MONTHLY PROGRESS REPORT #225
FOR DECEMBER 2015

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 December to 31 December 2015.

1. SUMMARY OF REMEDIATION ACTIONS

The following is a description of Remediation Actions (RA) underway at Camp Edwards as of December 2015. 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 160 gpm for the first half of the month (Extraction well EW-502 was offline for repairs through 18 November). Following completion of repairs, the facility continues to operate at a flow rate of 250 gpm, with over 2.298 billion gallons of water treated and re-injected as of 1 January 2016. The following shut down of the Frank Perkins Road facility occurred in December:

- Shut down on 21 December 2015 at 0758 to change bag filters and was restarted on 21 December 2015 at 0822.

The Pew Road Mobile Treatment Unit (MTU) continues to operate at a flow rate of 105 gpm with over 447.2 million gallons of water treated and re-injected as of 1 January 2016. The following Pew Road MTU shut downs occurred in December:

- Shut down on 7 December 2015 at 1529 due to a power interruption and was restarted on 7 December 2015 at 1721;
- Shut down on 8 December 2015 at 0935 due to a power interruption and was restarted on 8 December 2015 at 1132.

The Base Boundary RA was operating at a flow rate of 65 gpm with over 138.8 million gallons of water treated and re-injected as of 4 December 2015; currently the MTU is shut down, as noted below. The following Base Boundary MTU shut down occurred in December:

- Shut down on 9 December 2015 at 1210 for repairs. The system remains off pending replacement of valve.

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 1 January 2016, over 324 million gallons of water have been treated and re-injected. No J-1 Range Southern system shut downs occurred in December.

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 will continue to operate at a total system flow rate of 250 gpm. As of 1 January 2016, over 261 million gallons of water have been treated and re-injected. The following J-1 Range Northern MTU shut down occurred in December:

- Shut down on 18 December 2015 at 0709 due to a system alarm and was restarted on 18 December 2015 at 1056.

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 1 January 2016, over 863.7 million gallons of water have been treated and re-injected. The following J-3 Range system shut down occurred in December:

- EWIP1 was shut down on 15 December 2015 at 1152 due to a system alarm and was restarted on 16 December 2015 at 1018.

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 Re-infiltration 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 1 January 2016, over 722.5 million gallons of water have been treated and re-injected. No Northern Treatment Building shut downs occurred in December.

The Northern MTUs E and F continue to operate at a flow rate of 250 gpm. As of 1 January 2016, over 1.165 billion gallons of water have been treated and re-injected. No J-2 Range Northern MTU shut downs occurred in December.

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 1 January 2016, over 801.5 million gallons of water have been treated and re-injected. No shut downs of MTUs H and I occurred in December.

MTU J continues to operate at a flow rate of 120 gpm. As of 1 January 2016, over 355 million gallons of water have been treated and re-injected. No shut downs of MTU J occurred in December.

MTU K continues to operate at a flow rate of 125 gpm. As of 1 January 2016, over 459 million gallons of water have been treated and re-injected. No shut downs of MTU K occurred in December.

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 1 January 2016, over 507 million gallons of water have been treated and re-injected. The following CIA treatment facility shutdown occurred in December:

- CIA System 1 was shut down on 11 December 2015 at 0913 for repairs and was restarted on 11 December 2015 at 0937;
- CIA System 1 was shut down on 11 December 2015 at 1242 for repairs and was restarted on 14 December 2015 at 1005.

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 at Demolition Area 1, Demolition Area 2 and J-1 Range Northern.

Soil samples were collected at CIA, J-1 Range, J-2 Range, J-3 Range, and the Small Arms Ranges.

Groundwater Profile samples were collected at J-3 Range (BH-653) and IBC Range (BH-652), and soil drill cuttings from J-3 Range (BH-653).

Completed site clearing for the Leading Edge treatment system and completed percolation tests for the infiltration gallery design at Demolition Area 1.

Performed vegetation clearance of well pads and access roads at J-2 Range.

Resumed MEC investigation activities at J-3 Range.

Drilled in J-3 Range (Pilot Boring BH-653), IBC Range, and Demolition Area 2 (BH-654, BH-655). Performed well pad maintenance and road repair at Demolition Area 1, Demolition Area 2, J-1 Ranges, J-3 Range, L Range, J-2 Ranges, Small Arms Ranges, and Monument Beach Sportsman's Club.

Completed drilling and installation of D1-EW4 at Demolition Area 1.

Completed drilling and installation of EW-CIA-3 and excavated for associated reinjection gallery at CIA.

Continued intrusive investigation of Phase II area 1 and performed vegetation and surface clearance of Phase II area 3 at the CIA. Performed MetalMapper survey of Phase II area 2.

Demobilized MetalMapper team and two DAWSON UXO teams until 2016 field season.

Performed daily inspection of BEM cover at the CIA to insure cover is secure and intact.

Excavated and stockpiled soil, collected additional delineation soil samples, and collected post-excavation soil samples at Small Arms Ranges (SAR). Transported and disposed of some excavated soils off-site.

