WEEKLY PROGRESS UPDATE
FOR MAY 20 – MAY 24, 2002

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 & 1-2000-0014
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from May 20 through May 24, 2002.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of May 24 is summarized in Table 1.

Table 1. Drilling progress as of May 24, 2002

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-215	Former K Range (J2P-16)	275	169	240-250, 205-215, 104-114
MW-216	Containment Pad (RRAP-1)	370	162	253-263, 236-246, 199-209
MW-217	Snake Pond (J3P-24)	168	162	
MW-218	Snake Pond (J3P-25)	180	174	
MW-219	Base Water Supply #4 (WS4P-1)	190		
MW-220	Central Impact Area (CIAP-11)	130		
MW-221	Demo Area 1 (D1P-12)	343	198	
MW-222	Central Impact Area (CIAP-23)	303	188	240-250, 185-195

bgs = below ground surface
bwt = below water table

Completed well installation of MW-215 (J2P-16), MW-216 (RRAP-1), and MW-222 (CIAP-23), commenced setting well screens at MW-221 (D1P-12), and commenced drilling of MW-219 (WS4P-1) and MW-220 (CIAP-11). Continued well development for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater samples were collected from Bourne supply wells, sentry wells, and monitoring wells and as part of the April Long Term Groundwater Monitoring round. Water samples were collected from the GAC treatment system. Soil samples were collected from Central Impact Area targets as part of the Central Impact Area supplemental target sampling. A soil sample was collected from the J-3 Range for reanalysis. Soil samples were collected Cleared Area 12 as part of the Gun and Mortar Firing Positions Additional Characterization soil sampling. Surface water samples were collected from Snake Pond. A post-detonation soil sample was collected from the Central Impact Area.

As part of the Munitions Survey Project, pre-detonation and post-detonation soil samples were collected from the J-2 Range. Soil samples were collected from J-2 Range Polygons 6D and 10 and from the J-2 Range as part of a corrosion study.

The following are the notes from the May 23, 2002 Technical Team meeting at the IAGWSPO:

Participants

Ben Gregson (IAGWSPO)	MAJ Bill Myer (IAGWSPO)	Karen Wilson (IAGWSPO)
Mike Jasinski (EPA-phone)	LTC Bill FitzPatrick (MAARNG)	Todd Borci (EPA)
Len Pinaud (MADEP)	Mark Panni (MADEP)	Gina Tyo (ACE)
Ed Wise (ACE)	Heather Sullivan (ACE-phone)	Ellen Iorio (ACE-phone)
John MacPherson (ACE)	Rob Foti (ACE)	Marc Grant (AMEC)
Kim Harriz (AMEC)	John Rice (AMEC-phone)	Maria Pologruto (AMEC)
Leo Montroy (Tt-phone)	Susan Stewart (Tt-phone)	Larry Hudgins (Tetra Tech)
Dave Williams (MDPH)		

Punchlist Items

#3 Provide test results for chemical monitoring wells for WS-1, 2, 3 (JPO). Still waiting on results. Len Pinaud (MADEP) to check with Jeff Rose (DEP Water Supply).

#6 Provide alternative location of WS4-P2 (Corps/Guard) Jeff Rose (DEP Water Supply) indicated that a location anywhere along the power line would be approved. John Rice (AMEC) had staked the location at the edge of the Kettle Hole, surveyed this coordinate, placed the location on a figure for agency and BWD approval. Guard is looking for at least email approval of location from DEP Water Supply. Bill Gallagher (IAGWSPO) to be discuss the location with Leo Yuskus (Haley and Ward) next week, prior to finalizing the location.

#13 Provide information on J-2 Polygons for IART dryrun (Corps). Some information discussed at dry run. Item to be kept on Punchlist until all information collected and provided to EPA.

#15 Provide letter to EPA requesting changes in explosive analyses in Bourne area (AMEC). Letter sent on 5/20/02. EPA comment requested that test well 1-88 be sampled weekly and that all water supply wells (even the supply wells that are shut down) have analysis placed on a 2-day TAT. Heather Sullivan (ACE) to modify letter accordingly and send to DEP Water Supply and the BWD for approval. Reporting is proposed to be weekly for monitoring/sentry well results and as available for water supply well results (both detects and/or non detects).

#17 Provide comments on J-3 Range MW-181 RAD summary (EPA/DEP). No comments provided. EPA will provide comment on the summary in the upcoming J1J3L Ranges Report. To be provided as a handout at the IART.

#18 Provide comments on Bourne Perchlorate Response Approach (EPA/MADEP). No written comments to be provided. EPA/MADEP will provide comment on the Workplan when submitted.

#19 Provide letter regarding Interim Actions at Demo 1 GW (ACE). Letter emailed on 5/21. Further discussion on Interim Action to be conducted at June 6 Tech meeting.

#22 Provide Final Comment of eastern Test Site Anomaly Picks (EPA/MADEP). EPA requested that one of two anomalies discussed last week be added as a pick for excavation.

#23 Provide Letter for EPA/MADEP approval for Central Impact Area Pump Test (ACE). Letter emailed 5/22. EPA to comment by Tuesday 5/28, MADEP to comment by Thursday 5/30.

#25 Provide status on researching BOMARC solid rocket fuel propellant - use, perchlorate content, disposal (ACE). Eleven sources contacted. No information yet. Nick Iaiennaro (ACE) still pursuing information.

#26 Provide status on diesel fuel spill near Range Control (Guard). April 24 memo from Nicole Brooks (MAARNG Hazardous Waste Coordinator) indicted that the spill was estimated to be 2 gallons of diesel fuel. 1 cubic yard of contaminated soil was removed.

