

**MONTHLY PROGRESS REPORT #211
FOR OCTOBER 2014**

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 and 1-2000-0014

**JOINT BASE CAPE COD (JBCC)
TRAINING RANGE AND IMPACT AREA**

The following summary of progress is for the period from 1 October to 31 October 2014.

1. SUMMARY OF REMEDIATION ACTIONS

The following is a description of Remediation Actions (RA) underway at Camp Edwards as of October 2014. Remediation Actions may include Rapid Response Actions (RRA). An RRA is an interim action that may be conducted prior to risk assessments or remedial investigations to address a known, ongoing threat of contamination to groundwater and/or soil.

Demolition Area 1 Comprehensive Groundwater RA

The Demolition Area 1 Comprehensive Groundwater RA consists of the removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. Extraction, treatment, and recharge (ETR) systems at Frank Perkins Road, Pew Road, and the Base Boundary include extraction wells, ex-situ treatment processes to remove explosives compounds and perchlorate from the groundwater, and injection wells to return treated water to the aquifer.

The Frank Perkins Road Treatment Facility has been optimized as part of the Environmental and System Performance Monitoring (ESPM) program at Demolition Area 1. The treatment facility was operating at a flow rate of 250 gpm with over 2.134 billion gallons of water treated and re-injected as of 31 October 2014. The following Frank Perkins Road facility shut down occurred in October:

- Shut down on 29 October 2014 at 1000 in preparation for Base CE Electrical powering down Frank Perkins Road and was restarted on 29 October 2014 at 1210.

The Pew Road Mobile Treatment Unit (MTU) continues to operate at a flow rate of 105 gpm with over 385 million gallons of water treated and re-injected as of 31 October 2014. The following Pew Road MTU shut downs occurred in October:

- Shut down on 8 October 2014 at 0622 due to a power interruption and was restarted on 8 October 2014 at 0736;
- Shut down on 17 October 2014 at 1156 due to a power interruption and was restarted on 17 October 2014 at 1214;
- Shut down on 22 October 2014 at 2207 due to a power interruption and was restarted on 23 October 2014 at 0806;
- Shut down on 27 October 2014 at 0422 due to a system alarm and was restarted on 27 October 2014 at 0714; and
- Shut down on 29 October 2014 at 0958 in preparation for Base CE Electrical powering down Frank Perkins Road. The system was restarted on 29 October 2014 at 1256.

The Base Boundary RA continues to operate at a flow rate of 65 gpm with over 92.9 million gallons of water treated and re-injected as of 31 October 2014. No Base Boundary MTU shut downs occurred in October.

J-1 Range Groundwater RA

Southern Plant

The J-1 Range Southern Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds. The ETR system includes two extraction wells, ex-situ treatment process to remove explosives compounds from the groundwater, and an infiltration trench to return treated water to the aquifer.

The Southern MTU continues to operate at a flow rate of 125 gpm. As of 31 October 2014, over 235 million gallons of water have been treated and re-injected. The following J-1 Range Southern system shut downs occurred in October:

- Shut down on 22 October 2014 at 2312 due to system alarms and was restarted on 23 October 2014 at 0939.

Northern Plant

The J-1 Range Northern Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The ETR system includes two extraction wells, ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, and an infiltration trench to return treated water to the aquifer.

The Northern MTU continues to operate at a total system flow rate of 250 gpm. As of 31 October 2014, over 105 million gallons of water have been treated and re-injected. The following J-1 Range Northern MTU shut downs occurred in October:

- Shut down on 04 October 2014 at 0431 due to an alarm and was restarted on 06 October 2014 at 1008;
- Shut down on 06 October 2014 at 1159 due to an alarm and was restarted on 06 October 2014 at 1213;
- Well EW-0002 was shut down on 06 October 2014 at 1239 due to an alarm and was restarted on 06 October 2014 at 1408; and
- Shut down on 28 October 2014 at 1051 h for system maintenance. The system was restarted on 28 October 2014 at 1212.

J-3 Range Groundwater RRA

The J-3 Range Groundwater RRA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The ETR system includes three extraction wells, ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater and use of the existing Fuel Spill-12 (FS-12) infiltration gallery to return treated water to the aquifer.

The J-3 system continues to operate at a flow rate of 195 gpm. As of 31 October 2014, over 762 million gallons of water have been treated and re-injected. No J-3 system shut down occurred in October.

J-2 Range Groundwater RA

Northern Plant

The J-2 Range Northern Treatment facility consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The Extraction, Treatment, and Infiltration (ETI) system includes three extraction wells, ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, and an infiltration basin to return treated water to the aquifer.

The Northern Treatment Building continues to operate at a flow rate of 225 gpm. As of 31 October 2014, over 546 million gallons of water have been treated and re-injected. The following Northern Treatment Building shut downs occurred in October:

- Shut down on 08 October 2014 at 0619 due to a power interruption and was restarted on 08 October 2014 at 0824; and
- Shut down on 22 October 2014 at 2016 due to a power interruption and was restarted on 23 October 2014 at 0905.

The Northern MTUs E and F continue to operate at a flow rate of 250 gpm. As of 31 October 2014, over 938 million gallons of water have been treated and re-injected. The following J-2 Range Northern MTU shut downs occurred in October:

- MTU E was shut down on 17 October 2014 at 1206 due to a system alarm and was restarted on 17 October 2014 at 1209;
- MTU F was shut down on 17 October 2014 at 1154 due to a power interruption and was restarted on 17 October 2014 at 1205;
- MTU E was shut down on 22 October 2014 at 1936 due to a power interruption and was restarted on 23 October 2014 at 0844; and
- MTU F was shut down on 22 October 2014 at 1924 due to a system alarm and was restarted on 23 October 2014 at 0840.

Eastern Plant

The J-2 Range Eastern Treatment facility consists of removal and treatment of groundwater to minimize downgradient migration of explosives compounds and perchlorate. The ETI system includes the following components: three extraction wells in an axial array, an ex-situ treatment process consisting of an ion exchange (IX) resin and granular activated carbon (GAC) media to treat perchlorate and explosives compounds and three infiltration trenches located along the lateral boundaries of the plume where treated water will enter the vadose zone and infiltrate into the aquifer. The J-2 Range Eastern system is running at a combined total flow rate of 495 gpm.

The MTUs H and I continue to operate at a flow rate of 250 gpm. As of 31 October 2014, over 627 million gallons of water have been treated and re-injected. The following shut down of MTUs H and I occurred in October:

- MTUs H and I were shut down on 16 October 2014 at 0114 due to a system alarm and were restarted on 16 October 2014 at 1140.

MTU J continues to operate at a flow rate of 120 gpm. As of 31 October 2014, over 295 million gallons of water have been treated and re-injected. No shut downs of MTU J occurred in October.

MTU K continues to operate at a flow rate of 125 gpm. As of 31 October 2014, over 358 million gallons of water have been treated and re-injected. The following shut down of MTU K occurred in October:

- MTU K was shut down on 23 October 2014 at 1004 due to a power interruption and was restarted on 24 October 2014 at 1232.

