane	Dichlorodifluoromethane	84.0		49.4	2.61E+06	<0.1
			Trichloroethene	Trichloroethylene	3437		53.7	1.57E+05	2.2
VMW-4 63-2012	MD54-18-154820	60	Tetrachloroethene	Tetrachloroethylene	88.1		67.8	2.05E+06	<0.1
			Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	25.8	J	39.6	2.91E+06	<0.1
			Carbon tetrachloride	Carbon tetrachloride	113		62.9	2.13E+05	<0.1
			Chloroform	Chloroform	244		48.8	4.44E+04	0.5
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	14.2	J	54.5	2.34E+08	<0.1
			Trichlorofluoromethane	Trichlorofluoromethane	6.74	J	56.1	3.01E+07	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	148		49.4	5.38E+06	<0.1
			Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	29.9	J	76.6	1.38E+09	<0.1
			Trichloroethene	Trichloroethylene	8593		53.7	9.27E+04	9.3
VMW-5 63-2013	MD54-18-154821	25	Chloroform	Chloroform	26.3	J	48.8	2.30E+04	0.1
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	20.2	J	54.5	1.16E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	42.0	J	49.4	2.61E+06	<0.1
			Trichloroethene	Trichloroethylene	414		53.7	1.57E+05	0.3
VMW-5 63-2013	MD54-18-154822	60	Tetrachloroethene	Tetrachloroethylene	15.6	J	61.0	2.05E+05	<0.1
			Carbon Tetrachloride	Carbon tetrachloride	10.7	J	56.6	2.13E+05	<0.1
			Chloroform	Chloroform	22.9	J	43.9	4.44E+04	<0.1

Table 1: Detected volatile organic compounds
at TA-63 Transuranic Waste Facility Soil Vapor Monitoring System– Quarter 3

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 (%)
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	47.4	J	49.1	2.34E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	69.2		44.5	5.38E+06	<0.1
			Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	19.9	J	68.9	1.38E+09	<0.1
			Trichloroethene	Trichloroethylene	1557		48.3	9.27E+04	1.7
VMW-4 63-2012	MD54-18-154823 Field Duplicate	25	Tetrachloroethene	Tetrachloroethylene	32.5	J	88.1	2.63E+06	<0.1
			Carbon tetrachloride	Carbon tetrachloride	56.6	J	81.7	1.06E+05	<0.1
			Chloroform	Chloroform	112		63.4	2.30E+04	0.5
			Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	12.5	J	70.9	1.16E+08	<0.1
			Dichlorodifluoromethane	Dichlorodifluoromethane	74.1		64.2	2.61E+06	<0.1
			Trichloroethene	Trichloroethylene	3276		69.8	1.57E+05	2.1
VMW-5 63-2013	MD54-18-154824 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 3

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TA-63 Transuranic Waste Facility Vapor Monitoring System
Sampling and Analysis - Quarter 3

Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154816	63-2009	05/01/2018	Ethylbenzene	39.0567	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.94342	39.0567
MD54-18-154816	63-2009	05/01/2018	Styrene	38.3136	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	2.97995	38.3136
MD54-18-154816	63-2009	05/01/2018	Benzyl Chloride	46.5649	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.72519	46.5649
MD54-18-154816	63-2009	05/01/2018	Dichloropropene[cis-1,3-]	40.8225	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.443	40.8225
MD54-18-154816	63-2009	05/01/2018	Dichloropropene[trans-1,3-]	40.8225	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.30904	40.8225
MD54-18-154816	63-2009	05/01/2018	Propylbenzene[1-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.47055	44.2142
MD54-18-154816	63-2009	05/01/2018	Dichlorobenzene[1,4-]	54.0805	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.4251	54.0805
MD54-18-154816	63-2009	05/01/2018	Dibromoethane[1,2-]	69.108	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.60543	69.108
MD54-18-154816	63-2009	05/01/2018	Butadiene[1,3-]	19.8987	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.20083	19.8987
MD54-18-154816	63-2009	05/01/2018	Chloro-1-propene[3-]	112.598	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	21.5812	112.598
MD54-18-154816	63-2009	05/01/2018	Dichloroethane[1,2-]	36.4044	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.85392	36.4044
MD54-18-154816	63-2009	05/01/2018	Methyl-2-pentanone[4-]	36.8458	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.09398	36.8458
MD54-18-154816	63-2009	05/01/2018	Trimethylbenzene[1,3,5-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.14412	44.2142
MD54-18-154816	63-2009	05/01/2018	Toluene	33.8948	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.76609	33.8948
MD54-18-154816	63-2009	05/01/2018	Chlorobenzene	41.4074	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.0609	41.4074
MD54-18-154816	63-2009	05/01/2018	Tetrahydrofuran	26.5271	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	2.94745	26.5271
MD54-18-154816	63-2009	05/01/2018	Hexane	31.703	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.69286	31.703
MD54-18-154816	63-2009	05/01/2018	Cyclohexane	30.9599	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.84798	30.9599
MD54-18-154816	63-2009	05/01/2018	Trichlorobenzene[1,2,4-]	267	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	22.25	267
MD54-18-154816	63-2009	05/01/2018	Dioxane[1,4-]	129.652	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.7239	129.652
MD54-18-154816	63-2009	05/01/2018	Chlorodibromomethane	76.6199	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.0673	76.6199
MD54-18-154816	63-2009	05/01/2018	Tetrachloroethene	61.0038	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.42256	61.0038
MD54-18-154816	63-2009	05/01/2018	n-Heptane	36.8605	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91474	36.8605
MD54-18-154816	63-2009	05/01/2018	Dichloroethene[cis-1,2-]	35.6613	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.94355	35.6613
MD54-18-154816	63-2009	05/01/2018	Dichloroethene[trans-1,2-]	35.6613	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.90591	35.6613
MD54-18-154816	63-2009	05/01/2018	Methyl tert-Butyl Ether	32.4277	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.40462	32.4277
MD54-18-154816	63-2009	05/01/2018	Isooctane	42.0217	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.13599	42.0217
MD54-18-154816	63-2009	05/01/2018	Dichlorobenzene[1,3-]	54.0805	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.21073	54.0805
MD54-18-154816	63-2009	05/01/2018	Carbon Tetrachloride	56.5857	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.17349	56.5857
MD54-18-154816	63-2009	05/01/2018	Hexanone[2-]	147.383	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14.3289	147.383
MD54-18-154816	63-2009	05/01/2018	Ethyltoluene[4-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.24238	44.2142
MD54-18-154816	63-2009	05/01/2018	Ethanol	67.791	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.7336	67.791
MD54-18-154816	63-2009	05/01/2018	Propanol[2-]	88.4358	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.58055	88.4358
MD54-18-154816	63-2009	05/01/2018	Acetone	85.4635	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.9203	85.4635
MD54-18-154816	63-2009	05/01/2018	Chloroform	43.9163	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.83142	43.9163
MD54-18-154816	63-2009	05/01/2018	Benzene	28.7343	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.83124	28.7343
MD54-18-154816	63-2009	05/01/2018	Trichloroethane[1,1,1-]	8.17897	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.34359	49.0738
MD54-18-154816	63-2009	05/01/2018	Bromomethane	139.702	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14.3583	139.702
MD54-18-154816	63-2009	05/01/2018	Chloromethane	74.2949	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.1761	74.2949
MD54-18-154816	63-2009	05/01/2018	Chloroethane	94.9251	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19.5124	94.9251
MD54-18-154816	63-2009	05/01/2018	Vinyl Chloride	22.9911	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.34277	22.9911
MD54-18-154816	63-2009	05/01/2018	Methylene Chloride	124.973	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18.0516	124.973
MD54-18-154816	63-2009	05/01/2018	Carbon Disulfide	112.037	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13.6934	112.037
MD54-18-154816	63-2009	05/01/2018	Bromoform	92.9717	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.74764	92.9717
MD54-18-154816	63-2009	05/01/2018	Bromodichloromethane	60.257	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.81628	60.257
MD54-18-154816	63-2009	05/01/2018	Dichloroethane[1,1-]	36.4044	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.04493	36.4044
MD54-18-154816	63-2009	05/01/2018	Dichloroethene[1,1-]	35.6613	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.3586	35.6613
MD54-18-154816	63-2009	05/01/2018	Trichlorofluoromethane	50.5342	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.82883	50.5342
MD54-18-154816	63-2009	05/01/2018	Dichlorodifluoromethane	44.4791	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.93055	44.4791
MD54-18-154816	63-2009	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	68.9299	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.95655	68.9299
MD54-18-154816	63-2009	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	62.8763	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.78075	62.8763
MD54-18-154816	63-2009	05/01/2018	Dichloropropane[1,2-]	41.5656	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.46576	41.5656
MD54-18-154816	63-2009	05/01/2018	Butanone[2-]	106.108	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18.2742	106.108
MD54-18-154816	63-2009	05/01/2018	Trichloroethane[1,1,2-]	49.0738	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.54317	49.0738
MD54-18-154816	63-2009	05/01/2018	Trichloroethene	48.3344	ug/m3		Y	GAS	REG	VOC	EPA:TO15	6.98163	48.3344
MD54-18-154816	63-2009	05/01/2018	Tetrachloroethane[1,1,2,2-]	61.7469	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.919	61.7469
MD54-18-154816	63-2009	05/01/2018	Hexachlorobutadiene	383.703	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	37.3044	383.703

