MONTHLY PROGRESS REPORT #221
FOR AUGUST 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 August to 31 August 2015.

1. SUMMARY OF REMEDIATION ACTIONS

The following is a description of Remediation Actions (RA) underway at Camp Edwards as of August 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 250 gpm with over 2.262 billion gallons of water treated and re-injected as of 28 August 2015. No shut downs of the Frank Perkins Road facility occurred in August.

The Pew Road Mobile Treatment Unit (MTU) continues to operate at a flow rate of 105 gpm with over 427 million gallons of water treated and re-injected as of 28 August 2015. The following Pew Road MTU shut downs occurred in August:

- Shut down on 4 August 2015 at 0745 due to a power outage and was restarted on 4 August 2015 at 0936;
- Shut down on 11 August 2015 at 1125 due to a system alarm and was restarted on 11 August 2015 at 1154;
- Shut down on 12 August 2015 at 1115 due to a system alarm and was restarted on 12 August 2015 at 1626; and
- Shut down on 16 August 2015 at 1507 due to a system alarm and was restarted on 17 August 2015 at 0728.

The Base Boundary RA continues to operate at a flow rate of 65 gpm with over 122.3 million gallons of water treated and re-injected as of 28 August 2015. The following Base Boundary MTU shut downs occurred in August:

- Shut down on 4 August 2015 at 0729 due to a power outage and was restarted on 4 August 2015 at 1019; and
- Shut down on 22 August 2015 at 0929 due to a power interruption and was restarted on 24 August 2015 at 1100.

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 28 August 2015, over 272 million gallons of water have been treated and re-injected. No J-1 Range Southern system shut downs occurred in August.

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 28 August 2015, over 188 million gallons of water have been treated and re-injected. The following J-1 Range Northern MTU shut down occurred in August:

- P-201 shut down on 27 August 2015 at 0414 due to a system alarm and was restarted on 27 August 2015 at 1306.

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 28 August 2015, over 838 million gallons of water have been treated and re-injected. The following J-3 Range system shut downs occurred in August:

- Shut down on 4 August 2015 at 0334 due to a system alarm and was restarted on 4 August 2015 at 0903; and
- Shut down on 15 August 2015 at 0357 due to a power interruption and was restarted on 17 August 2015 at 0957.

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 28 August 2015, over 623 million gallons of water have been treated and re-injected. The following Northern Treatment Building shut downs occurred in August:

- Shut down on 13 August 2015 at 2100 due to a power outage and remained down due to ranges being closed for 50 caliber firing; the system was restarted on 19 August 2015 at 1014.

The Northern MTUs E and F continue to operate at a flow rate of 250 gpm. As of 28 August 2015, over 1.026 million gallons of water have been treated and re-injected. The following J-2 Range Northern MTUs shut downs occurred in August:

- MTU E shut down on 3 August 2015 at 1517 due to a system alarm and was restarted on 4 August 2015 at 0642;
- MTU E shut down on 4 August 2015 at 0724 due to a power outage and was restarted on 4 August 2015 at 0756;
- MTU F shut down on 4 August 2015 at 0724 due to a power outage and was restarted on 4 August 2015 at 0755;
- MTU E shut down on 4 August 2015 at 0914 due to a system alarm and was restarted on 4 August 2015 at 1012;
- MTU F shut down on 11 August 2015 at 0903 due to a system alarm and was restarted on 11 August 2015 at 1007;
- MTUs E and F shut down on 13 August 2015 at 2100 due to a power outage and remained down due to ranges being closed for 50 caliber firing – it is unclear from the weekly field work updates when the MTUs were restarted following the ranges being closed;
- MTU E shut down on 18 August 2015 at 1944 due to a system alarm and was restarted on 19 August 2015 at 0841;
- MTU F shut down on 18 August 2015 at 1933 due to a system alarm and was restarted on 19 August 2015 at 0839;
- MTU E shut down on 22 August 2015 at 0930 due to a system alarm and was restarted on 24 August 2015 at 0828; and
- MTU F shut down on 22 August 2015 at 0922 due to a system alarm and was restarted on 24 August 2015 at 0824.

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 28 August 2015, over 708 million gallons of water have been treated and re-injected. The following shut downs of MTUs H and I occurred in August:

- MTUs H and I shut down on 4 August 2015 at 0729 due to a power outage and were restarted on 4 August 2015 at 0845;
- MTUs H and I shut down on 15 August 2015 at 0618 due to a power interruption and were restarted on 17 August 2015 at 1019; and
- MTUs H and I shut down on 22 August 2015 at 0101 due to a power interruption and were restarted on 24 August 2015 at 0915.

MTU J continues to operate at a flow rate of 120 gpm. As of 28 August 2015, over 336 million gallons of water have been treated and re-injected. The following shut downs of MTU J occurred in August:

- MTU J shut down on 15 August 2015 at 0520 due to a system alarm and was restarted on 17 August 2015 at 1155.

MTU K continues to operate at a flow rate of 125 gpm. As of 28 August 2015, over 399 million gallons of water have been treated and re-injected. No shut downs of MTU K occurred in August.

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 28 August 2015, over 415 million gallons of water have been treated and re-injected. No CIA treatment facility shutdowns occurred in August.

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 J-2 Range Northern, J-3 Range, and Demolition Area 1.

Soil samples were collected at J-2 Range Eastern and the CIA.

Groundwater profile samples were collected at Demolition Area 1 and U Range.

Soil profile samples were collected at Demolition Area 1.

Continued drilling in U Range and Demolition Area 1.

Performed vegetation removal on roads and well pads within J-2 Range Eastern.

