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Groundwater Monitoring at Sandia National Laboratories/New Mexico Burn Site Conducted by NMED DOE OB for FFY 2011 Q-3

The New Mexico Environment Department (NMED) DOE Oversight Bureau (Bureau) has compiled and assessed groundwater data collected during May 2011. The Bureau collected groundwater samples from Burn Site groundwater monitoring wells CYN-MW9, CYN-MW10, CYN-MW11 and CYN-MW12. Split samples were collected using standard Sandia National Laboratories/New Mexico sampling procedures and equipment. Bureau samples were submitted to an independent analytical laboratory where they were analyzed for non-metal inorganics and organic compounds. Several samples analyzed for nitrate-nitrite as nitrogen were detected above the EPA MCL of 10 mg/L.

Data Assessment

Data results are compared to applicable Maximum Contaminant Levels (MCLs) established by the U.S. Environmental Protection Agency (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 nitrate-nitrite as Nitrogen and perchlorate are presented in Table-1. Nitrate concentrations were detected above the EPA MCL of 10 mg/L at monitoring wells CYN-MW-MW9 (30 mg/L), CYN-MW11 (11 mg/L) and CYN-MW12 (11 mg/L). No samples analyzed for perchlorate exceeded the COOC screening level of 4 µg/L.

Analytical results for High Explosives (HE) are listed in Table-2. No HE compounds were detected above the method detection limits (MDLs).

Analytical results for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and gasoline/diesel/oil organic compounds, and are presented in Table-3, Table-4 and Table-5, respectively. All parameters were detected below their MDLs.

Response

Questions or comments should be addressed to Chris Armijo by phone at (505) 383-2070, by e-mail at chris.armijo1@state.nm.us, or to the address in the letterhead.

Enclosure:
(1) Table-1 Nitrate-Nitrite as Nitrogen & Perchlorate Results
(2) Table-2 High Explosive Compounds Results
(3) Table-3 Volatile Organic Compounds Results
(4) Table-4 Semi-Volatile Organic Compounds Results
(5) Table-5 Diesel/Gasoline/Oil Range Organic Compounds Results

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File: SGE42.Groundwater Monitoring. BSG. FFY 2011 Q-3

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Table-1 NMED DOE OB FFY 2011 Q-3 Burn Site Groundwater Quality Results: Nitrate-Nitrite as Nitrogen and Perchlorate

Monitoring Well/ Sample Date	Analyte	Result	EPA MCL	Quantitation Limit	MDL	Units	Laboratory Qualifier	Analytical Method
CYN-MW9 11-May-11	Nitrate-Nitrite as N	**30**	10	2	0.27	mg/L		EPA:300.0
	Perchlorate	2.1	NE	2	0.47	ug/L		EPA:314.0
CYN-MW10 10-May-11	Nitrate-Nitrite as N	9.6	10	2	0.27	mg/L		EPA:300.0
	Perchlorate	0.47	NE	2	0.47	ug/L	U	EPA:314.0
CYN-MW10 10-May-11 Dup	Nitrate-Nitrite as N	9.6	10	2	0.27	mg/L		EPA:300.0
	Perchlorate	1.1	NE	2	0.47	ug/L	J	EPA:314.0
CYN-MW11 3-May-11	Nitrate-Nitrite as N	**11**	10	2	0.27	mg/L		EPA:300.0
	Perchlorate	1.3	NE	2	0.47	ug/L	J	EPA:314.0
CYN-MW12 5-May-11	Nitrate-Nitrite as N	**11**	10	2	0.27	mg/L		EPA:300.0
	Perchlorate	2.2	NE	2	0.47	ug/L		EPA:314.0

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-2 NMED DOE OB FFY 2011 Q-3 Burn Site Groundwater Quality Results: High Explosives

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
CYN-MW9 11-May-11	1,3,5-trinitrobenzene	0.02	0.12	0.02	U	SW-846:8321A(M)
	1,3-dichlorobenzene	0.017	0.12	0.017	*,U	SW-846:8321A(M)
	2,4,6-Trinitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	2,4-Dinitrotoluene	0.022	0.12	0.022	*,U	SW-846:8321A(M)
	2,6-Dinitrotoluene	0.026	0.12	0.026	*,U	SW-846:8321A(M)
	2-Amino-4,6-dinitrotoluene	0.025	0.12	0.025	U	SW-846:8321A(M)
	2-nitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	3-Nitrotoluene	0.03	0.12	0.03	U	SW-846:8321A(M)
	4-Amino-2,6-dinitrotoluene	0.022	0.12	0.022	U	SW-846:8321A(M)
	4-Methylnitrobenzene	0.031	0.12	0.031	U	SW-846:8321A(M)
	HMX	0.022	0.12	0.022	U	SW-846:8321A(M)
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A(M)
	RDX	0.025	0.12	0.025	U	SW-846:8321A(M)
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A(M)
CYN-MW10 10-May-11	1,3,5-trinitrobenzene	0.02	0.12	0.02	U	SW-846:8321A(M)
	1,3-dichlorobenzene	0.017	0.12	0.017	*,U	SW-846:8321A(M)
	2,4,6-Trinitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	2,4-Dinitrotoluene	0.023	0.12	0.023	*,U	SW-846:8321A(M)
	2,6-Dinitrotoluene	0.026	0.12	0.026	*,U	SW-846:8321A(M)
	2-Amino-4,6-dinitrotoluene	0.025	0.12	0.025	U	SW-846:8321A(M)
	2-nitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	3-Nitrotoluene	0.03	0.12	0.03	U	SW-846:8321A(M)
	4-Amino-2,6-dinitrotoluene	0.023	0.12	0.023	U	SW-846:8321A(M)
	4-Methylnitrobenzene	0.031	0.12	0.031	U	SW-846:8321A(M)
	HMX	0.023	0.12	0.023	U	SW-846:8321A(M)
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A(M)
	RDX	0.025	0.12	0.025	U	SW-846:8321A(M)
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A(M)

* = LCS or LCSD exceeds the control limits

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-2 NMED DOE OB FFY 2011 Q-3 Burn Site Groundwater Quality Results: High Explosives