JBCC IAGWSP Tech Update Meeting Minutes 10 December 2015

Project and Field Work Update

In the Central Impact Area, vegetation, surface clearance and metal mapper activities are all ongoing in Phase II Area 3. One metal mapper unit is currently down. Updated CIA source status figures were forwarded to the group prior to the technical meeting. The CIA 2015 source report will be submitted to the agencies on December 15th.

IAGWSP stated that H&S is currently excavating at the C Range, they have completed excavation at the other five ranges they were working in. Former B Range will be completed by another contractor in the spring. Off-site disposal of the soil is scheduled to begin next week. MassDEP indicated that they will confirm what the online filing requirements are and get back to USACE. MassDEP noted that it would be best if the soil be sent off-site before winter as the required covering of the piles can be challenging.

USACE UXO is working at the J-3 Range in the area north of the Demolition Area. They are investigating approximately 150 anomalies that are greater than 27 millivolts. They completed the 100% grid in the Demolition Area and the meandering path. They will continue in the area north of the Demolition Area and the remaining anomalies in the Barrage and Burn/Kettle areas. It is anticipated that they will finish in late January.

Construction activities are underway at the CIA EW-3 groundwater treatment system. A 120' x 120' area for the reinjection gallery has been cleared. They have performed some road improvements and cleared brush along Avery Road. Once the extraction well drilling rig finishes the extraction well at the Demolition Area 1 source area (by the end of the week), it will mobilize to the CIA to begin drilling the extraction well. It was noted that it may take a bit longer at the CIA because the well will be drilled approximately 300 feet deep.

The sonic drill rig is working at Demolition Area 2 and should be finished today, there will be a screen setting call next week. The rig will move to install the two monitoring wells at the J-3 pilot boring, then return to Demolition Area 2 to install the screens. The crew will be off-site for two weeks during the holidays. When they return, they will finish installing screens at Demolition Area 2 (if needed) and then mobilize to the J-1 Northern Plume locations.

Demolition Area 1 off-site construction activities started yesterday with brush and tree cutting. All treatment systems are up and running with the exception of Demolition Area 1 base boundary.
MassDEP will be performing a J-2 Eastern groundwater treatment system inspection after the tech meeting.

Action Items

The action items were discussed and updated.

J-3 Range Annual Environmental Monitoring Report Presentation

A presentation was provided on the J-3 Range Annual Environmental Monitoring Report. It was noted that during the reporting period (August 2014 to July 2015) no new field work was conducted; however, several significant documents, including the Final Remedial Investigation/Feasibility Study report, Remedy Selection Plan and project notes to conduct additional geophysical and soil work were completed.

The J-3 Range groundwater treatment system performance statistics were reviewed and discussed. During the reporting period, 89 million gallons of groundwater were treated, 3.27 pounds of perchlorate and .48 pounds of RDX were removed and there were two media changeouts, one for ion exchange resin (September 2014) and one for carbon (November 2014).

Sampling locations, groundwater monitoring results, and trends were reviewed and discussed. In zone 1 (source area to base boundary) the maximum perchlorate concentration was 45.6 µg/L (MW-576M2) and the maximum RDX concentration was 3.4 µg/L (MW-193S). In zone 2 (downgradient of base boundary),

the maximum perchlorate concentration was 5.6 µg/L (MW- 227M2) and the maximum RDX concentration was 1.6 µg/L (J3EW0032). An overview of the hydraulic monitoring was presented. There was one synoptic water level round and data/gradients were consistent with past results. It was noted that the flow direction is north to south with convergent flow near extraction wells. Discussion was held on groundwater modeling activities during the reporting period. A modeled plume vs. observed plume comparison noted that in the downgradient area, the measured plumes were slightly smaller vs. the model predicted plumes. In the source area, observed plumes depict source area contamination where the model predicted plume forward migrated source contamination from 2013. A capture zone analysis was developed using reverse particle tracking and it appears that the existing system is adequately capturing the contaminant plumes.

Ecological impact monitoring activities included sampling of Snake Pond and analysis of data in the J-3 wetland. For Snake Pond, surface water samples were collected from three locations on two sampling events (June and July 2015). Explosives were non-detect and perchlorate detections were below the reporting limit. It was noted that these results are consistent with past reporting periods. At the J-3 wetland, the data is consistent with previous monitoring events and indicates a poor hydraulic connection between the aquifer and wetland. There is no evidence of any impact from the operation of J-3 treatment system on wetland elevations nor are there any observed ecological impacts.

IAGWSP recommends adding the several monitoring wells to the hydraulic monitoring program and removing one damaged well (MW-251) from the chemical monitoring network. IAGWSP is also recommending discontinuing Snake Pond surface water sampling. EPA and MassDEP comments on the report are pending.

JBCC Cleanup Team Meeting

The JBCC Cleanup Team (JBCCCT), formerly the MMR Cleanup Team (MMRCT) is next scheduled to meet on January 13, 2016. The Cleanup Team meeting discusses late breaking news and responses to action items, as well as updates from the IAGWSP and the Installation Restoration Program (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 December to 31 December 2015. 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 and Jonathan Bourne Library).

2. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

- Monthly Progress Report No. 224 for November 2015 12/10/2015
- Final Demolition Area 1 Off-base System Startup Monitoring Plan – Project Note 12/03/2015
- Draft J-3 Range 2015 Interim Environmental Monitoring Report 12/08/2015
- Draft J-2 Range Eastern and J-2 Range Northern 2015 Annual Environmental Monitoring Report 12/29/2015

3. SCHEDULED ACTIONS

The following documents are being prepared or revised during January 2016:

- Demolition Area 2 2015 Environmental Monitoring Report;
- J-2 Range Project Note for Additional Wells to Evaluate Source Response;
- Training Areas Draft Investigation Report;
- Training Areas Draft Remedy Selection Plan;
- Corrective Action Memo for BEM;
- Western Boundary 2015 Annual Environmental Monitoring Report;
- Western Boundary Residual Risk Assessment Report;
- CIA System Performance Monitoring Report;
- CIA Environmental Monitoring Work Plan;
- CIA Draft 2015 Source Removal Annual Report;
- Northwest Corner Annual Environmental Monitoring Report;
- J-3 Range 2015 Interim Environmental Monitoring Report; and
- J-2 Range Eastern and J-2 Range Northern 2015 Environmental Monitoring Report.

TABLE 1
Sampling Progress:
November 13 through December 17, 2015

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
N Range	SSNRNG01	NR01A_PEA	N	12/17/2015	Soil	0	0.25
N Range	NR01DR	NR01ADR_PEA	N	12/17/2015	Soil	0	0.25
N Range	SSNRNG02	NR02A_PEA	N	12/17/2015	Soil	0	0.25
N Range	NR02DR	NR02ADR_PEC	FR	12/17/2015	Soil	0	0.25
N Range	NR02DR	NR02ADR_PEB	FR	12/17/2015	Soil	0	0.25
N Range	NR02DR	NR02ADR_PEA	N	12/17/2015	Soil	0	0.25
N Range	NR03	NR03_PEC	FR	12/17/2015	Soil	0	0.25
N Range	NR03	NR03_PEB	FR	12/17/2015	Soil	0	0.25
N Range	NR03	NR03_PEA	N	12/17/2015	Soil	0	0.25
Former M-2 Range	SSFMRM205	FMRM205A_PEA	N	12/17/2015	Soil	0	0.25
Former M-2 Range	SSFMRM204	FMRM204A_PEA	N	12/17/2015	Soil	0	0.25
Former M-2 Range	SSFMRM203	FMRM203A_PEA	N	12/17/2015	Soil	0	0.25
Former M-2 Range	FM2R03DR	FM2R03DR-A_PEA	N	12/17/2015	Soil	0	0.25
Former M-2 Range	SSFMRM202	FMRM202A-PEC	FR	12/16/2015	Soil	0	0.25
Former M-2 Range	SSFMRM202	FMRM202A-PEB	FR	12/16/2015	Soil	0	0.25
Former M-2 Range	SSFMRM202	FMRM202A-PEA	N	12/16/2015	Soil	0	0.25
Former M-2 Range	FM2R02DR	FM2R02DR-A_PEC	FR	12/16/2015	Soil	0	0.25
Former M-2 Range	FM2R02DR	FM2R02DR-A_PEB	FR	12/16/2015	Soil	0	0.25
Former M-2 Range	FM2R02DR	FM2R02DR-A_PEA	N	12/16/2015	Soil	0	0.25
