MONTHLY PROGRESS REPORT #207
FOR JUNE 2014

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

JOINT BASE CAPE COD (JBCC)
(FORMERLY THE MASSACHUSETTS MILITARY RESERVATION (MMR))
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from 1 June to 30 June 2014.

1. SUMMARY OF REMEDIATION ACTIONS

The following is a description of Remediation Actions (RA) underway at Camp Edwards as of June 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 operates at a flow rate of 400 gpm with over 2.09 billion gallons of water treated and re-injected as of 27 June 2014. No Frank Perkins Road facility shut downs occurred in June.

The Pew Road Mobile Treatment Unit (MTU) continues to operate at a flow rate of 105 gpm with over 367 million gallons of water treated and re-injected as of 27 June 2014. The following Pew Road MTU shut downs occurred in June:

- Shut down on 30 May 2014 at 2347 due to a power interruption and was restarted on 2 June 2014 at 1101;
- Shut down on 7 June 2014 at 0923 due to a power interruption and was restarted on 9 June 2014 at 0940;
- Shut down on 9 June 2014 at 2139 due to a power interruption and was restarted on 10 June 2014 at 0931;
- Shut down on 10 June 2014 at 1730 due to a power interruption and was restarted on 11 June 2014 at 0947;
- Shut down on 13 June 2014 at 0958 due to a power interruption and was restarted on 13 June 2014 at 1056;
- Shut down on 13 June 2014 at 1345 due to a power interruption and was restarted on 16 June 2014 at 1447; and
- Shut down on 17 June 2014 at 0029 due to a power interruption and was restarted on 17 June 2014 at 0820.

The Base Boundary RA continues to operate at a flow rate of 65 gpm with over 81.2 million gallons of water treated and re-injected as of 27 June 2014. No Base Boundary MTU shut downs occurred in June.

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 27 June 2014, over 217 million gallons of water have been treated and re-injected. The following Southern MTU shut downs occurred in June:

- Shut down on 5 June 2014 at 0942 for system maintenance and was restarted on 5 June 2014 at 1006.

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 27 June 2014, over 69 million gallons of water have been treated and re-injected. The following Northern MTU shut downs occurred in June:

- Shut down on 16 June 2014 at 1020 for infiltration gallery repairs and was restarted on 16 June 2014 at 1020; and
- Shut down on 19 June 2014 at 0755 for infiltration gallery repairs and was restarted on 23 June 2014 at 1453.

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 27 June 2014, over 729 million gallons of water have been treated and re-injected. No J-3 system shut downs and re-starts occurred in June.

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 27 June 2014, over 510 million gallons of water have been treated and re-injected. No Northern Treatment Building shut downs occurred in June.

The Northern MTU F continues to operate at a flow rate of 100 gpm; MTU E was off-line for the entirety of the month of June (see below). As of 27 June 2014, over 902 million gallons of water have been treated and re-injected. The following Northern MTU shut downs and system re-starts occurred in June:

- MTU E shut down on 27 May 2014 at 2344 due to pump failure, and was restarted on 1 July 2014 at 1134 following the pump and motor replacement (EW-001);
- MTU F shut down on 30 May 2014 at 1917 due to a power interruption and was restarted on 2 June 2014 at 1424; and
- MTU F was shut down on 13 June 2014 at 1046 due to a power interruption and was restarted on 13 June 2014 at 1111.

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 27 June 2014, over 592 million gallons of water have been treated and re-injected. No shut downs of MTUs H and I occurred in June.

MTU J continues to operate at a flow rate of 120 gpm. As of 27 June 2014, over 277 million gallons of water have been treated and re-injected. The following shut downs and system re-starts of MTU J occurred in June:

- MTU J was shut down on 5 June 2014 at 1214 for system maintenance and was restarted on 5 June 2014 at 1314.

MTU K continues to operate at a flow rate of 125 gpm. As of 27 June 2014, over 340 million gallons of water have been treated and re-injected. No shut downs of MTU K occurred in June.

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 27 June 2014, over 112 million gallons of water have been treated and re-injected. No CIA treatment facility shutdowns occurred in June.

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 Demolition Area 2, CIA, J-1 Range Southern, J-2 Range Northern, Northwest Corner, and Western Boundary.

Soil samples were collected from CIA.

Profile samples were collected from CIA (BH-626 [CIA-14]).

Commenced drilling at CIA (BH-626), I Range (BH-629), and J-2 Range Northern (BH-640).

Continued well development at J-2 Range Northern (MW-634) and J-2 Range Eastern (MW-627).

Completed collection of cued Metal Mapper data, and continued reacquiring and investigating of anomalies in the 8-Acre and 16-Acre areas at the CIA.

Continued watering operations/site restoration at Former A Range.

Completed Wood Road improvements and infiltration gallery repairs at J-1 Range Northern.

JBCC IAGWSP Tech Update Meeting Minutes

No tech update meetings occurred in June 2014.

JBCC Cleanup Team Meeting

The JBCC Cleanup Team (JBCCCT), formerly the MMR Cleanup Team (MMRCT) is scheduled to meet on August 13, 2014. 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 June through 30 June 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. 206 for May 2014 6/10/2014
- Changes to the L Range Chemical Monitoring Network Project Note 5/27/2014
- J-2 Range Northern Extraction Rate Optimizations Post Evaluation and Evaluation of Data Gap Drilling Results Project Note 5/29/2014
- CIA Phase II Source Removal Vegetation Clearance and Geophysical Investigation Project Note 6/04/2014
- Demo 1 Groundwater Plume – Michael Road Borings & Monitoring Well Project Note 6/17/2014
- Sampling to be Conducted in Support of Training Areas Investigations Project Note 6/25/2014
- Draft Land Use Controls Monitoring Report 6/30/2014

3. SCHEDULED ACTIONS

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

- CIA Project Note for ESTCP Metal Mapper Results;
- CIA 2013 Source Report;
- CIA System Start-up Report;
- Demolition Area 1 EW-1 Shutdown Recommendation Project Note;
- J-2 Range Project Note for Additional Wells to evaluate source response;
- J-3 Range Draft RI/FS;
- Small Arms Ranges Decision Document;
- Small Arms Ranges GA/GB Range Reconnaissance Report;
- J-1 Range Southern 6 Month System Start-up Report;
- J-1 Range Northern System Start-up Report;
- L Range 2014 Environmental Monitoring Report;

- Demolition Area 1 2014 Environmental and System Performance Monitoring Report Response Action Groundwater Treatment Systems;
- Small Arms Range 2014 Annual Interim Environmental Monitoring Report;
- J-1 Range Northern and J-1 Range Southern 2014 Annual Interim Environmental Monitoring Report; and
- Land Use Controls Monitoring Report.