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154816	63-2009	05/01/2018	Xylene[1,2-]	39.053	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.94276	39.053
MD54-18-154816	63-2009	05/01/2018	Dichlorobenzene[1,2-]	54.0805	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.92734	54.0805
MD54-18-154816	63-2009	05/01/2018	Trimethylbenzene[1,2,4-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.58627	44.2142
MD54-18-154816	63-2009	05/01/2018	Isopropylbenzene	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.24238	44.2142
MD54-18-154816	63-2009	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	39.053	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.77315	39.053
MD54-18-154817	63-2010	05/01/2018	Ethylbenzene	42.5284	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.37738	42.5284
MD54-18-154817	63-2010	05/01/2018	Styrene	41.7193	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.23537	41.7193
MD54-18-154817	63-2010	05/01/2018	Benzyl Chloride	50.704	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.03563	50.704
MD54-18-154817	63-2010	05/01/2018	Dichloropropene[cis-1,3-]	44.4512	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.35016	44.4512
MD54-18-154817	63-2010	05/01/2018	Dichloropropene[trans-1,3-]	44.4512	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.53583	44.4512
MD54-18-154817	63-2010	05/01/2018	Propylbenzene[1-]	48.1444	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91269	48.1444
MD54-18-154817	63-2010	05/01/2018	Dichlorobenzene[1,4-]	58.8877	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.78564	58.8877
MD54-18-154817	63-2010	05/01/2018	Dibromoethane[1,2-]	75.2509	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.14293	75.2509
MD54-18-154817	63-2010	05/01/2018	Butadiene[1,3-]	21.6674	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.42192	21.6674
MD54-18-154817	63-2010	05/01/2018	Chloro-1-propene[3-]	121.981	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	23.4578	121.981
MD54-18-154817	63-2010	05/01/2018	Dichloroethane[1,2-]	39.6403	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6629	39.6403
MD54-18-154817	63-2010	05/01/2018	Methyl-2-pentanone[4-]	40.121	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.50338	40.121
MD54-18-154817	63-2010	05/01/2018	Trimethylbenzene[1,3,5-]	48.1444	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.43889	48.1444
MD54-18-154817	63-2010	05/01/2018	Toluene	36.9077	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.51931	36.9077
MD54-18-154817	63-2010	05/01/2018	Chlorobenzene	45.0881	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.52099	45.0881
MD54-18-154817	63-2010	05/01/2018	Tetrahydrofuran	28.885	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.53694	28.885
MD54-18-154817	63-2010	05/01/2018	Hexane	34.521	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.04511	34.521
MD54-18-154817	63-2010	05/01/2018	Cyclohexane	33.7119	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.53598	33.7119
MD54-18-154817	63-2010	05/01/2018	Trichlorobenzene[1,2,4-]	289.25	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	24.475	289.25
MD54-18-154817	63-2010	05/01/2018	Dioxane[1,4-]	140.456	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.8043	140.456
MD54-18-154817	63-2010	05/01/2018	Chlorodibromomethane	83.4305	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.9186	83.4305
MD54-18-154817	63-2010	05/01/2018	Tetrachloroethene	66.4264	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.96482	66.4264
MD54-18-154817	63-2010	05/01/2018	n-Heptane	40.137	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.3243	40.137
MD54-18-154817	63-2010	05/01/2018	Dichloroethene[cis-1,2-]	38.8312	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.33978	38.8312
MD54-18-154817	63-2010	05/01/2018	Dichloroethene[trans-1,2-]	38.8312	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.6984	38.8312
MD54-18-154817	63-2010	05/01/2018	Methyl tert-Butyl Ether	35.3102	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.12523	35.3102
MD54-18-154817	63-2010	05/01/2018	Isooctane	45.757	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6029	45.757
MD54-18-154817	63-2010	05/01/2018	Dichlorobenzene[1,3-]	58.8877	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.81163	58.8877
MD54-18-154817	63-2010	05/01/2018	Carbon Tetrachloride	61.6155	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.43095	61.6155
MD54-18-154817	63-2010	05/01/2018	Hexanone[2-]	159.665	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.5571	159.665
MD54-18-154817	63-2010	05/01/2018	Ethyltoluene[4-]	48.1444	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.53714	48.1444
MD54-18-154817	63-2010	05/01/2018	Ethanol	73.4403	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.8634	73.4403
MD54-18-154817	63-2010	05/01/2018	Propanol[2-]	95.8055	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.5632	95.8055
MD54-18-154817	63-2010	05/01/2018	Acetone	92.5854	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.1073	92.5854
MD54-18-154817	63-2010	05/01/2018	Chloroform	47.8199	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.31938	47.8199
MD54-18-154817	63-2010	05/01/2018	Benzene	31.2885	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.46978	31.2885
MD54-18-154817	63-2010	05/01/2018	Trichloroethane[1,1,1-]	53.4359	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.99791	53.4359
MD54-18-154817	63-2010	05/01/2018	Bromomethane	151.344	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.5225	151.344
MD54-18-154817	63-2010	05/01/2018	Chloromethane	80.4862	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13.4144	80.4862
MD54-18-154817	63-2010	05/01/2018	Chloroethane	102.835	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	21.3581	102.835
MD54-18-154817	63-2010	05/01/2018	Vinyl Chloride	25.0348	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.85368	25.0348
MD54-18-154817	63-2010	05/01/2018	Methylene Chloride	135.387	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19.7873	135.387
MD54-18-154817	63-2010	05/01/2018	Carbon Disulfide	121.373	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.2495	121.373
MD54-18-154817	63-2010	05/01/2018	Bromoform	101.236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.47075	101.236
MD54-18-154817	63-2010	05/01/2018	Bromodichloromethane	65.6132	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.21799	65.6132
MD54-18-154817	63-2010	05/01/2018	Dichloroethane[1,1-]	39.6403	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.44942	39.6403
MD54-18-154817	63-2010	05/01/2018	Dichloroethene[1,1-]	38.8312	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.75484	38.8312
MD54-18-154817	63-2010	05/01/2018	Trichlorofluoromethane	55.0262	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.27802	55.0262
MD54-18-154817	63-2010	05/01/2018	Dichlorodifluoromethane	48.4328	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.91897	48.4328
MD54-18-154817	63-2010	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	75.057	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.4883	75.057
MD54-18-154817	63-2010	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	68.4653	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.178	68.4653
MD54-18-154817	63-2010	05/01/2018	Dichloropropane[1,2-]	45.2603	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9276	45.2603

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154817	63-2010	05/01/2018	Butanone[2-]	114.951	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20.0427	114.951
MD54-18-154817	63-2010	05/01/2018	Trichloroethane[1,1,2-]	53.4359	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.08844	53.4359
MD54-18-154817	63-2010	05/01/2018	Trichloroethene	128.892	ug/m3		Y	GAS	REG	VOC	EPA:TO15	7.51868	52.6308
MD54-18-154817	63-2010	05/01/2018	Tetrachloroethane[1,1,2,2-]	67.2355	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.60507	67.2355
MD54-18-154817	63-2010	05/01/2018	Hexachlorobutadiene	415.678	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	40.502	415.678
MD54-18-154817	63-2010	05/01/2018	Xylene[1,2-]	42.5244	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.37669	42.5244
MD54-18-154817	63-2010	05/01/2018	Dichlorobenzene[1,2-]	58.8877	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.40805	58.8877
MD54-18-154817	63-2010	05/01/2018	Trimethylbenzene[1,2,4-]	48.1444	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.93016	48.1444
MD54-18-154817	63-2010	05/01/2018	Isopropylbenzene	48.1444	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.53714	48.1444
MD54-18-154817	63-2010	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	42.5244	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.20707	42.5244
MD54-18-154818	63-2011	05/01/2018	Ethylbenzene	52.0756	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.67927	52.0756
MD54-18-154818	63-2011	05/01/2018	Styrene	51.0848	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.83136	51.0848
MD54-18-154818	63-2011	05/01/2018	Benzyl Chloride	62.0866	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.75997	62.0866
MD54-18-154818	63-2011	05/01/2018	Dichloropropene[cis-1,3-]	54.43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.25733	54.43
MD54-18-154818	63-2011	05/01/2018	Dichloropropene[trans-1,3-]	54.43	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.443	54.43
MD54-18-154818	63-2011	05/01/2018	Propylbenzene[1-]	58.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.89523	58.9523
MD54-18-154818	63-2011	05/01/2018	Dichlorobenzene[1,4-]	72.1073	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.44662	72.1073
MD54-18-154818	63-2011	05/01/2018	Dibromoethane[1,2-]	92.144	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.21794	92.144
MD54-18-154818	63-2011	05/01/2018	Butadiene[1,3-]	26.5315	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.30631	26.5315
MD54-18-154818	63-2011	05/01/2018	Chloro-1-propene[3-]	143.875	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	27.5238	143.875
MD54-18-154818	63-2011	05/01/2018	Dichloroethane[1,2-]	48.5392	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.47189	48.5392
MD54-18-154818	63-2011	05/01/2018	Methyl-2-pentanone[4-]	49.1278	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.32217	49.1278
MD54-18-154818	63-2011	05/01/2018	Trimethylbenzene[1,3,5-]	58.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.07754	58.9523
MD54-18-154818	63-2011	05/01/2018	Toluene	45.1931	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.27252	45.1931
MD54-18-154818	63-2011	05/01/2018	Chlorobenzene	55.2099	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.44115	55.2099
MD54-18-154818	63-2011	05/01/2018	Tetrahydrofuran	35.3694	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.12643	35.3694
MD54-18-154818	63-2011	05/01/2018	Hexane	42.2707	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.45413	42.2707
MD54-18-154818	63-2011	05/01/2018	Cyclohexane	41.2799	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.56798	41.2799
MD54-18-154818	63-2011	05/01/2018	Trichlorobenzene[1,2,4-]	341.166	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	28.925	341.166
MD54-18-154818	63-2011	05/01/2018	Dioxane[1,4-]	165.666	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.6051	165.666
MD54-18-154818	63-2011	05/01/2018	Chlorodibromomethane	102.16	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13.6213	102.16
MD54-18-154818	63-2011	05/01/2018	Tetrachloroethene	81.3384	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.7782	81.3384
MD54-18-154818	63-2011	05/01/2018	n-Heptane	49.1474	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.14342	49.1474
MD54-18-154818	63-2011	05/01/2018	Dichloroethene[cis-1,2-]	47.5484	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.52849	47.5484
MD54-18-154818	63-2011	05/01/2018	Dichloroethene[trans-1,2-]	47.5484	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.6796	47.5484
MD54-18-154818	63-2011	05/01/2018	Methyl tert-Butyl Ether	43.2369	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.20616	43.2369
MD54-18-154818	63-2011	05/01/2018	Isooctane	56.029	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.53672	56.029
MD54-18-154818	63-2011	05/01/2018	Dichlorobenzene[1,3-]	72.1073	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.01342	72.1073
MD54-18-154818	63-2011	05/01/2018	Carbon Tetrachloride	75.4476	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.6884	75.4476
MD54-18-154818	63-2011	05/01/2018	Hexanone[2-]	188.323	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18.4229	188.323
MD54-18-154818	63-2011	05/01/2018	Ethyltoluene[4-]	58.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.17579	58.9523
MD54-18-154818	63-2011	05/01/2018	Ethanol	86.6218	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13.9348	86.6218
MD54-18-154818	63-2011	05/01/2018	Propanol[2-]	113.001	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.5284	113.001
MD54-18-154818	63-2011	05/01/2018	Acetone	109.203	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14.2439	109.203
MD54-18-154818	63-2011	05/01/2018	Chloroform	58.555	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.78325	58.555
MD54-18-154818	63-2011	05/01/2018	Benzene	38.3124	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.10832	38.3124
MD54-18-154818	63-2011	05/01/2018	Trichloroethane[1,1,1-]	65.4317	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.08844	65.4317
MD54-18-154818	63-2011	05/01/2018	Bromomethane	178.508	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18.2389	178.508
MD54-18-154818	63-2011	05/01/2018	Chloromethane	94.9324	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.6845	94.9324
MD54-18-154818	63-2011	05/01/2018	Chloroethane	121.293	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	25.0497	121.293
MD54-18-154818	63-2011	05/01/2018	Vinyl Chloride	30.6548	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.62005	30.6548
MD54-18-154818	63-2011	05/01/2018	Methylene Chloride	159.687	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	23.2588	159.687
MD54-18-154818	63-2011	05/01/2018	Carbon Disulfide	143.158	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	17.7392	143.158
MD54-18-154818	63-2011	05/01/2018	Bromoform	123.962	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.0203	123.962
MD54-18-154818	63-2011	05/01/2018	Bromodichloromethane	80.3427	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.95447	80.3427
MD54-18-154818	63-2011	05/01/2018	Dichloroethane[1,1-]	48.5392	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.25841	48.5392
MD54-18-154818	63-2011	05/01/2018	Dichloroethene[1,1-]	47.5484	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.54731	47.5484