G Range	GR01DR	GR01DR_PEC	FR	12/16/2015	Soil	0	0.25
G Range	GR01DR	GR01DR_PEB	FR	12/16/2015	Soil	0	0.25
G Range	GR01DR	GR01DR_PEA	N	12/16/2015	Soil	0	0.25
J2 Range Eastern	J2E-EFF-K	J2E-EFF-K-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-2K	J2E-MID-2K-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1K	J2E-MID-1K-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-INF-K	J2E-INF-K-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-INF-J	J2E-INF-J-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-87A	N	12/10/2015	Process Water	0	0
J2 Range Eastern	J2E-INF-I	J2E-INF-I-87A	N	12/10/2015	Process Water	0	0
Demolition Area 1	PR-EFF	PR-EFF-117A	N	12/09/2015	Process Water	0	0
Demolition Area 1	PR-MID-2	PR-MID-2-117A	N	12/09/2015	Process Water	0	0
Demolition Area 1	PR-MID-1	PR-MID-1-117A	N	12/09/2015	Process Water	0	0
Demolition Area 1	PR-INF	PR-INF-117A	N	12/09/2015	Process Water	0	0
J1 Range Southern	J1S-EFF	J1S-EFF-97A	N	12/09/2015	Process Water	0	0
J1 Range Southern	J1S-MID-2	J1S-MID-2-97A	N	12/09/2015	Process Water	0	0
J1 Range Southern	J1S-INF-2	J1S-INF-2-97A	N	12/09/2015	Process Water	0	0
J3 Range	J3-EFF	J3-EFF-111A	N	12/09/2015	Process Water	0	0
J3 Range	J3-MID-2	J3-MID-2-111A	N	12/09/2015	Process Water	0	0
J3 Range	J3-MID-1	J3-MID-1-111A	N	12/09/2015	Process Water	0	0
J3 Range	J3-INF	J3-INF-111A	N	12/09/2015	Process Water	0	0
Demolition Area 1	FPR-2-EFF-A	FPR-2-EFF-A-117A	N	12/08/2015	Process Water	0	0
Demolition Area 1	FPR-2-GAC-MID3A	FPR-2-GAC-MID3A-117A	N	12/08/2015	Process Water	0	0
Demolition Area 1	FPR2-POST-IX-A	FPR2-POST-IX-A-117A	N	12/08/2015	Process Water	0	0
Demolition Area 1	FPR-2-INF	FPR-2-INF-117A	N	12/08/2015	Process Water	0	0
Demolition Area 1	D1-EFF	D1-EFF-65A	N	12/08/2015	Process Water	0	0
Demolition Area 1	D1-MID-2	D1-MID-2-65A	N	12/08/2015	Process Water	0	0
Demolition Area 1	D1-MID-1	D1-MID-1-65A	N	12/08/2015	Process Water	0	0
Demolition Area 1	D1-INF	D1-INF-65A	N	12/08/2015	Process Water	0	0
Central Impact Area	CIA2-EFF	CIA2-EFF-23A	N	12/07/2015	Process Water	0	0
Central Impact Area	CIA2-MID2	CIA2-MID2-23A	N	12/07/2015	Process Water	0	0
Central Impact Area	CIA2-MID1	CIA2-MID1-23A	N	12/07/2015	Process Water	0	0
Central Impact Area	CIA2-INF	CIA2-INF-23A	N	12/07/2015	Process Water	0	0
Central Impact Area	CIA1-EFF	CIA1-EFF-23A	N	12/07/2015	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-23A	N	12/07/2015	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress:
November 13 through December 17, 2015