Central Impact Area RA

The Central Impact Area (CIA) Groundwater treatment facility consists of removal and treatment of groundwater to minimize downgradient migration of explosives compounds and perchlorate. The ETR system includes the following components: two extraction wells, an ex-situ treatment process consisting of an ion exchange (IX) resin and granular activated carbon (GAC) media to treat explosives compounds and two infiltration galleries to return treated water to the aquifer. The CIA systems 1 and 2 continue to run at a combined total flow rate of 500 gpm. As of 31 October 2014, over 202 million gallons of water have been treated and re-injected. The following CIA treatment facility shutdowns occurred in October:

- System 1 was shut down on 29 October 2014 at 0935 in preparation for Base CE Electrical powering down Frank Perkins Road. The system was restarted on 29 October 2014 at 1238; and
- System 2 was shut down on 29 October 2014 at 0926 in preparation for Base CE Electrical powering down Frank Perkins Road. The system was restarted on 29 October 2014 at 1226.

SUMMARY OF ACTIONS TAKEN

Samples collected during the reporting period are summarized in Table 1.

Process water samples were collected at Frank Perkins Road, Pew Road, Base Boundary, J-1 Range Southern, J-1 Range Northern, J-2 Range Northern, J-2 Range Eastern, J-3 Range, and Central Impact Area (CIA).

Environmental and system performance monitoring groundwater samples were collected from the CIA, J-1 Range Northern, J-1 Range Southern, and J-2 Range Northern.

Completed drilling, installation and well development for off-site wells D1-1 and D1-2 at Demolition Area 1.

Performed hydraulic monitoring event in J-1 Range Northern.

Completed vegetation clearance/surface sweep at CIA Phase II 10-acre area.

Continued intrusive investigation of Metal Mapper anomalies in 8-acre area at the CIA.

JBCC IAGWSP Tech Update Meeting Minutes 16 October 2014**Project and Fieldwork Update**

An update was provided on Central Impact Area fieldwork. Metal mapper de-mobilized on September 30. Dawson is working in the 8-acre area and is currently working on the 100% EPA QA grid. Vegetation removal in the 10-acre area is ongoing. An update was provided on source work at the J-2 Range. Brush clearance has been completed. Intrusive work will begin after the CIA 2014 source work is completed, around mid-November. The team may be able to begin MIS sampling sooner. In the Training Areas, the UXO team may be able to start the meandering path next week. At the November 13 technical meeting, IAGWSP will give a presentation on recommendations for the location of the CIA extraction well at Avery Road.

Drilling Update

The development of the two monitoring wells on Michael Road in Pocasset began on October 15 and should finish by the end of the week.

Demo 1

An update was provided on the appraisal of property in Pocasset. USACE is preparing paperwork for each of the siblings to sign and plan to deliver the easement documentation to them by the end of the month. IAGWSP will continue to provide updates on progress at tech meetings.

Small Arms Ranges

The Small Arms Ranges sampling results were discussed. Several areas will most likely require some removal actions. IAGWSP will prepare figures and propose next steps at the next technical meeting.

Action Items

The action items were discussed and updated.

JBCC IAGWSP Tech Update Meeting Minutes 30 October 2014**Project and Fieldwork Update**

An update was provided on Central Impact Area fieldwork. A table was provided that listed the acres that had been cleared of vegetation, and percentage completed of surface sweep, EM-61, metal mapper survey and grids investigated for each of the investigation area. A figure that showed the status of each area was also distributed and discussed. The 100% EPA QA grid was completed yesterday. They are waiting for all of the data to come in but to date; there were no surprises (i.e. there were no digs that uncovered an item that should have been found using Metal Mapper). It was noted that the J-2 Range and Training Areas fieldwork would likely begin once the CIA 2014 work is completed, which should be towards the end of November. EPA requested 48-hour notification prior to the start of J-2 Range fieldwork.

Drilling Update

The development of the two monitoring wells on Michael Road in Pocasset was completed. The new wells will be sampled in December.

Demo 1

An update was provided on the appraisal of property in Pocasset. USACE has not heard back from the Mendes family with a response to the Governments offer to purchase an easement. USACE Real Estate

continues to reach out to the family. Once the family signs the offer, the schedule for the system construction and start up can begin. IAGWSP will continue to provide updates on progress at tech meetings.

Small Arms Ranges

The Small Arms Ranges sampling results were discussed. Figures showing the post Decision Document sampling and excavation areas and results were provided and reviewed. Several areas will require some removal actions. The excavation contract has been awarded; over the next 30-days the contractual paperwork will be finalized. IAGWSP proposes starting in March to avoid any winter weather delays and to allow time to collect additional samples. IAGWSP will prepare a project note that proposes next steps.

Action Items

The action items were discussed and updated.

CIA Groundwater Monitoring Presentation

A presentation was provided on the Central Impact Area Annual Environmental Monitoring Reports. It was explained that the draft report was submitted to agencies in late September, and covers sampling results from January 2013 through April 2014. System performance and groundwater monitoring trends and results were reviewed. It was noted that the maximum perchlorate and RDX detections upgradient of Burgoyne Road during the reporting period was 11.1 ppb and 17.6 ppb, respectively. The maximum detection of RDX downgradient of Burgoyne Road was 5.6 ppb, perchlorate was 0.94 ppb. The observed capture zone for the treatment system was displayed and reviewed. Recommendations for hydraulic monitoring and changes to the annual sampling program were reviewed. It was noted that MassDEP had provided comments on the annual report and that EPA comments were pending.

NWC Groundwater Monitoring Presentation

A presentation was provided on the Northwest Corner Annual Environmental Monitoring Reports. It was explained that the draft report was submitted to agencies in mid October, and covers sampling results from June 2013 through June 2014. Sampling locations, explosives and perchlorate monitoring results and trends were reviewed. RDX was detected in 5 of 10 samples ranging from 0.041 ppb to 1.1 ppb. Only two wells, MW-323M1 and MW-573M2 exceeded the 0.6 ppb risk based concentration. No samples exceeded the 2 ppb health advisory. Perchlorate was detected in all 26 samples ranging from 0.042 ppb to 2.0 ppb. No samples exceeded the 2.0 MMCL. A comparison to the Decision Document criteria was provided and discussed. It was noted that the perchlorate plume was attenuated by approximately 90% since 2006. Recommendations for changes to the annual sampling program were reviewed. It was noted that MassDEP had provided comments on the annual report and that EPA comments were pending.

JBCC Cleanup Team Meeting

The JBCC Cleanup Team (JBCCCT), formerly the MMR Cleanup Team (MMRCT), met on October 15, 2014, and is next scheduled to meet on January 14, 2015. The Cleanup Team meeting discusses late breaking news and responses to action items, as well as updates from the IAGWSP and IRP. The JBCCCT meetings provide a forum for community input regarding issues related to both the IRP and the IAGWSP.

