

DOE Oversight Bureau, New Mexico Environment Department

**Groundwater Monitoring at
Sandia National Laboratories/New Mexico
Solid Waste Management Unit (SWMU) 68**

**Conducted by the
New Mexico Environment Department DOE Oversight Bureau
for FFY 2015 Q-1**

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Final Report

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The purpose of this communication is to transmit groundwater data collected by New Mexico Environment Department DOE Oversight Bureau from Solid Waste Management Unit (SWMU) 68 groundwater monitoring well OBS-MW1 during first quarter FFY 2015.

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Introductory remarks

The New Mexico Environment Department (NMED) DOE Oversight Bureau (Bureau) has compiled and assessed groundwater data collected during October 2014. The Bureau collected groundwater samples from Solid Waste Management Unit (SWMU) 68 Old Burn Site (OBS) groundwater monitoring well OBS-MW1 (Figure-1). Split samples were collected using standard Sandia sampling procedures and equipment. Bureau samples were submitted to an independent analytical laboratory where they were analyzed for total and dissolved metals, anions, nitrate-nitrite, total cyanide, perchlorate, hexavalent chromium, high explosive compounds, volatile and semi-volatile organic compounds, gross alpha and beta, gamma-emitting isotopes, isotopic americium, and isotopic uranium. No samples exceeded associated U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs) during this sampling event.

Data Assessment

All groundwater samples were collected and analyzed in accordance with U.S. EPA-specified protocols. Data results are compared to applicable MCLs established by the U.S. EPA National Primary Drinking Water Regulations (40 CFR 141), National Primary Drinking Water Standards, EPA, July 2002. Perchlorate results are compared to the *Compliance Order on Consent (COOC) Pursuant to the New Mexico Hazardous Waste Act 74-4-10: Sandia National Laboratories Consent Order*, New Mexico Environment Department, April 19, 2004.

Results

Analytical results for total and dissolved target analyte list (TAL) metals plus uranium are listed in Table-1. All metal concentrations were below established MCLs.

Analytical results for inorganics are listed in Table-2. Samples were analyzed for major anions (as bromide, chloride, fluoride, and sulfate), nitrate-nitrite as nitrogen, hexavalent chromium, perchlorate, and total cyanide. All analytes were below established MCLs. Perchlorate was not detected above the laboratory method detection limit (MDL).

Analytical results for high explosives (HE) compounds are listed in Table-3. No HE compounds were detected above their associated MDLs.

Analytical results for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) are presented in Table-4 and Table-5, respectively. No compounds were detected above the laboratory MDL.

Analytical results for radiochemistry samples are listed in Table-6. Samples were analyzed for gross alpha, gross beta, gamma-emitting isotopes, and isotopic uranium. Uncorrected gross alpha activity in OBS-MW1 was 15 ± 1.4 pCi/L, which exceeds the MCL of 15 pCi/L. When gross alpha was corrected by subtracting the activity for total uranium the value dropped below the MCL. No further isotopes were detected above EPA MCLs.

Conclusion

Groundwater samples were collected from monitoring well OBS-MW1 during this sampling event at SWMU-68. Analytical parameters included TAL metals plus uranium, major anions, nitrate-nitrite as nitrogen, hexavalent chromium, perchlorate, total cyanide, HE compounds, VOCs, SVOCs, gross alpha and beta activity, radionuclides by gamma spectroscopy, and isotopic uranium. All concentrations were either non-detects or below established MCLs.

References

Sandia National Laboratories, New Mexico Environmental Geographic Information System, Annual Groundwater Monitoring Report, Calendar Year 2012

U.S. EPA National Primary Drinking Water Regulations (40 CFR 141), National Primary Drinking Water Standards, EPA, July 2002.

New Mexico Environment Department, Compliance Order on Consent (COOC) Pursuant to the New Mexico Hazardous Waste Act 74-4-10: Sandia National Laboratories Consent Order, April 19, 2004.