Completed MEC investigation, in accordance with Project Note, and additional delineation soil sampling at J-2 Range.

Collected cued Metalmapper data in Phase II area 1 (10 acres), and continued intrusive investigation of the 16-acre area (phase I blue grids) at the CIA.

Performed EM-61 geophysical survey of Phase II area 2.

Began road repairs at the CIA.

Performed daily inspection of the BEM cover at the CIA to ensure cover is intact/secure.

Staked out additional soil sampling grids at the Training Area.

JBCC IAGWSP Tech Update Meeting Minutes 13 August 2015

Project and Field Work Update

In the CIA, there are three Dawson teams digging. They have completed 6,500 of approximately 8,000 digs. At this time, one metal mapper is working as the other is being repaired. It is anticipated that Phase II Area 1 will completed by mid-to late September. EM-61 survey work is underway in Phase II Area 2. The consolidated shot location has been excavated and samples were collected. USACE noted that their Geophysicist would be coming September 2 to provide a presentation for the two grids that were 100% investigated. Earlier in the week, one of the teams discovered a 105 MM HE that has a mech time fuze and therefore cannot be moved. It was found a few feet off the road. An incident report for the upcoming blow-in-place will be forwarded to the agencies.

USACE explained that the archeological survey report was submitted to them this week and that they were preparing letters to resubmit to the State Historic Preservation Office. They are targeting finalizing the REC by the end of the month. Once the REC is completed, the real estate easement can be completed and the contract can be awarded. IAGWSP reiterated that due to the discovery of long-eared bats on the site, construction cannot begin until after 1 October.

The archeological survey has not found anything significant to date at any of the sites they are working on. Nothing was found on the Demo 1 off-site parcel and two isolated shards were discovered at CIA and Demolition Area 2.

The rig left the site this week after completing the U Range well. The only well remaining is the shallow well at the IBC which requires UXO and road clearance. It is anticipated a rig will come back in early November. The IBC well may be drilled sooner using a different rig.

Action Items

The action items were discussed and updated

Training Areas Presentation

A presentation was provided on the Training Areas operable unit. It provided an overview of the sites under the Training Ranges OU, provided information about how the sites became part of the investigation, reviewed the history of work and provided recommendations for each area. It was noted that field reconnaissance and soil sampling has been conducted at many sites and investigations were ongoing at the KD, IBC and U Ranges.

An investigation report was submitted to the agencies at the end of July. IAGWSP presented a tentative schedule for the finalization of the draft report, Decision Document and Remedy Selection Plan. The agencies are currently reviewing the draft report and the schedule will be revisited once their review is complete

Demolition Area 1 2015 Environmental and System Performance Monitoring Presentation

A presentation was provided on the Demolition Area 1 2015 Environmental and System Performance Monitoring Report. It was noted that during the reporting period (January 2014 to April 2015), two new monitoring wells were added to the network (off-base on Michael Road) and extraction well D1_EW-1 shut down on July 28, 2014. System performance statistics were reviewed. Groundwater monitoring results and trends were reviewed and discussed. In Zone 1 (source area to Frank Perkins Road), the maximum detection was 5.84 ppb for RDX and 1.02 ppb for perchlorate. In Zone 2 (Frank Perkins Road to Pew Road), the maximum detection was 3.49 ppb for RDX and 9.07 ppb for perchlorate. In Zone 3 (Pew Road to base boundary), the maximum detection was 1.29 ppb for RDX and 20.4 ppb for perchlorate. In Zone 4 (off-base), the maximum detection was 0.28 ppb for RDX and 5.33 ppb for perchlorate. An overview of the hydraulic monitoring and capture zone analysis was presented. There were three synoptic water level rounds and levels were consistent with past results.

The capture zones were developed manually and by model and it appears that the existing systems are adequately capturing the plumes. It was noted however, that perchlorate was detected in March at 2.49 ppb in a monitoring well below a clay layer which is likely outside the capture zone of D1-EW-2. A comparison to the Decision Document (DD) criteria was reviewed. The DD predicted that for perchlorate, the cleanup level of 2 ppb would be reached by 2022 for Zones 1 through 3 and at this time there are no changes to that prediction. The cleanup time for Zone 4 (off-base) will be predicted after the treatment system is installed. For RDX, the DD predicted the risk based cleanup level of 0.6 ppb would be reached by 2022. With the current system, the cleanup time is extends beyond 2022 however; once D1-EW-4 is installed, it is anticipated that date will be met.

IAGWSP is recommending reducing the Zone 3 synoptic round to annual, remove gauging at South and West Ponds from the hydraulic program, increase sampling for perchlorate at MW-341M2 and decrease sampling frequency at MW-532M. No changes to the explosives monitoring program were recommended. The draft report would be sent to the agencies this week for their review.

JBCC Cleanup Team Meeting

The JBCC Cleanup Team (JBCCCT), formerly the MMR Cleanup Team (MMRCT) is next scheduled to meet on October 14, 2015. 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 August through 31 August 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, 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. 220 for July 2015 8/11/2015
- Draft Demolition Area 1 Environmental and System Performance Monitoring Report 8/11/2015
- Draft Land Use Controls Monitoring Report 8/27/2015

3. SCHEDULED ACTIONS

The following documents are being prepared or revised during September 2015:

- CIA Groundwater Treatment Design;
- Demolition Area 1 Environmental and System Performance Monitoring Report;
- Demolition Area 1 Startup Plan;
- Demolition Area 2 2015 Environmental Monitoring Report;
- Demolition Area 2 Decision Document Addendum;
- J-2 Range Project Note for Additional Wells to Evaluate Source Response;
- J-3 Range Decision Document;
- Small Arms Ranges Decision Document;
- Training Areas Draft Investigation Report;
- Training Areas Draft Remedy Selection Plan;
- J-1 Range Northern and J-1 Range Southern 2015 Environmental Monitoring Report;
- Corrective Action Memo for BEM; and
- Land Use Controls Annual Report.