SUMMARY OF DATA RECEIVED

Table 2 summarizes the validated detections of explosives compounds and perchlorate for all groundwater results received from 1 October through 31 October 2014. These results are compared to

the Maximum Contaminant Levels/Health Advisory (MCL/HA) values for respective analytes. Explosives and perchlorate are the primary contaminants of concern (COC) at Camp Edwards.

There are currently twelve operable units (OU) under investigation and cleanup at Camp Edwards. The OUs include: Central Impact Area, Demolition Area 1, Demolition Area 2, Former A Range, J-1 Range, J-2 Range, J-3 Range, L Range, Northwest Corner, Small Arms Ranges, Training Areas and Western Boundary. Environmental monitoring reports for each OU are generated each year to evaluate the current year groundwater results. These reports are available on the site Environmental Data Management System (EDMS) and at the project document repositories (IAGWSP office, Jonathan Bourne Library, Falmouth Public Library, and Sandwich Public Library).

2. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

- Monthly Progress Report No. 210 for September 2014 10/10/2014
- Final J-1 Range Northern 2014 Interim Environmental Monitoring Report and J-1 Range Southern 2014 Annual Environmental Monitoring Report 10/06/2014
- Final J-3 Range Remedy Selection Plan 10/07/2014
- Final J-3 Range Remedial Investigation/Feasibility Study Report 10/09/2014
- Draft Northwest Corner 2014 Annual Environmental Monitoring Report 10/10/2014
- Draft Former A Range 2014 Environmental Monitoring Report 10/17/2014
- Final Western Boundary 2014 Annual Environmental Monitoring Report 10/23/2014

3. SCHEDULED ACTIONS

The following documents are being prepared or revised during November 2014:

- CIA Project Note for ESTCP Metal Mapper Results;
- CIA 2013 Source Report;
- Final CIA System Start-up Report;
- J-2 Range Project Note for Additional Wells to Evaluate Source Response;
- J-3 Range Draft Decision Document;
- J-3 Range Draft Post-Decision Document Field Work Project Notes;
- Small Arms Ranges Decision Document;
- Training Areas Draft Investigation Report;
- J-1 Range Northern System Start-up Report;
- Former A Range 2014 Annual Environmental Monitoring Report;
- Demolition Area 2 2014 Annual Environmental Monitoring Report;
- J-2 Range Eastern and J-2 Range Northern Environmental Monitoring Work Plan;
- Northwest Corner 2014 Annual Environmental Monitoring Report;
- Central Impact Area 2014 Interim Environmental Monitoring Report; and
- 2013 BIP Report

TABLE 1
Sampling Progress: 1 October - 31 October 2014

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Northern	MW-220M1	MW-220M1_F14	N	10/30/2014	Ground Water	248	258
Central Impact Area	MW-253M1	MW-253M1_F14	N	10/30/2014	Ground Water	265.4	275.4
J1 Range Northern	MW-253M1	MW-253M1_F14	N	10/30/2014	Ground Water	265.4	275.4
J1 Range Northern	MW-315M2	MW-315M2_F14	N	10/30/2014	Ground Water	195.7	205.7
J1 Range Northern	MW-315M1	MW-315M1_F14	N	10/30/2014	Ground Water	245.5	255.5
J1 Range Northern	MW-265M3	MW-265M3_F14	N	10/30/2014	Ground Water	200	210
J1 Range Northern	MW-265M2	MW-265M2_F14	N	10/30/2014	Ground Water	225	235
J1 Range Northern	MW-265M2	MW-265M2_F14D	FD	10/30/2014	Ground Water	225	235
J1 Range Northern	MW-265M1	MW-265M1_F14	N	10/30/2014	Ground Water	265	275
Central Impact Area	MW-623M2	MW-623M2_R2	N	10/29/2014	Ground Water	291.8	301.8
Central Impact Area	MW-623M2	MW-623M2_R2D	FD	10/29/2014	Ground Water	291.8	301.8
Central Impact Area	MW-625M2	MW-625M2_R2	N	10/29/2014	Ground Water	230	240
Central Impact Area	MW-625M1	MW-625M1_R2	N	10/29/2014	Ground Water	260	270
Central Impact Area	MW-628M2	MW-628M2_R2	N	10/29/2014	Ground Water	120.8	130.8
Central Impact Area	MW-628M1	MW-628M1_R2	N	10/29/2014	Ground Water	230.8	240.8
J1 Range Northern	MW-567M1	MW-567M1_F14	N	10/28/2014	Ground Water	215.5	225.5
J1 Range Northern	MW-567M1	MW-567M1_F14D	FD	10/28/2014	Ground Water	215.5	225.5
J1 Range Northern	MW-605M2	MW-605M2_F14	N	10/28/2014	Ground Water	182.2	192.2
J1 Range Northern	MW-605M1	MW-605M1_F14	N	10/28/2014	Ground Water	220.2	230.2
J1 Range Northern	MW-286M2	MW-286M2_F14	N	10/28/2014	Ground Water	205	215
J1 Range Northern	MW-286M1	MW-286M1_F14	N	10/28/2014	Ground Water	259	269
J1 Range Northern	MW-370M3	MW-370M3_F14	N	10/28/2014	Ground Water	175	185
J1 Range Northern	MW-370M2	MW-370M2_F14	N	10/28/2014	Ground Water	215.5	225.5
J2 Range Northern	MW-619M2	MW-619M2_R3	N	10/27/2014	Ground Water	234.1	244.1
J2 Range Northern	MW-619M1	MW-619M1_R3	N	10/27/2014	Ground Water	255.1	265.1
J2 Range Northern	MW-613M2	MW-613M2_R3	N	10/27/2014	Ground Water	246.1	256.1
J2 Range Northern	MW-613M1	MW-613M1_R3	N	10/27/2014	Ground Water	267.1	277.1
J2 Range Northern	MW-612M2	MW-612M2_R3	N	10/27/2014	Ground Water	267	277
J2 Range Northern	MW-612M1	MW-612M1_R3	N	10/27/2014	Ground Water	297	307
J1 Range Northern	MW-564M1	MW-564M1_F14	N	10/22/2014	Ground Water	227	237
J1 Range Northern	MW-564M1	MW-564M1_F14D	FD	10/22/2014	Ground Water	227	237
J1 Range Northern	MW-549M2	MW-549M2_F14	N	10/22/2014	Ground Water	187.3	197.3
J1 Range Northern	MW-549M1	MW-549M1_F14	N	10/22/2014	Ground Water	227.4	237.4
J1 Range Northern	MW-563M1	MW-563M1_F14	N	10/22/2014	Ground Water	215	225
J1 Range Northern	MW-547M2	MW-547M2_F14	N	10/22/2014	Ground Water	178	188
J1 Range Northern	MW-547M1	MW-547M1_F14	N	10/22/2014	Ground Water	237	247
J1 Range Northern	MW-566M1	MW-566M1_F14	N	10/22/2014	Ground Water	232	242
J1 Range Northern	MW-566M1	MW-566M1_F14D	FD	10/22/2014	Ground Water	232	242
J1 Range Northern	MW-188M1	MW-188M1_F14	N	10/21/2014	Ground Water	155	165
J1 Range Northern	MW-306M2	MW-306M2_F14	N	10/21/2014	Ground Water	164.7	174.7
J1 Range Northern	MW-306M1	MW-306M1_F14	N	10/21/2014	Ground Water	184.9	194.9
J1 Range Northern	MW-306D	MW-306D_F14	N	10/21/2014	Ground Water	291.7	301.7
J1 Range Northern	MW-187M1	MW-187M1_F14	N	10/21/2014	Ground Water	160	170
J1 Range Northern	MW-187D	MW-187D_F14	N	10/21/2014	Ground Water	306	316
J1 Range Southern	MW-402M2	MW-402M2_F14	N	10/16/2014	Ground Water	155.2	165.3
J1 Range Southern	MW-402M1	MW-402M1_F14	N	10/16/2014	Ground Water	190.1	200.1
J1 Range Southern	MW-591M2	MW-591M2_F14	N	10/16/2014	Ground Water	165	175
J1 Range Southern	MW-591M1	MW-591M1_F14	N	10/16/2014	Ground Water	200	210
J1 Range Southern	MW-592M2	MW-592M2_F14	N	10/16/2014	Ground Water	158	168
J1 Range Southern	MW-592M1	MW-592M1_F14	N	10/16/2014	Ground Water	201	211
Central Impact Area	MW-614M2	MW-614M2_OCT14	N	10/15/2014	Ground Water	215	225
Central Impact Area	MW-614M2	MW-614M2_OCT14D	FD	10/15/2014	Ground Water	215	225
Central Impact Area	MW-615M2	MW-615M2_OCT14	N	10/15/2014	Ground Water	200	210
Central Impact Area	MW-615M1	MW-615M1_OCT14	N	10/15/2014	Ground Water	260	270
Central Impact Area	MW-614M1	MW-614M1_OCT14	N	10/15/2014	Ground Water	275	285
Central Impact Area	MW-623M3	MW-623M3_OCT14	N	10/15/2014	Ground Water	275	285
Central Impact Area	MW-623M1	MW-623M1_OCT14	N	10/15/2014	Ground Water	340	350
Central Impact Area	MW-624M2	MW-624M2_OCT14	N	10/15/2014	Ground Water	254	264
Central Impact Area	MW-624M1	MW-624M1_OCT14	N	10/15/2014	Ground Water	284	294
J1 Range Southern	MW-524M1	MW-524M1_F14	N	10/14/2014	Ground Water	148	158
J1 Range Southern	MW-524M1	MW-524M1_F14D	FD	10/14/2014	Ground Water	148	158
J1 Range Southern	MW-523M1	MW-523M1_F14	N	10/14/2014	Ground Water	158	168
J1 Range Southern	MW-360M2	MW-360M2_F14	N	10/14/2014	Ground Water	102	112
J1 Range Southern	MW-360M2	MW-360M2_F14D	FD	10/14/2014	Ground Water	102	112
J1 Range Southern	MW-131S	MW-131S_F14	N	10/14/2014	Ground Water	96	106
J1 Range Southern	MW-488M1	MW-488M1_F14	N	10/14/2014	Ground Water	149.6	159.6