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154818	63-2011	05/01/2018	Trichlorofluoromethane	67.379	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.17641	67.379
MD54-18-154818	63-2011	05/01/2018	Dichlorodifluoromethane	59.3055	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.9074	59.3055
MD54-18-154818	63-2011	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	91.9066	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13.0201	91.9066
MD54-18-154818	63-2011	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	83.835	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.5753	83.835
MD54-18-154818	63-2011	05/01/2018	Dichloropropane[1,2-]	55.4208	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.85128	55.4208
MD54-18-154818	63-2011	05/01/2018	Butanone[2-]	135.583	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	23.5796	135.583
MD54-18-154818	63-2011	05/01/2018	Trichloroethane[1,1,2-]	65.4317	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.17897	65.4317
MD54-18-154818	63-2011	05/01/2018	Trichloroethene	96.6688	ug/m3		Y	GAS	REG	VOC	EPA:TO15	9.12983	64.4458
MD54-18-154818	63-2011	05/01/2018	Tetrachloroethane[1,1,2,2-]	82.3292	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.9772	82.3292
MD54-18-154818	63-2011	05/01/2018	Hexachlorobutadiene	490.287	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	47.9628	490.287
MD54-18-154818	63-2011	05/01/2018	Xylene[1,2-]	52.0707	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.67845	52.0707
MD54-18-154818	63-2011	05/01/2018	Dichlorobenzene[1,2-]	72.1073	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.00894	72.1073
MD54-18-154818	63-2011	05/01/2018	Trimethylbenzene[1,2,4-]	58.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.61793	58.9523
MD54-18-154818	63-2011	05/01/2018	Isopropylbenzene	58.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.17579	58.9523
MD54-18-154818	63-2011	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	52.0707	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.07492	52.0707
MD54-18-154819	63-2012	05/01/2018	Ethylbenzene	43.3963	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.81134	43.3963
MD54-18-154819	63-2012	05/01/2018	Styrene	42.5707	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.40565	42.5707
MD54-18-154819	63-2012	05/01/2018	Benzyl Chloride	51.7388	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.24258	51.7388
MD54-18-154819	63-2012	05/01/2018	Dichloropropene[cis-1,3-]	45.3583	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.35016	45.3583
MD54-18-154819	63-2012	05/01/2018	Dichloropropene[trans-1,3-]	45.3583	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.98942	45.3583
MD54-18-154819	63-2012	05/01/2018	Propylbenzene[1-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91269	49.1269
MD54-18-154819	63-2012	05/01/2018	Dichlorobenzene[1,4-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.9659	60.0895
MD54-18-154819	63-2012	05/01/2018	Dibromoethane[1,2-]	76.7866	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.45008	76.7866
MD54-18-154819	63-2012	05/01/2018	Butadiene[1,3-]	22.1096	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.64302	22.1096
MD54-18-154819	63-2012	05/01/2018	Chloro-1-propene[3-]	128.236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	24.7089	128.236
MD54-18-154819	63-2012	05/01/2018	Dichloroethane[1,2-]	40.4493	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6629	40.4493
MD54-18-154819	63-2012	05/01/2018	Methyl-2-pentanone[4-]	40.9398	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91278	40.9398
MD54-18-154819	63-2012	05/01/2018	Trimethylbenzene[1,3,5-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.63539	49.1269
MD54-18-154819	63-2012	05/01/2018	Toluene	37.6609	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.51931	37.6609
MD54-18-154819	63-2012	05/01/2018	Chlorobenzene	46.0082	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.98107	46.0082
MD54-18-154819	63-2012	05/01/2018	Tetrahydrofuran	29.4745	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.53694	29.4745
MD54-18-154819	63-2012	05/01/2018	Hexane	35.2256	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.74962	35.2256
MD54-18-154819	63-2012	05/01/2018	Cyclohexane	34.3999	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.87998	34.3999
MD54-18-154819	63-2012	05/01/2018	Trichlorobenzene[1,2,4-]	304.083	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	25.9583	304.083
MD54-18-154819	63-2012	05/01/2018	Dioxane[1,4-]	147.659	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.1645	147.659
MD54-18-154819	63-2012	05/01/2018	Chlorodibromomethane	85.1332	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.77	85.1332
MD54-18-154819	63-2012	05/01/2018	Tetrachloroethene	34.5688	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	6.30373	67.782
MD54-18-154819	63-2012	05/01/2018	n-Heptane	40.9561	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.3243	40.9561
MD54-18-154819	63-2012	05/01/2018	Dichloroethene[cis-1,2-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.73602	39.6236
MD54-18-154819	63-2012	05/01/2018	Dichloroethene[trans-1,2-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.0946	39.6236
MD54-18-154819	63-2012	05/01/2018	Methyl tert-Butyl Ether	36.0308	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.48554	36.0308
MD54-18-154819	63-2012	05/01/2018	Isooctane	46.6908	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6029	46.6908
MD54-18-154819	63-2012	05/01/2018	Dichlorobenzene[1,3-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.41252	60.0895
MD54-18-154819	63-2012	05/01/2018	Carbon Tetrachloride	48.4122	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	9.43095	62.873
MD54-18-154819	63-2012	05/01/2018	Hexanone[2-]	167.853	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	16.3759	167.853
MD54-18-154819	63-2012	05/01/2018	Ethyltoluene[4-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.73365	49.1269
MD54-18-154819	63-2012	05/01/2018	Ethanol	77.2064	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.4284	77.2064
MD54-18-154819	63-2012	05/01/2018	Propanol[2-]	100.719	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.0545	100.719
MD54-18-154819	63-2012	05/01/2018	Acetone	97.3334	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.5821	97.3334
MD54-18-154819	63-2012	05/01/2018	Chloroform	107.351	ug/m3		Y	GAS	REG	VOC	EPA:TO15	7.80734	48.7959
MD54-18-154819	63-2012	05/01/2018	Benzene	31.927	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.46978	31.927
MD54-18-154819	63-2012	05/01/2018	Trichloroethane[1,1,1-]	54.5264	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.99791	54.5264
MD54-18-154819	63-2012	05/01/2018	Bromomethane	159.105	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	16.2986	159.105
MD54-18-154819	63-2012	05/01/2018	Chloromethane	84.6137	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14.0335	84.6137
MD54-18-154819	63-2012	05/01/2018	Chloroethane	108.109	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	22.4129	108.109
MD54-18-154819	63-2012	05/01/2018	Vinyl Chloride	25.5457	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.10914	25.5457
MD54-18-154819	63-2012	05/01/2018	Methylene Chloride	142.33	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20.8288	142.33