TABLE 1

Sampling Progress: 31 July to 31 August 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 Northern	MW-585M3	MW-585M3_F15	N	08/31/2015	Ground Water	198.5	208.5
J2 Range Northern	MW-585M2	MW-585M2_F15	N	08/31/2015	Ground Water	218.5	228.5
J2 Range Northern	MW-585M2	MW-585M2_F15D	FD	08/31/2015	Ground Water	218.5	228.5
J2 Range Northern	MW-585M1	MW-585M1_F15	N	08/31/2015	Ground Water	240	250
J2 Range Northern	MW-585M1	MW-585M1_F15D	FD	08/31/2015	Ground Water	240	250
J2 Range Northern	MW-313M3	MW-313M3_F15	N	08/31/2015	Ground Water	195.1	205.6
J2 Range Northern	MW-313M2	MW-313M2_F15	N	08/31/2015	Ground Water	215.5	225.5
J2 Range Northern	MW-313M1	MW-313M1_F15	N	08/31/2015	Ground Water	255.4	265.4
J2 Range Northern	MW-313M1	MW-313M1_F15D	FD	08/31/2015	Ground Water	255.4	265.4
Demolition Area 1	MW-432	MW-432_T15	N	08/28/2015	Ground Water	88	188
Demolition Area 1	MW-431	MW-431_T15	N	08/28/2015	Ground Water	88	188
Demolition Area 1	MW-258M1	MW-258M1_T15	N	08/28/2015	Ground Water	109	119
Demolition Area 1	MW-258M1	MW-258M1_T15D	FD	08/28/2015	Ground Water	109	119
Demolition Area 1	MW-532M2	MW-532M2_T15	N	08/28/2015	Ground Water	138	148
Demolition Area 1	MW-532M1	MW-532M1_T15	N	08/28/2015	Ground Water	168	178
Demolition Area 1	MW-341M2	MW-341M2_T15	N	08/28/2015	Ground Water	264.5	269.5
J2 Range Northern	J2EW0001	J2EW0001_F15	N	08/27/2015	Ground Water	179	234
J2 Range Northern	J2EW0001	J2EW0001_F15D	FD	08/27/2015	Ground Water	179	234
J2 Range Northern	J2EW0002	J2EW0002_F15	N	08/27/2015	Ground Water	198	233
J2 Range Northern	J2EW0003	J2EW0003_F15	N	08/27/2015	Ground Water	202	232
J2 Range Northern	MW-340M2	MW-340M2_F15	N	08/27/2015	Ground Water	215.8	225.1
J2 Range Northern	MW-340M1	MW-340M1_F15	N	08/27/2015	Ground Water	255.9	265.9
J2 Range Northern	J2EW3-MW-2-B	J2EW3-MW-2-B_F15	N	08/27/2015	Ground Water	216.2	226.2
J2 Range Northern	J2EW3-MW-2-C	J2EW3-MW-2-C_F15	N	08/27/2015	Ground Water	251.1	261.1
J2 Range Northern	MW-634M3	MW-634M3_F15	N	08/26/2015	Ground Water	170.6	180.6
J2 Range Northern	MW-634M2	MW-634M2_F15	N	08/26/2015	Ground Water	200.6	210.6
J2 Range Northern	MW-634M2	MW-634M2_F15D	FD	08/26/2015	Ground Water	200.6	210.6
J2 Range Northern	MW-634M1	MW-634M1_F15	N	08/26/2015	Ground Water	305.6	315.6
J2 Range Northern	MW-63M2	MW-63M2_F15	N	08/26/2015	Ground Water	214	224
J2 Range Northern	MW-63M1	MW-63M1_F15	N	08/26/2015	Ground Water	244	254
J2 Range Northern	J2EW3-MW1-B	J2EW3-MW1-B_F15	N	08/26/2015	Ground Water	210.7	220.7
J2 Range Northern	J2EW3-MW1-C	J2EW3-MW1-C_F15	N	08/26/2015	Ground Water	245.7	255.7
J2 Range Northern	MW-620M1	MW-620M1_F15	N	08/25/2015	Ground Water	268.6	278.6
J2 Range Northern	MW-586M2	MW-586M2_F15	N	08/25/2015	Ground Water	211	221
J2 Range Northern	MW-586M1	MW-586M1_F15	N	08/25/2015	Ground Water	237	247
J2 Range Northern	MW-635M1	MW-635M1_F15	N	08/25/2015	Ground Water	265.4	275.4
J2 Range Northern	MW-348M2	MW-348M2_F15	N	08/25/2015	Ground Water	206.5	216.5
J2 Range Northern	MW-621M2	MW-621M2_F15	N	08/25/2015	Ground Water	219.4	229.4
J2 Range Northern	MW-621M1	MW-621M1_F15	N	08/25/2015	Ground Water	249.4	259.4
J2 Range Northern	MW-293M2	MW-293M2_F15	N	08/24/2015	Ground Water	196.4	206.4
J2 Range Northern	MW-302M2	MW-302M2_F15	N	08/24/2015	Ground Water	194.4	204.4
J2 Range Northern	MW-331M2	MW-331M2_F15	N	08/24/2015	Ground Water	195.3	205.3
J2 Range Northern	MW-331M1	MW-331M1_F15	N	08/24/2015	Ground Water	235.4	245.4
J2 Range Northern	MW-588M2	MW-588M2_F15	N	08/24/2015	Ground Water	198	208
J2 Range Northern	MW-588M2	MW-588M2_F15D	FD	08/24/2015	Ground Water	198	208
J2 Range Northern	MW-588M1	MW-588M1_F15	N	08/24/2015	Ground Water	238	248
J2 Range Northern	MW-631M2	MW-631M2_F15	N	08/24/2015	Ground Water	200.1	210.1
J2 Range Northern	MW-631M1	MW-631M1_F15	N	08/24/2015	Ground Water	233.1	243.1
J2 Range Northern	MW-589M2	MW-589M2_F15	N	08/20/2015	Ground Water	211	221
J2 Range Northern	MW-589M2	MW-589M2_F15D	FD	08/20/2015	Ground Water	211	221
J2 Range Northern	MW-589M1	MW-589M1_F15	N	08/20/2015	Ground Water	240	250
J2 Range Northern	SSJ2L32	J2L32-A	N	08/20/2015	Soil	0	0.25
J2 Range Eastern	SSJ2O22	J2O22-A	N	08/20/2015	Soil	0	0.25
J2 Range Eastern	SSJ2N14	J2N14-A	N	08/20/2015	Soil	0	0.25
J2 Range Eastern	SSJ2O14	J2O14-A_R2	FR	08/19/2015	Soil	0	0.25
J2 Range Eastern	SSJ2O14	J2O14-A_R1	FR	08/19/2015	Soil	0	0.25
J2 Range Eastern	SSJ2O14	J2O14-A	N	08/19/2015	Soil	0	0.25