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 1 October - 31 October 2014

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Southern	MW-398M2	MW-398M2_F14	N	10/13/2014	Ground Water	131.5	141.5
J1 Range Southern	MW-398M1	MW-398M1_F14	N	10/13/2014	Ground Water	172.2	182.2
J1 Range Southern	MW-528M1	MW-528M1_F14	N	10/13/2014	Ground Water	117	127
J1 Range Southern	DP-389	DP-389_F14	N	10/13/2014	Ground Water	157.7	162.7
J1 Range Southern	MW-488PZ	MW-488PZ_F14	N	10/09/2014	Ground Water	119.3	129.3
Demolition Area 1	FPR-2-EFF-A	FPR-2-EFF-A-103A	N	10/09/2014	Process Water	0	0
Demolition Area 1	FPR-2-GAC-MID3A	FPR-2-GAC-MID3A-103A	N	10/09/2014	Process Water	0	0
Demolition Area 1	FPR2-POST-IX-A	FPR2-POST-IX-A-103A	N	10/09/2014	Process Water	0	0
Demolition Area 1	FPR-2-INF	FPR-2-INF-103A	N	10/09/2014	Process Water	0	0
Demolition Area 1	PR-EFF	PR-EFF-103A	N	10/09/2014	Process Water	0	0
Demolition Area 1	PR-MID-2	PR-MID-2-103A	N	10/09/2014	Process Water	0	0
Demolition Area 1	PR-MID-1	PR-MID-1-103A	N	10/09/2014	Process Water	0	0
Demolition Area 1	PR-INF	PR-INF-103A	N	10/09/2014	Process Water	0	0
J1 Range Southern	DP-379	DP-379_F14	N	10/09/2014	Ground Water	184.3	189.3
Demolition Area 1	D1-EFF	D1-EFF-51A	N	10/09/2014	Process Water	0	0
Demolition Area 1	D1-MID-2	D1-MID-2-51A	N	10/09/2014	Process Water	0	0
Demolition Area 1	D1-MID-1	D1-MID-1-51A	N	10/09/2014	Process Water	0	0
Demolition Area 1	D1-INF	D1-INF-51A	N	10/09/2014	Process Water	0	0
J1 Range Southern	MW-525M2	MW-525M2_F14	N	10/08/2014	Ground Water	148	158
J1 Range Southern	J1S-EFF	J1S-EFF-83A	N	10/08/2014	Process Water	0	0
J1 Range Southern	J1S-MID-2	J1S-MID-2-83A	N	10/08/2014	Process Water	0	0
J1 Range Southern	J1S-INF-2	J1S-INF-2-83A	N	10/08/2014	Process Water	0	0
J3 Range	J3-EFF	J3-EFF-97A	N	10/08/2014	Process Water	0	0
J3 Range	J3-MID-2	J3-MID-2-97A	N	10/08/2014	Process Water	0	0
J1 Range Southern	MW-525M1	MW-525M1_F14	N	10/08/2014	Ground Water	172	182
J3 Range	J3-MID-1	J3-MID-1-97A	N	10/08/2014	Process Water	0	0
J3 Range	J3-INF	J3-INF-97A	N	10/08/2014	Process Water	0	0
Central Impact Area	CIA2-EFF	CIA2-EFF-09A	N	10/08/2014	Process Water	0	0
J1 Range Southern	MW-527M1	MW-527M1_F14	N	10/08/2014	Ground Water	165	175
Central Impact Area	CIA2-MID2	CIA2-MID2-09A	N	10/08/2014	Process Water	0	0
Central Impact Area	CIA2-MID1	CIA2-MID1-09A	N	10/08/2014	Process Water	0	0
Central Impact Area	CIA2-INF	CIA2-INF-09A	N	10/08/2014	Process Water	0	0
Central Impact Area	CIA1-EFF	CIA1-EFF-09A	N	10/08/2014	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-09A	N	10/08/2014	Process Water	0	0
J1 Range Southern	MW-526M1	MW-526M1_F14	N	10/08/2014	Ground Water	164	174
Central Impact Area	CIA1-MID1	CIA1-MID1-09A	N	10/08/2014	Process Water	0	0
Central Impact Area	CIA1-INF	CIA1-INF-09A	N	10/08/2014	Process Water	0	0
J1 Range Southern	MW-403M2	MW-403M2_F14	N	10/08/2014	Ground Water	127.3	137.4
J1 Range Northern	J1N-EFF	J1N-EFF-12A	N	10/08/2014	Process Water	0	0
J1 Range Northern	J1N-MID2	J1N-MID2-12A	N	10/08/2014	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-12A	N	10/08/2014	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-12A	N	10/08/2014	Process Water	0	0
J1 Range Southern	MW-403M1	MW-403M1_F14	N	10/08/2014	Ground Water	159.9	169.9
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-73A	N	10/08/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-73A	N	10/08/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-73A	N	10/08/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-73A	N	10/08/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-73A	N	10/08/2014	Process Water	0	0
J2 Range Eastern	J2E-INF-I	J2E-INF-I-73A	N	10/08/2014	Process Water	0	0
J1 Range Southern	MW-400M2	MW-400M2_F14	N	10/07/2014	Ground Water	138.9	148.9
J1 Range Southern	MW-400M1	MW-400M1_F14	N	10/07/2014	Ground Water	192.8	202.8
J1 Range Southern	MW-522M2	MW-522M2_F14	N	10/07/2014	Ground Water	165	175
J1 Range Southern	MW-522M1	MW-522M1_F14	N	10/07/2014	Ground Water	198	208
J2 Range Eastern	J2E-EFF-K	J2E-EFF-K-73A	N	10/07/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-2K	J2E-MID-2K-73A	N	10/07/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1K	J2E-MID-1K-73A	N	10/07/2014	Process Water	0	0
J2 Range Eastern	J2E-INF-K	J2E-INF-K-73A	N	10/07/2014	Process Water	0	0
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-73A	N	10/07/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-73A	N	10/07/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-73A	N	10/07/2014	Process Water	0	0
J2 Range Eastern	J2E-INF-J	J2E-INF-J-73A	N	10/07/2014	Process Water	0	0
J1 Range Southern	MW-521M1	MW-521M1_F14	N	10/07/2014	Ground Water	158	168
J1 Range Southern	J1S-EW2-INF	J1S-EW2-INF_F14	N	10/07/2014	Process Water	0	0
J1 Range Southern	J1S-EW2-INF	J1S-EW2-INF_F14D	FD	10/07/2014	Process Water	0	0
J1 Range Southern	J1S-EW1-INF	J1S-EW1-INF_F14	N	10/07/2014	Process Water	0	0
J1 Range Southern	MW-483M1	MW-483M1_F14	N	10/06/2014	Ground Water	139.5	149.5

