WEEKLY PROGRESS UPDATE
FOR JUNE 18 – JUNE 22, 2001

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 June 18 to June 22, 2001.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of June 22 is summarized in Table 1.

Table 1. Drilling progress as of June 22, 2001

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-173	Demo 1 Area well (D1P-6)	340	207	

Bgs = below ground surface
Bwt = below water table

Completed drilling of MW-173 (D1P-6). Commenced well installation. Intrusive clearance was completed at Mortar Target 9 as part of the RRA.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected for MW-173. Groundwater sampling for the May 2001 Long Term Monitoring was completed with the exception of one well in the HUTA exclusion zone. Groundwater sampling was also continued for the first round of newly installed wells (including the MW-170 at the former K Range and MW-172 at Demo Area 1). Raccoon Lane well, 90PZ0211, was also sampled. Surface water samples were collected from the north cove of Snake Pond. A base-wide synoptic water level round was conducted. As part of the Rapid Response Action, post-detonation samples were collected at Mortar Target 9. Additional delineation soil sampling commenced at Mortar Target 9.

Pre- and post-detonation samples were collected in the HUTA. As part of the HUTA investigation, soil and wipe samples were collected from debris in Test Pit 3 and soil samples were also collected from the Test Pit 3 area.

The Guard, EPA, and MADEP had a meeting on June 21 to discuss technical issues, including the following:

Attendees

Dave Hill (IAGWSPO)	Bill Gallagher (IAGWSPO)	Karen Wilson (IAGWSPO)
Mike Jasinski (EPA)	Jane Dolan (EPA)	Len Pinaud (MADEP)
Mark Panni (MADEP)	Heather Sullivan (ACE)	John MacPherson (ACE)
Ed Wise (ACE)	Ellen Iorio (ACE)	Marc Grant (AMEC - phone)
Ben Rice (AMEC)	John Rice (AMEC)	Herb Colby (AMEC - phone)
Doug Lamb (Tetra Tech)	Raye Lahti (Tetra Tech - phone)	Dave Del Marco (Jacobs)
Erik Liljegren (Jacobs)	Bill Motsko (Guild Communications)	LTC Will Tyminski (JPO)
Deirdre DeBaggis (CH_2MHill)	LTC Bill Fitzpatrick (MAARNG)	Dave Williams (MDPH)

Mortar Target 9 Status Update

- Mike Jasinski (EPA) reminded the Guard that the EPA was expecting a response to their 30-May-01 letter by 28-Jul-01.
- Ben Rice (AMEC) indicated that intrusive clearance was completed on Wednesday (20-Jun-01). BIPs are to be conducted today and possibly tomorrow on as many as 10 potentially live rounds discovered during intrusive clearance. Soil sampling will begin immediately after the BIPs are complete. Mr. Rice stated that AMEC samplers will work through the weekend to complete the task by Monday.
- Len Pinaud (MADEP) wanted to know how Hanni Dinkeloo concerns were being addressed. DEP suggested getting the results of the soil sampling and then having a meeting with Ms. Dinkeloo before the soil removal. With sampling complete on Monday and a five-day turn on laboratory analysis, the PDA-confirmed explosive results should be available by 10-Jul-01. Karen Wilson (IAGWSPO) agreed to contact Ms. Dinkeloo directly to discuss her concerns and planning. Mr. Pinaud requested that Ms. Dinkeloo be added to the recipient list for soil results.

Munitions Survey Update

- Ellen Iorio (ACE) indicated that a request for proposal has been submitted to Tetra Tech for conducting additional geophysical surveys at Phase 2 sites (Demo 2, Former A Range, Former K Range, and Succonsette Pond) and Demo 1, the ASP, and HUTA 1. Todd Borci (EPA) has reviewed and commented on the draft scopes of work for the Phase 2 sites and would like to review finalized scopes. The EPA requested to review the draft scopes of work for the Current Ammo Supply Point and the J-1 Range 150m/1000m Berm Area. The EPA will not require that the Phase 2 geophysical survey results be included in the revised version of the Draft Munitions Survey Report.
- Todd Borci (EPA) indicated that some recommendations were removed from the draft plan that were not agreed to in the resolution meeting. EPA indicated that this is unacceptable and wanted to know who requested that they be removed
- Demo 1 survey will be schedule once ACE receives and approves Tetra Tech's proposal. A proposal for additional work at the J-1 Range has not been received (will be part of Phase 2 Munitions Survey). Todd Borci (EPA) requested that the EM31 historical bottom survey be added to the punchlist.