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
CYN-MW10 10-May-11 Dup	1,3,5-trinitrobenzene	0.02	0.12	0.02	U	SW-846:8321A(M)
	1,3-dichlorobenzene	0.017	0.12	0.017	*,U	SW-846:8321A(M)
	2,4,6-Trinitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	2,4-Dinitrotoluene	0.023	0.12	0.023	*,U	SW-846:8321A(M)
	2,6-Dinitrotoluene	0.026	0.12	0.026	*,U	SW-846:8321A(M)
	2-Amino-4,6-dinitrotoluene	0.025	0.12	0.025	U	SW-846:8321A(M)
	2-nitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	3-Nitrotoluene	0.03	0.12	0.03	U	SW-846:8321A(M)
	4-Amino-2,6-dinitrotoluene	0.023	0.12	0.023	U	SW-846:8321A(M)
	4-Methylnitrobenzene	0.031	0.12	0.031	U	SW-846:8321A(M)
	HMX	0.023	0.12	0.023	U	SW-846:8321A(M)
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A(M)
	RDX	0.025	0.12	0.025	U	SW-846:8321A(M)
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A(M)
CYN-MW11 3-May-11	1,3,5-trinitrobenzene	0.02	0.12	0.02	U	SW-846:8321A(M)
	1,3-dichlorobenzene	0.016	0.12	0.016	U	SW-846:8321A(M)
	2,4,6-Trinitrotoluene	0.025	0.12	0.025	U	SW-846:8321A(M)
	2,4-Dinitrotoluene	0.022	0.12	0.022	U	SW-846:8321A(M)
	2,6-Dinitrotoluene	0.025	0.12	0.025	U	SW-846:8321A(M)
	2-Amino-4,6-dinitrotoluene	0.024	0.12	0.024	U	SW-846:8321A(M)
	2-nitrotoluene	0.025	0.12	0.025	U	SW-846:8321A(M)
	3-Nitrotoluene	0.029	0.12	0.029	U	SW-846:8321A(M)
	4-Amino-2,6-dinitrotoluene	0.022	0.12	0.022	U	SW-846:8321A(M)
	4-Methylnitrobenzene	0.03	0.12	0.03	U	SW-846:8321A(M)
	HMX	0.044	0.23	0.044	U	SW-846:8321A
	Nitrobenzene	0.038	0.12	0.038	U	SW-846:8321A(M)
	RDX	0.024	0.12	0.024	U	SW-846:8321A(M)
	Tetryl	0.024	0.12	0.024	U	SW-846:8321A(M)

* = LCS or LCSD exceeds the control limits

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-2 NMED DOE OB FFY 2011 Q-3 Burn Site Groundwater Quality Results: High Explosives

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
CYN-MW12 5-May-11	1,3,5-trinitrobenzene	0.02	0.12	0.02	U	SW-846:8321A(M)
	1,3-dichlorobenzene	0.017	0.12	0.017	U	SW-846:8321A(M)
	2,4,6-Trinitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	2,4-Dinitrotoluene	0.022	0.12	0.022	U	SW-846:8321A(M)
	2,6-Dinitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	2-Amino-4,6-dinitrotoluene	0.025	0.12	0.025	U	SW-846:8321A(M)
	2-nitrotoluene	0.026	0.12	0.026	U	SW-846:8321A(M)
	3-Nitrotoluene	0.03	0.12	0.03	U	SW-846:8321A(M)
	4-Amino-2,6-dinitrotoluene	0.022	0.12	0.022	U	SW-846:8321A(M)
	4-Methylnitrobenzene	0.031	0.12	0.031	U	SW-846:8321A(M)
	HMX	0.022	0.12	0.022	U	SW-846:8321A(M)
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A(M)
	RDX	0.025	0.12	0.025	U	SW-846:8321A(M)
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A(M)

* = LCS or LCSD exceeds the control limits

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-3 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW9 11-May-11	Acetone	3.8	20	3.8	U	SW-846:8260B
	Benzene	0.15	1	0.15	U	SW-846:8260B
	Bromodichloromethane	0.15	1	0.15	U	SW-846:8260B
	Bromoform	0.19	1	0.19	U	SW-846:8260B
	Bromomethane	0.22	2	0.22	U	SW-846:8260B
	Butanone[2-]	1.8	5	1.8	U	SW-846:8260B
	Carbon Disulfide	0.18	1	0.18	U	SW-846:8260B
	Carbon tetrachloride	0.19	1	0.19	U	SW-846:8260B
	Chlorobenzene	0.12	1	0.12	U	SW-846:8260B
	Chloroethane	0.26	1	0.26	U	SW-846:8260B
	Chloroform	0.16	1	0.16	U	SW-846:8260B
	Chloromethane	0.2	5	0.2	U	SW-846:8260B
	Dibromochloromethane	0.15	1	0.15	U	SW-846:8260B
	Dichloroethane[1,1-]	0.17	1	0.17	U	SW-846:8260B
	Dichloroethane[1,2-]	0.2	1	0.2	U	SW-846:8260B
	Dichloroethene[cis/trans-1,2-]	0.22	1	0.22	U	SW-846:8260B
	Dichloroethene[cis-1,2-]	0.18	1	0.18	U	SW-846:8260B
	Dichloroethylene[1,1-]	0.23	1	0.23	U	SW-846:8260B
	Dichloropropane[1,2-]	0.15	1	0.15	U	SW-846:8260B
	Dichloropropylene[cis-1,3-]	0.17	1	0.17	U	SW-846:8260B
	Dichloropropylene[trans-1,3-]	0.097	1	0.097	U	SW-846:8260B
	Ethylbenzene	0.16	1	0.16	U	SW-846:8260B
	Hexanone[2-]	0.31	5	0.31	U	SW-846:8260B
	Methyl-2-pentanone[4-]	0.43	5	0.43	U	SW-846:8260B
	Methylene chloride	1.1	2	0.5	J	SW-846:8260B
	Styrene	0.15	1	0.15	U	SW-846:8260B
	Tetrachloroethane[1,1,2,2-]	0.12	1	0.12	U	SW-846:8260B
	Tetrachloroethylene	0.23	1	0.23	U	SW-846:8260B
	Toluene	0.35	1	0.35	U	SW-846:8260B
	Trichloroethane[1,1,1-]	0.22	1	0.22	U	SW-846:8260B
	Trichloroethane[1,1,2-]	0.19	1	0.19	U	SW-846:8260B
	Trichloroethylene	0.19	1	0.19	U	SW-846:8260B
	Vinyl acetate	0.21	1	0.21	U	SW-846:8260B
	Vinyl chloride	0.24	1	0.24	U	SW-846:8260B
	Xylene (Total)	0.54	2	0.54	U	SW-846:8260B
	Xylene(m+p)	0.35	2	0.35	U	SW-846:8260B
	Xylene[1,2-]	0.19	1	0.19	U	SW-846:8260B