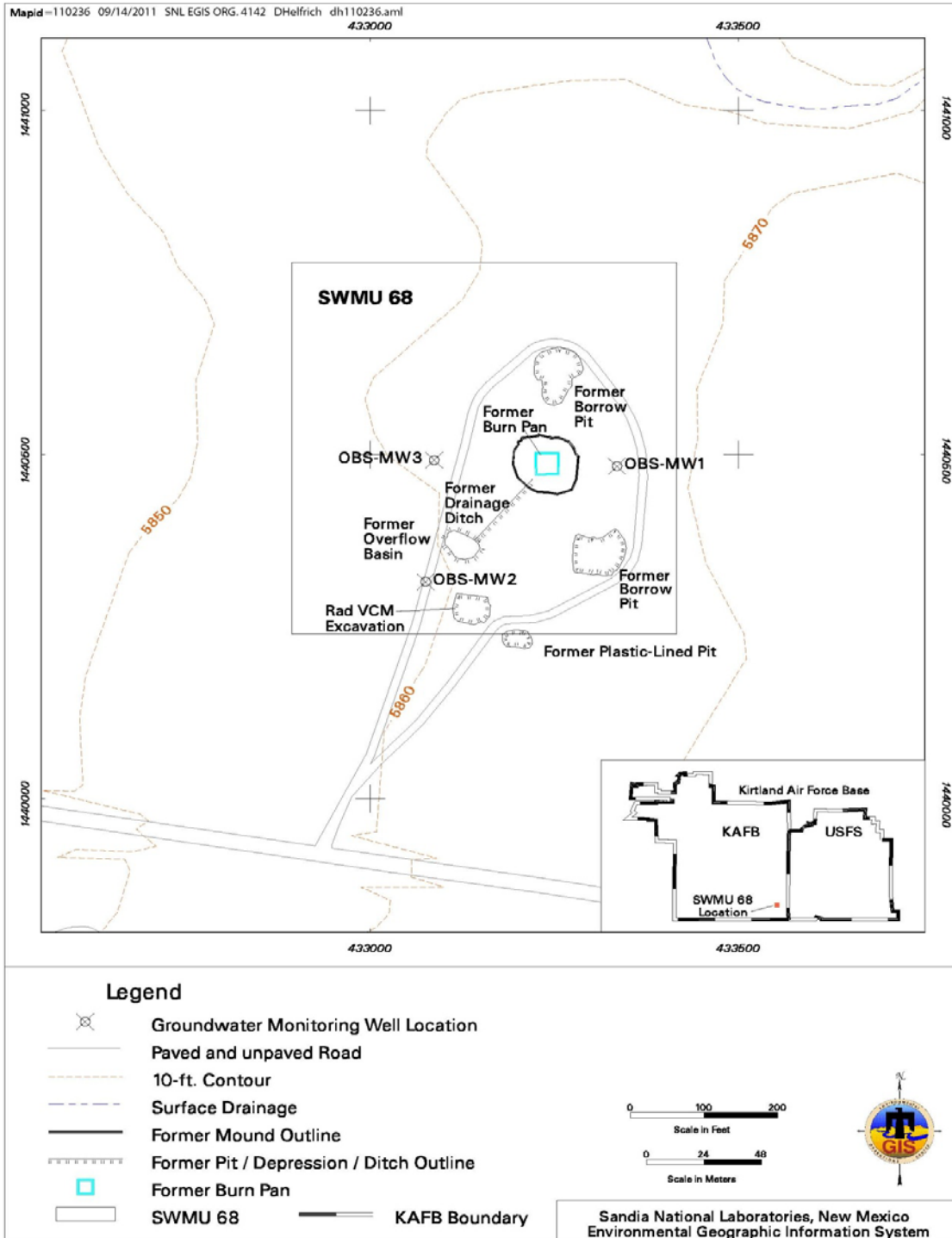


Figure 1. SWMU 68 Groundwater Monitoring Wells

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Table-1 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Total and Dissolved TAL Metals plus U