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Central Impact Area	CIA1-MID1	CIA1-MID1-23A	N	12/07/2015	Process Water	0	0
Central Impact Area	CIA1-INF	CIA1-INF-23A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-MID-2G	J2N-MID-2G-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-INF-G	J2N-INF-G-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-111A	N	12/07/2015	Process Water	0	0
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-111A	N	12/07/2015	Process Water	0	0
J1 Range Northern	J1N-EFF	J1N-EFF-26A	N	12/07/2015	Process Water	0	0
J1 Range Northern	J1N-MID2	J1N-MID2-26A	N	12/07/2015	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-26A	N	12/07/2015	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-26A	N	12/07/2015	Process Water	0	0
Demolition Area 1	MW-559M2	MW-559M2_F15	N	12/03/2015	Ground Water	87	97
Demolition Area 1	MW-559M1	MW-559M1_F15	N	12/03/2015	Ground Water	135.6	145.6
J3 Range	BH-653	J3pilot_191-196	N	12/03/2015	GW Profile	191	196
Demolition Area 1	MW-558M2	MW-558M2_F15	N	12/03/2015	Ground Water	98	108
J3 Range	BH-653	SSJ3pilot_186-196	N	12/03/2015	Drill Cuttings, Solid Matrix	186	196
Demolition Area 1	MW-558M1	MW-558M1_F15	N	12/03/2015	Ground Water	134	144
Demolition Area 1	MW-556M2	MW-556M2_F15	N	12/03/2015	Ground Water	111	121
J3 Range	BH-653	SSJ3pilot_176-186	N	12/03/2015	Drill Cuttings, Solid Matrix	176	186
Demolition Area 1	MW-556M1	MW-556M1_F15	N	12/03/2015	Ground Water	153	163
J3 Range	BH-653	J3pilot_171-176	N	12/03/2015	GW Profile	171	176
J3 Range	BH-653	SSJ3pilot_166-176	N	12/03/2015	Drill Cuttings, Solid Matrix	166	176
J3 Range	BH-653	J3pilot_161-166	N	12/02/2015	GW Profile	161	166
Demolition Area 1	MW-73S	MW-73S_F15	N	12/02/2015	Ground Water	52.2	61.7
J3 Range	BH-653	SSJ3pilot_156-166	N	12/02/2015	Drill Cuttings, Solid Matrix	156	166
Demolition Area 1	MW-19S	MW-19S_F15	N	12/02/2015	Ground Water	52.7	62.7
Demolition Area 1	MW-19S	MW-19S_F15D	FD	12/02/2015	Ground Water	52.7	62.7
J3 Range	BH-653	J3pilot_151-156	N	12/02/2015	GW Profile	151	156
J3 Range	BH-653	SSJ3pilot_146-156	N	12/02/2015	Drill Cuttings, Solid Matrix	146	156
Demolition Area 1	MW-211M1	MW-211M1_F15	N	12/02/2015	Ground Water	200	210
Demolition Area 1	MW-211M1	MW-211M1_F15D	FD	12/02/2015	Ground Water	200	210
J3 Range	BH-653	J3pilot_141-146	N	12/02/2015	GW Profile	141	146
Demolition Area 1	MW-341M3	MW-341M3_F15	N	12/02/2015	Ground Water	209.5	219.5
J3 Range	BH-653	SSJ3pilot_136-146	N	12/02/2015	Drill Cuttings, Solid Matrix	136	146
J3 Range	BH-653	J3pilot_131-136	N	12/02/2015	GW Profile	131	136
Demolition Area 1	MW-341M2	MW-341M2_F15	N	12/02/2015	Ground Water	264.5	269.5
J3 Range	BH-653	SSJ3pilot_126-136	N	12/02/2015	Drill Cuttings, Solid Matrix	126	136
J3 Range	BH-653	J3pilot_121-126	N	12/01/2015	GW Profile	121	126
Demolition Area 1	MW-258M1	MW-258M1_F15	N	12/01/2015	Ground Water	109	119
Demolition Area 1	MW-258M1	MW-258M1_F15D	FD	12/01/2015	Ground Water	109	119
J3 Range	BH-653	SSJ3pilot_116-126	N	12/01/2015	Drill Cuttings, Solid Matrix	116	126
J3 Range	BH-653	SSJ3pilot_116-126D	FD	12/01/2015	Drill Cuttings, Solid Matrix	116	126
J3 Range	BH-653	J3pilot_111-116	N	12/01/2015	GW Profile	111	116
J3 Range	BH-653	J3pilot_111-116D	FD	12/01/2015	GW Profile	111	116
Demolition Area 1	MW-532M2	MW-532M2_F15	N	12/01/2015	Ground Water	138	148
Demolition Area 1	MW-532M2	MW-532M2_F15D	FD	12/01/2015	Ground Water	138	148
Demolition Area 1	MW-532M1	MW-532M1_F15	N	12/01/2015	Ground Water	168	178
J3 Range	BH-653	J3pilot_101-106	N	12/01/2015	GW Profile	101	106
Demolition Area 2	MW-161S	MW-161S_F15	N	12/01/2015	Ground Water	145.5	155.5
J3 Range	BH-653	J3pilot_91-96	N	12/01/2015	GW Profile	91	96
Demolition Area 2	MW-160S	MW-160S_F15	N	12/01/2015	Ground Water	137.5	147.5
Demolition Area 2	MW-311M1	MW-311M1_F15	N	11/30/2015	Ground Water	222	232
Demolition Area 2	MW-404M2	MW-404M2_F15	N	11/30/2015	Ground Water	200	210
Demolition Area 2	MW-404M1	MW-404M1_F15	N	11/30/2015	Ground Water	219.5	229.5
Demolition Area 2	MW-573M2	MW-573M2_F15	N	11/30/2015	Ground Water	155.4	165.4
Demolition Area 2	MW-573M2	MW-573M2_F15D	FD	11/30/2015	Ground Water	155.4	165.4