Post Detonation Blow in Place Sampling Discussion

- Bill Gallagher (IAGWSPO) presented a description of the procedural requirements of post-BIP sampling. Todd Borci (EPA) inquired as to why post-BIP samples collected since July 2000 have not exhibited any detectable concentrations of explosives. John Rice (AMEC) believes this may be attributed to a more effective detonation of the perforators because of a change in detonation cord use by EOD personnel (80-grain versus 50-grain).
- Todd Borci (EPA) would like the Guard to include pre-BIP soil sampling in future BIP sampling procedures and to consider downwind deposition of airborne particles. The Guard agreed to propose a revised sampling approach for discussion at the next tech meeting.
- Marc Grant (AMEC) indicated that reports for BIP conducted after July 2000 have been on hold because of the complexity of clearly presenting the results due to the large number of rounds and multiple contractor participants.

Discussion of Phase IIb Soil Data

- Preliminary explosives data for soil samples collected at Phase IIb site GA/GB Ranges and Cleared Areas was present by John Rice (AMEC). A single PDA-confirmed explosive compound was detected in a soil sample collected from Cleared Area 1.

- Todd Borci (EPA) asked about the results for other parameters. Mr. Rice indicated that they are available and offered to provide upon request.

J-Range Response Plan

- Herb Colby (AMEC) provided an update on the status of J-Range activities. All J-Range Final Work Plan soils have been collected with the exception of the soil boring planned for the J3 Range melt-pour facility and the J-1 Range mound sample. The boring will be drilled with others site borings to be drilled using an auger rig when the drill rig is mobilized.
- Jane Dolan (EPA) would like an update of the analytical results for the J1/3/L Ranges.
- EPA asked the status of the additional soil sampling in the J-2 Range. AMEC indicated that it will begin once the SOW is approved and funded.
- EPA requested and update on the PCN sampling – this subject needs to be a punchlist item.
- Dave Hill (IAGWSPO) reported that the methodology for testing the diffusion samplers continues to be developed. A cost proposal from USGS is expected by next week.
- The three surface water samples from the northern cove will be collected this week. The location of the biweekly surface water samples at the northern end of Snake Pond will be provided.

Other Issues

- Todd Borci (EPA) indicated that he had not seen a response to his 26-Mar-01 letter to COL Bailey regarding the gun position DNT response plan. He was also interested in whether training activities had begun for the season and if a schedule was available. Bill Gallagher (IAGWSPO) agreed to follow up on obtaining a training schedule. LTC David Cunha has replaced COL Bailey as base CO.
- The original due date for the J1/J3/L Range Additional Delineation Workplan comments (22-Jun-01) has been changed to 27-Jun-01. The new due date for the CDC Report comments is 09-Jul-01.
- An additional Demo 1 Area well, (D1P-7) location was discussed. Todd Borci (EPA) would like to consider the region 100 to 200 feet north and south of D1P6 (MW-173) along Pew Road. Mr. Borci requested that a proposed location be presented at the next tech meeting.
- Karen Wilson (IAGWSPO) will visit current CIAP-2 location on Goat Pasture Road to assess sensitivity of habitat there. It was recommended an alternative location on Spruce Swamp Road to the west of this site be considered given that it will require less vegetation removal. John Rice (AMEC) will coordinate with Ms. Wilson should she recommend moving CIAP-2.

Agenda Items for next Tech Meeting

- HUTA 1 backfill
- J3 Range Response
- Target 9 Soil Removal Procedures
- Target 9 Soil Disposal Options
- IART Action Items
- Update on Site Visits
- BIP Sampling Procedures
- Training Range Use - Schedule
- Scoping MSP workplan
- RECs List/Status
- Punchlist Items
- D1P7 Location

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 VOC analyses for groundwater profile samples, are conducted in this timeframe. 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 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. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 3 includes the following detections:

- Groundwater samples collected from MW-136S (J-1 Range 1000m berm) had detections of RDX and HMX that were verified by PDA spectra. The previous round of sampling had similar detections.

- Groundwater samples collected from MW-143M1 (J-3 Range on Greenway Road) had a detection of RDX that was verified by PDA spectra. The previous round of sampling had a similar detection.

- Groundwater samples collected from MW-143M2 (J-3 Range on Greenway Road) had a detection of HMX that was verified by PDA spectra. Both HMX and RDX were detected in the previous sampling round.