#27 Provide documentation of VOC testing for Range Control Well (ACE). Testing to be documented in LTGM MOR.

Munitions Survey Project Update

Rob Foti (Corps) provided an update on the MSP3 tasks.

J Range Polygons. Crews are working at J-2 Range. Polygon 2A, 2F, 2I, 2L, and 2M completed. Polygons 2E and 2B will be revisited. A crew is currently working at Polygon 2T. Polygon 2T excavation is approximately 22 ft by 19 ft by 7 ft deep. To date approximately 35,000 40MM rounds have been uncovered in 2T. Polygon 10 was completed this morning. This appears to have been a burial area; no ash was encountered. Excavation of Polygon 4 will be initiated today. Schedule of drilling at J-2 Range to be discussed next week.

Eastern Test Site – Excavations to be initiated after Central Impact Area pump test is completed.

U Range - Grubbing and surface clearance is being conducted at U Range. Larry Hudgins (Tetra tech) responded to a question from Todd Borci (EPA) after the meeting that the RDX detection in a recent post-detonation sample was from an 155 HE round loaded with Comp B. Mr. Borci inquired about sampling in Deep Bottom Pond while water levels were low. Ellen Iorio (ACE) indicated that the Corps is in the process of scoping this work to procure funds. Karen Wilson (IAGWSPO) indicated that an Archeological Survey will not be needed for the proposed area of investigation in the Pond.

Central Impact Area Update

John Rice (AMEC) provided information on the status of the Central Impact Area investigation.

- Currently drilling CIAP-11 (MW-220); setting screens at CIAP-23 (MW-222) and then moving on to CIAP-25. Finishing well installation at D1P-12 (MW-221) and then moving to CIAP-12. Four drill rigs and a geoprobe unit will be deployed next week.
- All sample analytical results collected during the column test have been received from the laboratory. No explosives or perchlorate were detected.
- Central Impact Area Step Test is scheduled to begin June 12, pending receipt of approval from EPA/MADEP.
- Mike Jasinski (EPA) indicated that a schedule for the Central Impact Groundwater Feasibility Study should be provided by June 21 based on current expectations of when the groundwater plume will be delineated. Heather Sullivan (ACE) indicated that the schedule would be dictated by receipt of perchlorate results for Central Impact Area wells and the assumption that the existing monitoring well network would be adequate to delineate the extent of all COCs.

Bourne Area Update

John Rice (AMEC) provided an update on the Bourne area investigation.

- Drilling of WSP4-1 commenced on Wednesday 5/22. Newly installed monitoring wells are being developed. Sampling of all remaining wells may be completed as early as next week.
- Revised location map for WS4P-2 will be forwarded today. ROA for this well and BP-1 is being prepared.
- The next monthly sampling round in the Bourne well field will start the first week in June.
- Proposed drilling locations 02-06, 02-11, and 02-14 are still outstanding. The Guard has been waiting on final results from other area monitoring wells to make a final decision. Bill Gallagher (IAGWSPO) to discuss need for these wells with Leo Yuskus (Haley and Ward) when Mr. Gallagher returns next week.

Schedule and Documents

Marc Grant (AMEC) reviewed the document and schedule status. Important outstanding items were addressed as follows:

Documents Having Comments

Revised Demo 1 Soil Report (TM01-10) - EPA is expecting comments on dyes' issue in a day or so. This issue to be resolved prior to MOR approval.

Former A, K, Demo 2 Report- Awaiting MOR approval, this item is the Guard's second priority, since the approval impacts Workplan for Former A & K Ranges.

MSP2 Former K, Slit Trench and Former A Reports. These reports are awaiting MOR approval and (with the Deep Bottom Pond Workplan comments) are the Guard's third priority.

2002 LTGM – MOR expected to be submitted 5/31. Guard received letter from MADEP indicating that they had no comment on the plan.

Documents Needing Comments

MSP3 Deep Bottom Pond Work Plan - EPA comments pending; Guard's third priority.

Demo 1 Environmental Risk Characterization Report – Awaiting EPA/DEP comment. Guard considers the top priority. EPA/DEP comments likely to be forwarded today.

Miscellaneous

Corps is seeking access to two drilling locations at Snake Pond via personal property. The previous access agreement has expired and the property owner is away on an extended fishing trip. Ben Gregson (IAGWSPO) to speak to Mike Minior (AFCEE) regarding obtaining access to property from property owner when he returns.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and explosive and volatile organic compound (VOC) analyses for groundwater profile samples, are conducted in this timeframe, as well as any analyses pursuant to a special request. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 3 summarizes only detects, and does not show samples with non-detects.

The status of the explosive detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 3. PDA is a procedure that has been implemented for the explosive analysis, to reduce the likelihood of false positive identifications. Where the PDA status is "YES" in Table 3, the detected compound is verified as properly identified. Where the status is "NO", the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC or perchlorate. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 3 includes the following detections:

- Groundwater samples from Bourne water supply well 4036000-01G had a detection of 1,2,4-trichlorobenzene.

- Groundwater samples form Bourne water supply well 4036000-04G had a detection of tetrachloroethylene.

- Groundwater samples from MW-38M3, M4; MW-86M2; MW-87M2; MW-89M1, M3; MW-112M1, M2; and MW-135M2, (Central Impact Area) had detections of RDX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from MW-87M1, MW-88M2, and MW89M2 had detections of RDX and HMX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from four supply wells had detections of chloroform.