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress:
November 13 through December 17, 2015

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Demolition Area 2	MW-573M1	MW-573M1_F15	N	11/30/2015	Ground Water	176.4	186.4
J3 Range	BH-653	J3pilot_81-86	N	11/24/2015	GW Profile	81	86
J3 Range	BH-653	J3pilot_71-76	N	11/24/2015	GW Profile	71	76
J3 Range	BH-653	J3pilot_71-76D	FD	11/24/2015	GW Profile	71	76
Demolition Area 2	MW-572M1	MW-572M1_F15	N	11/24/2015	Ground Water	164.9	174.9
J3 Range	BH-653	J3pilot_61-66	N	11/24/2015	GW Profile	61	66
Demolition Area 2	MW-435M2	MW-435M2_F15	N	11/24/2015	Ground Water	149.6	159.9
J3 Range	BH-653	J3pilot_51-56	N	11/24/2015	GW Profile	51	56
J3 Range	BH-653	J3pilot_41-46	N	11/24/2015	GW Profile	41	46
J3 Range	BH-653	J3pilot_31-36	N	11/24/2015	GW Profile	31	36
Demolition Area 2	MW-435M1	MW-435M1_F15	N	11/24/2015	Ground Water	169.9	180
J3 Range	BH-653	J3pilot_21-26	N	11/24/2015	GW Profile	21	26
G Range	SSGRNG01	GR01A_PEA	N	11/23/2015	Soil	0	0.25
G Range	GR04	GR04 PEC	FR	11/23/2015	Soil	0	0.25
G Range	GR04	GR04 PEB	FR	11/23/2015	Soil	0	0.25
G Range	GR04	GR04 PEA	N	11/23/2015	Soil	0	0.25
B Range	BR02DR	BR02ADR-PEC	FR	11/21/2015	Soil	0	0.25
B Range	BR02DR	BR02ADR-PEB	FR	11/21/2015	Soil	0	0.25
B Range	BR02DR	BR02ADR-PEA	N	11/21/2015	Soil	0	0.25
B Range	SSBRNGSW	BR SW	N	11/21/2015	Soil	0	0.25
B Range	SSBRNGN	BR NG	N	11/21/2015	Soil	0	0.25
B Range	SSBRNG02	BR-BR02A	N	11/21/2015	Soil	0	0.25
B Range	BR06	BR-B6	N	11/21/2015	Soil	0	0.25
B Range	SSBRNGSE	BR-SEG-PEC	FR	11/21/2015	Soil	0	0.25
B Range	SSBRNGSE	BR-SEG-PEB	FR	11/21/2015	Soil	0	0.25
B Range	SSBRNGSE	BR-SEG-PEA	N	11/21/2015	Soil	0	0.25
Former D Range	FDRD1-Ac	FMRD1-AC-PEC	FR	11/21/2015	Soil	0	0.25
Former D Range	FDRD1-Ac	FMRD1-AC-PEB	FR	11/21/2015	Soil	0	0.25
Former D Range	FDRD1-Ac	FMRD1-AC-PEA	N	11/21/2015	Soil	0	0.25
Former D Range	FDRD1-Ab	FMRD1-AB-PEA	N	11/21/2015	Soil	0	0.25
Former D Range	FDRD1-Aa	D1-Aa	N	11/19/2015	Soil	0	0.25
Former D Range	FDR05	FDR05_PEA	N	11/19/2015	Soil	0	0.25
J1 Range Northern	MW-164M2	MW-164M2_F15	N	11/19/2015	Ground Water	157	167
Former D Range	FDR07	FDR07_PEA	N	11/19/2015	Soil	0	0.25
Former D Range	FDR06	FDR06_PEC	FR	11/19/2015	Soil	0	0.25
Former D Range	FDR06	FDR06_PEB	FR	11/19/2015	Soil	0	0.25
Former D Range	FDR06	FDR06_PEA	N	11/19/2015	Soil	0	0.25
J1 Range Northern	MW-164M1	MW-164M1_F15	N	11/19/2015	Ground Water	227	237
J2 Range Eastern	SSJ2P13	J2P13-A	N	11/19/2015	Soil	0	0.25
J2 Range Eastern	SSJ2P14	J2P14-A	N	11/19/2015	Soil	0	0.25
D Range	SSDR02	DR02_A	N	11/18/2015	Soil	0	0.25
D Range	SSDR02	DR02_B	FR	11/18/2015	Soil	0	0.25
D Range	SSDR02	DR02_C	FR	11/18/2015	Soil	0	0.25
J2 Range Eastern	SSJ2N13	J2N13-A	N	11/18/2015	Soil	0	0.25
IBC RANGE	BH-652	IBCP-1_151-156	N	11/18/2015	GW Profile	151	156
J1 Range Southern	SSJ1M1	J1M1_C	FR	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1M1	J1M1_B	FR	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1M2	J1M2_A	N	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1M1	J1M1_A	N	11/18/2015	Soil	0	0.25
IBC RANGE	BH-652	IBCP-1_141-146	N	11/18/2015	GW Profile	141	146
J1 Range Southern	SSJ1J1	J1J1_C	FR	11/18/2015	Soil	0	0.25
J2 Range Eastern	SSJ2O13	J2O13-A_R2	FR	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1L2	J1L2_A	N	11/18/2015	Soil	0	0.25
IBC RANGE	BH-652	IBCP-1_131-136	N	11/18/2015	GW Profile	131	136
J2 Range Eastern	SSJ2O13	J2O13-A_R1	FR	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1L1	J1L1_A	N	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1J1	J1J1_B	FR	11/18/2015	Soil	0	0.25
IBC RANGE	BH-652	IBCP-1_121-126	N	11/18/2015	GW Profile	121	126
J1 Range Southern	SSJ1K1	J1K1_A	N	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1J1	J1J1_A	N	11/18/2015	Soil	0	0.25
J2 Range Eastern	SSJ2O13	J2O13-A	N	11/18/2015	Soil	0	0.25

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress:
November 13 through December 17, 2015