- The groundwater profile samples from MW-173 had detections of nitroglycerin (20 intervals), PETN (6 intervals), RDX (16 intervals), 1,3-DNB (1 interval), 3-nitrotoluene (2 intervals), 4-nitrotoluene (1 interval), picric acid (5 intervals), 4A-DNT (5 intervals), 2,6-DNT (1 interval), and 2,4-DANT (17 intervals). The 2,4-DANT detections, 2,6-DNT detection and one RDX detection were verified by PDA.

3. DELIVERABLES SUBMITTED

Final J-2 Range Additional Delineation Work Plan	6/18/01
Weekly Progress Update, June 4 – June 8, 2001	6/19/01
Draft Demo 1 Area Soil Development and Initial Screening of Alternatives Report (Tech Memo 01-12)	6/21/01
Weekly Progress Update, June 11 – June 15, 2001	6/22/01

4. SCHEDULED ACTIONS

Scheduled actions for the week of June 25 include commence drilling of SAR-1 (MW-174), continue development of newly installed wells and continue sampling the 1st through 4th rounds of newly installed wells. Additional delineation sampling will be conducted at Mortar Target 9.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The Draft Soil Screening of Alternatives Report (Tech Memo 01-12) was submitted. Additional downgradient well location, MW-173, was drilled and will be completed next week. An additional downgradient well location (D1P-7) was considered and will be proposed at the June 28th Tech meeting. Analysis of first and second round groundwater samples from newly installed wells is ongoing.

TABLE 2
SAMPLING PROGRESS
6/16/2001-6/22/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
3.A.1.00982.1.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.10.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.2.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.3.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.4.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.5.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.6.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.7.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.8.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00982.9.0	A.1.00982.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.1.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.10.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.2.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.3.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.4.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.5.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.6.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.7.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.8.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00987.9.0	A.1.00987.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.1.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.10.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.2.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.3.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.4.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.5.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.6.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.7.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.8.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
3.A.1.00988.9.0	A.1.00988.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.1.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.10.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.2.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.3.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.4.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.5.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.6.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.7.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.8.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
5.A.1.00993.9.0	A.1.00993.R	06/21/2001	CRATER GRID	1.50	1.75		
0.G.0.00040.0.E	RINSATE 40(AUGER	06/20/2001	FIELDQC	0.00	0.00		
0.G.0.00041.0.E	RINSATE 41(AUGER	06/20/2001	FIELDQC	0.00	0.00		
0.G.0.00095.0.T	TRIP BLANK 95	06/19/2001	FIELDQC	0.00	0.00		

Profiling methods include: Volatiles and Explosives
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
BWTE = Depth below water table, end depth, measured in feet