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 1 October - 31 October 2014

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Southern	MW-482M3	MW-482M3_F14	N	10/06/2014	Ground Water	98.2	108.2
J1 Range Southern	MW-482M2	MW-482M2_F14	N	10/06/2014	Ground Water	172.6	182.6
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-MID-2G	J2N-MID-2G-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-INF-G	J2N-INF-G-97A	N	10/06/2014	Process Water	0	0
J1 Range Southern	MW-481M2	MW-481M2_F14	N	10/06/2014	Ground Water	146.3	156.3
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-97A	N	10/06/2014	Process Water	0	0
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-97A	N	10/06/2014	Process Water	0	0
J1 Range Southern	MW-481M1	MW-481M1_F14	N	10/06/2014	Ground Water	189.7	199.7
J1 Range Southern	MW-480M2	MW-480M2_F14	N	10/06/2014	Ground Water	143.6	153.6

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
 Data Received October 2014

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
Western Boundary	4036000-03G	4036000-03G_14Q3	50	60	09/25/2014	SW6850	Perchlorate	0.14	J	UG/L	2.0		0.019	0.20
Western Boundary	4036000-04G	4036000-04G_14Q3	55	65	09/25/2014	SW6850	Perchlorate	0.17	J	UG/L	2.0		0.019	0.20
Western Boundary	4036000-04G	4036000-04G_14Q3D	55	65	09/25/2014	SW6850	Perchlorate	0.13	J	UG/L	2.0		0.019	0.20
Western Boundary	4036000-06G	4036000-06G_14Q3	108	128	09/25/2014	SW6850	Perchlorate	0.14	J	UG/L	2.0		0.019	0.20
Western Boundary	4036000-01G	4036000-01G_14Q3	38	70	09/25/2014	SW6850	Perchlorate	0.13	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-627M1	MW-627M1_R2	269.5	279.5	09/18/2014	SW6850	Perchlorate	0.23		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-631M2	MW-631M2_R2	200.1	210.1	09/18/2014	SW6850	Perchlorate	0.14	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-631M1	MW-631M1_R2	233.1	243.1	09/18/2014	SW6850	Perchlorate	0.36		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-622M2	MW-622M2_R2	220.4	230.4	09/18/2014	SW6850	Perchlorate	0.63		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-622M1	MW-622M1_R2	245.4	255.4	09/18/2014	SW6850	Perchlorate	0.80		UG/L	2.0		0.019	0.20
J3 Range	MW-576M3	MW-576M3_R2	98.9	108.9	09/12/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.34		UG/L	400		0.023	0.20
J3 Range	MW-576M3	MW-576M3_R2	98.9	108.9	09/12/2014	SW6850	Perchlorate	0.67		UG/L	2.0		0.019	0.20
J3 Range	MW-576M2	MW-576M2_R2	133.9	143.9	09/12/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.3		UG/L	400		0.023	0.20
J3 Range	MW-576M2	MW-576M2_R2	133.9	143.9	09/12/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.7		UG/L	0.60	X	0.026	0.20
J3 Range	MW-576M2	MW-576M2_R2	133.9	143.9	09/12/2014	SW6850	Perchlorate	43.3		UG/L	2.0	X	0.11	1.2
J3 Range	MW-576M2	MW-576M2_R2D	133.9	143.9	09/12/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.3		UG/L	400		0.023	0.20
J3 Range	MW-576M2	MW-576M2_R2D	133.9	143.9	09/12/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.7		UG/L	0.60	X	0.026	0.20
J3 Range	MW-576M2	MW-576M2_R2D	133.9	143.9	09/12/2014	SW6850	Perchlorate	45.6		UG/L	2.0	X	0.11	1.2
J3 Range	MW-576M1	MW-576M1_R2	173.9	183.9	09/12/2014	SW6850	Perchlorate	0.37		UG/L	2.0		0.019	0.20
J3 Range	MW-637M2	MW-637M2_R2	214.1	224.1	09/12/2014	SW6850	Perchlorate	3.0		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	MW-307M3	MW-307M3_F14	125.8	135.8	09/11/2014	SW6850	Perchlorate	1.3		UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-393M2	MW-393M2_F14	218.2	228.2	09/11/2014	SW6850	Perchlorate	0.062	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-393M1	MW-393M1_F14	268	278	09/11/2014	SW6850	Perchlorate	0.041	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-393D	MW-393D_F14	313.6	323.6	09/11/2014	SW6850	Perchlorate	0.020	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-354M2	MW-354M2_F14	234.8	244.8	09/11/2014	SW6850	Perchlorate	0.047	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-354M1	MW-354M1_F14	274.5	284.5	09/11/2014	SW6850	Perchlorate	0.089	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-342M1	MW-342M1_F14	193.7	203.7	09/10/2014	SW6850	Perchlorate	0.067	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-388M2	MW-388M2_F14	144.8	154.8	09/10/2014	SW6850	Perchlorate	0.25		UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-358M1	MW-358M1_F14	230	240	09/10/2014	SW6850	Perchlorate	0.17	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-319M2	MW-319M2_F14	165.2	175.2	09/09/2014	SW6850	Perchlorate	0.17	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-319M1	MW-319M1_F14	200.3	210.3	09/09/2014	SW6850	Perchlorate	0.20		UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-319M1	MW-319M1_F14	200.3	210.3	09/09/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.21		UG/L	0.60		0.026	0.20
J2 Range Eastern	MW-334M1	MW-334M1_F14	285	295	09/09/2014	SW6850	Perchlorate	0.12	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-366M3	MW-366M3_F14	145	155	09/09/2014	SW6850	Perchlorate	0.033	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-366M2	MW-366M2_F14	175	185	09/09/2014	SW6850	Perchlorate	0.12	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-366M1	MW-366M1_F14	215	225	09/09/2014	SW6850	Perchlorate	1.3		UG/L	2.0		0.019	0.20
J2 Range Eastern	J2MW-04M2	J2MW-04M2_F14	210	220	09/08/2014	SW6850	Perchlorate	0.021	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	J2MW-04M1	J2MW-04M1_F14	257	267	09/08/2014	SW6850	Perchlorate	0.62		UG/L	2.0		0.019	0.20
J2 Range Eastern	J2MW-04M1	J2MW-04M1_F14	257	267	09/08/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.69		UG/L	400		0.023	0.20
J2 Range Eastern	J2MW-04M1	J2MW-04M1_F14	257	267	09/08/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.79		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	J2MW-04M1	J2MW-04M1_F14D	257	267	09/08/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.70		UG/L	400		0.023	0.20
J2 Range Eastern	J2MW-04M1	J2MW-04M1_F14D	257	267	09/08/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.80		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	J2MW-01M2	J2MW-01M2_F14	245	255	09/08/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.91		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	J2MW-01M2	J2MW-01M2_F14	245	255	09/08/2014	SW6850	Perchlorate	9.1		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	J2MW-01M2	J2MW-01M2_F14D	245	255	09/08/2014	SW6850	Perchlorate	8.7		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	MW-57D	MW-57D_F14	213	223	09/08/2014	SW6850	Perchlorate	0.26		UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-365M2	MW-365M2_F14	205.5	215.5	09/08/2014	SW6850	Perchlorate	0.022	J	UG/L	2.0		0.019	0.20

