

**DOE Oversight Bureau, New Mexico Environment Department**

**Groundwater Monitoring at  
Sandia National Laboratories/New Mexico  
Burn Site Groundwater  
Area of Concern**

**Conducted by the  
New Mexico Environment Department DOE Oversight Bureau  
for FFY 2017 Q-1**

**Prepared by Chris Armijo, Environmental Scientist  
Sandia Oversight Section  
121 Tijeras Ave., NE Suite 1000  
Albuquerque, NM 87102  
(505) 383-2070  
chris.armijo1@state.nm.us**

**Final Report**

**6/12/2017**

---

The purpose of this communication is to transmit groundwater quality data collected by the New Mexico Environment Department DOE Oversight Bureau from Burn Site Groundwater monitoring wells during the first quarter of Federal Fiscal Year 2017.

Acknowledgment:

This material is based upon work supported by the Department of Energy Office of Environmental Management under Award Number *DE-EM0002420*.

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

## **Introduction**

The New Mexico Environment Department (NMED) DOE Oversight Bureau (DOE-OB or Bureau) has compiled and assessed groundwater data collected during October 2016. The Bureau collected groundwater samples from Burn Site Groundwater (BSG) Area of Concern (AOC) monitoring wells CYN-MW4, CYN-MW7, CYN-MW8, CYN-MW9, CYN-MW11 (plus duplicate), CYN-MW12, CYN-MW13 and CYN-MW15. Split samples were collected using standard Sandia National Laboratories/New Mexico (SNL/NM) sampling procedures and equipment. Samples were analyzed for total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), nitrate-nitrite as nitrogen, dibromoethane [1,2-] (EDB), high explosive (HE) compounds, and perchlorate (at CYN-MW15 only). The Bureau used Hall Environmental Analytical Laboratory located in Albuquerque, NM to analyze samples for DRO, GRO and EDB. Hall subcontracted samples for HE compounds and perchlorate to Test America-Denver. Hall and Test America are independent analytical laboratories under contract with the NMED.

Nitrate-nitrite levels were detected at or exceeded the U.S. Environmental Protection Agency (EPA) maximum contaminant level (MCL), or drinking water standard of 10 mg/L at monitoring wells CYN-MW9, CYN-MW11, CYN-MW12, CYN-MW13 and CYN-MW15.

## **Data Assessment**

All groundwater samples were collected and analyzed in accordance with U.S. EPA 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 (Consent Order) 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 TPH-diesel range organics and TPH-gasoline range organics are presented in Table-1. No detections for DRO were reported for any of the samples collected. One detection for GRO was reported in the sample collected from monitoring well CYN-MW8 at 0.082 mg/L. No MCLs have been established for DRO or GRO in groundwater.

Analytical results for nitrate-nitrite as nitrogen and perchlorate are presented in Table-2. Nitrate-nitrite levels were detected at or exceeded the EPA MCL of 10 mg/L at monitoring wells CYN-MW9 (30 mg/L), CYN-MW11 (10 mg/L), CYN-MW12 (14 mg/L), CYN-MW13 (37 mg/L) and CYN-MW15 (22 mg/L). Perchlorate

was detected at a concentration of 3.3 mg/L at CYN-MW15, below the Consent Order screening level of 4 mg/L. No MCL has been established for perchlorate.

Analytical results for dibromoethane [1,2-] (EDB) are presented in Table-3. No detections for EDB were reported for any of the samples collected.

Analytical results for HE compounds are presented in Table-4. No HE compounds were detected in any of the samples collected from BSG.

### **Conclusion**

The DOE-OB collected split samples from eight (8) BSG groundwater monitoring wells during the first quarter of FFY 2017. Samples were submitted to and analyzed by Hall Environmental Analytical Laboratory and Test America-Denver. Nitrate concentrations were detected at or exceeded the EPA MCL of 10 mg/L in samples collected from monitoring wells CYN-MW9, CYN-MW11, CYN-MW12, CYN-MW13 and CYN-MW15.

Nitrate has been identified as a contaminant of concern in groundwater from the BSG AOC. Historically, nitrate at these wells have exceeded the EPA MCL and the Bureau's results for this reporting period are consistent with past results.

The DOE-OB will continue to collect split samples with SNL/NM from BSG groundwater monitoring wells and continue to independently monitor nitrate concentrations in the AOC.