TABLE 1
Sampling Progress: 1 June - 30 June 2014

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	SSCIACSL02	CIACSL02_090PESC2	FR	06/26/2014	SOIL	0	0.25
Central Impact Area	SSCIACSL02	CIACSL02_090PESB2	FR	06/26/2014	SOIL	0	0.25
Central Impact Area	SSCIACSL02	CIACSL02_090PESA2	N	06/26/2014	SOIL	0	0.25
Central Impact Area	SSCIACSL02	CIACSL02_090PENC2	FR	06/26/2014	SOIL	0	0.25
Central Impact Area	SSCIACSL02	CIACSL02_090PENB2	FR	06/26/2014	SOIL	0	0.25
Central Impact Area	SSCIACSL02	CIACSL02_090PENA2	N	06/26/2014	SOIL	0	0.25
J3 Range	90PLT01006	90PLT01006_S14	N	06/25/2014	Process Water	0	0
Northwest Corner	RSNW01	RSNW01_S14	N	06/25/2014	Ground Water	0	0
Northwest Corner	RSNW06	RSNW06_S14	N	06/25/2014	Ground Water	0	0
Western Boundary	4036000-04G	4036000-04G_14Q2	N	06/25/2014	Ground Water	55	65
Western Boundary	4036000-03G	4036000-03G_14Q2	N	06/25/2014	Ground Water	50	60
Western Boundary	4036000-06G	4036000-06G_14Q2	N	06/25/2014	Ground Water	108	128
Western Boundary	4036000-01G	4036000-01G_14Q2	N	06/25/2014	Ground Water	38	70
Northwest Corner	MW-314S	MW-314S_S14	N	06/24/2014	Ground Water	24	34
J2 Range Northern	MW-612M2	MW-612M2_R2	N	06/24/2014	Ground Water	267	277
J2 Range Northern	MW-612M1	MW-612M1_R2	N	06/24/2014	Ground Water	297	307
J2 Range Northern	MW-613M2	MW-613M2_R2	N	06/24/2014	Ground Water	246.1	256.1
J2 Range Northern	MW-613M1	MW-613M1_R2	N	06/24/2014	Ground Water	267.1	277.1
J2 Range Northern	MW-619M2	MW-619M2_R2	N	06/24/2014	Ground Water	234.1	244.1
J2 Range Northern	MW-619M1	MW-619M1_R2	N	06/24/2014	Ground Water	255.1	265.1
Northwest Corner	MW-309S	MW-309S_S14	N	06/23/2014	Ground Water	32	42
Northwest Corner	MW-309M1	MW-309M1_S14	N	06/23/2014	Ground Water	65	75
Northwest Corner	MW-297M1	MW-297M1_S14	N	06/23/2014	Ground Water	92	102
Northwest Corner	MW-298S	MW-298S_S14	N	06/23/2014	Ground Water	83	93
Northwest Corner	95-16	95-16_S14	N	06/23/2014	Ground Water	84	90
Central Impact Area	BH-626	CIA14_296-301	N	06/19/2014	GW Profile	296	301
Central Impact Area	BH-626	CIA14_286-291	N	06/19/2014	GW Profile	286	291
Central Impact Area	BH-626	CIA14_276-281	N	06/19/2014	GW Profile	276	281
Central Impact Area	BH-626	CIA14_266-271	N	06/19/2014	GW Profile	266	271
Central Impact Area	BH-626	CIA14_266-271D	FD	06/19/2014	GW Profile	266	271
Central Impact Area	BH-626	CIA14_256-261	N	06/18/2014	GW Profile	256	261
Central Impact Area	BH-626	CIA14_246-251	N	06/18/2014	GW Profile	246	251
Northwest Corner	MW-278S	MW-278S_S14	N	06/18/2014	Ground Water	80	90
Central Impact Area	BH-626	CIA14_236-241	N	06/18/2014	GW Profile	236	241
Central Impact Area	BH-626	CIA14_236-241D	FD	06/18/2014	GW Profile	236	241
Northwest Corner	MW-278M2	MW-278M2_S14	N	06/18/2014	Ground Water	97	102
Central Impact Area	BH-626	CIA14_226-231	N	06/18/2014	GW Profile	226	231
Northwest Corner	MW-278M1	MW-278M1_S14	N	06/18/2014	Ground Water	113	123
Central Impact Area	BH-626	CIA14_216-221	N	06/18/2014	GW Profile	216	221
Central Impact Area	BH-626	CIA14_206-211	N	06/18/2014	GW Profile	206	211
Northwest Corner	MW-279S	MW-279S_S14	N	06/18/2014	Ground Water	66	76
Central Impact Area	BH-626	CIA14_196-201	N	06/18/2014	GW Profile	196	201
Northwest Corner	MW-279M2	MW-279M2_S14	N	06/18/2014	Ground Water	83	88
Northwest Corner	MW-279M2	MW-279M2_S14D	FD	06/18/2014	Ground Water	83	88
Central Impact Area	BH-626	CIA14_186-191	N	06/18/2014	GW Profile	186	191
Northwest Corner	MW-279M1	MW-279M1_S14	N	06/18/2014	Ground Water	96	106
Central Impact Area	BH-626	CIA14_176-181	N	06/18/2014	GW Profile	176	181
Central Impact Area	BH-626	CIA14_166-171	N	06/18/2014	GW Profile	166	171
Central Impact Area	BH-626	CIA14_156-161	N	06/17/2014	GW Profile	156	161
Central Impact Area	BH-626	CIA14_146-151	N	06/17/2014	GW Profile	146	151
Northwest Corner	MW-270S	MW-270S_S14	N	06/17/2014	Ground Water	22	32
Central Impact Area	BH-626	CIA14_136-141	N	06/17/2014	GW Profile	136	141
Central Impact Area	BH-626	CIA14_126-131	N	06/17/2014	GW Profile	126	131
Northwest Corner	MW-270M1	MW-270M1_S14	N	06/17/2014	Ground Water	74	79
Central Impact Area	BH-626	CIA14_116-121	N	06/17/2014	GW Profile	116	121
Northwest Corner	MW-270D	MW-270D_S14	N	06/17/2014	Ground Water	132	137
Northwest Corner	MW-283M1	MW-283M1_S14	N	06/17/2014	Ground Water	38	48
Central Impact Area	MW-624M2	MW-624M2_JUN14	N	06/17/2014	Ground Water	254	264
Northwest Corner	MW-284M2	MW-284M2_S14	N	06/17/2014	Ground Water	45	55
Northwest Corner	MW-284M2	MW-284M2_S14D	FD	06/17/2014	Ground Water	45	55
Central Impact Area	MW-624M1	MW-624M1_JUN14	N	06/17/2014	Ground Water	284	294
Northwest Corner	MW-284M1	MW-284M1_S14	N	06/17/2014	Ground Water	115	125
Northwest Corner	MW-344S	MW-344S_S14	N	06/16/2014	Ground Water	115.5	125.5
Central Impact Area	MW-623M1	MW-623M1_JUN14	N	06/16/2014	Ground Water	340	350