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
IBC RANGE	BH-652	IBCP-1_111-116	N	11/18/2015	GW Profile	111	116
J1 Range Southern	SSJ1I0	J1I0_A	N	11/18/2015	Soil	0	0.25
J1 Range Southern	SSJ1J0	J1J0_A	N	11/18/2015	Soil	0	0.25
IBC RANGE	BH-652	IBCP-1_101-106	N	11/18/2015	GW Profile	101	106
Former D Range	FDR135U	FDR135U_PEA	N	11/17/2015	Soil	0	0.25
Former D Range	FDR135GT	FDR135GT_PEC	FR	11/17/2015	Soil	0	0.25
J1 Range Northern	MW-168M3	MW-168M3_F15	N	11/17/2015	Ground Water	103	113
Former D Range	FDR135GT	FDR135GT_PEB	FR	11/17/2015	Soil	0	0.25
Former D Range	FDR135GT	FDR135GT_PEA	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA12	J3DA12_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA16	J3DA16_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA11	J3DA11_A	N	11/17/2015	Soil	0	0.25
J1 Range Northern	MW-168M2	MW-168M2_F15	N	11/17/2015	Ground Water	198	208
J3 Range	SSJ3DA13	J3DA13_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA14	J3DA14_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA03	J3DA03_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA06	J3DA06_A	N	11/17/2015	Soil	0	0.25
J1 Range Northern	MW-166M3	MW-166M3_F15	N	11/17/2015	Ground Water	125	135
J3 Range	SSJ3DA04	J3DA04_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA05	J3DA05_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA09	J3DA09_A	N	11/17/2015	Soil	0	0.25
J1 Range Northern	MW-166M2	MW-166M2_F15	N	11/17/2015	Ground Water	150	160
J3 Range	SSJ3DA07	J3DA07_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA08	J3DA08_C	FR	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA08	J3DA08_B	FR	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA10	J3DA10_A	N	11/17/2015	Soil	0	0.25
J1 Range Northern	MW-166M1	MW-166M1_F15	N	11/17/2015	Ground Water	218	223
J3 Range	SSJ3DA08	J3DA08_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA01	J3DA01_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA02	J3DA02_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA19	J3DA19_A	N	11/17/2015	Soil	0	0.25
J3 Range	SSJ3DA18	J3DA18_A	N	11/16/2015	Soil	0	0.25
J3 Range	SSJ3DA00	J3DA00_C	FR	11/16/2015	Soil	0	0.25
J3 Range	SSJ3DA00	J3DA00_B	FR	11/16/2015	Soil	0	0.25
J1 Range Northern	MW-187M1	MW-187M1_F15	N	11/16/2015	Ground Water	160	170
J3 Range	SSJ3DA15	J3DA15_A	N	11/16/2015	Soil	0	0.25
J1 Range Northern	MW-187D	MW-187D_F15	N	11/16/2015	Ground Water	306	316
J3 Range	SSJ3DA00	J3DA00_A	N	11/16/2015	Soil	0	0.25
J3 Range	SSJ3DA17	J3DA17_A	N	11/16/2015	Soil	0	0.25
J1 Range Northern	MW-306M2	MW-306M2_F15	N	11/16/2015	Ground Water	164.7	174.7
Central Impact Area	SSCIAMM152	DA100914CIA01_30A	N	11/16/2015	Soil	0	0.25
Central Impact Area	SSCIAMM021	DA041714CIA01_30C	FR	11/16/2015	Soil	0	0.25
Central Impact Area	SSCIAMM021	DA041714CIA01_30B	FR	11/16/2015	Soil	0	0.25
Central Impact Area	SSCIAMM021	DA041714CIA01_30A	N	11/16/2015	Soil	0	0.25
Central Impact Area	SSCIAMM433	DA073015CIA04_30A	N	11/16/2015	Soil	0	0.25
J1 Range Northern	MW-306M1	MW-306M1_F15	N	11/16/2015	Ground Water	184.9	194.9
Central Impact Area	SSCIAMM568	DA092815CIA02_30A	N	11/16/2015	Soil	0	0.25
J1 Range Northern	MW-306D	MW-306D_F15	N	11/16/2015	Ground Water	291.7	301.7
U Range	SSURFL10	URFL10_A	N	11/15/2015	Soil	0	0.25
U Range	SSURFL09	URFL09_A	N	11/15/2015	Soil	0	0.25
U Range	SSURFL07	URFL07_C	FR	11/15/2015	Soil	0	0.25
U Range	SSURFL07	URFL07_B	FR	11/15/2015	Soil	0	0.25
U Range	SSURFL07	URFL07_A	N	11/15/2015	Soil	0	0.25
U Range	SSURFL08	URFL08_A	N	11/15/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA002	DA081114J201_30C	FR	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA002	DA081114J201_30B	FR	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA002	DA081114J201_30A	N	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA023	DA090414J203_30A	N	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA099	DA123114J206_30A	N	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA147	DA011415J203_30A	N	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA148	DA011515J201_30A	N	11/13/2015	Soil	0	0.25

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TABLE 1
Sampling Progress:
November 13 through December 17, 2015

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J2 Range Eastern	SSJ2DA170	DA12015J201_30A	N	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2DA189	DA012215J202_30A	N	11/13/2015	Soil	0	0.25
J2 Range Eastern	SSJ2US035	USACE02072015010_30A	N	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAMM506	DA082715CIA02_30A	N	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAPII10AC016	DA102214CIA03_30C	FR	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAPII10AC016	DA102214CIA03_30B	FR	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAPII10AC016	DA102214CIA03_30A	N	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAMM372	DA062415CIA01_30A	N	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAMM579	DA100615CIA02_30A	N	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAMM080	DA052914CIA01_30A	N	11/13/2015	Soil	0	0.25
Central Impact Area	SSCIAMM327	DA051115CIA02_30A	N	11/13/2015	Soil	0	0.25