J = Estimated Result
 MDL = Method Detection Limit
 RL = Reporting Limit

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
 Data Received October 2014

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
J2 Range Eastern	MW-310M1	MW-310M1_F14	171.4	181.4	09/08/2014	SW6850	Perchlorate	0.083	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-632M2	MW-632M2_R2	229.5	239.5	09/05/2014	SW6850	Perchlorate	0.052	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-632M1	MW-632M1_R2	254.5	264.5	09/05/2014	SW6850	Perchlorate	1.5		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-635M1	MW-635M1_R2	265.4	275.4	09/05/2014	SW6850	Perchlorate	0.22		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-621M2	MW-621M2_R2	219.4	229.4	09/05/2014	SW6850	Perchlorate	3.4		UG/L	2.0	X	0.019	0.20
J2 Range Northern	MW-621M2	MW-621M2_R2D	219.4	229.4	09/05/2014	SW6850	Perchlorate	3.4		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	MW-335M2	MW-335M2_F14	215.3	225.3	09/04/2014	SW6850	Perchlorate	0.077	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-335M1	MW-335M1_F14	255.2	265.2	09/04/2014	SW6850	Perchlorate	0.16	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-170M1	MW-170M1_F14	265	275	09/04/2014	SW6850	Perchlorate	0.35		UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-324M2	MW-324M2_F14	203.7	214.7	09/03/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.99		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-324M2	MW-324M2_F14	203.7	214.7	09/03/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	2.0		UG/L	400		0.023	0.20
J2 Range Eastern	MW-324M2	MW-324M2_F14	203.7	214.7	09/03/2014	SW6850	Perchlorate	8.7		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	MW-324M2	MW-324M2_F14D	203.7	214.7	09/03/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.98		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-324M2	MW-324M2_F14D	203.7	214.7	09/03/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	2.0		UG/L	400		0.023	0.20
J2 Range Eastern	MW-324M2	MW-324M2_F14D	203.7	214.7	09/03/2014	SW6850	Perchlorate	8.2		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	MW-324M1	MW-324M1_F14	234.9	244.9	09/03/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.2		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-324M1	MW-324M1_F14	234.9	244.9	09/03/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	2.1		UG/L	400		0.023	0.20
J2 Range Eastern	MW-324M1	MW-324M1_F14	234.9	244.9	09/03/2014	SW6850	Perchlorate	9.0		UG/L	2.0	X	0.019	0.20
Former A Range	MW-249M3	MW-249M3_S14	154	164	09/03/2014	SW6850	Perchlorate	0.075	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-215M2	MW-215M2_F14	205	215	09/02/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.7		UG/L	400		0.023	0.20
J2 Range Eastern	MW-215M2	MW-215M2_F14	205	215	09/02/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.0		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-215M2	MW-215M2_F14	205	215	09/02/2014	SW6850	Perchlorate	6.0		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	MW-215M2	MW-215M2_F14D	205	215	09/02/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.6		UG/L	400		0.023	0.20
J2 Range Eastern	MW-215M2	MW-215M2_F14D	205	215	09/02/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.0		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-215M2	MW-215M2_F14D	205	215	09/02/2014	SW6850	Perchlorate	6.0		UG/L	2.0	X	0.019	0.20
J2 Range Eastern	MW-215M1	MW-215M1_F14	240	250	09/02/2014	SW6850	Perchlorate	0.063	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-339M2	MW-339M2_F14	213	223	09/02/2014	SW6850	Perchlorate	0.20		UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-339M1	MW-339M1_F14	233	243	09/02/2014	SW6850	Perchlorate	0.91		UG/L	2.0		0.019	0.20
J2 Range Eastern	MW-368M2	MW-368M2_F14	202.7	212.7	09/02/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.1		UG/L	400		0.023	0.20
J2 Range Eastern	MW-368M2	MW-368M2_F14	202.7	212.7	09/02/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	11.9		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-368M2	MW-368M2_F14	202.7	212.7	09/02/2014	SW6850	Perchlorate	36.0		UG/L	2.0	X	0.095	1.0
J2 Range Eastern	MW-368M2	MW-368M2_F14D	202.7	212.7	09/02/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.1		UG/L	400		0.023	0.20
J2 Range Eastern	MW-368M2	MW-368M2_F14D	202.7	212.7	09/02/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	12.0		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-368M2	MW-368M2_F14D	202.7	212.7	09/02/2014	SW6850	Perchlorate	36.0		UG/L	2.0	X	0.095	1.0
J2 Range Eastern	MW-368M1	MW-368M1_F14	237.4	247.4	09/02/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	7.6		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-368M1	MW-368M1_F14	237.4	247.4	09/02/2014	SW6850	Perchlorate	71.3		UG/L	2.0	X	0.19	2.0
J2 Range Eastern	MW-368M1	MW-368M1_F14D	237.4	247.4	09/02/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	7.6		UG/L	0.60	X	0.026	0.20
J2 Range Eastern	MW-368M1	MW-368M1_F14D	237.4	247.4	09/02/2014	SW6850	Perchlorate	72.2		UG/L	2.0	X	0.19	2.0
J2 Range Eastern	J2MW-05M2	J2MW-05M2_F14	185	195	08/29/2014	SW6850	Perchlorate	0.054	J	UG/L	2.0		0.019	0.20
J2 Range Eastern	J2MW-05M1	J2MW-05M1_F14	225	235	08/29/2014	SW6850	Perchlorate	0.18	J	UG/L	2.0		0.019	0.20
Demolition Area 1	MW-258M1	MW-258M1_T14	109	119	08/29/2014	SW6850	Perchlorate	10.0		UG/L	2.0	X	0.019	0.20
Demolition Area 1	MW-532M2	MW-532M2_T14	138	148	08/29/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.3		UG/L	0.60	X	0.026	0.20
Demolition Area 1	MW-532M2	MW-532M2_T14	138	148	08/29/2014	SW6850	Perchlorate	10.8		UG/L	2.0	X	0.038	0.40
Demolition Area 1	MW-532M1	MW-532M1_T14	168	178	08/29/2014	SW6850	Perchlorate	1.6		UG/L	2.0		0.019	0.20
Demolition Area 1	MW-431	MW-431_T14	88	188	08/29/2014	SW6850	Perchlorate	0.14	J	UG/L	2.0		0.019	0.20
Demolition Area 1	MW-431	MW-431_T14	88	188	08/29/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.47		UG/L	0.60		0.026	0.20
Demolition Area 1	MW-431	MW-431_T14	88	188	08/29/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.49		UG/L	400		0.023	0.20