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-3 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW10 10-May-11	Acetone	3.8	20	3.8	U	SW-846:8260B
	Benzene	0.15	1	0.15	U	SW-846:8260B
	Bromodichloromethane	0.15	1	0.15	U	SW-846:8260B
	Bromoform	0.19	1	0.19	U	SW-846:8260B
	Bromomethane	0.22	2	0.22	U	SW-846:8260B
	Butanone[2-]	1.8	5	1.8	U	SW-846:8260B
	Carbon Disulfide	0.18	1	0.18	U	SW-846:8260B
	Carbon tetrachloride	0.19	1	0.19	U	SW-846:8260B
	Chlorobenzene	0.12	1	0.12	U	SW-846:8260B
	Chloroethane	0.26	1	0.26	U	SW-846:8260B
	Chloroform	0.16	1	0.16	U	SW-846:8260B
	Chloromethane	0.2	5	0.2	U	SW-846:8260B
	Dibromochloromethane	0.15	1	0.15	U	SW-846:8260B
	Dichloroethane[1,1-]	0.17	1	0.17	U	SW-846:8260B
	Dichloroethane[1,2-]	0.2	1	0.2	U	SW-846:8260B
	Dichloroethene[cis/trans-1,2-]	0.22	1	0.22	U	SW-846:8260B
	Dichloroethene[cis-1,2-]	0.18	1	0.18	U	SW-846:8260B
	Dichloroethylene[1,1-]	0.23	1	0.23	U	SW-846:8260B
	Dichloropropane[1,2-]	0.15	1	0.15	U	SW-846:8260B
	Dichloropropylene[cis-1,3-]	0.17	1	0.17	U	SW-846:8260B
	Dichloropropylene[trans-1,3-]	0.097	1	0.097	U	SW-846:8260B
	Ethylbenzene	0.16	1	0.16	U	SW-846:8260B
	Hexanone[2-]	0.31	5	0.31	U	SW-846:8260B
	Methyl-2-pentanone[4-]	0.43	5	0.43	U	SW-846:8260B
	Methylene chloride	0.5	2	0.5	U	SW-846:8260B
	Styrene	0.15	1	0.15	U	SW-846:8260B
	Tetrachloroethane[1,1,2,2-]	0.12	1	0.12	U	SW-846:8260B
	Tetrachloroethylene	0.23	1	0.23	U	SW-846:8260B
	Toluene	0.35	1	0.35	U	SW-846:8260B
	Trichloroethane[1,1,1-]	0.22	1	0.22	U	SW-846:8260B
	Trichloroethane[1,1,2-]	0.19	1	0.19	U	SW-846:8260B
	Trichloroethylene	0.19	1	0.19	U	SW-846:8260B
	Vinyl acetate	0.21	1	0.21	U	SW-846:8260B
	Vinyl chloride	0.24	1	0.24	U	SW-846:8260B
	Xylene (Total)	0.54	2	0.54	U	SW-846:8260B
	Xylene(m+p)	0.35	2	0.35	U	SW-846:8260B
	Xylene[1,2-]	0.19	1	0.19	U	SW-846:8260B

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-3 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW10 10-May-11 DUP	Acetone	3.8	20	3.8	U	SW-846:8260B
	Benzene	0.15	1	0.15	U	SW-846:8260B
	Bromodichloromethane	0.15	1	0.15	U	SW-846:8260B
	Bromoform	0.19	1	0.19	U	SW-846:8260B
	Bromomethane	0.22	2	0.22	U	SW-846:8260B
	Butanone[2-]	1.8	5	1.8	U	SW-846:8260B
	Carbon Disulfide	0.18	1	0.18	U	SW-846:8260B
	Carbon tetrachloride	0.19	1	0.19	U	SW-846:8260B
	Chlorobenzene	0.12	1	0.12	U	SW-846:8260B
	Chloroethane	0.26	1	0.26	U	SW-846:8260B
	Chloroform	0.16	1	0.16	U	SW-846:8260B
	Chloromethane	0.2	5	0.2	U	SW-846:8260B
	Dibromochloromethane	0.15	1	0.15	U	SW-846:8260B
	Dichloroethane[1,1-]	0.17	1	0.17	U	SW-846:8260B
	Dichloroethane[1,2-]	0.2	1	0.2	U	SW-846:8260B
	Dichloroethene[cis/trans-1,2-]	0.22	1	0.22	U	SW-846:8260B
	Dichloroethene[cis-1,2-]	0.18	1	0.18	U	SW-846:8260B
	Dichloroethylene[1,1-]	0.23	1	0.23	U	SW-846:8260B
	Dichloropropane[1,2-]	0.15	1	0.15	U	SW-846:8260B
	Dichloropropylene[cis-1,3-]	0.17	1	0.17	U	SW-846:8260B
	Dichloropropylene[trans-1,3-]	0.097	1	0.097	U	SW-846:8260B
	Ethylbenzene	0.16	1	0.16	U	SW-846:8260B
	Hexanone[2-]	0.31	5	0.31	U	SW-846:8260B
	Methyl-2-pentanone[4-]	0.43	5	0.43	U	SW-846:8260B
	Methylene chloride	1	2	0.5	J	SW-846:8260B
	Styrene	0.15	1	0.15	U	SW-846:8260B
	Tetrachloroethane[1,1,2,2-]	0.12	1	0.12	U	SW-846:8260B
	Tetrachloroethylene	0.23	1	0.23	U	SW-846:8260B
	Toluene	0.35	1	0.35	U	SW-846:8260B
	Trichloroethane[1,1,1-]	0.22	1	0.22	U	SW-846:8260B
	Trichloroethane[1,1,2-]	0.19	1	0.19	U	SW-846:8260B
	Trichloroethylene	0.19	1	0.19	U	SW-846:8260B
	Vinyl acetate	0.21	1	0.21	U	SW-846:8260B
	Vinyl chloride	0.24	1	0.24	U	SW-846:8260B
	Xylene (Total)	0.54	2	0.54	U	SW-846:8260B
	Xylene(m+p)	0.35	2	0.35	U	SW-846:8260B
	Xylene[1,2-]	0.19	1	0.19	U	SW-846:8260B