N = Normal Sample
FD = Field Duplicate

TABLE 1

Sampling Progress: 31 July to 31 August 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	SSJ2K15	J2K15-A	N	08/19/2015	Soil	0	0.25
J2 Range Eastern	SSJ2L14	J2L14-A	N	08/18/2015	Soil	0	0.25
J2 Range Eastern	SSJ2M14	J2M14-A	N	08/18/2015	Soil	0	0.25
J2 Range Eastern	SSJ2P15	J2P15-A	N	08/18/2015	Soil	0	0.25
J2 Range Northern	MW-622M2	MW-622M2_F15	N	08/17/2015	Ground Water	220.4	230.4
J2 Range Northern	MW-622M1	MW-622M1_F15	N	08/17/2015	Ground Water	245.4	255.4
J2 Range Northern	MW-587M2	MW-587M2_F15	N	08/17/2015	Ground Water	220	230
J2 Range Northern	MW-587M2	MW-587M2_F15D	FD	08/17/2015	Ground Water	220	230
J2 Range Northern	MW-587M1	MW-587M1_F15	N	08/17/2015	Ground Water	250	260
J2 Range Northern	J2EW2-MW3-B	J2EW2-MW3-B_F15	N	08/17/2015	Ground Water	212.7	222.7
J2 Range Northern	J2EW2-MW3-C	J2EW2-MW3-C_F15	N	08/17/2015	Ground Water	246	256
J2 Range Northern	MW-345M2	MW-345M2_F15	N	08/13/2015	Ground Water	236.6	246.6
J2 Range Northern	MW-327M3	MW-327M3_F15	N	08/13/2015	Ground Water	220.2	230.2
J2 Range Northern	MW-327M2	MW-327M2_F15	N	08/13/2015	Ground Water	265	275
J2 Range Northern	MW-327M1	MW-327M1_F15	N	08/13/2015	Ground Water	296.1	306
J2 Range Northern	MW-337M1	MW-337M1_F15	N	08/12/2015	Ground Water	243.7	253.7
J2 Range Northern	MW-234M2	MW-234M2_F15	N	08/12/2015	Ground Water	110	120
J2 Range Northern	MW-234M2	MW-234M2_F15D	FD	08/12/2015	Ground Water	110	120
J2 Range Northern	MW-234M1	MW-234M1_F15	N	08/12/2015	Ground Water	130	140
J2 Range Northern	MW-230M1	MW-230M1_F15	N	08/12/2015	Ground Water	130	140
J2 Range Northern	MW-130S	MW-130S_F15	N	08/12/2015	Ground Water	103	113
J2 Range Northern	MW-640M2	MW-640M2_F15	N	08/10/2015	Ground Water	216	226
J2 Range Northern	MW-640M1	MW-640M1_F15	N	08/10/2015	Ground Water	246	256
J2 Range Northern	MW-296M2	MW-296M2_F15	N	08/10/2015	Ground Water	215	225
J2 Range Northern	MW-296M1	MW-296M1_F15	N	08/10/2015	Ground Water	255.1	265.1
J2 Range Northern	J2EW2-MW2-B	J2EW2-MW2-B_F15	N	08/10/2015	Ground Water	209.8	219.8
J2 Range Northern	J2EW2-MW2-C	J2EW2-MW2-C_F15	N	08/10/2015	Ground Water	243.8	253.8
J2 Range Northern	MW-300M2	MW-300M2_F15	N	08/06/2015	Ground Water	197.2	207.2
Demolition Area 1	FPR-2-EFF-A	FPR-2-EFF-A-113A	N	08/06/2015	Process Water	0	0
Demolition Area 1	FPR-2-GAC-MID3A	FPR-2-GAC-MID3A-113A	N	08/06/2015	Process Water	0	0
Demolition Area 1	FPR2-POST-IX-A	FPR2-POST-IX-A-113A	N	08/06/2015	Process Water	0	0
Demolition Area 1	FPR-2-INF	FPR-2-INF-113A	N	08/06/2015	Process Water	0	0
J3 Range	J3-EFF	J3-EFF-107A	N	08/06/2015	Process Water	0	0
J3 Range	J3-MID-2	J3-MID-2-107A	N	08/06/2015	Process Water	0	0
J3 Range	J3-MID-1	J3-MID-1-107A	N	08/06/2015	Process Water	0	0
J2 Range Northern	MW-289M2	MW-289M2_F15	N	08/06/2015	Ground Water	162	172
J2 Range Northern	MW-289M2	MW-289M2_F15D	FD	08/06/2015	Ground Water	162	172
J3 Range	J3-INF	J3-INF-107A	N	08/06/2015	Process Water	0	0
J2 Range Northern	MW-289M1	MW-289M1_F15	N	08/06/2015	Ground Water	305	315
Demolition Area 1	PR-EFF	PR-EFF-113A	N	08/06/2015	Process Water	0	0
Demolition Area 1	PR-MID-2	PR-MID-2-113A	N	08/06/2015	Process Water	0	0
Demolition Area 1	PR-MID-1	PR-MID-1-113A	N	08/06/2015	Process Water	0	0
Demolition Area 1	PR-INF	PR-INF-113A	N	08/06/2015	Process Water	0	0
J2 Range Northern	J2EW1-MW1-B	J2EW1-MW1-B_F15	N	08/06/2015	Ground Water	205.8	215.8
Demolition Area 1	D1-EFF	D1-EFF-61A	N	08/06/2015	Process Water	0	0
Demolition Area 1	D1-MID-2	D1-MID-2-61A	N	08/06/2015	Process Water	0	0
Demolition Area 1	D1-MID-1	D1-MID-1-61A	N	08/06/2015	Process Water	0	0
Demolition Area 1	D1-INF	D1-INF-61A	N	08/06/2015	Process Water	0	0
J2 Range Northern	J2EW1-MW1-C	J2EW1-MW1-C_F15	N	08/06/2015	Ground Water	240.8	250.8
J2 Range Eastern	SSJ2N21BLP001	J2N21-BLP-001_PE	N	08/06/2015	Soil	1.75	2
U Range	BH-649	UP-1_161-166	N	08/05/2015	GW Profile	161	166
U Range	BH-649	UP-1_151-156	N	08/05/2015	GW Profile	151	156
J2 Range Northern	MW-619M2	MW-619M2_F15	N	08/05/2015	Ground Water	234.1	244.1
J1 Range Southern	J1S-EFF	J1S-EFF-93A	N	08/05/2015	Process Water	0	0
J1 Range Southern	J1S-MID-2	J1S-MID-2-93A	N	08/05/2015	Process Water	0	0
U Range	BH-649	UP-1_141-146	N	08/05/2015	GW Profile	141	146
J1 Range Southern	J1S-INF-2	J1S-INF-2-93A	N	08/05/2015	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1