J = Estimated Result
 MDL = Method Detection Limit
 RL = Reporting Limit

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
 Data Received October 2014

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
Demolition Area 1	MW-432	MW-432_T14	88	188	08/29/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.40		UG/L	0.60		0.026	0.20
Demolition Area 1	MW-432	MW-432_T14	88	188	08/29/2014	SW6850	Perchlorate	0.58		UG/L	2.0		0.019	0.20
J3 Range	MW-171M2	MW-171M2_F14	81	86	08/28/2014	SW6850	Perchlorate	0.25		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-585M3	MW-585M3_F14	198.5	208.5	08/26/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.78		UG/L	400		0.023	0.20
J2 Range Northern	MW-585M3	MW-585M3_F14	198.5	208.5	08/26/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.4		UG/L	0.60	X	0.026	0.20
J2 Range Northern	MW-585M3	MW-585M3_F14	198.5	208.5	08/26/2014	SW6850	Perchlorate	9.8		UG/L	2.0	X	0.038	0.40
J2 Range Northern	MW-585M3	MW-585M3_F14D	198.5	208.5	08/26/2014	SW6850	Perchlorate	9.8		UG/L	2.0	X	0.038	0.40
J2 Range Northern	MW-585M2	MW-585M2_F14	218.5	228.5	08/26/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.1		UG/L	0.60	X	0.026	0.20
J2 Range Northern	MW-585M2	MW-585M2_F14	218.5	228.5	08/26/2014	SW6850	Perchlorate	30.0		UG/L	2.0	X	0.095	1.0
J2 Range Northern	MW-585M2	MW-585M2_F14D	218.5	228.5	08/26/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.1		UG/L	0.60	X	0.026	0.20
J2 Range Northern	MW-585M2	MW-585M2_F14D	218.5	228.5	08/26/2014	SW6850	Perchlorate	27.9		UG/L	2.0	X	0.095	1.0
J2 Range Northern	MW-585M1	MW-585M1_F14	240	250	08/26/2014	SW6850	Perchlorate	16.6		UG/L	2.0	X	0.057	0.60
J2 Range Northern	MW-289S	MW-289S_F14	105	115	08/26/2014	SW6850	Perchlorate	0.031	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-289M2	MW-289M2_F14	162	172	08/26/2014	SW6850	Perchlorate	1.7		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-289M2	MW-289M2_F14	162	172	08/26/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.1		UG/L	0.60	X	0.026	0.20
J2 Range Northern	MW-289M2	MW-289M2_F14	162	172	08/26/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	2.3		UG/L	400		0.023	0.20
J2 Range Northern	MW-289M2	MW-289M2_F14D	162	172	08/26/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.1		UG/L	0.60	X	0.026	0.20
J2 Range Northern	MW-289M2	MW-289M2_F14D	162	172	08/26/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	2.3		UG/L	400		0.023	0.20
J2 Range Northern	MW-289M1	MW-289M1_F14	305	315	08/26/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.25		UG/L	400		0.023	0.20
J2 Range Northern	MW-289M1	MW-289M1_F14	305	315	08/26/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.28		UG/L	0.60		0.026	0.20
J2 Range Northern	MW-289M1	MW-289M1_F14	305	315	08/26/2014	SW6850	Perchlorate	0.40	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-588M2	MW-588M2_F14	198	208	08/25/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.26		UG/L	0.60		0.026	0.20
J2 Range Northern	MW-588M2	MW-588M2_F14	198	208	08/25/2014	SW6850	Perchlorate	14.6		UG/L	2.0	X	0.038	0.40
J2 Range Northern	MW-588M2	MW-588M2_F14D	198	208	08/25/2014	SW6850	Perchlorate	14.9		UG/L	2.0	X	0.038	0.40
J2 Range Northern	MW-293S	MW-293S_F14	110.1	120.1	08/25/2014	SW6850	Perchlorate	0.035	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-293M2	MW-293M2_F14	196.4	206.4	08/25/2014	SW6850	Perchlorate	0.30		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-293M1	MW-293M1_F14	296	306	08/25/2014	SW6850	Perchlorate	0.019	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-587M2	MW-587M2_F14	220	230	08/25/2014	SW6850	Perchlorate	10.9		UG/L	2.0	X	0.038	0.40
J2 Range Northern	MW-587M2	MW-587M2_F14D	220	230	08/25/2014	SW6850	Perchlorate	11.5		UG/L	2.0	X	0.038	0.40
J2 Range Northern	MW-587M1	MW-587M1_F14	250	260	08/22/2014	SW6850	Perchlorate	0.45		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-313M3	MW-313M3_F14	195.1	205.6	08/22/2014	SW6850	Perchlorate	0.032	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-313M2	MW-313M2_F14	215.5	225.5	08/22/2014	SW6850	Perchlorate	1.4		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-313M1	MW-313M1_F14	255.4	265.4	08/22/2014	SW6850	Perchlorate	4.7		UG/L	2.0	X	0.019	0.20