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-3 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW11 3-May-11	Acetone	3.8	20	3.8	U	SW-846:8260B
	Benzene	0.15	1	0.15	U	SW-846:8260B
	Bromodichloromethane	0.15	1	0.15	U	SW-846:8260B
	Bromoform	0.19	1	0.19	U	SW-846:8260B
	Bromomethane	0.22	2	0.22	U	SW-846:8260B
	Butanone[2-]	1.8	5	1.8	U	SW-846:8260B
	Carbon Disulfide	0.18	1	0.18	U	SW-846:8260B
	Carbon tetrachloride	0.19	1	0.19	U	SW-846:8260B
	Chlorobenzene	0.12	1	0.12	U	SW-846:8260B
	Chloroethane	0.26	1	0.26	U	SW-846:8260B
	Chloroform	0.16	1	0.16	U	SW-846:8260B
	Chloromethane	0.2	5	0.2	U	SW-846:8260B
	Dibromochloromethane	0.15	1	0.15	U	SW-846:8260B
	Dichloroethane[1,1-]	0.17	1	0.17	U	SW-846:8260B
	Dichloroethane[1,2-]	0.2	1	0.2	U	SW-846:8260B
	Dichloroethene[cis/trans-1,2-]	0.22	1	0.22	U	SW-846:8260B
	Dichloroethene[cis-1,2-]	0.18	1	0.18	U	SW-846:8260B
	Dichloroethylene[1,1-]	0.23	1	0.23	U	SW-846:8260B
	Dichloropropane[1,2-]	0.15	1	0.15	U	SW-846:8260B
	Dichloropropylene[cis-1,3-]	0.17	1	0.17	U	SW-846:8260B
	Dichloropropylene[trans-1,3-]	0.097	1	0.097	U	SW-846:8260B
	Ethylbenzene	0.16	1	0.16	U	SW-846:8260B
	Hexanone[2-]	0.31	5	0.31	U	SW-846:8260B
	Methyl-2-pentanone[4-]	0.43	5	0.43	U	SW-846:8260B
	Methylene chloride	0.5	2	0.5	U	SW-846:8260B
	Styrene	0.15	1	0.15	U	SW-846:8260B
	Tetrachloroethane[1,1,2,2-]	0.12	1	0.12	U	SW-846:8260B
	Tetrachloroethylene	0.23	1	0.23	U	SW-846:8260B
	Toluene	0.35	1	0.35	U	SW-846:8260B
	Trichloroethane[1,1,1-]	0.22	1	0.22	U	SW-846:8260B
	Trichloroethane[1,1,2-]	0.19	1	0.19	U	SW-846:8260B
	Trichloroethylene	0.19	1	0.19	U	SW-846:8260B
	Vinyl acetate	0.21	1	0.21	U	SW-846:8260B
	Vinyl chloride	0.24	1	0.24	U	SW-846:8260B
	Xylene (Total)	0.54	2	0.54	U	SW-846:8260B
	Xylene(m+p)	0.35	2	0.35	U	SW-846:8260B
	Xylene[1,2-]	0.19	1	0.19	U	SW-846:8260B

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-3 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW12 5-May-11	Acetone	3.8	20	3.8	U	SW-846:8260B
	Benzene	0.15	1	0.15	U	SW-846:8260B
	Bromodichloromethane	0.15	1	0.15	U	SW-846:8260B
	Bromoform	0.19	1	0.19	U	SW-846:8260B
	Bromomethane	0.22	2	0.22	U	SW-846:8260B
	Butanone[2-]	1.8	5	1.8	U	SW-846:8260B
	Carbon Disulfide	0.18	1	0.18	U	SW-846:8260B
	Carbon tetrachloride	0.19	1	0.19	U	SW-846:8260B
	Chlorobenzene	0.12	1	0.12	U	SW-846:8260B
	Chloroethane	0.26	1	0.26	U	SW-846:8260B
	Chloroform	0.16	1	0.16	U	SW-846:8260B
	Chloromethane	0.2	5	0.2	U	SW-846:8260B
	Dibromochloromethane	0.15	1	0.15	U	SW-846:8260B
	Dichloroethane[1,1-]	0.17	1	0.17	U	SW-846:8260B
	Dichloroethane[1,2-]	0.2	1	0.2	U	SW-846:8260B
	Dichloroethene[cis/trans-1,2-]	0.22	1	0.22	U	SW-846:8260B
	Dichloroethene[cis-1,2-]	0.18	1	0.18	U	SW-846:8260B
	Dichloroethylene[1,1-]	0.23	1	0.23	U	SW-846:8260B
	Dichloropropane[1,2-]	0.15	1	0.15	U	SW-846:8260B
	Dichloropropylene[cis-1,3-]	0.17	1	0.17	U	SW-846:8260B
	Dichloropropylene[trans-1,3-]	0.097	1	0.097	U	SW-846:8260B
	Ethylbenzene	0.16	1	0.16	U	SW-846:8260B
	Hexanone[2-]	0.31	5	0.31	U	SW-846:8260B
	Methyl-2-pentanone[4-]	0.43	5	0.43	U	SW-846:8260B
	Methylene chloride	0.5	2	0.5	U	SW-846:8260B
	Styrene	0.15	1	0.15	U	SW-846:8260B
	Tetrachloroethane[1,1,2,2-]	0.12	1	0.12	U	SW-846:8260B
	Tetrachloroethylene	0.23	1	0.23	U	SW-846:8260B
	Toluene	0.35	1	0.35	U	SW-846:8260B
	Trichloroethane[1,1,1-]	0.22	1	0.22	U	SW-846:8260B
	Trichloroethane[1,1,2-]	0.19	1	0.19	U	SW-846:8260B
	Trichloroethylene	0.19	1	0.19	U	SW-846:8260B
	Vinyl acetate	0.21	1	0.21	U	SW-846:8260B
	Vinyl chloride	0.24	1	0.24	U	SW-846:8260B
	Xylene (Total)	0.54	2	0.54	U	SW-846:8260B
	Xylene(m+p)	0.35	2	0.35	U	SW-846:8260B
	Xylene[1,2-]	0.19	1	0.19	U	SW-846:8260B