Sampling Progress: 31 July to 31 August 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 Northern	MW-619M1	MW-619M1_F15	N	08/05/2015	Ground Water	255.1	265.1
U Range	BH-649	UP-1_131-136	N	08/05/2015	GW Profile	131	136
J2 Range Northern	MW-330M2	MW-330M2_F15	N	08/05/2015	Ground Water	238	248
U Range	BH-649	UP-1_121-126	N	08/05/2015	GW Profile	121	126
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-83A	N	08/05/2015	Process Water	0	0
J2 Range Northern	MW-613M2	MW-613M2_F15	N	08/05/2015	Ground Water	246.1	256.1
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-83A	N	08/05/2015	Process Water	0	0
U Range	BH-649	UP-1_111-116	N	08/05/2015	GW Profile	111	116
J2 Range Eastern	J2E-INF-I	J2E-INF-I-83A	N	08/05/2015	Process Water	0	0
J2 Range Northern	MW-613M1	MW-613M1_F15	N	08/05/2015	Ground Water	267.1	277.1
J2 Range Eastern	J2E-EFF-K	J2E-EFF-K-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-2K	J2E-MID-2K-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1K	J2E-MID-1K-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-INF-K	J2E-INF-K-83A	N	08/05/2015	Process Water	0	0
J2 Range Northern	MW-612M2	MW-612M2_F15	N	08/05/2015	Ground Water	267	277
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-83A	N	08/05/2015	Process Water	0	0
J2 Range Eastern	J2E-INF-J	J2E-INF-J-83A	N	08/05/2015	Process Water	0	0
J2 Range Northern	MW-612M1	MW-612M1_F15	N	08/05/2015	Ground Water	297	307
Central Impact Area	SSCIACSL02	CIACSL02_090PE	N	08/04/2015	Soil	0	0.25
J3 Range	RS0011OSNK	RS0011OSNK_F15	N	08/04/2015	Ground Water	0	0
Central Impact Area	CIA2-EFF	CIA2-EFF-19A	N	08/04/2015	Process Water	0	0
Central Impact Area	CIA2-MID2	CIA2-MID2-19A	N	08/04/2015	Process Water	0	0
Central Impact Area	CIA2-MID1	CIA2-MID1-19A	N	08/04/2015	Process Water	0	0
J2 Range Northern	MW-305M1	MW-305M1_F15	N	08/04/2015	Ground Water	202.8	212.8
Central Impact Area	CIA2-INF	CIA2-INF-19A	N	08/04/2015	Process Water	0	0
Central Impact Area	CIA1-EFF	CIA1-EFF-19A	N	08/04/2015	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-19A	N	08/04/2015	Process Water	0	0
Central Impact Area	CIA1-MID1	CIA1-MID1-19A	N	08/04/2015	Process Water	0	0
Central Impact Area	CIA1-INF	CIA1-INF-19A	N	08/04/2015	Process Water	0	0
J2 Range Northern	MW-322M1	MW-322M1_F15	N	08/04/2015	Ground Water	245.8	255.8
J3 Range	MW-637M3	MW-637M3_F15	N	08/04/2015	Ground Water	174.1	184.1
J3 Range	MW-637M2	MW-637M2_F15	N	08/04/2015	Ground Water	214.1	224.1
J3 Range	MW-637M2	MW-637M2_F15D	FD	08/04/2015	Ground Water	214.1	224.1
J3 Range	MW-637M1	MW-637M1_F15	N	08/04/2015	Ground Water	236.1	246.1
Demolition Area 1	BH-648	D1EW4pilot_171-176	N	08/03/2015	GW Profile	171	176
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-107A	N	08/03/2015	Process Water	0	0
J2 Range Northern	J2N-MID-2G	J2N-MID-2G-107A	N	08/03/2015	Process Water	0	0
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-107A	N	08/03/2015	Process Water	0	0
J2 Range Northern	J2N-INF-G	J2N-INF-G-107A	N	08/03/2015	Process Water	0	0
Demolition Area 1	BH-648	D1EW4pilot_161-166	N	08/03/2015	GW Profile	161	166
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-107A	N	08/03/2015	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-107A	N	08/03/2015	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-107A	N	08/03/2015	Process Water	0	0
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-107A	N	08/03/2015	Process Water	0	0
Demolition Area 1	BH-648	D1EW4pilot_151-156	N	08/03/2015	GW Profile	151	156
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-107A	N	08/03/2015	Process Water	0	0
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-107A	N	08/03/2015	Process Water	0	0
J1 Range Northern	J1N-EFF	J1N-EFF-22A	N	08/03/2015	Process Water	0	0
Demolition Area 1	BH-648	SSD1EW4pilot_146-156	N	08/03/2015	Soil Profile	146	156
J1 Range Northern	J1N-MID2	J1N-MID2-22A	N	08/03/2015	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-22A	N	08/03/2015	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-22A	N	08/03/2015	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1