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154819	63-2012	05/01/2018	Carbon Disulfide	127.598	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.8719	127.598
MD54-18-154819	63-2012	05/01/2018	Bromoform	103.302	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.88396	103.302
MD54-18-154819	63-2012	05/01/2018	Bromodichloromethane	66.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.41885	66.9523
MD54-18-154819	63-2012	05/01/2018	Dichloroethane[1,1-]	40.4493	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.85392	40.4493
MD54-18-154819	63-2012	05/01/2018	Dichloroethene[1,1-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.75484	39.6236
MD54-18-154819	63-2012	05/01/2018	Trichlorofluoromethane	56.1492	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.55877	56.1492
MD54-18-154819	63-2012	05/01/2018	Dichlorodifluoromethane	84.0161	ug/m3		Y	GAS	REG	VOC	EPA:TO15	6.91897	49.4212
MD54-18-154819	63-2012	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	76.5888	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.4883	76.5888
MD54-18-154819	63-2012	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	69.8625	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.178	69.8625
MD54-18-154819	63-2012	05/01/2018	Dichloropropane[1,2-]	46.184	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.38944	46.184
MD54-18-154819	63-2012	05/01/2018	Butanone[2-]	120.846	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20.9269	120.846
MD54-18-154819	63-2012	05/01/2018	Trichloroethane[1,1,2-]	54.5264	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.08844	54.5264
MD54-18-154819	63-2012	05/01/2018	Trichloroethene	3437.11	ug/m3		Y	GAS	REG	VOC	EPA:TO15	8.05573	53.7049
MD54-18-154819	63-2012	05/01/2018	Tetrachloroethane[1,1,2,2-]	68.6077	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.2912	68.6077
MD54-18-154819	63-2012	05/01/2018	Hexachlorobutadiene	436.995	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	42.6336	436.995
MD54-18-154819	63-2012	05/01/2018	Xylene[1,2-]	43.3923	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.81061	43.3923
MD54-18-154819	63-2012	05/01/2018	Dichlorobenzene[1,2-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.7085	60.0895
MD54-18-154819	63-2012	05/01/2018	Trimethylbenzene[1,2,4-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.12666	49.1269
MD54-18-154819	63-2012	05/01/2018	Isopropylbenzene	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.73365	49.1269
MD54-18-154819	63-2012	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	43.3923	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.64099	43.3923
MD54-18-154820	63-2012	05/01/2018	Ethylbenzene	43.3963	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.81134	43.3963
MD54-18-154820	63-2012	05/01/2018	Styrene	42.5707	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.32051	42.5707
MD54-18-154820	63-2012	05/01/2018	Benzyl Chloride	51.7388	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.13911	51.7388
MD54-18-154820	63-2012	05/01/2018	Dichloropropene[cis-1,3-]	45.3583	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.35016	45.3583
MD54-18-154820	63-2012	05/01/2018	Dichloropropene[trans-1,3-]	45.3583	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.98942	45.3583
MD54-18-154820	63-2012	05/01/2018	Propylbenzene[1-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91269	49.1269
MD54-18-154820	63-2012	05/01/2018	Dichlorobenzene[1,4-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.84572	60.0895
MD54-18-154820	63-2012	05/01/2018	Dibromoethane[1,2-]	76.7866	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.2965	76.7866
MD54-18-154820	63-2012	05/01/2018	Butadiene[1,3-]	22.1096	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.64302	22.1096
MD54-18-154820	63-2012	05/01/2018	Chloro-1-propene[3-]	125.108	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	24.0834	125.108
MD54-18-154820	63-2012	05/01/2018	Dichloroethane[1,2-]	40.4493	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6629	40.4493
MD54-18-154820	63-2012	05/01/2018	Methyl-2-pentanone[4-]	40.9398	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.50338	40.9398
MD54-18-154820	63-2012	05/01/2018	Trimethylbenzene[1,3,5-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.53714	49.1269
MD54-18-154820	63-2012	05/01/2018	Toluene	37.6609	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.51931	37.6609
MD54-18-154820	63-2012	05/01/2018	Chlorobenzene	46.0082	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.52099	46.0082
MD54-18-154820	63-2012	05/01/2018	Tetrahydrofuran	29.4745	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.53694	29.4745
MD54-18-154820	63-2012	05/01/2018	Hexane	35.2256	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.39737	35.2256
MD54-18-154820	63-2012	05/01/2018	Cyclohexane	34.3999	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.53598	34.3999
MD54-18-154820	63-2012	05/01/2018	Trichlorobenzene[1,2,4-]	296.666	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	25.2166	296.666
MD54-18-154820	63-2012	05/01/2018	Dioxane[1,4-]	144.058	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.8043	144.058
MD54-18-154820	63-2012	05/01/2018	Chlorodibromomethane	85.1332	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.9186	85.1332
MD54-18-154820	63-2012	05/01/2018	Tetrachloroethene	88.1166	ug/m3		Y	GAS	REG	VOC	EPA:TO15	6.10038	67.782
MD54-18-154820	63-2012	05/01/2018	n-Heptane	40.9561	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.3243	40.9561
MD54-18-154820	63-2012	05/01/2018	Dichloroethene[cis-1,2-]	25.7554	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	6.73602	39.6236
MD54-18-154820	63-2012	05/01/2018	Dichloroethene[trans-1,2-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.0946	39.6236
MD54-18-154820	63-2012	05/01/2018	Methyl tert-Butyl Ether	36.0308	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.12523	36.0308
MD54-18-154820	63-2012	05/01/2018	Isooctane	46.6908	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6029	46.6908
MD54-18-154820	63-2012	05/01/2018	Dichlorobenzene[1,3-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.81163	60.0895
MD54-18-154820	63-2012	05/01/2018	Carbon Tetrachloride	113.171	ug/m3		Y	GAS	REG	VOC	EPA:TO15	9.43095	62.873
MD54-18-154820	63-2012	05/01/2018	Hexanone[2-]	163.759	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.9665	163.759
MD54-18-154820	63-2012	05/01/2018	Ethyltoluene[4-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.63539	49.1269
MD54-18-154820	63-2012	05/01/2018	Ethanol	75.3233	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.0517	75.3233
MD54-18-154820	63-2012	05/01/2018	Propanol[2-]	98.2621	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.8088	98.2621
MD54-18-154820	63-2012	05/01/2018	Acetone	94.9594	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.3447	94.9594
MD54-18-154820	63-2012	05/01/2018	Chloroform	243.979	ug/m3		Y	GAS	REG	VOC	EPA:TO15	7.80734	48.7959
MD54-18-154820	63-2012	05/01/2018	Benzene	31.927	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.46978	31.927
MD54-18-154820	63-2012	05/01/2018	Trichloroethane[1,1,1-]	14.1769	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.99791	54.5264

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154820	63-2012	05/01/2018	Bromomethane	155.225	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.9105	155.225
MD54-18-154820	63-2012	05/01/2018	Chloromethane	82.5499	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13.6207	82.5499
MD54-18-154820	63-2012	05/01/2018	Chloroethane	105.472	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	21.8855	105.472
MD54-18-154820	63-2012	05/01/2018	Vinyl Chloride	25.5457	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.85368	25.5457
MD54-18-154820	63-2012	05/01/2018	Methylene Chloride	138.859	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20.4816	138.859
MD54-18-154820	63-2012	05/01/2018	Carbon Disulfide	124.485	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.5607	124.485
MD54-18-154820	63-2012	05/01/2018	Bromoform	103.302	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.67736	103.302
MD54-18-154820	63-2012	05/01/2018	Bromodichloromethane	66.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.28495	66.9523
MD54-18-154820	63-2012	05/01/2018	Dichloroethane[1,1-]	40.4493	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.85392	40.4493
MD54-18-154820	63-2012	05/01/2018	Dichloroethene[1,1-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.75484	39.6236
MD54-18-154820	63-2012	05/01/2018	Trichlorofluoromethane	6.7379	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.39032	56.1492
MD54-18-154820	63-2012	05/01/2018	Dichlorodifluoromethane	148.264	ug/m3		Y	GAS	REG	VOC	EPA:TO15	6.91897	49.4212
MD54-18-154820	63-2012	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	29.8696	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	11.4883	76.5888
MD54-18-154820	63-2012	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	69.8625	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.178	69.8625
MD54-18-154820	63-2012	05/01/2018	Dichloropropane[1,2-]	46.184	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.9276	46.184
MD54-18-154820	63-2012	05/01/2018	Butanone[2-]	117.898	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20.6322	117.898
MD54-18-154820	63-2012	05/01/2018	Trichloroethane[1,1,2-]	54.5264	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.08844	54.5264
MD54-18-154820	63-2012	05/01/2018	Trichloroethene	8592.78	ug/m3		Y	GAS	REG	VOC	EPA:TO15	8.05573	53.7049
MD54-18-154820	63-2012	05/01/2018	Tetrachloroethane[1,1,2,2-]	68.6077	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.60507	68.6077
MD54-18-154820	63-2012	05/01/2018	Hexachlorobutadiene	426.336	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	41.5678	426.336
MD54-18-154820	63-2012	05/01/2018	Xylene[1,2-]	43.3923	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.37669	43.3923
MD54-18-154820	63-2012	05/01/2018	Dichlorobenzene[1,2-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.52823	60.0895
MD54-18-154820	63-2012	05/01/2018	Trimethylbenzene[1,2,4-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.02841	49.1269
MD54-18-154820	63-2012	05/01/2018	Isopropylbenzene	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.63539	49.1269
MD54-18-154820	63-2012	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	43.3923	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.20707	43.3923
MD54-18-154821	63-2013	05/01/2018	Ethylbenzene	43.3963	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.81134	43.3963
MD54-18-154821	63-2013	05/01/2018	Styrene	42.5707	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.40565	42.5707
MD54-18-154821	63-2013	05/01/2018	Benzyl Chloride	51.7388	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.24258	51.7388
MD54-18-154821	63-2013	05/01/2018	Dichloropropene[cis-1,3-]	45.3583	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.35016	45.3583
MD54-18-154821	63-2013	05/01/2018	Dichloropropene[trans-1,3-]	45.3583	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.98942	45.3583
MD54-18-154821	63-2013	05/01/2018	Propylbenzene[1-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91269	49.1269
MD54-18-154821	63-2013	05/01/2018	Dichlorobenzene[1,4-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.9659	60.0895
MD54-18-154821	63-2013	05/01/2018	Dibromoethane[1,2-]	76.7866	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.45008	76.7866
MD54-18-154821	63-2013	05/01/2018	Butadiene[1,3-]	22.1096	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.64302	22.1096
MD54-18-154821	63-2013	05/01/2018	Chloro-1-propene[3-]	128.236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	24.7089	128.236
MD54-18-154821	63-2013	05/01/2018	Dichloroethane[1,2-]	40.4493	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6629	40.4493
MD54-18-154821	63-2013	05/01/2018	Methyl-2-pentanone[4-]	40.9398	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91278	40.9398
MD54-18-154821	63-2013	05/01/2018	Trimethylbenzene[1,3,5-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.63539	49.1269
MD54-18-154821	63-2013	05/01/2018	Toluene	37.6609	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.51931	37.6609
MD54-18-154821	63-2013	05/01/2018	Chlorobenzene	46.0082	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.98107	46.0082
MD54-18-154821	63-2013	05/01/2018	Tetrahydrofuran	29.4745	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.53694	29.4745
MD54-18-154821	63-2013	05/01/2018	Hexane	35.2256	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.74962	35.2256
MD54-18-154821	63-2013	05/01/2018	Cyclohexane	34.3999	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.87998	34.3999
MD54-18-154821	63-2013	05/01/2018	Trichlorobenzene[1,2,4-]	304.083	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	25.9583	304.083
MD54-18-154821	63-2013	05/01/2018	Dioxane[1,4-]	147.659	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.1645	147.659
MD54-18-154821	63-2013	05/01/2018	Chlorodibromomethane	85.1332	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.77	85.1332
MD54-18-154821	63-2013	05/01/2018	Tetrachloroethene	67.782	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.30373	67.782
MD54-18-154821	63-2013	05/01/2018	n-Heptane	40.9561	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.3243	40.9561
MD54-18-154821	63-2013	05/01/2018	Dichloroethene[cis-1,2-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.73602	39.6236
MD54-18-154821	63-2013	05/01/2018	Dichloroethene[trans-1,2-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.0946	39.6236
MD54-18-154821	63-2013	05/01/2018	Methyl tert-Butyl Ether	36.0308	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.48554	36.0308
MD54-18-154821	63-2013	05/01/2018	Isooctane	46.6908	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.6029	46.6908
MD54-18-154821	63-2013	05/01/2018	Dichlorobenzene[1,3-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.41252	60.0895
MD54-18-154821	63-2013	05/01/2018	Carbon Tetrachloride	62.873	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.43095	62.873
MD54-18-154821	63-2013	05/01/2018	Hexanone[2-]	167.853	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	16.3759	167.853
MD54-18-154821	63-2013	05/01/2018	Ethyltoluene[4-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.73365	49.1269
MD54-18-154821	63-2013	05/01/2018	Ethanol	77.2064	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.4284	77.2064