**Table-1 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: Total Petroleum Hydrocarbons Diesel Range Organics and Gasoline Range Organics**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	Reporting Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
<b>CYN-MW4</b> 3-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.025	0.05	0.025	U	SW-846:8015D
<b>CYN-MW7</b> 12-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.015	0.05	0.015	U	SW-846:8015D
<b>CYN-MW8</b> 14-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.082	0.05	0.015		SW-846:8015D
<b>CYN-MW9</b> 19-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.025	0.05	0.025	U	SW-846:8015D
<b>CYN-MW11</b> 19-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.025	0.05	0.025	U	SW-846:8015D
<b>CYN-MW11</b> 19-Oct-16 DUP	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.025	0.05	0.025	U	SW-846:8015D
<b>CYN-MW12</b> 3-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.025	0.05	0.025	U	SW-846:8015D
<b>CYN-MW13</b> 21-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.025	0.05	0.025	U	SW-846:8015D
<b>CYN-MW15</b> 21-Oct-16	TPH Diesel Range Organics	0.69	1	0.69	U	SW-846:8015D
	TPH Gasoline Range Organics	0.025	0.05	0.025	U	SW-846:8015D

U = the analyte was analyzed for but not detected

**Table-2 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: Nitrate-Nitrite as Nitrogen and Perchlorate**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Reporting Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
<b>CYN-MW4</b> 3-Oct-16	Nitrate-Nitrite as Nitrogen	0.46	10	1	0.46	U	EPA:300.0
<b>CYN-MW7</b> 12-Oct-16	Nitrate-Nitrite as Nitrogen	2	10	1	0.46		EPA:300.0
<b>CYN-MW8</b> 14-Oct-16	Nitrate-Nitrite as Nitrogen	2.6	10	1	0.46		EPA:300.0
<b>CYN-MW9</b> 19-Oct-16	Nitrate-Nitrite as Nitrogen	<b>30</b>	10	1	0.46	*	EPA:300.0
<b>CYN-MW11</b> 19-Oct-16	Nitrate-Nitrite as Nitrogen	<b>10</b>	10	1	0.46	*	EPA:300.0
<b>CYN-MW11</b> 19-Oct-16 DUP	Nitrate-Nitrite as Nitrogen	<b>10</b>	10	1	0.46	*	EPA:300.0
<b>CYN-MW12</b> 3-Oct-16	Nitrate-Nitrite as Nitrogen	<b>14</b>	10	1	0.46	*	EPA:300.0
<b>CYN-MW13</b> 21-Oct-16	Nitrate-Nitrite as Nitrogen	<b>37</b>	10	1	0.46	*	EPA:300.0
<b>CYN-MW15</b> 21-Oct-16	Perchlorate	3.3	NE	0.5	0.082		SW-846:6850
	Nitrate-Nitrite as Nitrogen	<b>22</b>	10	1	0.46	*	EPA:300.0

NE = Not Established

U = the analyte was analyzed for but not detected

\* = Value exceeds Maximum Contaminant Level.

**Table-3 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: Dibromoethane[1,2-] (EDB)**

<b>Monitoring Well/ Sample Date</b>	<b>Analyte</b>	<b>Result (µg/L)</b>	<b>Reporting Limit (µg/L)</b>	<b>MDL (µg/L)</b>	<b>Laboratory Qualifier</b>	<b>Analytical Method</b>
<b>CYN-MW4</b> 3-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW7</b> 12-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW8</b> 14-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW9</b> 19-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW11</b> 19-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW11</b> 19-Oct-16 DUP	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW12</b> 3-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW13</b> 21-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1
<b>CYN-MW15</b> 21-Oct-16	Dibromoethane[1,2-]	0.0033	0.01	0.0033	U	EPA:504.1

U = the analyte was analyzed for but not detected

**Table-4 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: High Explosive Compounds**

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Reporting Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
CYN-MW4 3-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.025	0.12	0.025	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.017	0.12	0.017	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.11	0.59	0.11	U	SW-846:8321A
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A
	Nitroglycerin	0.053	0.17	0.053	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.03	0.12	0.03	U	SW-846:8321A
	Nitrotoluene[4-]	0.031	0.12	0.031	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.025	0.12	0.025	U	SW-846:8321A
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A
	Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A
	Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A
CYN-MW7 12-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.024	0.12	0.024	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.016	0.12	0.016	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.025	0.12	0.025	U	SW-846:8321A
	HMX	0.11	0.58	0.11	U	SW-846:8321A
	Nitrobenzene	0.038	0.12	0.038	U	SW-846:8321A
	Nitroglycerin	0.052	0.16	0.052	U	SW-846:8321A
	Nitrotoluene[2-]	0.025	0.12	0.025	U	SW-846:8321A
	Nitrotoluene[3-]	0.029	0.12	0.029	U	SW-846:8321A
	Nitrotoluene[4-]	0.03	0.12	0.03	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.024	0.12	0.024	U	SW-846:8321A
	Tetryl	0.024	0.12	0.024	U	SW-846:8321A
Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A	
Trinitrotoluene[2,4,6-]	0.025	0.12	0.025	U	SW-846:8321A	