Sampling Progress: 31 July to 31 August 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 1	BH-648	D1EW4pilot_141-146	N	08/03/2015	GW Profile	141	146
Demolition Area 1	BH-648	SSD1EW4pilot_136-146	N	08/03/2015	Soil Profile	136	146
Demolition Area 1	BH-648	D1EW4pilot_131-136	N	08/03/2015	GW Profile	131	136
Demolition Area 1	BH-648	SSD1EW4pilot_126-136	N	08/03/2015	Soil Profile	126	136
Demolition Area 1	BH-648	D1EW4pilot_121-126	N	07/31/2015	GW Profile	121	126
Demolition Area 1	BH-648	SSD1EW4pilot_116-126	N	07/31/2015	Soil Profile	116	126
Demolition Area 1	BH-648	D1EW4pilot_111-116	N	07/31/2015	GW Profile	111	116
Demolition Area 1	BH-648	SSD1EW4pilot_106-116	N	07/31/2015	Soil Profile	106	116
Demolition Area 1	BH-648	D1EW4pilot_101-106	N	07/31/2015	GW Profile	101	106
Demolition Area 1	BH-648	D1EW4pilot_101-106D	FD	07/31/2015	GW Profile	101	106
Demolition Area 1	BH-648	SSD1EW4pilot_96-106	N	07/31/2015	Soil Profile	96	106
Demolition Area 1	BH-648	D1EW4pilot_91-96	N	07/31/2015	GW Profile	91	96