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Reporting Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14 Total	Aluminum	0.034	NE	0.05	0.017	J	SW-846:6020
	Antimony	0.00017	0.006	0.0003	0.00017	U	SW-846:6020
	Arsenic	0.00025	0.01	0.002	0.00025	U	SW-846:6020
	Barium	0.019	2	0.001	0.00041		SW-846:6020
	Beryllium	0.00013	0.004	0.0005	0.00013	U	SW-846:6020
	Cadmium	0.00012	0.005	0.0003	0.00012	U	SW-846:6020
	Calcium	80	NE	1	0.09		SW-846:6020
	Chromium	0.0013	0.1	0.01	0.0013	U	SW-846:6020
	Cobalt	0.00017	NE	0.001	0.00017	U	SW-846:6020
	Copper	0.0028	NE	0.01	0.0028	U	SW-846:6020
	Iron	0.045	NE	0.1	0.016	J	SW-846:6020
	Lead	0.00025	NE	0.0005	0.00025	U	SW-846:6020
	Magnesium	18	NE	0.1	0.039		SW-846:6020
	Manganese	0.00083	NE	0.002	0.00052	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0014	NE	0.005	0.0014	U	SW-846:6020
	Potassium	1.8	NE	1	0.16		SW-846:6020
	Selenium	0.004	0.05	0.001	0.00054		SW-846:6020
	Silver	0.00004	NE	0.0001	0.00004	U	SW-846:6020
	Sodium	25	NE	1	0.24		SW-846:6020
	Thallium	0.000042	0.002	0.0002	0.000042	U	SW-846:6020
Uranium	0.0094	0.03	0.0001	0.000088		SW-846:6020	
Vanadium	0.00052	NE	0.001	0.00052	U	SW-846:6020	
Zinc	0.0068	NE	0.02	0.0068	U	SW-846:6020	

J = the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

Table-1 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Total and Dissolved TAL Metals plus U

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Reporting Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14 Dissolved	Aluminum	0.025	NE	0.05	0.017	J	SW-846:6020
	Antimony	0.00017	0.006	0.0003	0.00017	U	SW-846:6020
	Arsenic	0.00025	0.01	0.002	0.00025	U	SW-846:6020
	Barium	0.019	2	0.001	0.00041		SW-846:6020
	Beryllium	0.00013	0.004	0.0005	0.00013	U	SW-846:6020
	Cadmium	0.00012	0.005	0.0003	0.00012	U	SW-846:6020
	Calcium	80	NE	1	0.09		SW-846:6020
	Chromium	0.0013	0.1	0.01	0.0013	U	SW-846:6020
	Cobalt	0.00017	NE	0.001	0.00017	U	SW-846:6020
	Copper	0.0028	NE	0.01	0.0028	U	SW-846:6020
	Iron	0.016	NE	0.1	0.016	U	SW-846:6020
	Lead	0.00025	NE	0.0005	0.00025	U	SW-846:6020
	Magnesium	17	NE	0.1	0.039		SW-846:6020
	Manganese	0.00052	NE	0.002	0.00052	U	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0014	NE	0.005	0.0014	U	SW-846:6020
	Potassium	1.8	NE	1	0.16		SW-846:6020
	Selenium	0.003	0.05	0.001	0.00054		SW-846:6020
	Silver	0.00004	NE	0.0001	0.00004	U	SW-846:6020
	Sodium	24	NE	1	0.24		SW-846:6020
Thallium	0.000042	0.002	0.0002	0.000042	U	SW-846:6020	
Uranium	0.0093	0.03	0.0001	0.000088		SW-846:6020	
Vanadium	0.00052	NE	0.001	0.00052	U	SW-846:6020	
Zinc	0.0068	NE	0.02	0.0068	U	SW-846:6020	