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154821	63-2013	05/01/2018	Propanol[2-]	100.719	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.0545	100.719
MD54-18-154821	63-2013	05/01/2018	Acetone	97.3334	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.5821	97.3334
MD54-18-154821	63-2013	05/01/2018	Chloroform	26.3498	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	7.80734	48.7959
MD54-18-154821	63-2013	05/01/2018	Benzene	31.927	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.46978	31.927
MD54-18-154821	63-2013	05/01/2018	Trichloroethane[1,1,1-]	20.1748	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.99791	54.5264
MD54-18-154821	63-2013	05/01/2018	Bromomethane	159.105	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	16.2986	159.105
MD54-18-154821	63-2013	05/01/2018	Chloromethane	84.6137	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14.0335	84.6137
MD54-18-154821	63-2013	05/01/2018	Chloroethane	108.109	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	22.4129	108.109
MD54-18-154821	63-2013	05/01/2018	Vinyl Chloride	25.5457	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.10914	25.5457
MD54-18-154821	63-2013	05/01/2018	Methylene Chloride	142.33	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20.8288	142.33
MD54-18-154821	63-2013	05/01/2018	Carbon Disulfide	127.598	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	15.8719	127.598
MD54-18-154821	63-2013	05/01/2018	Bromoform	103.302	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.88396	103.302
MD54-18-154821	63-2013	05/01/2018	Bromodichloromethane	66.9523	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.41885	66.9523
MD54-18-154821	63-2013	05/01/2018	Dichloroethane[1,1-]	40.4493	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.85392	40.4493
MD54-18-154821	63-2013	05/01/2018	Dichloroethene[1,1-]	39.6236	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.75484	39.6236
MD54-18-154821	63-2013	05/01/2018	Trichlorofluoromethane	56.1492	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.55877	56.1492
MD54-18-154821	63-2013	05/01/2018	Dichlorodifluoromethane	42.008	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	6.91897	49.4212
MD54-18-154821	63-2013	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	76.5888	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.4883	76.5888
MD54-18-154821	63-2013	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	69.8625	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.178	69.8625
MD54-18-154821	63-2013	05/01/2018	Dichloropropane[1,2-]	46.184	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.38944	46.184
MD54-18-154821	63-2013	05/01/2018	Butanone[2-]	120.846	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	20.9269	120.846
MD54-18-154821	63-2013	05/01/2018	Trichloroethane[1,1,2-]	54.5264	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.08844	54.5264
MD54-18-154821	63-2013	05/01/2018	Trichloroethene	413.528	ug/m3		Y	GAS	REG	VOC	EPA:TO15	8.05573	53.7049
MD54-18-154821	63-2013	05/01/2018	Tetrachloroethane[1,1,2,2-]	68.6077	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.2912	68.6077
MD54-18-154821	63-2013	05/01/2018	Hexachlorobutadiene	436.995	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	42.6336	436.995
MD54-18-154821	63-2013	05/01/2018	Xylene[1,2-]	43.3923	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.81061	43.3923
MD54-18-154821	63-2013	05/01/2018	Dichlorobenzene[1,2-]	60.0895	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.7085	60.0895
MD54-18-154821	63-2013	05/01/2018	Trimethylbenzene[1,2,4-]	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.12666	49.1269
MD54-18-154821	63-2013	05/01/2018	Isopropylbenzene	49.1269	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.73365	49.1269
MD54-18-154821	63-2013	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	43.3923	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.64099	43.3923
MD54-18-154822	63-2013	05/01/2018	Ethylbenzene	39.0567	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.94342	39.0567
MD54-18-154822	63-2013	05/01/2018	Styrene	38.3136	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	2.97995	38.3136
MD54-18-154822	63-2013	05/01/2018	Benzyl Chloride	46.5649	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.72519	46.5649
MD54-18-154822	63-2013	05/01/2018	Dichloropropene[cis-1,3-]	40.8225	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.443	40.8225
MD54-18-154822	63-2013	05/01/2018	Dichloropropene[trans-1,3-]	40.8225	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.30904	40.8225
MD54-18-154822	63-2013	05/01/2018	Propylbenzene[1-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.47055	44.2142
MD54-18-154822	63-2013	05/01/2018	Dichlorobenzene[1,4-]	54.0805	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.4251	54.0805
MD54-18-154822	63-2013	05/01/2018	Dibromoethane[1,2-]	69.108	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.60543	69.108
MD54-18-154822	63-2013	05/01/2018	Butadiene[1,3-]	19.8987	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.20083	19.8987
MD54-18-154822	63-2013	05/01/2018	Chloro-1-propene[3-]	112.598	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	21.5812	112.598
MD54-18-154822	63-2013	05/01/2018	Dichloroethane[1,2-]	36.4044	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.85392	36.4044
MD54-18-154822	63-2013	05/01/2018	Methyl-2-pentanone[4-]	36.8458	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.09398	36.8458
MD54-18-154822	63-2013	05/01/2018	Trimethylbenzene[1,3,5-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.14412	44.2142
MD54-18-154822	63-2013	05/01/2018	Toluene	33.8948	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.76609	33.8948
MD54-18-154822	63-2013	05/01/2018	Chlorobenzene	41.4074	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.0609	41.4074
MD54-18-154822	63-2013	05/01/2018	Tetrahydrofuran	26.5271	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	2.94745	26.5271
MD54-18-154822	63-2013	05/01/2018	Hexane	31.703	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.69286	31.703
MD54-18-154822	63-2013	05/01/2018	Cyclohexane	30.9599	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.84798	30.9599
MD54-18-154822	63-2013	05/01/2018	Trichlorobenzene[1,2,4-]	267	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	22.25	267
MD54-18-154822	63-2013	05/01/2018	Dioxane[1,4-]	129.652	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.7239	129.652
MD54-18-154822	63-2013	05/01/2018	Chlorodibromomethane	76.6199	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	11.0673	76.6199
MD54-18-154822	63-2013	05/01/2018	Tetrachloroethene	15.5899	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.42256	61.0038
MD54-18-154822	63-2013	05/01/2018	n-Heptane	36.8605	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.91474	36.8605
MD54-18-154822	63-2013	05/01/2018	Dichloroethene[cis-1,2-]	35.6613	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.94355	35.6613
MD54-18-154822	63-2013	05/01/2018	Dichloroethene[trans-1,2-]	35.6613	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.90591	35.6613
MD54-18-154822	63-2013	05/01/2018	Methyl tert-Butyl Ether	32.4277	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.40462	32.4277
MD54-18-154822	63-2013	05/01/2018	Isooctane	42.0217	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	5.13599	42.0217