J2 Range Northern	MW-327M3	MW-327M3_F14	220.2	230.2	08/22/2014	SW6850	Perchlorate	0.035	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-327M2	MW-327M2_F14	265	275	08/21/2014	SW6850	Perchlorate	0.42		UG/L	2.0		0.019	0.20
J2 Range Northern	J2EW3-MW1-B	J2EW3-MW1-B_F14	210.7	220.7	08/21/2014	SW6850	Perchlorate	0.042	J	UG/L	2.0		0.019	0.20
J2 Range Northern	J2EW3-MW1-C	J2EW3-MW1-C_F14	245.7	255.7	08/21/2014	SW6850	Perchlorate	1.8		UG/L	2.0		0.019	0.20
J2 Range Northern	J2EW2-MW3-B	J2EW2-MW3-B_F14	212.7	222.7	08/19/2014	SW6850	Perchlorate	4.0		UG/L	2.0	X	0.019	0.20
J2 Range Northern	J2EW2-MW3-B	J2EW2-MW3-B_F14D	212.7	222.7	08/19/2014	SW6850	Perchlorate	3.9		UG/L	2.0	X	0.019	0.20
J2 Range Northern	J2EW3-MW-2-B	J2EW3-MW-2-B_F14	216.2	226.2	08/19/2014	SW6850	Perchlorate	0.030	J	UG/L	2.0		0.019	0.20
J2 Range Northern	J2EW3-MW-2-C	J2EW3-MW-2-C_F14	251.1	261.1	08/18/2014	SW6850	Perchlorate	0.65		UG/L	2.0		0.019	0.20
J2 Range Northern	J2EW2-MW2-A	J2EW2-MW2-A_F14	144.5	154.5	08/18/2014	SW6850	Perchlorate	0.052	J	UG/L	2.0		0.019	0.20
J2 Range Northern	J2EW2-MW2-B	J2EW2-MW2-B_F14	209.8	219.8	08/18/2014	SW6850	Perchlorate	0.044	J	UG/L	2.0		0.019	0.20
J2 Range Northern	J2EW2-MW2-C	J2EW2-MW2-C_F14	248.8	258.8	08/18/2014	SW6850	Perchlorate	0.048	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-322M1	MW-322M1_F14	245.8	255.8	08/18/2014	SW6850	Perchlorate	0.043	J	UG/L	2.0		0.019	0.20
Central Impact Area	MW-626M2	MW-626M2_R1	236.2	246.2	08/11/2014	SW6850	Perchlorate	0.091	J	UG/L	2.0		0.019	0.20
Central Impact Area	MW-626M2	MW-626M2_R1	236.2	246.2	08/11/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.1		UG/L	0.60	X	0.026	0.20

J = Estimated Result
 MDL = Method Detection Limit
 RL = Reporting Limit

**TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received October 2014**

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
Central Impact Area	MW-626M1	MW-626M1_R1	281.2	291.2	08/11/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	4.7		UG/L	0.60	X	0.026	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14	110	120	08/06/2014	SW6850	Perchlorate	0.11	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14	110	120	08/06/2014	SW8330	2,4-Dinitrotoluene	0.30		UG/L	5.0		0.026	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14	110	120	08/06/2014	SW8330	2,4,6-Trinitrotoluene	1.2		UG/L	2.0		0.029	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14	110	120	08/06/2014	SW8330	4-Amino-2,6-Dinitrotoluene	3.9		UG/L	7.3		0.017	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14	110	120	08/06/2014	SW8330	2-Amino-4,6-dinitrotoluene	5.8		UG/L	7.3		0.016	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14D	110	120	08/06/2014	SW8330	2,4-Dinitrotoluene	0.28	J	UG/L	5.0		0.026	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14D	110	120	08/06/2014	SW8330	2,4,6-Trinitrotoluene	0.96		UG/L	2.0		0.029	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14D	110	120	08/06/2014	SW8330	4-Amino-2,6-Dinitrotoluene	3.9		UG/L	7.3		0.017	0.20
J2 Range Northern	MW-234M2	MW-234M2_F14D	110	120	08/06/2014	SW8330	2-Amino-4,6-dinitrotoluene	5.8		UG/L	7.3		0.016	0.20
J2 Range Northern	MW-234M1	MW-234M1_F14	130	140	08/06/2014	SW6850	Perchlorate	0.093	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-234M1	MW-234M1_F14	130	140	08/06/2014	SW8330	2,4,6-Trinitrotoluene	0.32		UG/L	2.0		0.029	0.20
J2 Range Northern	MW-234M1	MW-234M1_F14	130	140	08/06/2014	SW8330	2-Amino-4,6-dinitrotoluene	1.3		UG/L	7.3		0.016	0.20
J2 Range Northern	MW-234M1	MW-234M1_F14	130	140	08/06/2014	SW8330	4-Amino-2,6-Dinitrotoluene	1.7		UG/L	7.3		0.017	0.20
J2 Range Northern	MW-130S	MW-130S_F14	103	113	08/06/2014	SW6850	Perchlorate	0.17	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-130S	MW-130S_F14	103	113	08/06/2014	SW8330	4-Amino-2,6-Dinitrotoluene	0.80		UG/L	7.3		0.017	0.20
J2 Range Northern	MW-130M1	MW-130M1_F14	160	170	08/06/2014	SW6850	Perchlorate	0.092	J	UG/L	2.0		0.019	0.20
J2 Range Northern	MW-230M2	MW-230M2_F14	110	120	08/06/2014	SW6850	Perchlorate	1.0		UG/L	2.0		0.019	0.20
J2 Range Northern	MW-230M1	MW-230M1_F14	130	140	08/06/2014	SW6850	Perchlorate	0.065	J	UG/L	2.0		0.019	0.20

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