N = Normal Sample
FD = Field Duplicate

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received August 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
J3 Range	LKSNK0006	LKSNK0006_F15	0	1	07/28/2015	SW6850	Perchlorate	0.085	J	UG/L	2.0		0.015	0.20
J3 Range	LKSNK0007	LKSNK0007_F15	0	4	07/28/2015	SW6850	Perchlorate	0.092	J	UG/L	2.0		0.015	0.20
J3 Range	MW-232M2	MW-232M2_F15	61	66	07/27/2015	SW6850	Perchlorate	0.54		UG/L	2.0		0.015	0.20
J3 Range	MW-232M1	MW-232M1_F15	77.5	82.5	07/27/2015	SW6850	Perchlorate	0.12	J	UG/L	2.0		0.015	0.20
L Range	MW-242M1	MW-242M1_F15	235	245	07/27/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.3		UG/L	0.60	X	0.025	0.20
L Range	MW-595M1	MW-595M1_F15	255.3	265.3	07/27/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.9		UG/L	0.60	X	0.025	0.20
J3 Range	MW-636M2	MW-636M2_F15	110.5	120.5	07/22/2015	SW6850	Perchlorate	1.8		UG/L	2.0		0.015	0.20
J3 Range	MW-171M2	MW-171M2_F15	81	86	07/22/2015	SW6850	Perchlorate	0.087	J	UG/L	2.0		0.015	0.20
J3 Range	MW-217M2	MW-217M2_F15	138	143	07/21/2015	SW6850	Perchlorate	0.21		UG/L	2.0		0.015	0.20
J3 Range	90PZ0204	90PZ0204_F15	80	85	07/21/2015	SW6850	Perchlorate	0.065	J	UG/L	2.0		0.015	0.20
J3 Range	MW-329M2	MW-329M2_F15	150.1	160.1	07/20/2015	SW6850	Perchlorate	0.36		UG/L	2.0		0.015	0.20
J3 Range	MW-329M1	MW-329M1_F15	180	190	07/20/2015	SW6850	Perchlorate	0.18	J	UG/L	2.0		0.015	0.20
J3 Range	MW-343M3	MW-343M3_F15	110.1	120.1	07/20/2015	SW8260C	Chloroform	1.8		UG/L		X	0.20	1.0
J3 Range	MW-343M2	MW-343M2_F15	166.8	171.8	07/20/2015	SW6850	Perchlorate	0.18	J	UG/L	2.0		0.015	0.20
J3 Range	MW-343M2	MW-343M2_F15	166.8	171.8	07/20/2015	SW8260C	Chloroform	2.1		UG/L		X	0.20	1.0
J3 Range	MW-343M1	MW-343M1_F15	214.8	224.8	07/20/2015	SW8260C	Chloroform	0.21	J	UG/L		X	0.20	1.0
J3 Range	MW-343M1	MW-343M1_F15	214.8	224.8	07/20/2015	SW6850	Perchlorate	0.57		UG/L	2.0		0.015	0.20
J3 Range	90MP0059B	90MP0059B_F15	116.4	118.9	07/16/2015	SW6850	Perchlorate	0.48		UG/L	2.0		0.015	0.20
J3 Range	MW-143M3	MW-143M3_F15	107	112	07/16/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.25		UG/L	400		0.019	0.20
J3 Range	MW-143M3	MW-143M3_F15	107	112	07/16/2015	SW6850	Perchlorate	0.30		UG/L	2.0		0.015	0.20
J3 Range	MW-143M2	MW-143M2_F15	117	122	07/16/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.61		UG/L	400		0.019	0.20
J3 Range	MW-143M2	MW-143M2_F15	117	122	07/16/2015	SW6850	Perchlorate	0.88		UG/L	2.0		0.015	0.20
J3 Range	MW-143M1	MW-143M1_F15	144	154	07/16/2015	SW6850	Perchlorate	1.4		UG/L	2.0		0.015	0.20
J3 Range	MW-227M2	MW-227M2_F15	110	120	07/15/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.25		UG/L	400		0.019	0.20
J3 Range	MW-227M2	MW-227M2_F15	110	120	07/15/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.36		UG/L	0.60		0.025	0.20
J3 Range	MW-227M2	MW-227M2_F15	110	120	07/15/2015	SW6850	Perchlorate	5.6		UG/L	2.0	X	0.015	0.20
J3 Range	MW-163S	MW-163S_F15	38	48	07/15/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.27		UG/L	400		0.019	0.20
J3 Range	MW-163S	MW-163S_F15	38	48	07/15/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.6		UG/L	0.60	X	0.025	0.20
J3 Range	MW-163S	MW-163S_F15	38	48	07/15/2015	SW6850	Perchlorate	2.2		UG/L	2.0	X	0.015	0.20
J3 Range	MW-163S	MW-163S_F15D	38	48	07/15/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.26		UG/L	400		0.019	0.20
J3 Range	MW-163S	MW-163S_F15D	38	48	07/15/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.5		UG/L	0.60	X	0.025	0.20
J3 Range	MW-163S	MW-163S_F15D	38	48	07/15/2015	SW6850	Perchlorate	2.3		UG/L	2.0	X	0.015	0.20
J3 Range	MW-197M3	MW-197M3_F15	60.2	65.2	07/15/2015	SW6850	Perchlorate	0.27		UG/L	2.0		0.015	0.20
J3 Range	MW-197M3	MW-197M3_F15	60.2	65.2	07/15/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2.1		UG/L	400		0.019	0.20
J3 Range	MW-197M2	MW-197M2_F15	80.2	85.2	07/15/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.27		UG/L	400		0.019	0.20
J3 Range	MW-197M2	MW-197M2_F15	80.2	85.2	07/15/2015	SW6850	Perchlorate	0.47		UG/L	2.0		0.015	0.20
J3 Range	MW-243M2	MW-243M2_F15	84.5	94.5	07/14/2015	SW6850	Perchlorate	0.31		UG/L	2.0		0.015	0.20
J3 Range	MW-243M1	MW-243M1_F15	114.5	124.5	07/14/2015	SW6850	Perchlorate	0.58		UG/L	2.0		0.015	0.20
J3 Range	MW-295M2	MW-295M2_F15	117	127	07/14/2015	SW6850	Perchlorate	0.050	J	UG/L	2.0		0.015	0.20
J3 Range	MW-295M1	MW-295M1_F15	145	155	07/14/2015	SW6850	Perchlorate	1.7		UG/L	2.0		0.015	0.20
J3 Range	MW-359M2	MW-359M2_F15	148.6	158.6	07/14/2015	SW6850	Perchlorate	0.081	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