3. DELIVERABLES SUBMITTED

Draft J-1, J-3, L Ranges Additional Delineation Report No. 1 05/22/02

4. SCHEDULED ACTIONS

Scheduled actions for the week of May 27 include complete well installation on MW-217 (J3P-24) and MW-218 (J3P-25), complete drilling at MW-219 (WS4P-1) and MW-220 (CIAP-11), and commence drilling at CIAP-25 and CIAP-12.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume will be conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit. The installation of monitoring well MW-221 (D1P-12), located south of MW-211 on Pew Road, will be completed early next week. Planning efforts were continued for the installation of additional monitoring wells west of Pew Road. Identification and preliminary evaluation of potential Interim Actions for the groundwater plume were completed.

TABLE 2
SAMPLING PROGRESS
05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDA05160201AA	A05160201	05/24/2002	CRATER GRAB	0.00	0.25		
J2.S.T10.001.1.0	J2.T10.001.O	05/21/2002	CRATER GRAB	2.50	2.75		
J2.S.T10.002.1.0	J2.T10.002.O	05/21/2002	CRATER GRAB	2.25	2.50		
J2.A.T6D.020.1.0	J2.T6D.020.R	05/21/2002	CRATER GRID	0.00	0.25		
J2.A.T6D.020.2.0	J2.T6D.020.R	05/21/2002	CRATER GRID	1.00	1.25		
J2.A.T6D.020.3.0	J2.T6D.020.R	05/21/2002	CRATER GRID	1.00	1.25		
J2.A.T6D.020.3.D	J2.T6D.020.R	05/21/2002	CRATER GRID	1.00	1.25		
58MW0002E	FIELDQC	05/23/2002	FIELDQC	0.00	0.00		
90MW0041E	FIELDQC	05/19/2002	FIELDQC	0.00	0.00		
BC179A1AAE	FIELDQC	05/21/2002	FIELDQC	0.00	0.00		
HC102NB1CAE	FIELDQC	05/24/2002	FIELDQC	0.00	0.00		
HC121A1CAE	FIELDQC	05/20/2002	FIELDQC	0.00	0.00		
HC177B1AAE	FIELDQC	05/22/2002	FIELDQC	0.00	0.00		
HC177B1BAT	FIELDQC	05/22/2002	FIELDQC	0.00	0.00		
HC177SB1CAE	FIELDQC	05/23/2002	FIELDQC	0.00	0.00		
HC178B1AAT	FIELDQC	05/23/2002	FIELDQC	0.00	0.00		
HC179A1AAE	FIELDQC	05/21/2002	FIELDQC	0.00	0.00		
HC179A1CAT	FIELDQC	05/21/2002	FIELDQC	0.00	0.00		
HD102C31AAT	FIELDQC	05/24/2002	FIELDQC	0.00	0.00		
OW00-1DE	FIELDQC	05/22/2002	FIELDQC	0.00	0.00		
WOW-2E	FIELDQC	05/21/2002	FIELDQC	0.00	0.00		
4036000-01G	4036000-01G	05/22/2002	GROUNDWATER				
4036000-03G	4036000-03G	05/22/2002	GROUNDWATER				
4036000-03GD	4036000-03G	05/22/2002	GROUNDWATER				
4036000-04G	4036000-04G	05/22/2002	GROUNDWATER				
4036000-06G	4036000-06G	05/22/2002	GROUNDWATER				
90MW0021	90MW0021	05/19/2002	GROUNDWATER	127.00	132.00	78.00	83.00
90MW0034	90MW0034	05/24/2002	GROUNDWATER	93.00	98.00	28.57	33.57
90MW0034D	90MW0034	05/24/2002	GROUNDWATER	93.00	98.00	28.57	33.57
90MW0038	90MW0038	05/24/2002	GROUNDWATER	94.00	99.00	29.00	34.00
90MW0041	90MW0041	05/19/2002	GROUNDWATER	125.37	130.23	31.50	36.50
90MW0061	90MW0061	05/24/2002	GROUNDWATER	150.00	155.00	58.65	63.65
90WT0003	90WT0003	05/19/2002	GROUNDWATER	87.50	97.50	0.00	10.00
90WT0004	90WT0004	05/19/2002	GROUNDWATER	35.00	45.00	3.00	13.00
90WT0006	90WT0006	05/18/2002	GROUNDWATER	95.00	105.00	95.00	105.00
90WT0013	90WT0013	05/19/2002	GROUNDWATER	92.00	102.00	0.00	10.00
90WT0019	90WT0019	05/18/2002	GROUNDWATER			0.00	10.00
90WT0019D	90WT0019	05/18/2002	GROUNDWATER			0.00	10.00
95-6A	95-6A	05/21/2002	GROUNDWATER		192.15	146.00	156.00
95-6B	95-6B	05/21/2002	GROUNDWATER		127.15	94.00	104.00
OW00-1DA	00-1D	05/22/2002	GROUNDWATER	175.00	185.00	48.30	54.30