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 1 June - 30 June 2014

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	MW-623M3	MW-623M3_JUN14	N	06/16/2014	Ground Water	275	285
Northwest Corner	MW-344M2	MW-344M2_S14	N	06/16/2014	Ground Water	145	155
Northwest Corner	MW-350M2	MW-350M2_S14	N	06/16/2014	Ground Water	126	136
Central Impact Area	MW-614M2	MW-614M2_JUN14	N	06/16/2014	Ground Water	215	225
Central Impact Area	MW-614M2	MW-614M2_JUN14D	FD	06/16/2014	Ground Water	215	225
Central Impact Area	MW-614M1	MW-614M1_JUN14	N	06/16/2014	Ground Water	275	285
Northwest Corner	MW-441M2	MW-441M2_S14	N	06/16/2014	Ground Water	109.5	119.5
Northwest Corner	MW-441M2	MW-441M2_S14D	FD	06/16/2014	Ground Water	109.5	119.5
Northwest Corner	MW-441M1	MW-441M1_S14	N	06/16/2014	Ground Water	204.6	214.6
Central Impact Area	MW-615M1	MW-615M1_JUN14	N	06/16/2014	Ground Water	260	270
Central Impact Area	MW-615M2	MW-615M2_JUN14	N	06/16/2014	Ground Water	200	210
Central Impact Area	MW-615M2	MW-615M2_JUN14D	MS	06/16/2014	Ground Water	200	210
Central Impact Area	MW-615M2	MW-615M2_JUN14D	SD	06/16/2014	Ground Water	200	210
Demolition Area 2	MW-16S	MW-16S_S14	N	06/16/2014	Ground Water	125	135
Northwest Corner	MW-338S	MW-338S_S14	N	06/12/2014	Ground Water	72	82
Northwest Corner	MW-323M2	MW-323M2_S14	N	06/12/2014	Ground Water	120	130
Northwest Corner	MW-323M1	MW-323M1_S14	N	06/12/2014	Ground Water	195	205
Northwest Corner	MW-277S	MW-277S_S14	N	06/12/2014	Ground Water	102	112
Northwest Corner	MW-277M1	MW-277M1_S14	N	06/12/2014	Ground Water	130	140
Western Boundary	MW-213M3	MW-213M3_S14	N	06/12/2014	Ground Water	77	82
Western Boundary	MW-213M2	MW-213M2_S14	N	06/12/2014	Ground Water	89	99
Western Boundary	MW-213M2	MW-213M2_S14D	FD	06/12/2014	Ground Water	89	99
Western Boundary	MW-02-09M2	MW-02-09M2_S14	N	06/11/2014	Ground Water	59	69
Western Boundary	MW-02-09M1	MW-02-09M1_S14	N	06/11/2014	Ground Water	74	84
Western Boundary	MW-02-09M1	MW-02-09M1_S14D	FD	06/11/2014	Ground Water	74	84
Western Boundary	MW-02-08M3	MW-02-08M3_S14	N	06/11/2014	Ground Water	62	67
Western Boundary	MW-02-08M2	MW-02-08M2_S14	N	06/11/2014	Ground Water	82	87
Western Boundary	MW-02-07M3	MW-02-07M3_S14	N	06/11/2014	Ground Water	47	57
Western Boundary	MW-80M2	MW-80M2_S14	N	06/10/2014	Ground Water	99	109
Western Boundary	MW-80M1	MW-80M1_S14	N	06/10/2014	Ground Water	130	140
Western Boundary	MW-233M3	MW-233M3_S14	N	06/10/2014	Ground Water	231	241
Western Boundary	MW-280M3	MW-280M3_S14	N	06/10/2014	Ground Water	185	195
Western Boundary	MW-280M2	MW-280M2_S14	N	06/10/2014	Ground Water	202	212
Western Boundary	MW-280M1	MW-280M1_S14	N	06/10/2014	Ground Water	255	265
Western Boundary	MW-268M1	MW-268M1_S14	N	06/09/2014	Ground Water	97	107
Demolition Area 2	MW-160S	MW-160S_S14	N	06/09/2014	Ground Water	137.5	147.5
Demolition Area 2	MW-380M2	MW-380M2_S14	N	06/09/2014	Ground Water	205.7	215.7
Demolition Area 2	MW-380M1	MW-380M1_S14	N	06/09/2014	Ground Water	226.6	236.6
Demolition Area 2	MW-311M2	MW-311M2_S14	N	06/09/2014	Ground Water	200	210
Demolition Area 2	MW-311M1	MW-311M1_S14	N	06/09/2014	Ground Water	222	232
Demolition Area 2	MW-161S	MW-161S_S14	N	06/04/2014	Ground Water	145.5	155.5
Demolition Area 2	MW-161S	MW-161S_S14D	FD	06/04/2014	Ground Water	145.5	155.5
Demolition Area 2	MW-404M2	MW-404M2_S14	N	06/04/2014	Ground Water	200	210
Demolition Area 2	MW-404M1	MW-404M1_S14	N	06/04/2014	Ground Water	219.5	229.5
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-93A	N	06/04/2014	Process Water	0	0
J2 Range Northern	J2N-MID-2G	J2N-MID-2G-93A	N	06/04/2014	Process Water	0	0
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-93A	N	06/04/2014	Process Water	0	0
Demolition Area 2	MW-406M2	MW-406M2_S14	N	06/04/2014	Ground Water	202.5	212.5
J2 Range Northern	J2N-INF-G	J2N-INF-G-93A	N	06/04/2014	Process Water	0	0
J2 Range Northern	J2N-EFF-F	J2N-EFF-F-93A	N	06/04/2014	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-93A	N	06/04/2014	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-93A	N	06/04/2014	Process Water	0	0
J2 Range Northern	J2N-INF-F	J2N-INF-F-93A	N	06/04/2014	Process Water	0	0
Demolition Area 2	MW-406M1	MW-406M1_S14	N	06/04/2014	Ground Water	224.7	229.7
J1 Range Northern	J1N-EFF	J1N-EFF-08A	N	06/04/2014	Process Water	0	0
J1 Range Northern	J1N-MID2	J1N-MID2-08A	N	06/04/2014	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-08A	N	06/04/2014	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-08A	N	06/04/2014	Process Water	0	0
Demolition Area 2	MW-259M1	MW-259M1_S14	N	06/03/2014	Ground Water	189	199
Demolition Area 2	MW-262M1	MW-262M1_S14	N	06/03/2014	Ground Water	226	236
Demolition Area 1	FPR-2-EFF	FPR-2-EFF-99A	N	06/03/2014	Process Water	0	0
Demolition Area 1	FPR-2-GAC-MID3B	FPR-2-GAC-MID3B-99A	N	06/03/2014	Process Water	0	0
Demolition Area 1	FPR-2-GAC-MID2A	FPR-2-GAC-MID2A-99A	N	06/03/2014	Process Water	0	0
Demolition Area 1	FPR2-POST-IX-B	FPR2-POST-IX-B-99A	N	06/03/2014	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 1 June - 30 June 2014