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154822	63-2013	05/01/2018	Dichlorobenzene[1,3-]	54.0805	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.21073	54.0805
MD54-18-154822	63-2013	05/01/2018	Carbon Tetrachloride	10.6884	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	8.17349	56.5857
MD54-18-154822	63-2013	05/01/2018	Hexanone[2-]	147.383	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14.3289	147.383
MD54-18-154822	63-2013	05/01/2018	Ethyltoluene[4-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.24238	44.2142
MD54-18-154822	63-2013	05/01/2018	Ethanol	67.791	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.7336	67.791
MD54-18-154822	63-2013	05/01/2018	Propanol[2-]	88.4358	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.58055	88.4358
MD54-18-154822	63-2013	05/01/2018	Acetone	85.4635	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	10.9203	85.4635
MD54-18-154822	63-2013	05/01/2018	Chloroform	22.9341	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	6.83142	43.9163
MD54-18-154822	63-2013	05/01/2018	Benzene	28.7343	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.83124	28.7343
MD54-18-154822	63-2013	05/01/2018	Trichloroethane[1,1,1-]	47.438	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	5.34359	49.0738
MD54-18-154822	63-2013	05/01/2018	Bromomethane	139.702	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	14.3583	139.702
MD54-18-154822	63-2013	05/01/2018	Chloromethane	74.2949	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	12.1761	74.2949
MD54-18-154822	63-2013	05/01/2018	Chloroethane	94.9251	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	19.5124	94.9251
MD54-18-154822	63-2013	05/01/2018	Vinyl Chloride	22.9911	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.34277	22.9911
MD54-18-154822	63-2013	05/01/2018	Methylene Chloride	124.973	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18.0516	124.973
MD54-18-154822	63-2013	05/01/2018	Carbon Disulfide	112.037	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	13.6934	112.037
MD54-18-154822	63-2013	05/01/2018	Bromoform	92.9717	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	7.74764	92.9717
MD54-18-154822	63-2013	05/01/2018	Bromodichloromethane	60.257	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.81628	60.257
MD54-18-154822	63-2013	05/01/2018	Dichloroethane[1,1-]	36.4044	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.04493	36.4044
MD54-18-154822	63-2013	05/01/2018	Dichloroethene[1,1-]	35.6613	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.3586	35.6613
MD54-18-154822	63-2013	05/01/2018	Trichlorofluoromethane	50.5342	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.82883	50.5342
MD54-18-154822	63-2013	05/01/2018	Dichlorodifluoromethane	69.1897	ug/m3		Y	GAS	REG	VOC	EPA:TO15	5.93055	44.4791
MD54-18-154822	63-2013	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	19.9131	ug/m3	J	Y	GAS	REG	VOC	EPA:TO15	9.95655	68.9299
MD54-18-154822	63-2013	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	62.8763	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	9.78075	62.8763
MD54-18-154822	63-2013	05/01/2018	Dichloropropane[1,2-]	41.5656	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.46576	41.5656
MD54-18-154822	63-2013	05/01/2018	Butanone[2-]	106.108	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	18.2742	106.108
MD54-18-154822	63-2013	05/01/2018	Trichloroethane[1,1,2-]	49.0738	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.54317	49.0738
MD54-18-154822	63-2013	05/01/2018	Trichloroethene	1557.44	ug/m3		Y	GAS	REG	VOC	EPA:TO15	6.98163	48.3344
MD54-18-154822	63-2013	05/01/2018	Tetrachloroethane[1,1,2,2-]	61.7469	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	8.919	61.7469
MD54-18-154822	63-2013	05/01/2018	Hexachlorobutadiene	383.703	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	37.3044	383.703
MD54-18-154822	63-2013	05/01/2018	Xylene[1,2-]	39.053	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	6.94276	39.053
MD54-18-154822	63-2013	05/01/2018	Dichlorobenzene[1,2-]	54.0805	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.92734	54.0805
MD54-18-154822	63-2013	05/01/2018	Trimethylbenzene[1,2,4-]	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.58627	44.2142
MD54-18-154822	63-2013	05/01/2018	Isopropylbenzene	44.2142	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	3.24238	44.2142
MD54-18-154822	63-2013	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	39.053	ug/m3	U	N	GAS	REG	VOC	EPA:TO15	4.77315	39.053
MD54-18-154823	63-2012	05/01/2018	Ethylbenzene	56.4153	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	10.4151	56.4153
MD54-18-154823	63-2012	05/01/2018	Styrene	55.3419	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	4.25707	55.3419
MD54-18-154823	63-2012	05/01/2018	Benzyl Chloride	67.2605	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	5.69127	67.2605
MD54-18-154823	63-2012	05/01/2018	Dichloropropene[cis-1,3-]	58.9658	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	8.1645	58.9658
MD54-18-154823	63-2012	05/01/2018	Dichloropropene[trans-1,3-]	58.9658	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.35016	58.9658
MD54-18-154823	63-2012	05/01/2018	Propylbenzene[1-]	63.865	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.87777	63.865
MD54-18-154823	63-2012	05/01/2018	Dichlorobenzene[1,4-]	78.1163	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	5.16769	78.1163
MD54-18-154823	63-2012	05/01/2018	Dibromoethane[1,2-]	99.8226	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	8.44653	99.8226
MD54-18-154823	63-2012	05/01/2018	Butadiene[1,3-]	28.7425	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.19069	28.7425
MD54-18-154823	63-2012	05/01/2018	Chloro-1-propene[3-]	168.896	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	31.2771	168.896
MD54-18-154823	63-2012	05/01/2018	Dichloroethane[1,2-]	52.5841	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.68537	52.5841
MD54-18-154823	63-2012	05/01/2018	Methyl-2-pentanone[4-]	53.2217	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.14097	53.2217
MD54-18-154823	63-2012	05/01/2018	Trimethylbenzene[1,3,5-]	63.865	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	4.71619	63.865
MD54-18-154823	63-2012	05/01/2018	Toluene	48.9592	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.02574	48.9592
MD54-18-154823	63-2012	05/01/2018	Chlorobenzene	59.8107	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.8214	59.8107
MD54-18-154823	63-2012	05/01/2018	Tetrahydrofuran	38.3169	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	4.71592	38.3169
MD54-18-154823	63-2012	05/01/2018	Hexane	45.7932	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	9.86316	45.7932
MD54-18-154823	63-2012	05/01/2018	Cyclohexane	44.7199	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	8.94397	44.7199
MD54-18-154823	63-2012	05/01/2018	Trichlorobenzene[1,2,4-]	400.5	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	33.375	400.5
MD54-18-154823	63-2012	05/01/2018	Dioxane[1,4-]	194.478	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	14.7659	194.478
MD54-18-154823	63-2012	05/01/2018	Chlorodibromomethane	110.673	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	16.1753	110.673
MD54-18-154823	63-2012	05/01/2018	Tetrachloroethene	32.5354	ug/m3	J	Y	GAS	FD	VOC	EPA:TO15	8.13384	88.1166

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Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154823	63-2012	05/01/2018	n-Heptane	53.243	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.96254	53.243
MD54-18-154823	63-2012	05/01/2018	Dichloroethene[cis-1,2-]	51.5107	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	8.7172	51.5107
MD54-18-154823	63-2012	05/01/2018	Dichloroethene[trans-1,2-]	51.5107	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	14.6607	51.5107
MD54-18-154823	63-2012	05/01/2018	Methyl tert-Butyl Ether	46.84	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	8.28708	46.84
MD54-18-154823	63-2012	05/01/2018	Isooctane	60.6981	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.47053	60.6981
MD54-18-154823	63-2012	05/01/2018	Dichlorobenzene[1,3-]	78.1163	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	10.8161	78.1163
MD54-18-154823	63-2012	05/01/2018	Carbon Tetrachloride	56.5857	ug/m3	J	Y	GAS	FD	VOC	EPA:TO15	12.5746	81.7349
MD54-18-154823	63-2012	05/01/2018	Hexanone[2-]	221.075	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	21.2887	221.075
MD54-18-154823	63-2012	05/01/2018	Ethyltoluene[4-]	63.865	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	4.86357	63.865
MD54-18-154823	63-2012	05/01/2018	Ethanol	101.687	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	16.1945	101.687
MD54-18-154823	63-2012	05/01/2018	Propanol[2-]	132.654	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	14.4937	132.654
MD54-18-154823	63-2012	05/01/2018	Acetone	128.195	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	16.3805	128.195
MD54-18-154823	63-2012	05/01/2018	Chloroform	112.23	ug/m3		Y	GAS	FD	VOC	EPA:TO15	10.2471	63.4346
MD54-18-154823	63-2012	05/01/2018	Benzene	41.5051	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	5.74686	41.5051
MD54-18-154823	63-2012	05/01/2018	Trichloroethane[1,1,1-]	12.5411	ug/m3	J	Y	GAS	FD	VOC	EPA:TO15	8.17897	70.8844
MD54-18-154823	63-2012	05/01/2018	Bromomethane	209.553	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	21.3434	209.553
MD54-18-154823	63-2012	05/01/2018	Chloromethane	111.442	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	18.161	111.442
MD54-18-154823	63-2012	05/01/2018	Chloroethane	142.388	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	29.0049	142.388
MD54-18-154823	63-2012	05/01/2018	Vinyl Chloride	33.2094	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.64188	33.2094
MD54-18-154823	63-2012	05/01/2018	Methylene Chloride	187.459	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	27.0774	187.459
MD54-18-154823	63-2012	05/01/2018	Carbon Disulfide	168.055	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	20.8513	168.055
MD54-18-154823	63-2012	05/01/2018	Bromoform	134.292	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	11.3632	134.292
MD54-18-154823	63-2012	05/01/2018	Bromodichloromethane	87.0379	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	5.7579	87.0379
MD54-18-154823	63-2012	05/01/2018	Dichloroethane[1,1-]	52.5841	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.47189	52.5841
MD54-18-154823	63-2012	05/01/2018	Dichloroethene[1,1-]	51.5107	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	6.33978	51.5107
MD54-18-154823	63-2012	05/01/2018	Trichlorofluoromethane	72.9939	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.29939	72.9939
MD54-18-154823	63-2012	05/01/2018	Dichlorodifluoromethane	74.1319	ug/m3		Y	GAS	FD	VOC	EPA:TO15	8.89582	64.2476
MD54-18-154823	63-2012	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	99.5655	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	15.3178	99.5655
MD54-18-154823	63-2012	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	90.8213	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	14.6711	90.8213
MD54-18-154823	63-2012	05/01/2018	Dichloropropane[1,2-]	60.0392	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	9.2368	60.0392
MD54-18-154823	63-2012	05/01/2018	Butanone[2-]	159.162	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	27.4113	159.162
MD54-18-154823	63-2012	05/01/2018	Trichloroethane[1,1,2-]	70.8844	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	9.2695	70.8844
MD54-18-154823	63-2012	05/01/2018	Trichloroethene	3276	ug/m3		Y	GAS	FD	VOC	EPA:TO15	10.741	69.8163
MD54-18-154823	63-2012	05/01/2018	Tetrachloroethane[1,1,2,2-]	89.19	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	13.0355	89.19
MD54-18-154823	63-2012	05/01/2018	Hexachlorobutadiene	575.554	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	55.4237	575.554
MD54-18-154823	63-2012	05/01/2018	Xylene[1,2-]	56.4099	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	9.98022	56.4099
MD54-18-154823	63-2012	05/01/2018	Dichlorobenzene[1,2-]	78.1163	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.21073	78.1163
MD54-18-154823	63-2012	05/01/2018	Trimethylbenzene[1,2,4-]	63.865	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	5.40396	63.865
MD54-18-154823	63-2012	05/01/2018	Isopropylbenzene	63.865	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	4.86357	63.865
MD54-18-154823	63-2012	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	56.4099	ug/m3	U	N	GAS	FD	VOC	EPA:TO15	7.37669	56.4099
MD54-18-154824	63-2013	05/01/2018	Ethylbenzene	78.1134	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	13.4529	78.1134
MD54-18-154824	63-2013	05/01/2018	Styrene	76.6272	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	5.9599	76.6272
MD54-18-154824	63-2013	05/01/2018	Benzyl Chloride	93.1299	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	7.24343	93.1299
MD54-18-154824	63-2013	05/01/2018	Dichloropropene[cis-1,3-]	81.645	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	10.886	81.645
MD54-18-154824	63-2013	05/01/2018	Dichloropropene[trans-1,3-]	81.645	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	8.1645	81.645
MD54-18-154824	63-2013	05/01/2018	Propylbenzene[1-]	88.4285	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	8.84285	88.4285
MD54-18-154824	63-2013	05/01/2018	Dichlorobenzene[1,4-]	108.161	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	6.60984	108.161
MD54-18-154824	63-2013	05/01/2018	Dibromoethane[1,2-]	138.216	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	10.7501	138.216
MD54-18-154824	63-2013	05/01/2018	Butadiene[1,3-]	39.7973	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	7.95946	39.7973
MD54-18-154824	63-2013	05/01/2018	Chloro-1-propene[3-]	218.94	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	40.6602	218.94
MD54-18-154824	63-2013	05/01/2018	Dichloroethane[1,2-]	72.8088	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	9.70783	72.8088
MD54-18-154824	63-2013	05/01/2018	Methyl-2-pentanone[4-]	73.6916	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	8.18796	73.6916
MD54-18-154824	63-2013	05/01/2018	Trimethylbenzene[1,3,5-]	88.4285	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	6.3865	88.4285
MD54-18-154824	63-2013	05/01/2018	Toluene	67.7896	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	7.90879	67.7896
MD54-18-154824	63-2013	05/01/2018	Chlorobenzene	82.8148	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	10.1218	82.8148
MD54-18-154824	63-2013	05/01/2018	Tetrahydrofuran	53.0542	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	6.18965	53.0542
MD54-18-154824	63-2013	05/01/2018	Hexane	63.406	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	13.0335	63.406