Profiling methods include: Volatiles, Explosives and Perchlorate
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
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TABLE 2
SAMPLING PROGRESS
05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W01M1A	MW-1	05/22/2002	GROUNDWATER	126.00	136.00	104.00	109.00
W01M2A	MW-1	05/22/2002	GROUNDWATER	16.00	165.00	44.00	49.00
W100M1A	MW-100	05/21/2002	GROUNDWATER	179.00	189.00	45.00	55.00
W100M2A	MW-100	05/21/2002	GROUNDWATER	164.00	174.00	30.00	40.00
W101M1A	MW-101	05/21/2002	GROUNDWATER	158.00	168.00	27.00	37.00
W101SSA	MW-101	05/21/2002	GROUNDWATER	131.00	141.00	1.00	11.00
W105M1A	MW-105	05/21/2002	GROUNDWATER	205.00	215.00	78.00	88.00
W105M2A	MW-105	05/21/2002	GROUNDWATER	158.00	168.00	38.00	48.00
W106M1A	MW-106	05/22/2002	GROUNDWATER	170.50	180.50	38.00	48.00
W106M2A	MW-106	05/22/2002	GROUNDWATER	170.50	180.50	8.00	18.00
W107M1A	MW-107	05/22/2002	GROUNDWATER	155.00	165.00	35.00	45.00
W107M2A	MW-107	05/22/2002	GROUNDWATER	125.00	135.00	5.00	15.00
W156SSA	MW-156	05/19/2002	GROUNDWATER	77.00	87.00	7.00	17.00
W44M2A	MW-44	05/20/2002	GROUNDWATER	170.00	180.00	13.00	23.00
W85M1A	MW-85	05/22/2002	GROUNDWATER	137.50	147.50	22.00	32.00
W85SSA	MW-85	05/22/2002	GROUNDWATER	206.00	216.00	1.00	11.00
W90M1A	MW-90	05/20/2002	GROUNDWATER	145.00	155.00	27.00	37.00
W91M1A	MW-91	05/20/2002	GROUNDWATER	170.00	180.00	45.00	55.00
W91M1D	MW-91	05/20/2002	GROUNDWATER	170.00	180.00	45.00	55.00
W91SSA	MW-91	05/20/2002	GROUNDWATER	124.00	134.00	0.00	10.00
W92M1A	MW-92	05/20/2002	GROUNDWATER	165.00	175.00	25.00	35.00
W92SSA	MW-92	05/20/2002	GROUNDWATER	139.00	149.00	0.00	10.00
W93M1A	MW-93	05/20/2002	GROUNDWATER	185.00	195.00	56.00	66.00
W93M2A	MW-93	05/20/2002	GROUNDWATER	145.00	155.00	16.00	26.00
W95M1A	MW-95	05/20/2002	GROUNDWATER	202.00	212.00	78.00	88.00
W95M1D	MW-95	05/20/2002	GROUNDWATER	202.00	212.00	78.00	88.00
W95M2A	MW-95	05/20/2002	GROUNDWATER	167.00	177.00	43.00	53.00
W96M1A	MW-96	05/22/2002	GROUNDWATER	206.00	216.00	70.00	80.00
W96M2A	MW-96	05/23/2002	GROUNDWATER	160.00	170.00	24.00	34.00
W96SSA	MW-96	05/23/2002	GROUNDWATER	134.00	144.00	0.00	10.00
W97M2A	MW-97	05/23/2002	GROUNDWATER	185.00	195.00	62.00	72.00
W97M3A	MW-97	05/23/2002	GROUNDWATER	140.00	150.00	17.00	27.00
W98M1A	MW-98	05/24/2002	GROUNDWATER	164.00	174.00	26.00	36.00
W98M1D	MW-98	05/24/2002	GROUNDWATER	164.00	174.00	26.00	36.00
W98SSA	MW-98	05/23/2002	GROUNDWATER	137.00	147.00	0.00	10.00
W99M1A	MW-99	05/23/2002	GROUNDWATER	195.00	205.00	60.00	70.00
W99SSA	MW-99	05/23/2002	GROUNDWATER	133.00	143.00	0.00	10.00
WOW-1A	OW-1	05/21/2002	GROUNDWATER	126.00	136.00	0.70	10.70
WOW-1D	OW-1	05/21/2002	GROUNDWATER	126.00	136.00	0.70	10.70
WOW-2A	OW-2	05/21/2002	GROUNDWATER	175.00	185.00	48.78	58.78
WOW-6A	OW-6	05/21/2002	GROUNDWATER	175.00	185.00	46.80	56.80