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	FPR2-POST-IX-A	FPR2-POST-IX-A-99A	N	06/03/2014	Process Water	0	0
Demolition Area 1	FPR-2-INF	FPR-2-INF-99A	N	06/03/2014	Process Water	0	0
Demolition Area 1	PR-EFF	PR-EFF-99A	N	06/03/2014	Process Water	0	0
Demolition Area 1	PR-MID-2	PR-MID-2-99A	N	06/03/2014	Process Water	0	0
Demolition Area 2	MW-573M2	MW-573M2_S14	N	06/03/2014	Ground Water	155.4	165.4
Demolition Area 2	MW-573M2	MW-573M2_S14D	FD	06/03/2014	Ground Water	155.4	165.4
Demolition Area 1	PR-MID-1	PR-MID-1-99A	N	06/03/2014	Process Water	0	0
Demolition Area 1	PR-INF	PR-INF-99A	N	06/03/2014	Process Water	0	0
Demolition Area 2	MW-573M1	MW-573M1_S14	N	06/03/2014	Ground Water	176.4	186.4
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-INF-I	J2E-INF-I-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-EFF-K	J2E-EFF-K-69A	N	06/03/2014	Process Water	0	0
Demolition Area 2	MW-572M1	MW-572M1_S14	N	06/03/2014	Ground Water	164.9	174.9
J2 Range Eastern	J2E-MID-2K	J2E-MID-2K-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1K	J2E-MID-1K-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-INF-K	J2E-INF-K-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-69A	N	06/03/2014	Process Water	0	0
J2 Range Eastern	J2E-INF-J	J2E-INF-J-69A	N	06/03/2014	Process Water	0	0
Demolition Area 2	MW-435M2	MW-435M2_S14	N	06/03/2014	Ground Water	149.6	159.9
Demolition Area 2	MW-435M1	MW-435M1_S14	N	06/03/2014	Ground Water	169.9	180
J1 Range Southern	MW-524M1	MW-524M1_S14	N	06/02/2014	Ground Water	148	158
J1 Range Southern	MW-524M1	MW-524M1_S14D	FD	06/02/2014	Ground Water	148	158
Central Impact Area	CIA2-EFF	CIA2-EFF-05A	N	06/02/2014	Process Water	0	0
Central Impact Area	CIA2-MID2	CIA2-MID2-05A	N	06/02/2014	Process Water	0	0
Central Impact Area	CIA2-MID1	CIA2-MID1-05A	N	06/02/2014	Process Water	0	0
Central Impact Area	CIA2-INF	CIA2-INF-05A	N	06/02/2014	Process Water	0	0
Central Impact Area	CIA1-EFF	CIA1-EFF-05A	N	06/02/2014	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-05A	N	06/02/2014	Process Water	0	0
Central Impact Area	CIA1-MID1	CIA1-MID1-05A	N	06/02/2014	Process Water	0	0
J1 Range Southern	MW-591M2	MW-591M2_S14	N	06/02/2014	Ground Water	165	175
Central Impact Area	CIA1-INF	CIA1-INF-05A	N	06/02/2014	Process Water	0	0
Demolition Area 1	D1-EFF	D1-EFF-47A	N	06/02/2014	Process Water	0	0
Demolition Area 1	D1-MID-2	D1-MID-2-47A	N	06/02/2014	Process Water	0	0
Demolition Area 1	D1-MID-1	D1-MID-1-47A	N	06/02/2014	Process Water	0	0
Demolition Area 1	D1-INF	D1-INF-47A	N	06/02/2014	Process Water	0	0
J1 Range Southern	MW-591M1	MW-591M1_S14	N	06/02/2014	Ground Water	200	210
J1 Range Southern	MW-592M2	MW-592M2_S14	N	06/02/2014	Ground Water	158	168
J1 Range Southern	MW-592M1	MW-592M1_S14	N	06/02/2014	Ground Water	201	211
J3 Range	J3-EFF	J3-EFF-93A	N	06/02/2014	Process Water	0	0
J3 Range	J3-MID-2	J3-MID-2-93A	N	06/02/2014	Process Water	0	0
J3 Range	J3-MID-1	J3-MID-1-93A	N	06/02/2014	Process Water	0	0
J3 Range	J3-INF	J3-INF-93A	N	06/02/2014	Process Water	0	0
J1 Range Southern	J1S-EFF	J1S-EFF-79A	N	06/02/2014	Process Water	0	0
J1 Range Southern	J1S-EW2-INF	J1S-EW2-INF_S14	N	06/02/2014	Process Water	0	0
J1 Range Southern	J1S-MID-2	J1S-MID-2-79A	N	06/02/2014	Process Water	0	0
J1 Range Southern	J1S-INF-2	J1S-INF-2-79A	N	06/02/2014	Process Water	0	0
J1 Range Southern	J1S-EW1-INF	J1S-EW1-INF_S14	N	06/02/2014	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received June 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-633M2	MW-633M2_R1	197	207	05/29/2014	SW6860	Perchlorate	0.028	J	UG/L	2.0		0.011	0.050
Central Impact Area	MW-633M2	MW-633M2_R1	197	207	05/29/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.20		UG/L	0.60		0.026	0.20
Central Impact Area	MW-633M1	MW-633M1_R1	282	292	05/29/2014	SW6860	Perchlorate	0.011	J	UG/L	2.0		0.011	0.050
J2 Range Eastern	MW-627M1	MW-627M1_R1	269	279	05/28/2014	SW6860	Perchlorate	0.21		UG/L	2.0		0.011	0.050
J3 Range	MW-636M2	MW-636M2_R1	109.5	119.5	05/28/2014	SW6860	Perchlorate	2.3		UG/L	2.0	X	0.011	0.050
Central Impact Area	MW-629M2	MW-629M2_R1	185.8	195.8	05/27/2014	SW6860	Perchlorate	0.67		UG/L	2.0		0.11	0.50
Central Impact Area	MW-629M2	MW-629M2_R1	185.8	195.8	05/27/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.5		UG/L	0.60	X	0.026	0.20
Central Impact Area	MW-629M2	MW-629M2_R1D	185.8	195.8	05/27/2014	SW6860	Perchlorate	0.67		UG/L	2.0		0.11	0.50
Central Impact Area	MW-629M1	MW-629M1_R1	215.8	225.8	05/27/2014	SW6860	Perchlorate	0.23		UG/L	2.0		0.011	0.050
Central Impact Area	MW-629M1	MW-629M1_R1	215.8	225.8	05/27/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	7.1		UG/L	0.60	X	0.026	0.20
Central Impact Area	MW-629M1	MW-629M1_R1D	215.8	225.8	05/27/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	7.3		UG/L	0.60	X	0.026	0.20