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW9 11-May-11	1,2,4-Trichlorobenzene	4.1	12	4.1	U	SW-846:8270
	1,2-Dichlorobenzene	3.3	12	3.3	U	SW-846:8270
	1,3-dichlorobenzene	3.9	12	3.9	U	SW-846:8270
	1,4-Dichlorobenzene	3.8	12	3.8	U	SW-846:8270
	2,2'-oxybis[1-chloropropane]	3.4	12	3.4	U	SW-846:8270
	2,4,5-Trichlorophenol	3.1	24	3.1	U	SW-846:8270
	2,4,6-trichlorophenol	3.2	24	3.2	U	SW-846:8270
	2,4-Dichlorophenol	3.9	12	3.9	U	SW-846:8270
	2,4-Dimethylphenol	6.1	12	6.1	U	SW-846:8270
	2,4-dinitrophenol	22	59	22	U	SW-846:8270
	2,4-Dinitrotoluene	9.2	12	9.2	U	SW-846:8270
	2,6-Dinitrotoluene	6.9	12	6.9	U	SW-846:8270
	2-Chloronaphthalene	2.6	12	2.6	U	SW-846:8270
	2-Chlorophenol	4.5	12	4.5	U	SW-846:8270
	2-Methylnaphthalene	3.2	12	3.2	U	SW-846:8270
	2-Methylphenol	3.6	12	3.6	U	SW-846:8270
	2-Nitroaniline	8.4	12	8.4	U	SW-846:8270
	2-Nitrophenol	6.7	18	6.7	U	SW-846:8270
	3,3'-Dichlorobenzidine	3.6	12	3.6	U	SW-846:8270
	3-Nitroaniline	7.5	12	7.5	U	SW-846:8270
	4,6-Dinitro-2-Methylphenol	22	59	22	U	SW-846:8270
	4-Bromophenyl phenyl ether	3.2	12	3.2	U	SW-846:8270
	4-Chloro-3-methylphenol	3.3	12	3.3	U	SW-846:8270
	4-chloroaniline	2.6	12	2.6	U	SW-846:8270
	4-Chlorophenyl phenyl ether	2.8	12	2.8	U	SW-846:8270
	4-Methylphenol	6.7	12	6.7	U	SW-846:8270
	4-Nitroaniline	3.8	12	3.8	U	SW-846:8270
	4-Nitrophenol	11	29	11	U	SW-846:8270
	Acenaphthene	2.5	12	2.5	U	SW-846:8270
	Acenaphthene	2.5	12	2.5	U	SW-846:8270
	Anthracene	2.6	12	2.6	U	SW-846:8270
	Azobenzene	2.6	12	2.6	U	SW-846:8270
	Benzo(a)anthracene	2.6	12	2.6	U	SW-846:8270
	Benzo(a)pyrene	2.6	12	2.6	U	SW-846:8270
	Benzo(b)fluoranthene	2.5	12	2.5	U	SW-846:8270
	Benzo(g,h,i)perylene	4.2	12	4.2	U	SW-846:8270
	Benzo(k)fluoranthene	3.1	12	3.1	U	SW-846:8270
	Benzyl Alcohol	4.9	12	4.9	U	SW-846:8270
	Bis(2-chloroethoxy)methane	3.3	12	3.3	U	SW-846:8270
	Bis(2-chloroethyl)ether	2.9	12	2.9	U	SW-846:8270
	Bis(2-ethylhexyl)phthalate	3.5	12	3.5	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW9 11-May-11	Butylbenzylphthalate	2.6	12	2.6	U	SW-846:8270
	Chrysene	2.8	12	2.8	U	SW-846:8270
	Dibenz(a,h)anthracene	4.8	12	4.8	U	SW-846:8270
	Dibenzofuran	2.6	12	2.6	U	SW-846:8270
	Diethylphthalate	3	12	3	U	SW-846:8270
	Dimethyl Phthalate	5.8	24	5.8	U	SW-846:8270
	Di-n-butylphthalate	2.9	12	2.9	U	SW-846:8270
	Di-n-octylphthalate	2.9	12	2.9	U	SW-846:8270
	Fluoranthene	3	12	3	U	SW-846:8270
	Fluorene	2.6	12	2.6	U	SW-846:8270
	Hexachlorobenzene	2.9	12	2.9	U	SW-846:8270
	Hexachlorobutadiene	6.6	12	6.6	U	SW-846:8270
	Hexachlorocyclopentadiene	8.1	12	8.1	U	SW-846:8270
	Hexachloroethane	4.5	12	4.5	U	SW-846:8270
	Indeno(1,2,3-cd)pyrene	4.1	12	4.1	U	SW-846:8270
	Isophorone	3.1	12	3.1	U	SW-846:8270
	Naphthalene	3.2	12	3.2	U	SW-846:8270
	Nitrobenzene	2.8	12	2.8	U	SW-846:8270
	N-Nitrosodiphenylamine	2.8	12	2.8	U	SW-846:8270
	N-nitrosodipropylamine	3.7	12	3.7	U	SW-846:8270
	Pentachlorophenol	16	59	16	U	SW-846:8270
	Phenanthrene	2.6	12	2.6	U	SW-846:8270
	Phenol	4.4	12	4.4	U	SW-846:8270
	Pyrene	2.5	12	2.5	U	SW-846:8270
CYN-MW10 10-May-11	1,2,4-Trichlorobenzene	4.1	12	4.1	U	SW-846:8270
	1,2-Dichlorobenzene	3.3	12	3.3	U	SW-846:8270
	1,3-dichlorobenzene	3.9	12	3.9	U	SW-846:8270
	1,4-Dichlorobenzene	3.8	12	3.8	U	SW-846:8270
	2,2'-oxybis[1-chloropropane]	3.4	12	3.4	U	SW-846:8270
	2,4,5-Trichlorophenol	3.1	24	3.1	U	SW-846:8270
	2,4,6-trichlorophenol	3.2	24	3.2	U	SW-846:8270
	2,4-Dichlorophenol	3.9	12	3.9	U	SW-846:8270
	2,4-Dimethylphenol	6.1	12	6.1	U	SW-846:8270
	2,4-dinitrophenol	22	59	22	U	SW-846:8270
	2,4-Dinitrotoluene	9.2	12	9.2	U	SW-846:8270
	2,6-Dinitrotoluene	6.9	12	6.9	U	SW-846:8270
	2-Chloronaphthalene	2.6	12	2.6	U	SW-846:8270
	2-Chlorophenol	4.5	12	4.5	U	SW-846:8270
	2-Methylnaphthalene	3.2	12	3.2	U	SW-846:8270
	2-Methylphenol	3.6	12	3.6	U	SW-846:8270
	2-Nitroaniline	8.4	12	8.4	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW10 10-May-11	2-Nitrophenol	6.7	18	6.7	U	SW-846:8270
	3,3'-Dichlorobenzidine	3.6	12	3.6	U	SW-846:8270
	3-Nitroaniline	7.5	12	7.5	U	SW-846:8270
	4,6-Dinitro-2-Methylphenol	22	59	22	U	SW-846:8270
	4-Bromophenyl phenyl ether	3.2	12	3.2	U	SW-846:8270
	4-Chloro-3-methylphenol	3.3	12	3.3	U	SW-846:8270
	4-chloroaniline	2.6	12	2.6	U	SW-846:8270
	4-Chlorophenyl phenyl ether	2.8	12	2.8	U	SW-846:8270
	4-Methylphenol	6.7	12	6.7	U	SW-846:8270
	4-Nitroaniline	3.8	12	3.8	U	SW-846:8270
	4-Nitrophenol	11	29	11	U	SW-846:8270
	Acenaphthene	2.5	12	2.5	U	SW-846:8270
	Acenaphthene	2.5	12	2.5	U	SW-846:8270
	Anthracene	2.6	12	2.6	U	SW-846:8270
	Azobenzene	2.6	12	2.6	U	SW-846:8270
	Benzo(a)anthracene	2.6	12	2.6	U	SW-846:8270
	Benzo(a)pyrene	2.6	12	2.6	U	SW-846:8270
	Benzo(b)fluoranthene	2.5	12	2.5	U	SW-846:8270
	Benzo(g,h,i)perylene	4.2	12	4.2	U	SW-846:8270
	Benzo(k)fluoranthene	3.1	12	3.1	U	SW-846:8270
	Benzyl Alcohol	4.9	12	4.9	U	SW-846:8270
	Bis(2-chloroethoxy)methane	3.3	12	3.3	U	SW-846:8270
	Bis(2-chloroethyl)ether	2.9	12	2.9	U	SW-846:8270
	Bis(2-ethylhexyl)phthalate	3.5	12	3.5	U	SW-846:8270
	Butylbenzylphthalate	2.6	12	2.6	U	SW-846:8270
	Chrysene	2.8	12	2.8	U	SW-846:8270