Profiling methods include: Volatiles, Explosives and Perchlorate
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05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
DW052202	GAC WATER	05/22/2002	IDW				
DW052402	GAC WATER	05/24/2002	IDW				
J2.S.T10.001.2.0	J2.T10.001.O	05/21/2002	SOIL GRAB	2.50	2.75		
J2.S.T10.001.3.0	J2.T10.001.O	05/21/2002	SOIL GRAB	2.50	2.75		
J2.S.T10.001.4.0	J2.T10.001.O	05/21/2002	SOIL GRAB	2.50	2.75		
J2.S.T10.002.2.0	J2.T10.002.O	05/21/2002	SOIL GRAB	2.25	2.50		
J2.S.T10.002.3.0	J2.T10.002.O	05/21/2002	SOIL GRAB	2.25	2.50		
J2.S.T10.002.4.0	J2.T10.002.O	05/21/2002	SOIL GRAB	2.25	2.50		
HC112B1AAA	112B	05/20/2002	SOIL GRID	0.00	0.25		
HC112B1BAA	112B	05/20/2002	SOIL GRID	0.25	0.50		
HC112B1CAA	112B	05/20/2002	SOIL GRID	0.50	1.00		
HC118A1AAA	118A	05/21/2002	SOIL GRID	0.00	0.25		
HC118B1AAA	118B	05/21/2002	SOIL GRID	0.00	0.25		
HC121A1AAA	121A	05/20/2002	SOIL GRID	0.00	0.25		
HC121A1BAA	121A	05/20/2002	SOIL GRID	0.25	0.50		
HC121A1CAA	121A	05/20/2002	SOIL GRID	0.50	1.00		
HC121B1AAA	121B	05/20/2002	SOIL GRID	0.00	0.25		
HC121B1BAA	121B	05/20/2002	SOIL GRID	0.25	0.50		
HC121B1CAA	121B	05/20/2002	SOIL GRID	0.50	1.00		
HC177A1AAA	177A	05/22/2002	SOIL GRID	0.00	0.25		
HC177A1BAA	177A	05/22/2002	SOIL GRID	0.25	0.50		
HC177A1CAA	177A	05/22/2002	SOIL GRID	0.50	1.00		
HC177B1AAA	177B	05/22/2002	SOIL GRID	0.00	0.25		
HC177B1BAA	177B	05/22/2002	SOIL GRID	0.25	0.50		
HC177B1CAA	177B	05/22/2002	SOIL GRID	0.50	1.00		
HC177NA1AAA	177NA	05/22/2002	SOIL GRID	0.00	0.25		
HC177NA1BAA	177NA	05/22/2002	SOIL GRID	0.25	0.50		
HC177NA1CAA	177NA	05/22/2002	SOIL GRID	0.50	1.00		
HC177NB1AAA	177NB	05/22/2002	SOIL GRID	0.00	0.25		
HC177NB1BAA	177NB	05/22/2002	SOIL GRID	0.25	0.50		
HC177NB1CAA	177NB	05/22/2002	SOIL GRID	0.50	1.00		
HC177SA1AAA	177SA	05/22/2002	SOIL GRID	0.00	0.25		
HC177SA1BAA	177SA	05/22/2002	SOIL GRID	0.25	0.50		
HC177SA1CAA	177SA	05/22/2002	SOIL GRID	0.50	1.00		
HC177SB1AAA	177SB	05/23/2002	SOIL GRID	0.00	0.25		
HC177SB1AAD	177SB	05/23/2002	SOIL GRID	0.00	0.25		
HC177SB1BAA	177SB	05/23/2002	SOIL GRID	0.25	0.50		
HC177SB1CAA	177SB	05/23/2002	SOIL GRID	0.25	0.50		
HC178A1AAA	178A	05/23/2002	SOIL GRID	0.00	0.25		
HC178A1BAA	178A	05/23/2002	SOIL GRID	0.25	0.50		
HC178A1CAA	178A	05/23/2002	SOIL GRID	0.50	1.00		

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BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 2
SAMPLING PROGRESS
05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC178B1AAA	178B	05/23/2002	SOIL GRID	0.00	0.25		
HC178B1BAA	178B	05/23/2002	SOIL GRID	0.25	0.50		
HC178B1CAA	178B	05/23/2002	SOIL GRID	0.50	1.00		
HC178NA1AAA	178NA	05/23/2002	SOIL GRID	0.00	0.25		
HC178NA1BAA	178NA	05/23/2002	SOIL GRID	0.25	0.50		
HC178NA1CAA	178NA	05/23/2002	SOIL GRID	0.50	1.00		
HC178NB1AAA	178NB	05/23/2002	SOIL GRID	0.00	0.25		
HC178NB1BAA	178NB	05/23/2002	SOIL GRID	0.25	0.50		
HC178NB1CAA	178NB	05/23/2002	SOIL GRID	0.50	1.00		
HC179A1AAA	179A	05/21/2002	SOIL GRID	0.00	0.25		
HC179A1BAA	179A	05/21/2002	SOIL GRID	0.25	0.50		
HC179A1CAA	179A	05/21/2002	SOIL GRID	0.50	1.00		
HC179B1AAA	179B	05/21/2002	SOIL GRID	0.00	0.25		
HC179B1BAA	179B	05/21/2002	SOIL GRID	0.25	0.50		
HC179B1CAA	179B	05/21/2002	SOIL GRID	0.50	1.00		
HC196C1AAA	196C	05/24/2002	SOIL GRID	0.00	0.50		
HC196C1BAA	196C	05/24/2002	SOIL GRID	1.50	2.00		
HD102C31AAA	102C3	05/24/2002	SOIL GRID	0.00	0.25		
HD112B1AAA	112B	05/20/2002	SOIL GRID	0.00	0.25		
HD112B1BAA	112B	05/20/2002	SOIL GRID	0.25	0.50		
HD112B1CAA	112B	05/20/2002	SOIL GRID	0.50	1.00		
HD112B3AAA	112B	05/20/2002	SOIL GRID	0.00	0.25		
HD112B3BAA	112B	05/20/2002	SOIL GRID	0.25	0.50		
HD112B3CAA	112B	05/20/2002	SOIL GRID	0.50	1.00		
HD112B5AAA	112B	05/20/2002	SOIL GRID	0.00	0.25		
HD112B5BAA	112B	05/20/2002	SOIL GRID	0.25	0.50		
HD112B5CAA	112B	05/20/2002	SOIL GRID	0.50	1.00		
HD112B7AAA	112B	05/20/2002	SOIL GRID	0.00	0.25		
HD112B7BAA	112B	05/20/2002	SOIL GRID	0.25	0.50		
HD112B7CAA	112B	05/20/2002	SOIL GRID	0.50	1.00		
HD112B7CAD	112B	05/20/2002	SOIL GRID	0.50	1.00		
HD118A1AAA	118A	05/21/2002	SOIL GRID	0.00	0.25		
HD118A3AAA	118A	05/21/2002	SOIL GRID	0.00	0.25		
HD118A5AAA	118A	05/21/2002	SOIL GRID	0.00	0.25		
HD118A7AAA	118A	05/21/2002	SOIL GRID	0.00	0.25		
HD118B1AAA	118B	05/21/2002	SOIL GRID	0.00	0.25		
HD118B3AAA	118B	05/21/2002	SOIL GRID	0.00	0.25		
HD118B5AAA	118B	05/21/2002	SOIL GRID	0.00	0.25		
HD118B7AAA	118B	05/21/2002	SOIL GRID	0.00	0.25		
HD118B7AAD	118B	05/21/2002	SOIL GRID	0.00	0.25		
HD121A1AAA	121A	05/20/2002	SOIL GRID	0.00	0.25		