J = the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

Table-2 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Inorganics

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14	Bromide	0.37	NE	0.2	0.06		EPA:300.0
	Chloride	26	NE	1	0.31		EPA:300.0
	Fluoride	2.2	4	0.1	0.03		EPA:300.0
	Sulfate	80	NE	5	1.5		EPA:300.0
	Nitrate-Nitrite as Nitrogen	1.7	10	0.01	0.003		EPA:353.2
	Perchlorate	0.0012	NE	0.004	0.0012	U	EPA314.0
	Chromium hexavalent ion	0.003	0.1	0.01	0.003	U	SW7196
	Cyanide (Total)	0.003	200	0.01	0.003	U	SW-846:9014

NE = Not Established

U = Not Detected at or above the client requested detection limit.

Table-3 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: High Explosives

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14	Amino-2,6-dinitrotoluene[4-]	0.018	0.11	0.018	U	SW-846:8330
	Amino-4,6-dinitrotoluene[2-]	0.0097	0.11	0.0097	U	SW-846:8330
	Dinitrobenzene[1,3-]	0.0093	0.11	0.0093	U	SW-846:8330
	Dinitrotoluene[2,4-]	0.0099	0.11	0.0099	U	SW-846:8330
	Dinitrotoluene[2,6-]	0.059	0.22	0.059	U	SW-846:8330
	HMX	0.011	0.11	0.011	U	SW-846:8330
	Nitrobenzene	0.015	0.11	0.015	U	SW-846:8330
	Nitrotoluene[2-]	0.035	0.11	0.035	U	SW-846:8330
	Nitrotoluene[3-]	0.007	0.11	0.007	U	SW-846:8330
	Nitrotoluene[4-]	0.0066	0.11	0.0066	U	SW-846:8330
	RDX	0.019	0.11	0.019	U	SW-846:8330
	Tetryl	0.046	0.11	0.046	U	SW-846:8330
	Trinitrobenzene[1,3,5-]	0.055	0.22	0.055	U	SW-846:8330
	Trinitrotoluene[2,4,6-]	0.027	0.11	0.027	U	SW-846:8330

U = Not Detected at or above the client requested detection limit.

Table-4 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Volatile Organic Compounds

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14	Acetone	3	10	3	U	SW-846:8260B_25
	Benzene	0.3	1	0.3	U	SW-846:8260B_25
	Bromobenzene	0.3	1	0.3	U	SW-846:8260B_25
	Bromochloromethane	0.3	1	0.3	U	SW-846:8260B_25
	Bromodichloromethane	0.3	1	0.3	U	SW-846:8260B_25
	Bromoform	0.3	1	0.3	U	SW-846:8260B_25
	Bromomethane	0.3	1	0.3	U	SW-846:8260B_25
	Butanone[2-]	3	10	3	U	SW-846:8260B_25
	Butylbenzene[n-]	0.3	1	0.3	U	SW-846:8260B_25
	Butylbenzene[sec-]	0.3	1	0.3	U	SW-846:8260B_25
	Butylbenzene[tert-]	0.3	1	0.3	U	SW-846:8260B_25
	Carbon Disulfide	0.3	1	0.3	U	SW-846:8260B_25
	Carbon Tetrachloride	0.3	1	0.3	U	SW-846:8260B_25
	Chlorobenzene	0.3	1	0.3	U	SW-846:8260B_25
	Chlorodibromomethane	0.3	1	0.3	U	SW-846:8260B_25
	Chloroethane	0.3	1	0.3	U	SW-846:8260B_25
	Chloroform	0.3	1	0.3	U	SW-846:8260B_25
	Chlorohexane[1-]	0.3	1	0.3	U	SW-846:8260B_25
	Chloromethane	0.3	1	0.3	U	SW-846:8260B_25
	Chlorotoluene[2-]	0.3	1	0.3	U	SW-846:8260B_25
	Chlorotoluene[4-]	0.3	1	0.3	U	SW-846:8260B_25
	Dibromo-3-Chloropropane[1,2-]	0.6	2	0.6	U	SW-846:8260B_25
	Dibromoethane[1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Dibromomethane	0.3	1	0.3	U	SW-846:8260B_25
	Dichlorobenzene[1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichlorobenzene[1,3-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichlorobenzene[1,4-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichlorodifluoromethane	0.3	1	0.3	U	SW-846:8260B_25
	Dichloroethane[1,1-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloroethane[1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloroethene[1,1-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloroethene[cis-1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloroethene[trans-1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloropropane[1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloropropane[1,3-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloropropane[2,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloropropene[1,1-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloropropene[cis-1,3-]	0.3	1	0.3	U	SW-846:8260B_25
	Dichloropropene[trans-1,3-]	0.3	1	0.3	U	SW-846:8260B_25
	Ethylbenzene	0.3	1	0.3	U	SW-846:8260B_25
Hexachlorobutadiene	0.3	1	0.3	U	SW-846:8260B_25	
Hexanone[2-]	3	10	3	U	SW-846:8260B_25	