N = Normal Sample
FD = Field Duplicate

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received December 2015

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
J1 Range Northern	MW-567M1	MW-567M1_F15	215.5	225.5	11/03/2015	SW6850	Perchlorate	25.8		UG/L	2.0	X	0.075	1.0
J1 Range Northern	MW-567M1	MW-567M1_F15	215.5	225.5	11/03/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	9.6		UG/L	0.60	X	0.025	0.20
J1 Range Northern	MW-567M1	MW-567M1_F15D	215.5	225.5	11/03/2015	SW6850	Perchlorate	25.8		UG/L	2.0	X	0.075	1.0
J1 Range Northern	MW-567M1	MW-567M1_F15D	215.5	225.5	11/03/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	9.8		UG/L	0.60	X	0.025	0.20
J1 Range Northern	MW-370M2	MW-370M2_F15	215.5	225.5	11/03/2015	SW6850	Perchlorate	0.050	J	UG/L	2.0		0.015	0.20
Central Impact Area	MW-370M1	MW-370M1_F15	245	255	11/03/2015	SW6850	Perchlorate	3.9		UG/L	2.0	X	0.015	0.20
J1 Range Northern	MW-563M1	MW-563M1_F15	215	225	10/28/2015	SW6850	Perchlorate	0.086	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-564M1	MW-564M1_F15	227	237	10/28/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.30		UG/L	400		0.019	0.20
J1 Range Northern	MW-564M1	MW-564M1_F15	227	237	10/28/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.8		UG/L	0.60	X	0.025	0.20
J1 Range Northern	MW-564M1	MW-564M1_F15	227	237	10/28/2015	SW6850	Perchlorate	49.2		UG/L	2.0	X	0.075	1.0
J1 Range Northern	MW-564M1	MW-564M1_F15D	227	237	10/28/2015	SW6850	Perchlorate	49.6		UG/L	2.0	X	0.075	1.0
J1 Range Northern	MW-549M2	MW-549M2_F15	187.3	197.3	10/28/2015	SW6850	Perchlorate	0.055	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-549M1	MW-549M1_F15	227.4	237.4	10/28/2015	SW6850	Perchlorate	1.9		UG/L	2.0		0.015	0.20
J1 Range Northern	MW-547M2	MW-547M2_F15	178	188	10/28/2015	SW6850	Perchlorate	0.038	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-547M1	MW-547M1_F15	237	247	10/28/2015	SW6850	Perchlorate	0.35		UG/L	2.0		0.015	0.20
U Range	MW-649S	MW-649S_R1	113.5	123.5	10/27/2015	SW6850	Perchlorate	0.12	J	UG/L	2.0		0.015	0.20
J1 Range Southern	MW-647M1	MW-647M1_R1	207.8	217.8	10/27/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	4.6		UG/L	0.60	X	0.025	0.20
J1 Range Southern	MW-646M2	MW-646M2_R1	166	176	10/26/2015	SW6850	Perchlorate	0.032	J	UG/L	2.0		0.015	0.20
J1 Range Southern	MW-646M1	MW-646M1_R1	196	206	10/26/2015	SW6850	Perchlorate	0.058	J	UG/L	2.0		0.015	0.20
J1 Range Southern	MW-645M1	MW-645M1_R1	183.5	193.5	10/26/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.96		UG/L	0.60	X	0.025	0.20
Central Impact Area	MW-644M2	MW-644M2_R1	230.9	240.9	10/21/2015	SW6850	Perchlorate	0.083	J	UG/L	2.0		0.015	0.20
Central Impact Area	MW-644M2	MW-644M2_R1	230.9	240.9	10/21/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.3		UG/L	0.60	X	0.025	0.20
Central Impact Area	MW-644M1	MW-644M1_R1	275.9	285.9	10/21/2015	SW6850	Perchlorate	0.022	J	UG/L	2.0		0.015	0.20
Central Impact Area	MW-644M1	MW-644M1_R1	275.9	285.9	10/21/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.2		UG/L	0.60	X	0.025	0.20
J3 Range	MW-251M1	MW-251M1_F15	128	133	10/20/2015	SW6850	Perchlorate	0.089	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-566M1	MW-566M1_F15	232	242	10/15/2015	SW6850	Perchlorate	6.2		UG/L	2.0	X	0.015	0.20
J1 Range Northern	MW-479M1	MW-479M1_F15	240	250	10/15/2015	SW6850	Perchlorate	0.016	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-430M2	MW-430M2_F15	188.4	198.4	10/14/2015	SW6850	Perchlorate	0.029	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-606M2	MW-606M2_F15	193.2	203.2	10/14/2015	SW6850	Perchlorate	0.027	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-401M3	MW-401M3_F15	228.5	238.5	10/13/2015	SW6850	Perchlorate	0.11	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-584M2	MW-584M2_F15	228	238	10/13/2015	SW6850	Perchlorate	0.13	J	UG/L	2.0		0.015	0.20
J1 Range Northern	MW-584M1	MW-584M1_F15	248	258	10/13/2015	SW6850	Perchlorate	8.9		UG/L	2.0	X	0.015	0.20
J1 Range Northern	MW-584M1	MW-584M1_F15D	248	258	10/13/2015	SW6850	Perchlorate	9.0		UG/L	2.0	X	0.015	0.20
J1 Range Northern	MW-590M2	MW-590M2_F15	238	248	10/13/2015	SW6850	Perchlorate	0.60		UG/L	2.0		0.015	0.20
J1 Range Northern	MW-590M1	MW-590M1_F15	258	268	10/13/2015	SW6850	Perchlorate	0.017	J	UG/L	2.0		0.015	0.20

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

MCL/HA= Either the MCL or Lowest Health Advisory Limit