TABLE 2
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6/16/2001-6/22/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
0.G.0.00096.0.T	TRIP BLANK 96	06/19/2001	FIELDQC	0.00	0.00		
0.G.0.00097.0.T	TRIP BLANK 97	06/20/2001	FIELDQC	0.00	0.00		
0.G.0.00098.0.T	TRIP BLANK 98	06/21/2001	FIELDQC	0.00	0.00		
3.F.0.00010.2.D	Test Plot 3 Lift 2 Grid	06/19/2001	FIELDQC	3.00	6.00		
58MW0007BE	FIELDQC	06/16/2001	FIELDQC	0.00	0.00		
90PZ0211E	FIELDQC	06/20/2001	FIELDQC	0.00	0.00		
G173DIE	FIELDQC	06/18/2001	FIELDQC	0.00	0.00		
G173DME	FIELDQC	06/19/2001	FIELDQC	0.00	0.00		
G173DSE	FIELDQC	06/20/2001	FIELDQC	0.00	0.00		
HC87FA1AAE	FIELDQC	06/22/2001	FIELDQC	0.00	0.00		
HC87FA1AAF	FIELDQC	06/22/2001	FIELDQC	0.00	0.00		
W114M1T	FIELDQC	06/19/2001	FIELDQC	0.00	0.00		
W145M1T	FIELDQC	06/20/2001	FIELDQC	0.00	0.00		
W148M1T	FIELDQC	06/18/2001	FIELDQC	0.00	0.00		
W172M3T	FIELDQC	06/21/2001	FIELDQC	0.00	0.00		
3.D.1.00983.2.0	D.1.00983.O	06/20/2001	GAUZE WIPE	0.50	0.75		
3.D.1.00983.3.0	D.1.00983.O	06/20/2001	GAUZE WIPE	0.50	0.75		
58MW0007B	58MW0006E	06/16/2001	GROUNDWATER	187.70	192.70	49.00	54.00
90PZ0211	90PZ0211	06/20/2001	GROUNDWATER	80.00	110.00	73.66	103.66
W114M1A	MW-114	06/18/2001	GROUNDWATER	177.00	187.00	94.80	104.80
W114M2A	MW-114	06/19/2001	GROUNDWATER	120.00	130.00	37.80	47.80
W129M1A	MW-129	06/19/2001	GROUNDWATER	136.00	146.00	64.20	74.20
W129M1A	MW-129	06/20/2001	GROUNDWATER	136.00	146.00	64.20	74.20
W129M2A	MW-129	06/20/2001	GROUNDWATER	116.00	126.00	44.25	54.25
W129M3A	MW-129	06/20/2001	GROUNDWATER	96.00	106.00	24.20	34.20
W129M3D	MW-129	06/20/2001	GROUNDWATER	96.00	106.00	24.20	34.20
W131M1A	MW-131	06/18/2001	GROUNDWATER	300.00	310.00	201.84	211.84
W139M1A	MW-139	06/20/2001	GROUNDWATER	194.00	204.00	109.05	119.05
W139M2A	MW-139	06/20/2001	GROUNDWATER	154.00	164.00	68.96	78.96
W139M3A	MW-139	06/20/2001	GROUNDWATER	119.00	129.00	33.99	43.99
W140M1A	MW-140	06/21/2001	GROUNDWATER	107.00	117.00	16.02	26.02
W144M2A	MW-144	06/18/2001	GROUNDWATER	130.00	140.00	5.80	15.80
W144SSA	MW-144	06/18/2001	GROUNDWATER	26.00	36.00	1.80	11.80
W145M1A	MW-145	06/19/2001	GROUNDWATER	30.00	40.00	0.00	10.00
W145M1A	MW-145	06/19/2001	GROUNDWATER	125.00	135.00	94.50	104.50
W145M1A	MW-146	06/19/2001	GROUNDWATER	125.00	132.00	94.50	104.50
W145SSA	MW-145	06/20/2001	GROUNDWATER	30.00	40.00	0.00	10.00
W146M1A	MW-146	06/19/2001	GROUNDWATER	166.00	171.00	71.80	76.80
W146SSA	MW-146	06/19/2001	GROUNDWATER	92.00	102.00	0.00	10.00
W146SSD	MW-146	06/19/2001	GROUNDWATER	92.00	102.00	0.00	10.00
W147M1A	MW-147	06/19/2001	GROUNDWATER	167.00	177.00	91.12	101.12
W147M2A	MW-147	06/19/2001	GROUNDWATER	150.00	160.00	74.10	84.10
W147M3A	MW-147	06/19/2001	GROUNDWATER	82.00	92.00	6.06	16.06
W148M1A	MW-148	06/18/2001	GROUNDWATER	90.00	100.00	26.39	36.39

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OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W149SSA	MW-149	06/21/2001	GROUNDWATER	105.00	115.00	0.00	10.00
W170M1A	MW-170	06/21/2001	GROUNDWATER	265.00	275.00	157.70	167.70
W170M3A	MW-170	06/21/2001	GROUNDWATER	123.00	133.00	15.70	25.70
W172M1A	MW-172	06/21/2001	GROUNDWATER	199.00	209.00	134.56	144.56
W172M2A	MW-172	06/21/2001	GROUNDWATER	169.00	179.00	104.58	114.58
W172M3A	MW-172	06/21/2001	GROUNDWATER	109.00	119.00	44.54	54.54
W19SSA	MW-19	06/18/2001	GROUNDWATER	38.00	48.00	0.00	10.00
W85M1A	MW-85	06/16/2001	GROUNDWATER	137.50	147.50	18.20	28.20
W85SSA	MW-85	06/16/2001	GROUNDWATER	116.00	126.00	0.00	10.00
G173DIA	MW-173	06/18/2001	PROFILE	220.00	220.00	86.60	86.60
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60
G173DLA	MW-173	06/18/2001	PROFILE	250.00	250.00	116.60	116.60
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60
G173DNA	MW-173	06/19/2001	PROFILE	270.00	270.00	136.60	136.60
G173DOA	MW-173	06/19/2001	PROFILE	280.00	280.00	146.60	146.60
G173DPA	MW-173	06/19/2001	PROFILE	290.00	290.00	156.60	156.60
G173DQA	MW-173	06/19/2001	PROFILE	300.00	300.00	166.60	166.60
G173DRA	MW-173	06/19/2001	PROFILE	310.00	310.00	176.60	176.60
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60
G173DTA	MW-173	06/20/2001	PROFILE	330.00	330.00	196.60	196.60
G173DUA	MW-173	06/20/2001	PROFILE	340.00	340.00	206.60	206.60
3.D.1.00983.1.0	D.1.00983.O	06/20/2001	SOIL BRUSHING	0.50	0.75		
3.F.0.00001.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00002.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00003.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00004.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00005.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00006.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00007.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00008.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00009.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00010.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00011.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00012.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00013.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
3.F.0.00014.2.0	Test Plot 3 Lift 2 Grid	06/19/2001	SOIL GRID	3.00	6.00		
HC87FA1AAA	87FA	06/22/2001	SOIL GRID				
HC87FA1BAA	87FA	06/22/2001	SOIL GRID				
HC87FA1CAA	87FA	06/22/2001	SOIL GRID				
HC87FA1DAA	87FA	06/22/2001	SOIL GRID				
HC87FB1AAA	87FB	06/22/2001	SOIL GRID				
HC87FB1BAA	87FB	06/22/2001	SOIL GRID				
HC87FB1BAD	87FB	06/22/2001	SOIL GRID				
HC87FB1CAA	87FB	06/22/2001	SOIL GRID				