	Dibenz(a,h)anthracene	4.8	12	4.8	U	SW-846:8270
	Dibenzofuran	2.6	12	2.6	U	SW-846:8270
	Diethylphthalate	3	12	3	U	SW-846:8270
	Dimethyl Phthalate	5.8	24	5.8	U	SW-846:8270
	Di-n-butylphthalate	2.9	12	2.9	U	SW-846:8270
	Di-n-octylphthalate	2.9	12	2.9	U	SW-846:8270
	Fluoranthene	3	12	3	U	SW-846:8270
	Fluorene	2.6	12	2.6	U	SW-846:8270
	Hexachlorobenzene	2.9	12	2.9	U	SW-846:8270
	Hexachlorobutadiene	6.6	12	6.6	U	SW-846:8270
	Hexachlorocyclopentadiene	8.1	12	8.1	U	SW-846:8270
	Hexachloroethane	4.5	12	4.5	U	SW-846:8270
	Indeno(1,2,3-cd)pyrene	4.1	12	4.1	U	SW-846:8270
	Isophorone	3.1	12	3.1	U	SW-846:8270
	Naphthalene	3.2	12	3.2	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW10 10-May-11	Nitrobenzene	2.8	12	2.8	U	SW-846:8270
	N-Nitrosodiphenylamine	2.8	12	2.8	U	SW-846:8270
	N-nitrosodipropylamine	3.7	12	3.7	U	SW-846:8270
	Pentachlorophenol	16	59	16	U	SW-846:8270
	Phenanthrene	2.6	12	2.6	U	SW-846:8270
	Phenol	4.4	12	4.4	U	SW-846:8270
	Pyrene	2.5	12	2.5	U	SW-846:8270
CYN-MW10 10-May-11 Dup	1,2,4-Trichlorobenzene	4.2	12	4.2	U	SW-846:8270
	1,2-Dichlorobenzene	3.4	12	3.4	U	SW-846:8270
	1,3-dichlorobenzene	4	12	4	U	SW-846:8270
	1,4-Dichlorobenzene	3.8	12	3.8	U	SW-846:8270
	2,2'-oxybis[1-chloropropane]	3.5	12	3.5	U	SW-846:8270
	2,4,5-Trichlorophenol	3.1	24	3.1	U	SW-846:8270
	2,4,6-trichlorophenol	3.3	24	3.3	U	SW-846:8270
	2,4-Dichlorophenol	4	12	4	U	SW-846:8270
	2,4-Dimethylphenol	6.3	12	6.3	U	SW-846:8270
	2,4-dinitrophenol	23	60	23	U	SW-846:8270
	2,4-Dinitrotoluene	9.5	12	9.5	U	SW-846:8270
	2,6-Dinitrotoluene	7	12	7	U	SW-846:8270
	2-Chloronaphthalene	2.7	12	2.7	U	SW-846:8270
	2-Chlorophenol	4.6	12	4.6	U	SW-846:8270
	2-Methylnaphthalene	3.3	12	3.3	U	SW-846:8270
	2-Methylphenol	3.7	12	3.7	U	SW-846:8270
	2-Nitroaniline	8.6	12	8.6	U	SW-846:8270
	2-Nitrophenol	6.9	18	6.9	U	SW-846:8270
	3,3'-Dichlorobenzidine	3.7	12	3.7	U	SW-846:8270
	3-Nitroaniline	7.7	12	7.7	U	SW-846:8270
	4,6-Dinitro-2-Methylphenol	22	60	22	U	SW-846:8270
	4-Bromophenyl phenyl ether	3.3	12	3.3	U	SW-846:8270
	4-Chloro-3-methylphenol	3.4	12	3.4	U	SW-846:8270
	4-chloroaniline	2.7	12	2.7	U	SW-846:8270
	4-Chlorophenyl phenyl ether	2.9	12	2.9	U	SW-846:8270
	4-Methylphenol	6.9	12	6.9	U	SW-846:8270
	4-Nitroaniline	3.9	12	3.9	U	SW-846:8270
	4-Nitrophenol	11	30	11	U	SW-846:8270
	Acenaphthene	2.6	12	2.6	U	SW-846:8270
	Acenaphthene	2.5	12	2.5	U	SW-846:8270
	Anthracene	2.7	12	2.7	U	SW-846:8270
	Azobenzene	2.6	12	2.6	U	SW-846:8270
	Benzo(a)anthracene	2.7	12	2.7	U	SW-846:8270
	Benzo(a)pyrene	2.7	12	2.7	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW10 10-May-11 Dup	Benzo(b)fluoranthene	2.5	12	2.5	U	SW-846:8270
	Benzo(g,h,i)perylene	4.3	12	4.3	U	SW-846:8270
	Benzo(k)fluoranthene	3.1	12	3.1	U	SW-846:8270
	Benzyl Alcohol	5	12	5	U	SW-846:8270
	Bis(2-chloroethoxy)methane	3.4	12	3.4	U	SW-846:8270
	Bis(2-chloroethyl)ether	3	12	3	U	SW-846:8270
	Bis(2-ethylhexyl)phthalate	3.5	12	3.5	U	SW-846:8270
	Butylbenzylphthalate	2.7	12	2.7	U	SW-846:8270
	Chrysene	2.8	12	2.8	U	SW-846:8270
	Dibenz(a,h)anthracene	4.9	12	4.9	U	SW-846:8270
	Dibenzofuran	2.6	12	2.6	U	SW-846:8270
	Diethylphthalate	3.1	12	3.1	U	SW-846:8270
	Dimethyl Phthalate	5.9	24	5.9	U	SW-846:8270
	Di-n-butylphthalate	3	12	3	U	SW-846:8270
	Di-n-octylphthalate	2.9	12	2.9	U	SW-846:8270
	Fluoranthene	3.1	12	3.1	U	SW-846:8270
	Fluorene	2.7	12	2.7	U	SW-846:8270
	Hexachlorobenzene	2.9	12	2.9	U	SW-846:8270
	Hexachlorobutadiene	6.8	12	6.8	U	SW-846:8270
	Hexachlorocyclopentadiene	8.3	12	8.3	U	SW-846:8270
	Hexachloroethane	4.6	12	4.6	U	SW-846:8270
	Indeno(1,2,3-cd)pyrene	4.2	12	4.2	U	SW-846:8270
	Isophorone	3.1	12	3.1	U	SW-846:8270
	Naphthalene	3.3	12	3.3	U	SW-846:8270
	Nitrobenzene	2.9	12	2.9	U	SW-846:8270
	N-Nitrosodiphenylamine	2.9	12	2.9	U	SW-846:8270
	N-nitrosodipropylamine	3.8	12	3.8	U	SW-846:8270
	Pentachlorophenol	17	60	17	U	SW-846:8270
	Phenanthrene	2.7	12	2.7	U	SW-846:8270
	Phenol	4.5	12	4.5	U	SW-846:8270
	Pyrene	2.6	12	2.6	U	SW-846:8270
CYN-MW11 3-May-11	1,2,4-Trichlorobenzene	3.9	11	3.9	U	SW-846:8270
	1,2-Dichlorobenzene	3.2	11	3.2	U	SW-846:8270
	1,3-dichlorobenzene	3.7	11	3.7	U	SW-846:8270
	1,4-Dichlorobenzene	3.6	11	3.6	U	SW-846:8270
	2,2'-oxybis[1-chloropropane]	3.3	11	3.3	U	SW-846:8270
	2,4,5-Trichlorophenol	2.9	22	2.9	U	SW-846:8270
	2,4,6-trichlorophenol	3.1	22	3.1	U	SW-846:8270
	2,4-Dichlorophenol	3.7	11	3.7	U	SW-846:8270
	2,4-Dimethylphenol	5.8	11	5.8	U	SW-846:8270
	2,4-dinitrophenol	21	56	21	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW11 3-May-11	2,4-Dinitrotoluene	8.8	11	8.8	U	SW-846:8270
	2,6-Dinitrotoluene	6.6	11	6.6	U	SW-846:8270
	2-Chloronaphthalene	2.5	11	2.5	U	SW-846:8270
	2-Chlorophenol	4.3	11	4.3	U	SW-846:8270
	2-Methylnaphthalene	3.1	11	3.1	U	SW-846:8270
	2-Methylphenol	3.4	11	3.4	U	SW-846:8270
	2-Nitroaniline	8.1	11	8.1	U	SW-846:8270
	2-Nitrophenol	6.4	17	6.4	U	SW-846:8270
	3,3'-Dichlorobenzidine	3.5	11	3.5	U	SW-846:8270
	3-Nitroaniline	7.2	11	7.2	U	SW-846:8270
	4,6-Dinitro-2-Methylphenol	21	56	21	U	SW-846:8270
	4-Bromophenyl phenyl ether	3	11	3	U	SW-846:8270