Central Impact Area	MW-638M2	MW-638M2_R1	203.7	213.7	05/27/2014	SW6860	Perchlorate	0.41		UG/L	2.0		0.011	0.050
Central Impact Area	MW-638M2	MW-638M2_R1	203.7	213.7	05/27/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.95		UG/L	0.60	X	0.026	0.20
Central Impact Area	MW-638M1	MW-638M1_R1	260.7	270.7	05/27/2014	SW6860	Perchlorate	0.032	J	UG/L	2.0		0.011	0.050
J2 Range Northern	MW-631M2	MW-631M2_R1	199	209	05/23/2014	SW6860	Perchlorate	0.13		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-631M1	MW-631M1_R1	232	242	05/23/2014	SW6860	Perchlorate	0.30		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-622M2	MW-622M2_R1	219.9	229.9	05/23/2014	SW6860	Perchlorate	0.20		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-622M1	MW-622M1_R1	244.9	254.9	05/23/2014	SW6860	Perchlorate	0.52		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-630M1	MW-630M1_R1	216.3	226.3	05/22/2014	SW6860	Perchlorate	0.026	J	UG/L	2.0		0.011	0.050
J2 Range Northern	MW-634M3	MW-634M3_R1	170.2	180.2	05/22/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.24		UG/L	400		0.023	0.20
J2 Range Northern	MW-634M3	MW-634M3_R1	170.2	180.2	05/22/2014	SW6860	Perchlorate	0.33		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-634M2	MW-634M2_R1	200.2	210.2	05/22/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.20		UG/L	0.60		0.026	0.20
J2 Range Northern	MW-634M2	MW-634M2_R1	200.2	210.2	05/22/2014	SW6860	Perchlorate	4.5		UG/L	2.0	X	0.11	0.50
J2 Range Northern	MW-634M2	MW-634M2_R1D	200.2	210.2	05/22/2014	SW6860	Perchlorate	4.6		UG/L	2.0	X	0.11	0.50
J2 Range Northern	MW-634M1	MW-634M1_R1	305.2	315.2	05/22/2014	SW6860	Perchlorate	0.095		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-632M2	MW-632M2_R1	228.3	238.3	05/21/2014	SW6860	Perchlorate	0.045	J	UG/L	2.0		0.011	0.050
J2 Range Northern	MW-632M1	MW-632M1_R1	253.3	263.3	05/21/2014	SW6860	Perchlorate	1.4		UG/L	2.0		0.011	0.050
Central Impact Area	MW-623M2	MW-623M2_R1	291.8	301.8	05/08/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.5		UG/L	0.60	X	0.026	0.20
J2 Range Northern	MW-635M1	MW-635M1_R1	264.6	274.6	05/08/2014	SW6860	Perchlorate	0.23		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-621M2	MW-621M2_R1	218.8	228.8	05/08/2014	SW6860	Perchlorate	3.4		UG/L	2.0	X	0.011	0.050
Central Impact Area	MW-628M2	MW-628M2_R1	119.7	129.7	05/02/2014	SW6860	Perchlorate	0.15		UG/L	2.0		0.011	0.050
Central Impact Area	MW-628M1	MW-628M1_R1	229.7	239.7	05/02/2014	SW6860	Perchlorate	0.14		UG/L	2.0		0.011	0.050
Central Impact Area	MW-625M2	MW-625M2_R1	230	240	05/02/2014	SW6860	Perchlorate	0.022	J	UG/L	2.0		0.011	0.050
Central Impact Area	MW-625M1	MW-625M1_R1	260	270	05/02/2014	SW6860	Perchlorate	0.083		UG/L	2.0		0.011	0.050
J2 Range Northern	MW-621M1	MW-621M1_R1	248.8	258.8	05/01/2014	SW6860	Perchlorate	0.018	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-162M2	MW-162M2_S14	125.5	135.5	04/22/2014	SW6860	Perchlorate	0.041	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-129M3	MW-129M3_S14	96	106	04/22/2014	SW6860	Perchlorate	0.088		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-129M2	MW-129M2_S14	116	126	04/22/2014	SW6860	Perchlorate	0.048	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-129M1	MW-129M1_S14	136	146	04/22/2014	SW6860	Perchlorate	0.032	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-36M2	MW-36M2_S14	131	141	04/22/2014	SW6860	Perchlorate	0.73		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-36M1	MW-36M1_S14	152	162	04/22/2014	SW6860	Perchlorate	0.38		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-114M2	MW-114M2_S14	120	130	04/21/2014	SW6860	Perchlorate	0.47		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-114M1	MW-114M1_S14	177	187	04/21/2014	SW6860	Perchlorate	1.0		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-34M2	MW-34M2_S14	131	141	04/21/2014	SW6860	Perchlorate	0.34		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-34M1	MW-34M1_S14	151	161	04/21/2014	SW6860	Perchlorate	0.52		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-211M1	MW-211M1_S14	200	210	04/17/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.1		UG/L	400		0.023	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 June 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-211M1	MW-211M1_S14	200	210	04/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	3.5		UG/L	0.60	X	0.026	0.20
Demolition Area 1	MW-211M1	MW-211M1_S14	200	210	04/17/2014	SW6860	Perchlorate	9.1		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-211M1	MW-211M1_S14D	200	210	04/17/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.2		UG/L	400		0.023	0.20
Demolition Area 1	MW-211M1	MW-211M1_S14D	200	210	04/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	3.6		UG/L	0.60	X	0.026	0.20