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TABLE 2
SAMPLING PROGRESS
05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD121A1BAA	121A	05/20/2002	SOIL GRID	0.25	0.50		
HD121A1CAA	121A	05/20/2002	SOIL GRID	0.50	1.00		
HD121A3AAA	121A	05/20/2002	SOIL GRID	0.00	0.25		
HD121A3BAA	121A	05/20/2002	SOIL GRID	0.25	0.50		
HD121A3CAA	121A	05/20/2002	SOIL GRID	0.50	1.00		
HD121A5AAA	121A	05/20/2002	SOIL GRID	0.00	0.25		
HD121A5BAA	121A	05/20/2002	SOIL GRID	0.25	0.50		
HD121A5CAA	121A	05/20/2002	SOIL GRID	0.50	1.00		
HD121A7AAA	121A	05/20/2002	SOIL GRID	0.00	0.25		
HD121A7BAA	121A	05/20/2002	SOIL GRID	0.25	0.50		
HD121A7CAA	121A	05/20/2002	SOIL GRID	0.50	1.00		
HD121A7CAD	121A	05/20/2002	SOIL GRID	0.50	1.00		
HD121B1AAA	121B	05/20/2002	SOIL GRID	0.00	0.25		
HD121B1BAA	121B	05/20/2002	SOIL GRID	0.25	0.50		
HD121B1CAA	121B	05/20/2002	SOIL GRID	0.50	1.00		
HD121B3AAA	121B	05/20/2002	SOIL GRID	0.00	0.25		
HD121B3BAA	121B	05/20/2002	SOIL GRID	0.25	0.50		
HD121B3CAA	121B	05/20/2002	SOIL GRID	0.50	1.00		
HD121B5AAA	121B	05/20/2002	SOIL GRID	0.00	0.25		
HD121B5BAA	121B	05/20/2002	SOIL GRID	0.25	0.50		
HD121B5CAA	121B	05/20/2002	SOIL GRID	0.50	1.00		
HD121B7AAA	121B	05/20/2002	SOIL GRID	0.00	0.25		
HD121B7BAA	121B	05/20/2002	SOIL GRID	0.25	0.50		
HD121B7CAA	121B	05/20/2002	SOIL GRID	0.50	1.00		
HD121B7CAD	121B	05/20/2002	SOIL GRID	0.50	1.00		
HD177A1AAA	177A	05/22/2002	SOIL GRID	0.00	0.25		
HD177A1BAA	177A	05/22/2002	SOIL GRID	0.25	0.50		
HD177A1CAA	177A	05/22/2002	SOIL GRID	0.50	1.00		
HD177A3AAA	177A	05/22/2002	SOIL GRID	0.00	0.25		
HD177A3BAA	177A	05/22/2002	SOIL GRID	0.25	0.50		
HD177A3CAA	177A	05/22/2002	SOIL GRID	0.50	1.00		
HD177A5AAA	177A	05/22/2002	SOIL GRID	0.00	0.25		
HD177A5BAA	177A	05/22/2002	SOIL GRID	0.25	0.50		
HD177A5CAA	177A	05/22/2002	SOIL GRID	0.50	1.00		
HD177A7AAA	177A	05/22/2002	SOIL GRID	0.00	0.25		
HD177A7BAA	177A	05/22/2002	SOIL GRID	0.25	0.50		
HD177A7CAA	177A	05/22/2002	SOIL GRID	0.50	1.00		
HD177B1AAA	177B	05/22/2002	SOIL GRID	0.00	0.25		
HD177B1BAA	177B	05/22/2002	SOIL GRID	0.25	0.50		
HD177B1CAA	177B	05/22/2002	SOIL GRID	0.50	1.00		
HD177B3AAA	177B	05/22/2002	SOIL GRID	0.00	0.25		