U = Not Detected at or above the client requested detection limit.

Table-4 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Volatile Organic Compounds

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14	Iodomethane	0.3	1	0.3	U	SW-846:8260B_25
	Isopropylbenzene	0.3	1	0.3	U	SW-846:8260B_25
	Isopropyltoluene[4-]	0.3	1	0.3	U	SW-846:8260B_25
	Methyl tert-Butyl Ether	0.3	1	0.3	U	SW-846:8260B_25
	Methyl-2-pentanone[4-]	3	10	3	U	SW-846:8260B_25
	Methylene Chloride	0.43	1	0.43	U	SW-846:8260B_25
	Naphthalene	0.3	1	0.3	U	SW-846:8260B_25
	Propylbenzene[1-]	0.3	1	0.3	U	SW-846:8260B_25
	Styrene	0.3	1	0.3	U	SW-846:8260B_25
	Tetrachloroethane[1,1,1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Tetrachloroethane[1,1,2,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Tetrachloroethene	0.2	1	0.2	U	SW-846:8260B_25
	Toluene	0.3	1	0.3	U	SW-846:8260B_25
	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Trichlorobenzene[1,2,3-]	0.3	1	0.3	U	SW-846:8260B_25
	Trichlorobenzene[1,2,4-]	0.3	1	0.3	U	SW-846:8260B_25
	Trichloroethane[1,1,1-]	0.3	1	0.3	U	SW-846:8260B_25
	Trichloroethane[1,1,2-]	0.3	1	0.3	U	SW-846:8260B_25
	Trichloroethene	0.3	1	0.3	U	SW-846:8260B_25
	Trichlorofluoromethane	0.3	1	0.3	U	SW-846:8260B_25
	Trichloropropane[1,2,3-]	0.3	1	0.3	U	SW-846:8260B_25
	Trimethylbenzene[1,2,4-]	0.3	1	0.3	U	SW-846:8260B_25
	Trimethylbenzene[1,3,5-]	0.3	1	0.3	U	SW-846:8260B_25
	Vinyl acetate	0.68	2	0.68	U	SW-846:8260B_25
	Vinyl Chloride	0.3	1	0.3	U	SW-846:8260B_25
Xylene[1,2-]	0.3	1	0.3	U	SW-846:8260B_25	
Xylene[1,3-]+Xylene[1,4-]	0.3	1	0.3	U	SW-846:8260B_25	

U = Not Detected at or above the client requested detection limit.