Demolition Area 1	MW-211M1	MW-211M1_S14D	200	210	04/17/2014	SW6860	Perchlorate	9.1		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-211M2	MW-211M2_S14	175	185	04/17/2014	SW6860	Perchlorate	0.031	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-225M3	MW-225M3_S14	125	135	04/17/2014	SW6860	Perchlorate	0.019	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-240M3	MW-240M3_S14	105	115	04/17/2014	SW6860	Perchlorate	0.042	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-240M1	MW-240M1_S14	198	208	04/17/2014	SW6860	Perchlorate	0.038	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-240M2	MW-240M2_S14	125	135	04/17/2014	SW6860	Perchlorate	0.16		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-559M2	MW-559M2_S14	87	97	04/14/2014	SW6860	Perchlorate	0.62		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-559M1	MW-559M1_S14	135.6	145.6	04/14/2014	SW6860	Perchlorate	2.2		UG/L	2.0	X	0.011	0.050
Demolition Area 1	MW-558M2	MW-558M2_S14	98	108	04/14/2014	SW6860	Perchlorate	0.83		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-558M1	MW-558M1_S14	134	144	04/14/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.25		UG/L	0.60		0.026	0.20
Demolition Area 1	MW-558M1	MW-558M1_S14	134	144	04/14/2014	SW6860	Perchlorate	3.7		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-558M1	MW-558M1_S14D	134	144	04/14/2014	SW6860	Perchlorate	3.8		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-248M3	MW-248M3_S14	143	153	04/14/2014	SW6860	Perchlorate	0.051		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-248M2	MW-248M2_S14	178	188	04/14/2014	SW6860	Perchlorate	0.22		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-258M3	MW-258M3_S14	77	82	04/10/2014	SW6860	Perchlorate	0.024	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-258M2	MW-258M2_S14	87	92	04/10/2014	SW6860	Perchlorate	0.029	J	UG/L	2.0		0.011	0.050
Demolition Area 1	MW-258M1	MW-258M1_S14	109	119	04/10/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.58		UG/L	0.60		0.026	0.20
Demolition Area 1	MW-258M1	MW-258M1_S14	109	119	04/10/2014	SW6860	Perchlorate	9.4		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-258M1	MW-258M1_S14D	109	119	04/10/2014	SW6860	Perchlorate	9.7		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-252M3	MW-252M3_S14	115	125	04/10/2014	SW6860	Perchlorate	0.081		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-252M2	MW-252M2_S14	145	155	04/10/2014	SW6860	Perchlorate	0.090		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-252M1	MW-252M1_S14	174	184	04/10/2014	SW6860	Perchlorate	0.095		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-531M1	MW-531M1_S14	138	148	04/09/2014	SW6860	Perchlorate	0.46		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-542M1	MW-542M1_S14	144	154	04/09/2014	SW6860	Perchlorate	0.091		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-532M2	MW-532M2_S14	138	148	04/09/2014	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_S14	138	148	04/09/2014	SW6860	Perchlorate	20.4		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-532M2	MW-532M2_S14D	138	148	04/09/2014	SW6860	Perchlorate	20.2		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-532M1	MW-532M1_S14	168	178	04/09/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.24		UG/L	0.60		0.026	0.20
Demolition Area 1	MW-532M1	MW-532M1_S14	168	178	04/09/2014	SW6860	Perchlorate	2.2		UG/L	2.0	X	0.011	0.050
Demolition Area 1	MW-532M1	MW-532M1_S14D	168	178	04/09/2014	SW6860	Perchlorate	2.1		UG/L	2.0	X	0.011	0.050
L Range	MW-595M1	MW-595M1_R3	255.3	265.3	04/09/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.31		UG/L	0.60		0.026	0.20
Demolition Area 1	MW-554M2	MW-554M2_S14	89.1	99.1	04/08/2014	SW6860	Perchlorate	0.14		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-554M1	MW-554M1_S14	120	130	04/08/2014	SW6860	Perchlorate	0.41		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-556M2	MW-556M2_S14	111	121	04/08/2014	SW6860	Perchlorate	1.8		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-556M1	MW-556M1_S14	153	163	04/08/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.24		UG/L	0.60		0.026	0.20
Demolition Area 1	MW-556M1	MW-556M1_S14	153	163	04/08/2014	SW6860	Perchlorate	2.9		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-556M1	MW-556M1_S14D	153	163	04/08/2014	SW6860	Perchlorate	3.0		UG/L	2.0	X	0.11	0.50
Demolition Area 1	MW-545M4	MW-545M4_S14	72	82	04/08/2014	SW6860	Perchlorate	0.29		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-545M3	MW-545M3_S14	101.5	111.5	04/08/2014	SW6860	Perchlorate	0.29		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-545M2	MW-545M2_S14	142	152	04/08/2014	SW6860	Perchlorate	1.8		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-545M1	MW-545M1_S14	162	172	04/08/2014	SW6860	Perchlorate	1.6		UG/L	2.0		0.11	0.50
Demolition Area 1	MW-545M1	MW-545M1_S14D	162	172	04/08/2014	SW6860	Perchlorate	1.6		UG/L	2.0		0.11	0.50