TA-63 Transuranic Waste Facility Vapor Monitoring System
Sampling and Analysis - Quarter 3

Field Sample ID	Location	Sample Date	Parameter Name	Report Result	Report Units	Lab Qualifier	Detected	Sample Matrix	Sample Purpose	Method Category	Lab Method	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)
MD54-18-154824	63-2013	05/01/2018	Cyclohexane	61.9198	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	11.696	61.9198
MD54-18-154824	63-2013	05/01/2018	Trichlorobenzene[1,2,4-]	519.166	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	43.7583	519.166
MD54-18-154824	63-2013	05/01/2018	Dioxane[1,4-]	252.101	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	19.0877	252.101
MD54-18-154824	63-2013	05/01/2018	Chlorodibromomethane	153.24	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	21.2833	153.24
MD54-18-154824	63-2013	05/01/2018	Tetrachloroethene	122.008	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	10.8451	122.008
MD54-18-154824	63-2013	05/01/2018	n-Heptane	73.7211	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	9.41991	73.7211
MD54-18-154824	63-2013	05/01/2018	Dichloroethene[cis-1,2-]	71.3226	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	11.4909	71.3226
MD54-18-154824	63-2013	05/01/2018	Dichloroethene[trans-1,2-]	71.3226	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	19.0194	71.3226
MD54-18-154824	63-2013	05/01/2018	Methyl tert-Butyl Ether	64.8554	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	10.8092	64.8554
MD54-18-154824	63-2013	05/01/2018	Isooctane	84.0435	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	9.80507	84.0435
MD54-18-154824	63-2013	05/01/2018	Dichlorobenzene[1,3-]	108.161	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	13.8206	108.161
MD54-18-154824	63-2013	05/01/2018	Carbon Tetrachloride	113.171	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	16.347	113.171
MD54-18-154824	63-2013	05/01/2018	Hexanone[2-]	286.579	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	27.8391	286.579
MD54-18-154824	63-2013	05/01/2018	Ethyltoluene[4-]	88.4285	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	6.3865	88.4285
MD54-18-154824	63-2013	05/01/2018	Ethanol	131.816	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	20.7139	131.816
MD54-18-154824	63-2013	05/01/2018	Propanol[2-]	171.959	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	18.9154	171.959
MD54-18-154824	63-2013	05/01/2018	Acetone	166.179	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	21.6033	166.179
MD54-18-154824	63-2013	05/01/2018	Chloroform	87.8325	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	13.1749	87.8325
MD54-18-154824	63-2013	05/01/2018	Benzene	57.4686	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	7.66248	57.4686
MD54-18-154824	63-2013	05/01/2018	Trichloroethane[1,1,1-]	98.1476	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	10.36	98.1476
MD54-18-154824	63-2013	05/01/2018	Bromomethane	271.643	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	27.9404	271.643
MD54-18-154824	63-2013	05/01/2018	Chloromethane	144.462	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	24.765	144.462
MD54-18-154824	63-2013	05/01/2018	Chloroethane	184.577	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	36.9153	184.577
MD54-18-154824	63-2013	05/01/2018	Vinyl Chloride	45.9822	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	8.68553	45.9822
MD54-18-154824	63-2013	05/01/2018	Methylene Chloride	243.002	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	34.7146	243.002
MD54-18-154824	63-2013	05/01/2018	Carbon Disulfide	217.85	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	27.0756	217.85
MD54-18-154824	63-2013	05/01/2018	Bromoform	185.943	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	15.4953	185.943
MD54-18-154824	63-2013	05/01/2018	Bromodichloromethane	120.514	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	7.36475	120.514
MD54-18-154824	63-2013	05/01/2018	Dichloroethane[1,1-]	72.8088	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	8.08986	72.8088
MD54-18-154824	63-2013	05/01/2018	Dichloroethene[1,1-]	71.3226	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	8.32096	71.3226
MD54-18-154824	63-2013	05/01/2018	Trichlorofluoromethane	101.068	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	9.54536	101.068
MD54-18-154824	63-2013	05/01/2018	Dichlorodifluoromethane	88.9582	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	11.8611	88.9582
MD54-18-154824	63-2013	05/01/2018	Trichloro-1,2,2-trifluoroethane[1,1,2-]	137.86	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	19.9131	137.86
MD54-18-154824	63-2013	05/01/2018	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	125.753	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	19.5615	125.753
MD54-18-154824	63-2013	05/01/2018	Dichloropropane[1,2-]	83.1312	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	12.4697	83.1312
MD54-18-154824	63-2013	05/01/2018	Butanone[2-]	206.322	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	35.3694	206.322
MD54-18-154824	63-2013	05/01/2018	Trichloroethane[1,1,2-]	98.1476	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	12.5411	98.1476
MD54-18-154824	63-2013	05/01/2018	Trichloroethene	96.6688	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	13.9633	96.6688
MD54-18-154824	63-2013	05/01/2018	Tetrachloroethane[1,1,2,2-]	123.494	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	17.1519	123.494
MD54-18-154824	63-2013	05/01/2018	Hexachlorobutadiene	746.089	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	72.4772	746.089
MD54-18-154824	63-2013	05/01/2018	Xylene[1,2-]	78.1061	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	13.0177	78.1061
MD54-18-154824	63-2013	05/01/2018	Dichlorobenzene[1,2-]	108.161	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	9.61431	108.161
MD54-18-154824	63-2013	05/01/2018	Trimethylbenzene[1,2,4-]	88.4285	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	6.87777	88.4285
MD54-18-154824	63-2013	05/01/2018	Isopropylbenzene	88.4285	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	6.3865	88.4285
MD54-18-154824	63-2013	05/01/2018	Xylene[1,3-]+Xylene[1,4-]	78.1061	ug/m3	U	N	GAS	FB	VOC	EPA:TO15	9.5463	78.1061

Table 3. Current and Previous
Quarterly Results

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Table 3: Current and Previous Quarter Results

Well	Sample Port Depth (ft)	Analyte/Constituent (as Listed in Permit Tables)	Quarter 1		Quarter 2		Quarter 3	
			Result (ug/m3)	Percentage of SGSL (%)	Result (ug/m3)	Percentage of SGSL (%)	Result (ug/m3)	Percentage of SGSL (%)
VMW-1 63-2009	5	Trichloroethylene	64.4	0.3	31.1	0.2	48.3	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			8.18	<0.1
		1,1-Dichloroethane	33.6	<0.1				
		1,1-Dichloroethylene	10.3	<0.1				
		Dichlorodifluoromethane	6.9	<0.1				
VMW-2 63-2010	5	Trichloroethylene	134	0.7	80.6	0.4	129	0.7
		Dichlorodifluoromethane	7.9	<0.1				
VMW-3 63-2011	5	Trichloroethylene	69.8	0.4	64.4	0.3	96.7	0.5
		Toluene	8.3	<0.1				
VMW-4 63-2012	25	Tetrachloroethylene	49.5	<0.1	34.6	<0.1	34.6	<0.1
		Carbon tetrachloride	49.7	<0.1	35.2	<0.1	48.4	<0.1
		Chloroform	112	0.5	87.8	0.2	107	0.5
		Dichlorodifluoromethane	84	<0.1	74.1	<0.1	84.0	<0.1
		1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	<0.1	13.0	<0.1		
		Trichloroethylene	3810	2.4	2793	1.8	3437	2.2
		1,1,1-Trichloroethane	7.1	<0.1				
VMW-4 63-2012	60	Tetrachloroethylene	81.3	<0.1	74.6	<0.1	88.1	<0.1
		Cis-1,2-Dichloroethylene	16.6	<0.1	23.8	<0.1	25.8	<0.1
		Carbon tetrachloride	94.3	<0.1	88.0	<0.1	113	<0.1
		Chloroform	190	0.4	200	0.5	244	0.5
		1,1,1-Trichloroethane	13.1	<0.1	14.2	<0.1	14.2	<0.1
		Dichlorodifluoromethane	143	<0.1	158	<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
		Trichloroethylene	8060	8.7	6982	7.5	8593	9.3
		Toluene	7.6	<0.1				
		Acetone	16.1	<0.1				
		Trichlorofluoromethane	6.2	<0.1			6.7	<0.1
VMW-5 63-2013	25	Chloroform	35.6	0.2	19.0	<0.1	26.3	0.1
		1,1,1-Trichloroethane	30.5	<0.1	19.6	<0.1	20.2	<0.1
		Dichlorodifluoromethane	59.3	<0.1	42.0	<0.1	42.0	<0.1
		Trichloroethylene	483	0.3	258	0.2	414	0.3
		Tetrachloroethylene	6.8	<0.1				
VMW-5 63-2013	60	Tetrachloroethylene	16.9	<0.1	12.9	<0.1	15.6	<0.1
		Chloroform	15.6	<0.1	18.1	<0.1	22.9	<0.1
		1,1,1-Trichloroethane	44.7	<0.1	47.4	<0.1	47.4	<0.1
		Dichlorodifluoromethane	64.2	<0.1	84.0	<0.1	69.2	<0.1
		1,1,2-Trichloro-1,2,2-			10.0	<0.1	19.9	<0.1