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received August 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
J3 Range	MW-250M3	MW-250M3_F15	95	105	07/13/2015	SW6850	Perchlorate	0.64		UG/L	2.0		0.015	0.20
J3 Range	MW-250M3	MW-250M3_F15	95	105	07/13/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2.2		UG/L	400		0.019	0.20
J3 Range	MW-250M2	MW-250M2_F15	145	155	07/13/2015	SW6850	Perchlorate	0.65		UG/L	2.0		0.015	0.20
J3 Range	MW-250M2	MW-250M2_F15	145	155	07/13/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.75		UG/L	0.60	X	0.025	0.20
J3 Range	MW-250M2	MW-250M2_F15D	145	155	07/13/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.69		UG/L	0.60	X	0.025	0.20
J3 Range	MW-193S	MW-193S_F15	32.5	37.5	07/09/2015	SW6850	Perchlorate	0.063	J	UG/L	2.0		0.015	0.20
J3 Range	MW-193S	MW-193S_F15	32.5	37.5	07/09/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	3.4		UG/L	0.60	X	0.025	0.20
J3 Range	MW-198M4	MW-198M4_F15	70	75	07/09/2015	SW6850	Perchlorate	0.49		UG/L	2.0		0.015	0.20
J3 Range	MW-198M4	MW-198M4_F15	70	75	07/09/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.5		UG/L	0.60	X	0.025	0.20
J3 Range	MW-198M4	MW-198M4_F15	70	75	07/09/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	7.0		UG/L	400		0.019	0.20
J3 Range	MW-198M4	MW-198M4_F15D	70	75	07/09/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.8		UG/L	0.60	X	0.025	0.20
J3 Range	MW-198M4	MW-198M4_F15D	70	75	07/09/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	7.3		UG/L	400		0.019	0.20
J3 Range	MW-198M3	MW-198M3_F15	100	105	07/09/2015	SW6850	Perchlorate	2.4		UG/L	2.0	X	0.015	0.20
J3 Range	MW-198M3	MW-198M3_F15D	100	105	07/09/2015	SW6850	Perchlorate	2.7		UG/L	2.0	X	0.015	0.20
J3 Range	MW-198M2	MW-198M2_F15	120	125	07/09/2015	SW6850	Perchlorate	1.1		UG/L	2.0		0.015	0.20
J3 Range	MW-193M1	MW-193M1_F15	57.5	62.5	07/08/2015	SW6850	Perchlorate	0.10	J	UG/L	2.0		0.015	0.20
J3 Range	MW-193M1	MW-193M1_F15	57.5	62.5	07/08/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	3.6		UG/L	400		0.019	0.20
J3 Range	MW-193M1	MW-193M1_F15D	57.5	62.5	07/08/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	3.6		UG/L	400		0.019	0.20
J3 Range	MW-157M2	MW-157M2_F15	110	120	07/08/2015	SW6850	Perchlorate	0.15	J	UG/L	2.0		0.015	0.20
J3 Range	MW-157M1	MW-157M1_F15	154	164	07/08/2015	SW6850	Perchlorate	0.14	J	UG/L	2.0		0.015	0.20
J3 Range	MW-142M2	MW-142M2_F15	140	150	07/08/2015	SW6850	Perchlorate	0.15	J	UG/L	2.0		0.015	0.20
J3 Range	MW-142M2	MW-142M2_F15	140	150	07/08/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.36		UG/L	400		0.019	0.20
J3 Range	MW-155M1	MW-155M1_F15	124	134	07/08/2015	SW6850	Perchlorate	0.12	J	UG/L	2.0		0.015	0.20
J3 Range	90MW0054	90MW0054_F15	107	112	07/07/2015	SW6850	Perchlorate	4.0		UG/L	2.0	X	0.015	0.20
J3 Range	90MW0054	90MW0054_F15D	107	112	07/07/2015	SW6850	Perchlorate	3.8		UG/L	2.0	X	0.015	0.20
J3 Range	J3EW0032	J3EW0032_F15	102	152	07/07/2015	SW6850	Perchlorate	0.56		UG/L	2.0		0.015	0.20
J3 Range	J3EW0032	J3EW0032_F15	102	152	07/07/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.4		UG/L	0.60	X	0.025	0.20
J3 Range	J3EW0032	J3EW0032_F15D	102	152	07/07/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.4		UG/L	0.60	X	0.025	0.20
J3 Range	90EW0001	90EW0001_F15	83.1	143.8	07/07/2015	SW6850	Perchlorate	0.43		UG/L	2.0		0.015	0.20
J3 Range	90EW0001	90EW0001_F15	83.1	143.8	07/07/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.61		UG/L	400		0.019	0.20
J3 Range	J3EWIP1	J3EWIP1_F15	153	193	07/07/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.20		UG/L	400		0.019	0.20
J3 Range	J3EWIP1	J3EWIP1_F15	153	193	07/07/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.23		UG/L	0.60		0.025	0.20
J3 Range	J3EWIP1	J3EWIP1_F15	153	193	07/07/2015	SW6850	Perchlorate	7.2		UG/L	2.0	X	0.015	0.20
J3 Range	J3EWIP1	J3EWIP1_F15D	153	193	07/07/2015	SW6850	Perchlorate	7.7		UG/L	2.0	X	0.015	0.20
J3 Range	J3-MW-1-B	J3-MW-1-B_F15	175.6	185.6	07/07/2015	SW6850	Perchlorate	0.96		UG/L	2.0		0.015	0.20
Northwest Corner	MW-441M2	MW-441M2_S15	109.5	119.5	06/29/2015	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.58		UG/L	400		0.019	0.20
Northwest Corner	MW-441M2	MW-441M2_S15	109.5	119.5	06/29/2015	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	8.4		UG/L	0.60	X	0.025	0.20
Northwest Corner	MW-344M2	MW-344M2_S15	145	155	06/29/2015	SW6850	Perchlorate	1.9		UG/L	2.0		0.015	0.20
Northwest Corner	MW-344M2	MW-344M2_S15D	145	155	06/29/2015	SW6850	Perchlorate	1.9		UG/L	2.0		0.015	0.20
Northwest Corner	MW-344S	MW-344S_S15	115.5	125.5	06/29/2015	SW6850	Perchlorate	0.24		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