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TABLE 2
SAMPLING PROGRESS
05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD177B3BAA	177B	05/22/2002	SOIL GRID	0.25	0.50		
HD177B3CAA	177B	05/22/2002	SOIL GRID	0.50	1.00		
HD177B5AAA	177B	05/22/2002	SOIL GRID	0.00	0.25		
HD177B5BAA	177B	05/22/2002	SOIL GRID	0.25	0.50		
HD177B5CAA	177B	05/22/2002	SOIL GRID	0.50	1.00		
HD177B7AAA	177B	05/22/2002	SOIL GRID	0.00	0.25		
HD177B7BAA	177B	05/22/2002	SOIL GRID	0.25	0.50		
HD177B7CAA	177B	05/22/2002	SOIL GRID	0.50	1.00		
HD177B7CAD	177B	05/22/2002	SOIL GRID	0.50	1.00		
HD177NA11AAA	177NA	05/22/2002	SOIL GRID	0.00	0.25		
HD177NA11BAA	177NA	05/22/2002	SOIL GRID	0.25	0.50		
HD177NA11CAA	177NA	05/22/2002	SOIL GRID	0.50	1.00		
HD177NA9AAA	177NA	05/22/2002	SOIL GRID	0.00	0.25		
HD177NA9BAA	177NA	05/22/2002	SOIL GRID	0.25	0.50		
HD177NA9CAA	177NA	05/22/2002	SOIL GRID	0.50	1.00		
HD177NB11AAA	177NB	05/22/2002	SOIL GRID	0.00	0.25		
HD177NB11BAA	177NB	05/22/2002	SOIL GRID	0.25	0.50		
HD177NB11CAA	177NB	05/22/2002	SOIL GRID	0.50	1.00		
HD177NB11CAD	177NB	05/22/2002	SOIL GRID	0.50	1.00		
HD177NB9AAA	177NB	05/22/2002	SOIL GRID	0.00	0.25		
HD177NB9BAA	177NB	05/22/2002	SOIL GRID	0.25	0.50		
HD177NB9CAA	177NB	05/22/2002	SOIL GRID	0.50	1.00		
HD177SA14AAA	177SA	05/22/2002	SOIL GRID	0.00	0.25		
HD177SA14BAA	177SA	05/22/2002	SOIL GRID	0.25	0.50		
HD177SA14CAA	177SA	05/22/2002	SOIL GRID	0.50	1.00		
HD177SA16AAA	177SA	05/22/2002	SOIL GRID	0.00	0.25		
HD177SA16BAA	177SA	05/22/2002	SOIL GRID	0.25	0.50		
HD177SA16CAA	177SA	05/22/2002	SOIL GRID	0.50	1.00		
HD177SA16CAD	177SA	05/22/2002	SOIL GRID	0.50	1.00		
HD177SB14AAA	177SB	05/23/2002	SOIL GRID	0.00	0.25		
HD177SB14BAA	177SB	05/23/2002	SOIL GRID	0.25	0.50		
HD177SB14CAA	177SB	05/23/2002	SOIL GRID	0.25	0.50		
HD177SB16AAA	177SB	05/23/2002	SOIL GRID	0.00	0.25		
HD177SB16BAA	177SB	05/23/2002	SOIL GRID	0.25	0.50		
HD177SB16CAA	177SB	05/23/2002	SOIL GRID	0.25	0.50		
HD178A1AAA	178A	05/23/2002	SOIL GRID	0.00	0.25		
HD178A1BAA	178A	05/23/2002	SOIL GRID	0.25	0.50		
HD178A1CAA	178A	05/23/2002	SOIL GRID	0.50	1.00		
HD178A3AAA	178A	05/23/2002	SOIL GRID	0.00	0.25		
HD178A3BAA	178A	05/23/2002	SOIL GRID	0.25	0.50		
HD178A3CAA	178A	05/23/2002	SOIL GRID	0.50	1.00		

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TABLE 2
SAMPLING PROGRESS
05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD178A5AAA	178A	05/23/2002	SOIL GRID	0.00	0.25		
HD178A5BAA	178A	05/23/2002	SOIL GRID	0.25	0.50		
HD178A5CAA	178A	05/23/2002	SOIL GRID	0.50	1.00		
HD178A7AAA	178A	05/23/2002	SOIL GRID	0.00	0.25		
HD178A7BAA	178A	05/23/2002	SOIL GRID	0.25	0.50		
HD178A7CAA	178A	05/23/2002	SOIL GRID	0.50	1.00		
HD178B1AAA	178B	05/23/2002	SOIL GRID	0.00	0.25		
HD178B1BAA	178B	05/23/2002	SOIL GRID	0.25	0.50		
HD178B1CAA	178B	05/23/2002	SOIL GRID	0.50	1.00		
HD178B3AAA	178B	05/23/2002	SOIL GRID	0.00	0.25		
HD178B3BAA	178B	05/23/2002	SOIL GRID	0.25	0.50		
HD178B3CAA	178B	05/23/2002	SOIL GRID	0.50	1.00		
HD178B5AAA	178B	05/23/2002	SOIL GRID	0.00	0.25		
HD178B5BAA	178B	05/23/2002	SOIL GRID	0.25	0.50		
HD178B5CAA	178B	05/23/2002	SOIL GRID	0.50	1.00		
HD178B7AAA	178B	05/23/2002	SOIL GRID	0.00	0.25		
HD178B7BAA	178B	05/23/2002	SOIL GRID	0.25	0.50		
HD178B7CAA	178B	05/23/2002	SOIL GRID	0.50	1.00		
HD178B7CAD	178B	05/23/2002	SOIL GRID	0.50	1.00		
HD178NA11AAA	178NA	05/23/2002	SOIL GRID	0.00	0.25		
HD178NA11BAA	178NA	05/23/2002	SOIL GRID	0.25	0.50		
HD178NA11CAA	178NA	05/23/2002	SOIL GRID	0.50	1.00		
HD178NA9AAA	178NA	05/23/2002	SOIL GRID	0.00	0.25		
HD178NA9BAA	178NA	05/23/2002	SOIL GRID	0.25	0.50		
HD178NA9CAA	178NA	05/23/2002	SOIL GRID	0.50	1.00		
HD178NB11AAA	178NB	05/23/2002	SOIL GRID	0.00	0.25		
HD178NB11BAA	178NB	05/23/2002	SOIL GRID	0.25	0.50		
HD178NB11CAA	178NB	05/23/2002	SOIL GRID	0.50	1.00		
HD178NB11CAD	178NB	05/23/2002	SOIL GRID	0.50	1.00		
HD178NB9AAA	178NB	05/23/2002	SOIL GRID	0.00	0.25		
HD178NB9BAA	178NB	05/23/2002	SOIL GRID	0.25	0.50		
HD178NB9CAA	178NB	05/23/2002	SOIL GRID	0.50	1.00		
HD179A1AAA	179A	05/21/2002	SOIL GRID	0.00	0.25		
HD179A1BAA	179A	05/21/2002	SOIL GRID	0.25	0.50		
HD179A1CAA	179A	05/21/2002	SOIL GRID	0.50	1.00		
HD179A3AAA	179A	05/21/2002	SOIL GRID	0.00	0.25		
HD179A3BAA	179A	05/21/2002	SOIL GRID	0.25	0.50		
HD179A3CAA	179A	05/21/2002	SOIL GRID	0.50	1.00		
HD179A5AAA	179A	05/21/2002	SOIL GRID	0.00	0.25		
HD179A5BAA	179A	05/21/2002	SOIL GRID	0.25	0.50		
HD179A5CAA	179A	05/21/2002	SOIL GRID	0.50	1.00		