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 June 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-546M2	MW-546M2_S14	100	110	04/07/2014	SW6860	Perchlorate	0.096		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-546M1	MW-546M1_S14	140	150	04/07/2014	SW6860	Perchlorate	0.054		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-544M2	MW-544M2_S14	112	122	04/07/2014	SW6860	Perchlorate	0.45		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-544M3	MW-544M3_S14	77.5	87.5	04/07/2014	SW6860	Perchlorate	0.067		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-544M1	MW-544M1_S14	162	172	04/07/2014	SW6860	Perchlorate	0.66		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-543M2	MW-543M2_S14	91.8	101.8	04/07/2014	SW6860	Perchlorate	0.085		UG/L	2.0		0.011	0.050
Demolition Area 1	MW-543M1	MW-543M1_S14	127	137	04/07/2014	SW6860	Perchlorate	0.12		UG/L	2.0		0.011	0.050
Central Impact Area	MW-39M1	MW-39M1_S14	220	230	03/28/2014	SW6860	Perchlorate	0.49		UG/L	2.0		0.011	0.050
Central Impact Area	MW-88M2	MW-88M2_S14	213	223	03/28/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.3		UG/L	0.60	X	0.058	0.45
Central Impact Area	MW-88M2	MW-88M2_S14	213	223	03/28/2014	SW6860	Perchlorate	5.6		UG/L	2.0	X	0.011	0.050
Central Impact Area	MW-88M1	MW-88M1_S14	233	243	03/28/2014	SW6860	Perchlorate	0.022	J	UG/L	2.0		0.011	0.050
Western Boundary	4036000-04G	4036000-04G_14Q1	55	65	03/28/2014	SW6860	Perchlorate	0.17		UG/L	2.0		0.011	0.050
Western Boundary	4036000-03G	4036000-03G_14Q1	50	60	03/28/2014	SW6860	Perchlorate	0.17		UG/L	2.0		0.011	0.050
Western Boundary	4036000-06G	4036000-06G_14Q1	108	128	03/28/2014	SW6860	Perchlorate	0.12		UG/L	2.0		0.011	0.050
Western Boundary	4036000-01G	4036000-01G_14Q1	38	70	03/28/2014	SW6860	Perchlorate	0.14		UG/L	2.0		0.011	0.050
Central Impact Area	MW-51M2	MW-51M2_S14	203	213	03/27/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.79		UG/L	0.60	X	0.058	0.45
Central Impact Area	MW-618M2	MW-618M2_R1	189.5	199.5	03/27/2014	SW6860	Perchlorate	0.070		UG/L	2.0		0.011	0.050
Central Impact Area	MW-618M1	MW-618M1_R1	237.5	247.5	03/27/2014	SW6860	Perchlorate	0.088		UG/L	2.0		0.011	0.050
Central Impact Area	MW-203M2	MW-203M2_S14	176	186	03/25/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.44		UG/L	0.60		0.056	0.43
Central Impact Area	MW-38M3	MW-38M3_S14	170	180	03/25/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.56	J	UG/L	0.60		0.054	0.41
Central Impact Area	MW-38M3	MW-38M3_S14	170	180	03/25/2014	SW6860	Perchlorate	0.61		UG/L	2.0		0.011	0.050
Central Impact Area	MW-184M1	MW-184M1_S14	186	196	03/25/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	1.1	J	UG/L	400		0.049	0.43
Central Impact Area	MW-184M1	MW-184M1_S14	186	196	03/25/2014	SW6860	Perchlorate	2.2		UG/L	2.0	X	0.011	0.050
Central Impact Area	MW-184M1	MW-184M1_S14	186	196	03/25/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	6.1	J	UG/L	0.60	X	0.055	0.43
Central Impact Area	MW-87M1	MW-87M1_S14	194	204	03/24/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.50	J	UG/L	0.60		0.053	0.41
Central Impact Area	MW-87M1	MW-87M1_S14	194	204	03/24/2014	SW6860	Perchlorate	4.2		UG/L	2.0	X	0.011	0.050
Central Impact Area	MW-25	MW-25_S14	108	118	03/24/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.66	J	UG/L	0.60	X	0.054	0.42
Central Impact Area	MW-02M2	MW-02M2_S14	170	175	03/24/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.85	J	UG/L	0.60	X	0.055	0.43
Central Impact Area	MW-485M1	MW-485M1_S14	125.3	135.3	03/20/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.63	J	UG/L	400		0.047	0.41
Central Impact Area	MW-485M1	MW-485M1_S14	125.3	135.3	03/20/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	8.3	J	UG/L	0.60	X	0.054	0.41
Central Impact Area	MW-485M1	MW-485M1_S14D	125.3	135.3	03/20/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.65	J	UG/L	400		0.048	0.42
Central Impact Area	MW-485M1	MW-485M1_S14D	125.3	135.3	03/20/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	8.7		UG/L	0.60	X	0.055	0.42
Central Impact Area	MW-477M2	MW-477M2_S14	146	156	03/20/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	3.4		UG/L	0.60	X	0.053	0.41
Central Impact Area	OW-2	OW-2_S14	175	185	03/20/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.72	J	UG/L	0.60	X	0.053	0.41
Central Impact Area	MW-113M2	MW-113M2_S14	190	200	03/19/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	3.7	J	UG/L	0.60	X	0.057	0.43
Central Impact Area	MW-487M2	MW-487M2_S14	195	205	03/19/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.82		UG/L	0.60	X	0.057	0.43
Central Impact Area	MW-107M2	MW-107M2_S14	125	135	03/19/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.44	J	UG/L	0.60		0.057	0.44
Central Impact Area	MW-98M1	MW-98M1_S14	164	174	03/18/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.82	J	UG/L	0.60	X	0.055	0.43
Central Impact Area	MW-105M1	MW-105M1_S14	205	215	03/18/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.68		UG/L	0.60	X	0.055	0.43
Central Impact Area	MW-101M1	MW-101M1_S14	153	158	03/18/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.44		UG/L	0.60		0.056	0.43
Central Impact Area	MW-100M1	MW-100M1_S14	179	189	03/18/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.80		UG/L	0.60	X	0.054	0.42
Central Impact Area	MW-91S	MW-91S_S14	124	134	03/17/2014	SW8330	2-Amino-4,6-dinitrotoluene	0.51	J	UG/L	7.3		0.034	0.43
Central Impact Area	MW-91S	MW-91S_S14	124	134	03/17/2014	SW8330	4-Amino-2,6-Dinitrotoluene	0.54	J	UG/L	7.3		0.037	0.43
Central Impact Area	MW-91S	MW-91S_S14	124	134	03/17/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.65	J	UG/L	400		0.049	0.43
Central Impact Area	MW-91S	MW-91S_S14	124	134	03/17/2014	SW8330	2,4,6-Trinitrotoluene	1.6	J	UG/L	2.0		0.062	0.43
Central Impact Area	MW-91S	MW-91S_S14	124	134	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	3.9	J	UG/L	0.60	X	0.056	0.43