	4-Chloro-3-methylphenol	3.1	11	3.1	U	SW-846:8270
	4-chloroaniline	2.5	11	2.5	U	SW-846:8270
	4-Chlorophenyl phenyl ether	2.7	11	2.7	U	SW-846:8270
	4-Methylphenol	6.4	11	6.4	U	SW-846:8270
	4-Nitroaniline	3.6	11	3.6	U	SW-846:8270
	4-Nitrophenol	10	28	10	U	SW-846:8270
	Acenaphthene	2.4	11	2.4	U	SW-846:8270
	Acenaphthene	2.4	11	2.4	U	SW-846:8270
	Anthracene	2.5	11	2.5	U	SW-846:8270
	Azobenzene	2.5	11	2.5	U	SW-846:8270
	Benzo(a)anthracene	2.5	11	2.5	U	SW-846:8270
	Benzo(a)pyrene	2.5	11	2.5	U	SW-846:8270
	Benzo(b)fluoranthene	2.4	11	2.4	U	SW-846:8270
	Benzo(g,h,i)perylene	4	11	4	U	SW-846:8270
	Benzo(k)fluoranthene	2.9	11	2.9	U	SW-846:8270
	Benzoic Acid	14	28	14	U	SW-846:8270
	Benzyl Alcohol	4.7	11	4.7	U	SW-846:8270
	Bis(2-chloroethoxy)methane	3.1	11	3.1	U	SW-846:8270
	Bis(2-chloroethyl)ether	2.8	11	2.8	U	SW-846:8270
	Bis(2-ethylhexyl)phthalate	3.3	11	3.3	U	SW-846:8270
	Butylbenzylphthalate	2.5	11	2.5	U	SW-846:8270
	Chrysene	2.6	11	2.6	U	SW-846:8270
	Dibenz(a,h)anthracene	4.6	11	4.6	U	SW-846:8270
	Dibenzofuran	2.4	11	2.4	U	SW-846:8270
	Diethylphthalate	2.9	11	2.9	U	SW-846:8270
	Dimethyl Phthalate	5.5	22	5.5	U	SW-846:8270
	Di-n-butylphthalate	2.8	11	2.8	U	SW-846:8270
	Di-n-octylphthalate	2.7	11	2.7	U	SW-846:8270
	Fluoranthene	2.9	11	2.9	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW11 3-May-11	Fluorene	2.5	11	2.5	U	SW-846:8270
	Hexachlorobenzene	2.7	11	2.7	U	SW-846:8270
	Hexachlorobutadiene	6.3	11	6.3	U	SW-846:8270
	Hexachlorocyclopentadiene	7.7	11	7.7	U	SW-846:8270
	Hexachloroethane	4.3	11	4.3	U	SW-846:8270
	Indeno(1,2,3-cd)pyrene	3.9	11	3.9	U	SW-846:8270
	Isophorone	2.9	11	2.9	U	SW-846:8270
	Naphthalene	3.1	11	3.1	U	SW-846:8270
	Nitrobenzene	2.7	11	2.7	U	SW-846:8270
	N-Nitrosodiphenylamine	2.7	11	2.7	U	SW-846:8270
	N-nitrosodipropylamine	3.5	11	3.5	U	SW-846:8270
	Pentachlorophenol	16	56	16	U	SW-846:8270
	Phenanthrene	2.5	11	2.5	U	SW-846:8270
	Phenol	4.2	11	4.2	U	SW-846:8270
	Pyrene	2.4	11	2.4	U	SW-846:8270
CYN-MW12 5-May-11	1,2,4-Trichlorobenzene	4	12	4	U	SW-846:8270
	1,2-Dichlorobenzene	3.3	12	3.3	U	SW-846:8270
	1,3-dichlorobenzene	3.8	12	3.8	U	SW-846:8270
	1,4-Dichlorobenzene	3.7	12	3.7	U	SW-846:8270
	2,2'-oxybis[1-chloropropane]	3.4	12	3.4	U	SW-846:8270
	2,4,5-Trichlorophenol	3	23	3	U	SW-846:8270
	2,4,6-trichlorophenol	3.2	23	3.2	U	SW-846:8270
	2,4-Dichlorophenol	3.9	12	3.9	U	SW-846:8270
	2,4-Dimethylphenol	6	12	6	U	SW-846:8270
	2,4-dinitrophenol	22	58	22	U	SW-846:8270
	2,4-Dinitrotoluene	9.1	12	9.1	U	SW-846:8270
	2,6-Dinitrotoluene	6.8	12	6.8	U	SW-846:8270
	2-Chloronaphthalene	2.6	12	2.6	U	SW-846:8270
	2-Chlorophenol	4.5	12	4.5	U	SW-846:8270
	2-Methylnaphthalene	3.2	12	3.2	U	SW-846:8270
	2-Methylphenol	3.5	12	3.5	U	SW-846:8270
	2-Nitroaniline	8.3	12	8.3	U	SW-846:8270
	2-Nitrophenol	6.6	17	6.6	U	SW-846:8270
	3,3'-Dichlorobenzidine	3.6	12	3.6	U	SW-846:8270
	3-Nitroaniline	7.4	12	7.4	U	SW-846:8270
	4,6-Dinitro-2-Methylphenol	21	58	21	U	SW-846:8270
	4-Bromophenyl phenyl ether	3.1	12	3.1	U	SW-846:8270
	4-Chloro-3-methylphenol	3.2	12	3.2	U	SW-846:8270
	4-chloroaniline	2.6	12	2.6	U	SW-846:8270
	4-Chlorophenyl phenyl ether	2.8	12	2.8	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-4 NMED DOE OB FFY 2011 Q-3 Burn Site 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
CYN-MW12 5-May-11	4-Methylphenol	6.6	12	6.6	U	SW-846:8270
	4-Nitroaniline	3.7	12	3.7	U	SW-846:8270
	4-Nitrophenol	11	29	11	U	SW-846:8270
	Acenaphthene	2.5	12	2.5	U	SW-846:8270
	Acenaphthene	2.5	12	2.5	U	SW-846:8270
	Anthracene	2.6	12	2.6	U	SW-846:8270
	Azobenzene	2.5	12	2.5	U	SW-846:8270
	Benzo(a)anthracene	2.6	12	2.6	U	SW-846:8270
	Benzo(a)pyrene	2.6	12	2.6	U	SW-846:8270
	Benzo(b)fluoranthene	2.4	12	2.4	U	SW-846:8270
	Benzo(g,h,i)perylene	4.1	12	4.1	U	SW-846:8270
	Benzo(k)fluoranthene	3	12	3	U	SW-846:8270
	Benzoic Acid	15	29	15	U	SW-846:8270
	Benzyl Alcohol	4.8	12	4.8	U	SW-846:8270
	Bis(2-chloroethoxy)methane	3.2	12	3.2	U	SW-846:8270
	Bis(2-chloroethyl)ether	2.9	12	2.9	U	SW-846:8270
	Bis(2-ethylhexyl)phthalate	3.4	12	3.4	U	SW-846:8270
	Butylbenzylphthalate	2.6	12	2.6	U	SW-846:8270
	Chrysene	2.7	12	2.7	U	SW-846:8270
	Dibenz(a,h)anthracene	4.7	12	4.7	U	SW-846:8270
	Dibenzofuran	2.5	12	2.5	U	SW-846:8270
	Diethylphthalate	3	12	3	U	SW-846:8270
	Dimethyl Phthalate	5.7	23	5.7	U	SW-846:8270
	Di-n-butylphthalate	2.8	12	2.8	U	SW-846:8270
	Di-n-octylphthalate	2.8	12	2.8	U	SW-846:8270
	Fluoranthene	3	12	3	U	SW-846:8270
	Fluorene	2.6	12	2.6	U	SW-846:8270
	Hexachlorobenzene	2.8	12	2.8	U	SW-846:8270
	Hexachlorobutadiene	6.6	12	6.6	U	SW-846:8270
	Hexachlorocyclopentadiene	8	12	8	U	SW-846:8270
	Hexachloroethane	4.4	12	4.4	U	SW-846:8270
	Indeno(1,2,3-cd)pyrene	4	12	4	U	SW-846:8270
	Isophorone	3	12	3	U	SW-846:8270
	Naphthalene	3.2	12	3.2	U	SW-846:8270
	Nitrobenzene	2.8	12	2.8	U	SW-846:8270
	N-Nitrosodiphenylamine	2.8	12	2.8	U	SW-846:8270
	N-nitrosodipropylamine	3.6	12	3.6	U	SW-846:8270
	Pentachlorophenol	16	58	16	U	SW-846:8270
	Phenanthrene	2.6	12	2.6	U	SW-846:8270
	Phenol	4.4	12	4.4	U	SW-846:8270
	Pyrene	2.5	12	2.5	U	SW-846:8270