Table-5 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Semi-Volatile Organic Compounds

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14	Acenaphthene	3.2	11	3.2	U	SW-846:8270D
	Acenaphthylene	3.2	11	3.2	U	SW-846:8270D
	Aniline	4.4	11	4.4	U	SW-846:8270D
	Anthracene	3.2	11	3.2	U	SW-846:8270D
	Azobenzene	3.2	11	3.2	U	SW-846:8270D
	Benzo(a)anthracene	3.2	11	3.2	U	SW-846:8270D
	Benzo(a)pyrene	3.2	11	3.2	U	SW-846:8270D
	Benzo(b)fluoranthene	3.2	11	3.2	U	SW-846:8270D
	Benzo(g,h,i)perylene	3.2	11	3.2	U	SW-846:8270D
	Benzo(k)fluoranthene	3.2	11	3.2	U	SW-846:8270D
	Benzoic Acid	22	54	22	U	SW-846:8270D
	Benzyl Alcohol	3.2	11	3.2	U	SW-846:8270D
	Bis(2-chloroethoxy)methane	3.2	11	3.2	U	SW-846:8270D
	Bis(2-chloroethyl)ether	3.2	11	3.2	U	SW-846:8270D
	Bis(2-ethylhexyl)phthalate	3.2	11	3.2	U	SW-846:8270D
	Bromophenyl-phenylether[4-]	3.2	11	3.2	U	SW-846:8270D
	Butylbenzylphthalate	3.2	11	3.2	U	SW-846:8270D
	Carbazole	3.2	11	3.2	U	SW-846:8270D
	Chloro-3-methylphenol[4-]	3.2	11	3.2	U	SW-846:8270D
	Chloroaniline[4-]	3.7	11	3.7	U	SW-846:8270D
	Chloronaphthalene[2-]	3.2	11	3.2	U	SW-846:8270D
	Chlorophenol[2-]	3.2	11	3.2	U	SW-846:8270D
	Chlorophenyl-phenyl[4-] Ether	3.2	11	3.2	U	SW-846:8270D
	Chrysene	3.2	11	3.2	U	SW-846:8270D
	Dibenz(a,h)anthracene	3.2	11	3.2	U	SW-846:8270D
	Dibenzofuran	3.2	11	3.2	U	SW-846:8270D
	Dichlorobenzene[1,2-]	3.2	11	3.2	U	SW-846:8270D
	Dichlorobenzene[1,3-]	3.2	11	3.2	U	SW-846:8270D
	Dichlorobenzene[1,4-]	3.2	11	3.2	U	SW-846:8270D
	Dichlorobenzidine[3,3'-]	3.2	11	3.2	U	SW-846:8270D
	Dichlorophenol[2,4-]	3.2	11	3.2	U	SW-846:8270D
	Diethylphthalate	3.2	11	3.2	U	SW-846:8270D
	Dimethyl Phthalate	3.2	11	3.2	U	SW-846:8270D
	Dimethylphenol[2,4-]	3.2	11	3.2	U	SW-846:8270D
Di-n-butylphthalate	3.2	11	3.2	U	SW-846:8270D	
Dinitro-2-methylphenol[4,6-]	3.2	22	3.2	U	SW-846:8270D	
Dinitrophenol[2,4-]	5.8	22	5.8	U	SW-846:8270D	
Dinitrotoluene[2,4-]	3.2	11	3.2	U	SW-846:8270D	
Dinitrotoluene[2,6-]	3.2	11	3.2	U	SW-846:8270D	

U = Not Detected at or above the client requested detection limit.

Table-5 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Semi-Volatile Organic Compounds