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TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received June 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-91S	MW-91S_S14D	124	134	03/17/2014	SW8330	2-Amino-4,6-dinitrotoluene	0.47	J	UG/L	7.3		0.033	0.41
Central Impact Area	MW-91S	MW-91S_S14D	124	134	03/17/2014	SW8330	4-Amino-2,6-Dinitrotoluene	0.50	J	UG/L	7.3		0.035	0.41
Central Impact Area	MW-91S	MW-91S_S14D	124	134	03/17/2014	SW8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	0.51	J	UG/L	400		0.047	0.41
Central Impact Area	MW-91S	MW-91S_S14D	124	134	03/17/2014	SW8330	2,4,6-Trinitrotoluene	1.4	J	UG/L	2.0		0.059	0.41
Central Impact Area	MW-91S	MW-91S_S14D	124	134	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	3.5	J	UG/L	0.60	X	0.053	0.41
Central Impact Area	MW-91M1	MW-91M1_S14	170	180	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.4	J	UG/L	0.60	X	0.055	0.43
Central Impact Area	MW-90S	MW-90S_S14	118	128	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	2.6		UG/L	0.60	X	0.054	0.41
Central Impact Area	MW-01S	MW-01S_S14	114	124	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.0	J	UG/L	0.60	X	0.053	0.41
Central Impact Area	MW-01S	MW-01S_S14D	114	124	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.99	J	UG/L	0.60	X	0.057	0.43
Central Impact Area	MW-01M2	MW-01M2_S14	160	165	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.62	J	UG/L	0.60	X	0.054	0.42
Central Impact Area	MW-37M2	MW-37M2_S14	145	155	03/17/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	0.48	J	UG/L	0.60		0.054	0.41
Central Impact Area	MW-178M1	MW-178M1_S14	257	267	03/14/2014	SW8330	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.2	J	UG/L	0.60	X	0.055	0.43

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