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

Table-5 NMED DOE OB FFY 2011 Q-3 Burn Site Groundwater Quality Results: Diesel and Gasoline Range Organics

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
CYN-MW9 11-May-11	Diesel Range Organics	0.098	0.1	0.098	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Diesel Range Organics	0.23	0.3	0.23	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Gasoline Range Organics	0.021	0.2	0.021	U	SW-846:8015A/B
	TPH - Oil Range Organics	0.13	0.2	0.13	U	SW-846:8015A/B
CYN-MW10 10-May-11	Diesel Range Organics	0.098	0.1	0.098	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Diesel Range Organics	0.23	0.3	0.23	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Gasoline Range Organics	0.021	0.2	0.021	U	SW-846:8015A/B
	TPH - Oil Range Organics	0.13	0.2	0.13	U	SW-846:8015A/B
CYN-MW10 10-May-11 Dup	Diesel Range Organics	0.098	0.1	0.098	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Diesel Range Organics	0.23	0.3	0.23	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Gasoline Range Organics	0.021	0.2	0.021	U	SW-846:8015A/B
	TPH - Oil Range Organics	0.13	0.2	0.13	U	SW-846:8015A/B
CYN-MW11 3-May-11	Diesel Range Organics	0.11	0.11	0.11	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Diesel Range Organics	0.26	0.34	0.26	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Gasoline Range Organics	0.021	0.2	0.021	U	SW-846:8015A/B
	TPH - Oil Range Organics	0.15	0.22	0.15	U	SW-846:8015A/B
CYN-MW12 5-May-11	Diesel Range Organics	0.12	0.12	0.12	C,U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Diesel Range Organics	0.28	0.37	0.28	U	SW-846:8015A/B
	Total Petroleum Hydrocarbons Gasoline Range Organics	0.021	0.2	0.021	U	SW-846:8015A/B
	TPH - Oil Range Organics	0.16	0.24	0.16	U	SW-846:8015A/B

C = Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

U = Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.