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14	Di-n-octylphthalate	3.2	11	3.2	U	SW-846:8270D
	Fluoranthene	3.2	11	3.2	U	SW-846:8270D
	Fluorene	3.2	11	3.2	U	SW-846:8270D
	Hexachlorobenzene	3.2	11	3.2	U	SW-846:8270D
	Hexachlorobutadiene	3.2	11	3.2	U	SW-846:8270D
	Hexachlorocyclopentadiene	5.1	11	5.1	U	SW-846:8270D
	Hexachloroethane	3.2	11	3.2	U	SW-846:8270D
	Indeno(1,2,3-cd)pyrene	3.2	11	3.2	U	SW-846:8270D
	Isophorone	3.2	11	3.2	U	SW-846:8270D
	Methylnaphthalene[1-]	3.2	11	3.2	U	SW-846:8270D
	Methylnaphthalene[2-]	3.2	11	3.2	U	SW-846:8270D
	Methylphenol[2-]	3.2	11	3.2	U	SW-846:8270D
	Methylphenol[3-]	3.2	11	3.2	U	SW-846:8270D
	Naphthalene	3.2	11	3.2	U	SW-846:8270D
	Nitroaniline[2-]	6.5	22	6.5	U	SW-846:8270D
	Nitroaniline[3-]	3.2	22	3.2	U	SW-846:8270D
	Nitroaniline[4-]	3.2	22	3.2	U	SW-846:8270D
	Nitrobenzene	3.2	11	3.2	U	SW-846:8270D
	Nitrophenol[2-]	3.2	11	3.2	U	SW-846:8270D
	Nitrophenol[4-]	3.2	22	3.2	U	SW-846:8270D
	Nitrosodimethylamine[N-]	3.2	11	3.2	U	SW-846:8270D
	Nitroso-di-n-propylamine[N-]	3.2	11	3.2	U	SW-846:8270D
	Nitrosodiphenylamine[N-]	3.2	11	3.2	U	SW-846:8270D
	Oxybis(1-chloropropane)[2,2'-]	3.2	11	3.2	U	SW-846:8270D
	Pentachlorophenol	4.4	22	4.4	U	SW-846:8270D
	Phenanthrene	3.2	11	3.2	U	SW-846:8270D
	Phenol	3.2	11	3.2	U	SW-846:8270D
	Pyrene	3.2	11	3.2	U	SW-846:8270D
	Pyridine	4	11	4	U	SW-846:8270D
	Tetrachlorophenol[2,3,4,6-]	3.4	11	3.4	U	SW-846:8270D
Trichlorobenzene[1,2,4-]	3.2	11	3.2	U	SW-846:8270D	
Trichlorophenol[2,4,5-]	3.2	11	3.2	U	SW-846:8270D	
Trichlorophenol[2,4,6-]	3.2	11	3.2	U	SW-846:8270D	

U = Not Detected at or above the client requested detection limit.

Table-6 NMED DOE OB FFY 2015 Q-1 Solid Waste Management Unit 68 Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Emitting Isotopes, Isotopic Americium and Isotopic Uranium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
OBS-MW1 6-Oct-14	Actinium-228	18 ± 5.2	16		EPA:901.1
	Americium-241	-3.5 ± 7.8	26	U	EPA:901.1
	Americium-241	-0.011 ± 0.0081	0.037	U	HASL-300:AM-241
	Beryllium-7	-11 ± 11	37	U	EPA:901.1
	Bismuth-212	26 ± 18	58	U	EPA:901.1
	Bismuth-214	3.6 ± 6.4	21	UJ	EPA:901.1
	Cesium-134	1.1 ± 1.3	4.4	U	EPA:901.1
	Cesium-137	-1.9 ± 1.1	4	U	EPA:901.1
	Cobalt-60	-1.9 ± 1.4	4.8	U	EPA:901.1
	Gross alpha	15 ± 1.4	1.3		EPA:900
	Gross beta	3.6 ± 0.65	1.9		EPA:900
	Iodine-131	1.9 ± 4.9	17	U	EPA:901.1
	Lead-212	-1.8 ± 3.8	13	U	EPA:901.1
	Lead-214	1.1 ± 4.9	16	UJ	EPA:901.1
	Potassium-40	-0.59 ± 37	120	U	EPA:901.1
	Protactinium-234m	510 ± 210	660	U	EPA:901.1
	Sodium-22	-1.8 ± 1.4	5	U	EPA:901.1
	Thallium-208	0.34 ± 2.7	9.1	U	EPA:901.1
	Thorium-234	-13 ± 38	130	U	EPA:901.1
	Uranium-234	17 ± 1.4	0.043		HASL-300:ISOU
Uranium-235	0.15 ± 0.032	0.049		HASL-300:ISOU	
Uranium-238	3 ± 0.27	0.046		HASL-300:ISOU	