Table 3: Current and Previous Quarter Results

Well	Sample Port Depth (ft)	Analyte/Constituent (as Listed in Permit Tables)	Quarter 1		Quarter 2		Quarter 3	
			Result (ug/m3)	Percentage of SGSL (%)	Result (ug/m3)	Percentage of SGSL (%)	Result (ug/m3)	Percentage of SGSL (%)
		trifluoroethane						
		Trichloroethylene	1340	1.4	1343	1.4	1557	1.7
		Toluene	10.5	<0.1				
		Carbon tetrachloride	13.2	<0.1			10.7	<0.1
		Acetone	26.1	<0.1				
VMW-5 63-2013 Field Duplicate	25	Tetrachloroethylene	8.8	<0.1				
		Chloroform	30.7	0.1				
		1,1,1-Trichloroethane	32.7	<0.1				
		Dichlorodifluoromethane	59.3	<0.1				
		Trichloroethylene	451	0.3				
VMW-3 63-2011 Field Duplicate	5	Trichloroethylene			45.6	0.2		
VMW-4 63-2012 Field Duplicate	25	Tetrachloroethylene					32.5	<0.1
		Carbon tetrachloride					56.6	<0.1
		Chloroform					112	0.5
		1,1,1-Trichloroethane					12.5	<0.1
		Dichlorofluoromethane					74.1	<0.1
		Trichloroethylene					3276	2.1

Sample Collection Logs
at TA-63 Transuranic Waste Facility – Quarter 3

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SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154816

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	0933		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	63-2009		**FIELD PREP:**	NA	
LOCATION TYPE:	MON		**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: NA

LOCATION COMMENTS: Summa # 31422

FIELD PARAMETERS:

Sample Time NA HH:MM

CH_4 = 0% CO_2 = 9050 ppm O_2 = 19.9% VOC = 0.0 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow	**Date/Time** 5/1/18 1256	**RECEIVED BY (Printed Name) (Signature)**		**Date/Time** 5/1/18 1256
RELINQUISHED BY (Printed Name) (Signature)		**Date/Time**	**RECEIVED BY (Printed Name) (Signature)**		**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154817

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1008		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	63-2010		**FIELD PREP:**	NA	
LOCATION TYPE:	MON		**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: NA

LOCATION COMMENTS: Summa # N2865

FIELD PARAMETERS:

Sample Time NA HH:MM

$CH_4 = 0\%$ $CO_2 = 6020$ ppm $O_2 = 20.4\%$ VOC = 0.0 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow	**Date/Time** 5/1/2018 1256	**RECEIVED BY (Printed Name) (Signature)**	M. Martinez	**Date/Time** 5/1/18 1256
RELINQUISHED BY (Printed Name) (Signature)		**Date/Time**	**RECEIVED BY (Printed Name) (Signature)**		**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154818

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1034		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	63-2011		**FIELD PREP:**	NA	
LOCATION TYPE:	MON		**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: NA

LOCATION COMMENTS: Summa # 34322

FIELD PARAMETERS:

Sample Time NA HH:MM

$CH_4 = 0\%$ $CO_2 = 4570_{ppm}$ $O_2 = 20.3\%$ $VOC = 0.0_{ppm}$

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow	**Date/Time** 5/1/2018 1256	**RECEIVED BY (Printed Name) (Signature)**	M. Martinez	**Date/Time** 5/1/18 1256
RELINQUISHED BY (Printed Name) (Signature)		**Date/Time**	**RECEIVED BY (Printed Name) (Signature)**		**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154819

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1126		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	63-2012		**FIELD PREP:**	NA	
LOCATION TYPE:	MON		**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: NA

LOCATION COMMENTS: ~~SU~~ Summa# 00941

FIELD PARAMETERS:

Sample Time NA HH:MM

$CH_4 = 0\%$ $CO_2 = 12,200$ ppm $O_2 = 19.8\%$ VOC = 0.2 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow	**Date/Time** 5/1/18 1256	**RECEIVED BY (Printed Name) (Signature)**	M. Martinez	**Date/Time** 5.1.18 1252
RELINQUISHED BY (Printed Name) (Signature)		**Date/Time**	**RECEIVED BY (Printed Name) (Signature)**		**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154820

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1149		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	63-2012		**FIELD PREP:**	NA	
LOCATION TYPE:	MON		**FIELD QC TYPE:**	REG	
TOP DEPTH:	59		**SAMPLE USAGE:**	INV	
BOTTOM DEPTH:	60		**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: NA

LOCATION COMMENTS: Summa # N3505

FIELD PARAMETERS:

Sample Time NA HH:MM

$CH_4 = 0\%$ $CO_2 = 16,900$ ppm $O_2 = 19.5\%$ VOC = 1.3 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) Katrina Tow **(Signature)**	**Date/Time** 5/1/2018 1256	**RECEIVED BY (Printed Name)** D. Sherwood **(Signature)** D. Sherwood	**Date/Time** 5/1/18 12:56
RELINQUISHED BY (Printed Name) **(Signature)**	**Date/Time**	**RECEIVED BY (Printed Name)** **(Signature)**	**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154821

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1216		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	63-2013		**FIELD PREP:**	NA	
LOCATION TYPE:	MON		**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: NA

LOCATION COMMENTS: Summa# N2486

FIELD PARAMETERS:

Sample Time NA HH:MM

CH_4=0% CO_2=35,000 ppm O_2=18.6% VOC=0.0 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow	**Date/Time** 5/1/2018 1256	**RECEIVED BY (Printed Name) (Signature)**	S. Sherwood	**Date/Time** 5/1/18 12:56
RELINQUISHED BY (Printed Name) (Signature)		**Date/Time**	**RECEIVED BY (Printed Name) (Signature)**		**Date/Time**

Report Date: 04/10/2018

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154822

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1230		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	63-2013		**FIELD PREP:**	NA	
LOCATION TYPE:	MON		**FIELD QC TYPE:**	REG	
TOP DEPTH:	59		**SAMPLE USAGE:**	INV	
BOTTOM DEPTH:	60		**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: NA

LOCATION COMMENTS: Summa # N0800

FIELD PARAMETERS:

Sample Time NA HH:MM

$CH_4 = 0\%$ $CO_2 = 27{,}800\ ppm$ $O_2 = 19.1\%$ $VOC = 0.1\ ppm$

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name)	Katrina Tow	**Date/Time** 5/1/2018 1256	**RECEIVED BY (Printed Name)**	S. Sherwood	**Date/Time** 5.1.18 12:56
(Signature)			**(Signature)**		
RELINQUISHED BY (Printed Name)		**Date/Time**	**RECEIVED BY (Printed Name)**		**Date/Time**
(Signature)			**(Signature)**		

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154823

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1127		**MEDIA:**	GAS	
PRS ID:	TA-54		**SAMPLE TECH CODE:**	VOST	
LOCATION ID:	UNK	63-2012	**FIELD PREP:**	NA	
LOCATION TYPE:	MON	per GB 6/20/18	**FIELD QC TYPE:**	FD	
TOP DEPTH:	24		**SAMPLE USAGE:**	QC	
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: NA

LOCATION COMMENTS: Summa# N2493

FIELD PARAMETERS:

Sample Time NA HH:MM

$CH_4 = 0\%$ $CO_2 = 12{,}200\ ppm$ $O_2 = 19.8\%$ $VOC = 0.2\ ppm$

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) (Signature)	Katrina Tow	**Date/Time** 5/1/18 1256	**RECEIVED BY (Printed Name) (Signature)**	M. Martinez	**Date/Time** 5.1.18 1254
RELINQUISHED BY (Printed Name) (Signature)		**Date/Time**	**RECEIVED BY (Printed Name) (Signature)**		**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11786

EVENT NAME: 3rd Qtr FY2018, 54-009, TWF, Poregas Sampling and Analysis

SAMPLE ID: MD54-18-154824

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYY):	5/1/2018	OK	**FIELD MATRIX:**	GAS	OK
TIME COLLECTED (HH:MM):	1231		**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: NA

LOCATION COMMENTS: Summa # 33586

FIELD PARAMETERS:

Sample Time NA HH:MM

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) Katrina Tow **(Signature)**		**Date/Time** 5/1/2018 1256	**RECEIVED BY (Printed Name)** S. Sherwood **(Signature)** S Sherwood		**Date/Time** 5/1/18 12:56
RELINQUISHED BY (Printed Name) **(Signature)**		**Date/Time**	**RECEIVED BY (Printed Name)** **(Signature)**		**Date/Time**

Report Date: 04/10/2018

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.

6/28/18

Enrique Torres
Division Leader
Environmental Protection and Compliance Division
Los Alamos National Security, LLC

Date Signed

28 June 2018

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

Date Signed

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