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TABLE 2
SAMPLING PROGRESS
05/18/2002 - 05/24/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD179A7AAA	179A	05/21/2002	SOIL GRID	0.00	0.25		
HD179A7BAA	179A	05/21/2002	SOIL GRID	0.25	0.50		
HD179A7CAA	179A	05/21/2002	SOIL GRID	0.50	1.00		
HD179B1AAA	179B	05/21/2002	SOIL GRID	0.00	0.25		
HD179B1BAA	179B	05/21/2002	SOIL GRID	0.25	0.50		
HD179B1CAA	179B	05/21/2002	SOIL GRID	0.50	1.00		
HD179B3AAA	179B	05/21/2002	SOIL GRID	0.00	0.25		
HD179B3BAA	179B	05/21/2002	SOIL GRID	0.25	0.50		
HD179B3CAA	179B	05/21/2002	SOIL GRID	0.50	1.00		
HD179B5AAA	179B	05/21/2002	SOIL GRID	0.00	0.25		
HD179B5BAA	179B	05/21/2002	SOIL GRID	0.25	0.50		
HD179B5CAA	179B	05/21/2002	SOIL GRID	0.50	1.00		
HD179B7AAA	179B	05/21/2002	SOIL GRID	0.00	0.25		
HD179B7BAA	179B	05/21/2002	SOIL GRID	0.25	0.50		
HD179B7CAA	179B	05/21/2002	SOIL GRID	0.50	1.00		
HD179B7CAD	179B	05/21/2002	SOIL GRID	0.50	1.00		
J2.F.T10.XC1.1.0	Target 10 Excavation 1	05/23/2002	SOIL GRID	0.00	5.00		
J2.F.T10.XC1.2.0	Target 10 Excavation 1	05/23/2002	SOIL GRID	4.75	5.00		
J2.F.T6D.XC1.1.0	Target 6D Excavation 1	05/17/2002	SOIL GRID	0.00	7.00		
J2.F.T6D.XC1.2.0	Target 6D Excavation 1	05/17/2002	SOIL GRID	6.75	7.00		
LKSNK0005AAA	LKSNK005	05/22/2002	SURFACEWATER				
LKSNK0007AAA	LKSNK007	05/22/2002	SURFACEWATER				

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 05/04/02 - 05/24/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
4036000-01G	4036000-01G	05/22/2002	GROUNDWATER					OC21V	1,2,4-TRICHLOROBENZENE	
4036000-01G	4036000-01G	05/22/2002	GROUNDWATER					OC21V	CHLOROFORM	
4036000-03G	4036000-03G	05/22/2002	GROUNDWATER					OC21V	CHLOROFORM	
4036000-03GD	4036000-03G	05/22/2002	GROUNDWATER					OC21V	CHLOROFORM	
4036000-04G	4036000-04G	05/22/2002	GROUNDWATER					OC21V	CHLOROFORM	
4036000-04G	4036000-04G	05/22/2002	GROUNDWATER					OC21V	TETRACHLOROETHYLENE(PCE)	
4036000-06G	4036000-06G	05/22/2002	GROUNDWATER					OC21V	CHLOROFORM	
W112M1A	MW-112	05/13/2002	GROUNDWATER	195.00	205.00	56.00	66.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W112M2A	MW-112	05/13/2002	GROUNDWATER	165.00	175.00	26.00	36.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W135M2A	MW-135	05/07/2002	GROUNDWATER	280.00	290.00	94.00	104.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W38M3A	MW-38	05/13/2002	GROUNDWATER	170.00	180.00	52.00	62.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W38M4A	MW-38	05/13/2002	GROUNDWATER	132.00	142.00	14.00	24.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W86M2A	MW-86	05/16/2002	GROUNDWATER	158.00	168.00	16.00	26.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W87M1A	MW-87	05/17/2002	GROUNDWATER	194.00	204.00	62.00	72.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W87M1A	MW-87	05/17/2002	GROUNDWATER	194.00	204.00	62.00	72.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR(	YES
W87M2A	MW-87	05/17/2002	GROUNDWATER	169.00	179.00	37.00	47.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W88M2A	MW-88	05/17/2002	GROUNDWATER	213.00	223.00	72.00	82.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W88M2A	MW-88	05/17/2002	GROUNDWATER	213.00	223.00	72.00	82.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR(	YES
W89M1A	MW-89	05/17/2002	GROUNDWATER	234.00	244.00	92.00	102.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W89M2A	MW-89	05/17/2002	GROUNDWATER	214.00	224.00	72.00	82.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W89M2A	MW-89	05/17/2002	GROUNDWATER	214.00	224.00	72.00	82.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR(	YES
W89M3A	MW-89	05/17/2002	GROUNDWATER	174.00	184.00	32.00	42.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed
* = Interference in sample