U = the analyte was analyzed for but not detected



**Table-4 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: High Explosive Compounds**

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Reporting Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
<b>CYN-MW8</b> 14-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.025	0.12	0.025	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.016	0.12	0.016	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.11	0.58	0.11	U	SW-846:8321A
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A
	Nitroglycerin	0.053	0.16	0.053	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.029	0.12	0.029	U	SW-846:8321A
	Nitrotoluene[4-]	0.03	0.12	0.03	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.025	0.12	0.025	U	SW-846:8321A
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A
	Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A
	Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A
<b>CYN-MW9</b> 19-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.024	0.12	0.024	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.016	0.12	0.016	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.22	1.2	0.22	U	SW-846:8321A
	Nitrobenzene	0.038	0.12	0.038	U	SW-846:8321A
	Nitroglycerin	0.052	0.16	0.052	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.029	0.12	0.029	U	SW-846:8321A
	Nitrotoluene[4-]	0.03	0.12	0.03	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.24	1.2	0.24	U	SW-846:8321A
	Tetryl	0.024	0.12	0.024	U	SW-846:8321A
Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A	
Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A	

U = the analyte was analyzed for but not detected

**Table-4 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: High Explosive Compounds**

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Reporting Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
CYN-MW11 19-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.024	0.12	0.024	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.016	0.12	0.016	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.22	1.2	0.22	U	SW-846:8321A
	Nitrobenzene	0.038	0.12	0.038	U	SW-846:8321A
	Nitroglycerin	0.052	0.16	0.052	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.029	0.12	0.029	U	SW-846:8321A
	Nitrotoluene[4-]	0.03	0.12	0.03	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.24	1.2	0.24	U	SW-846:8321A
	Tetryl	0.024	0.12	0.024	U	SW-846:8321A
	Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A
	Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A
CYN-MW11 19-Oct-16 DUP	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.024	0.12	0.024	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.016	0.12	0.016	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.22	1.2	0.22	U	SW-846:8321A
	Nitrobenzene	0.038	0.12	0.038	U	SW-846:8321A
	Nitroglycerin	0.052	0.16	0.052	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.029	0.12	0.029	U	SW-846:8321A
	Nitrotoluene[4-]	0.03	0.12	0.03	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.024	0.12	0.024	U	SW-846:8321A
	Tetryl	0.024	0.12	0.024	U	SW-846:8321A
Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A	
Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A	

U = the analyte was analyzed for but not detected

**Table-4 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: High Explosive Compounds**

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Reporting Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
CYN-MW12 3-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.023	0.12	0.023	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.025	0.12	0.025	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.017	0.12	0.017	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.023	0.12	0.023	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.23	1.2	0.23	U	SW-846:8321A
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A
	Nitroglycerin	0.054	0.17	0.054	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.03	0.12	0.03	U	SW-846:8321A
	Nitrotoluene[4-]	0.031	0.12	0.031	U	SW-846:8321A
	PETN	0.022	0.12	0.022	U	SW-846:8321A
	RDX	0.025	0.12	0.025	U	SW-846:8321A
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A
	Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A
	Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A
CYN-MW13 21-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.025	0.12	0.025	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.016	0.12	0.016	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.22	1.2	0.22	U	SW-846:8321A
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A
	Nitroglycerin	0.053	0.16	0.053	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.029	0.12	0.029	U	SW-846:8321A
	Nitrotoluene[4-]	0.03	0.12	0.03	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.025	0.12	0.025	U	SW-846:8321A
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A
Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A	
Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A	

U = the analyte was analyzed for but not detected

**Table-4 NMED DOE OB FFY 2017 Q-1 Burn Site Groundwater Area of Concern Quality Results: High Explosive Compounds**

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	Reporting Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
CYN-MW15 21-Oct-16	Amino-2,6-dinitrotoluene[4-]	0.022	0.12	0.022	U	SW-846:8321A
	Amino-4,6-dinitrotoluene[2-]	0.025	0.12	0.025	U	SW-846:8321A
	Dinitrobenzene[1,3-]	0.016	0.12	0.016	U	SW-846:8321A
	Dinitrotoluene[2,4-]	0.022	0.12	0.022	U	SW-846:8321A
	Dinitrotoluene[2,6-]	0.026	0.12	0.026	U	SW-846:8321A
	HMX	0.22	1.2	0.22	U	SW-846:8321A
	Nitrobenzene	0.039	0.12	0.039	U	SW-846:8321A
	Nitroglycerin	0.053	0.16	0.053	U	SW-846:8321A
	Nitrotoluene[2-]	0.026	0.12	0.026	U	SW-846:8321A
	Nitrotoluene[3-]	0.029	0.12	0.029	U	SW-846:8321A
	Nitrotoluene[4-]	0.031	0.12	0.031	U	SW-846:8321A
	PETN	0.021	0.12	0.021	U	SW-846:8321A
	RDX	0.025	0.12	0.025	U	SW-846:8321A
	Tetryl	0.025	0.12	0.025	U	SW-846:8321A
	Trinitrobenzene[1,3,5-]	0.02	0.12	0.02	U	SW-846:8321A
	Trinitrotoluene[2,4,6-]	0.026	0.12	0.026	U	SW-846:8321A

U = the analyte was analyzed for but not detected