Profiling methods include: Volatiles and Explosives
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
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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
6/16/2001-6/22/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC87FB1DAA	87FB	06/22/2001	SOIL GRID				
HC87FC1AAA	87FC	06/22/2001	SOIL GRID				
HC87FC1BAA	87FC	06/22/2001	SOIL GRID				
HC87FC1BAD	87FC	06/22/2001	SOIL GRID				
HC87FC1CAA	87FC	06/22/2001	SOIL GRID				
HC87FD1AAA	87FD	06/22/2001	SOIL GRID				
HD87FA1AAA	87FA	06/22/2001	SOIL GRID				
HD87FA1BAA	87FA	06/22/2001	SOIL GRID				
HD87FA1CAA	87FA	06/22/2001	SOIL GRID				
HD87FA1DAA	87FA	06/22/2001	SOIL GRID				
HD87FA2AAA	87FA	06/22/2001	SOIL GRID				
HD87FA2BAA	87FA	06/22/2001	SOIL GRID				
HD87FA2CAA	87FA	06/22/2001	SOIL GRID				
HD87FA2DAA	87FA	06/22/2001	SOIL GRID				
HD87FA3AAA	87FA	06/22/2001	SOIL GRID				
HD87FA3BAA	87FA	06/22/2001	SOIL GRID				
HD87FA3CAA	87FA	06/22/2001	SOIL GRID				
HD87FA3DAA	87FA	06/22/2001	SOIL GRID				
HD87FA4AAA	87FA	06/22/2001	SOIL GRID				
HD87FA4BAA	87FA	06/22/2001	SOIL GRID				
HD87FA4CAA	87FA	06/22/2001	SOIL GRID				
HD87FA4DAA	87FA	06/22/2001	SOIL GRID				
HD87FA5AAA	87FA	06/22/2001	SOIL GRID				
HD87FA5BAA	87FA	06/22/2001	SOIL GRID				
HD87FA5CAA	87FA	06/22/2001	SOIL GRID				
HD87FA5DAA	87FA	06/22/2001	SOIL GRID				
HD87FB1AAA	87FB	06/22/2001	SOIL GRID				
HD87FB1BAA	87FB	06/22/2001	SOIL GRID				
HD87FB1CAA	87FB	06/22/2001	SOIL GRID				
HD87FB1DAA	87FB	06/22/2001	SOIL GRID				
HD87FB2AAA	87FB	06/22/2001	SOIL GRID				
HD87FB2BAA	87FB	06/22/2001	SOIL GRID				
HD87FB2CAA	87FB	06/22/2001	SOIL GRID				
HD87FB2DAA	87FB	06/22/2001	SOIL GRID				
HD87FB3AAA	87FB	06/22/2001	SOIL GRID				
HD87FB3BAA	87FB	06/22/2001	SOIL GRID				
HD87FB3CAA	87FB	06/22/2001	SOIL GRID				
HD87FB3DAA	87FB	06/22/2001	SOIL GRID				
HD87FB4AAA	87FB	06/22/2001	SOIL GRID				
HD87FB4BAA	87FB	06/22/2001	SOIL GRID				
HD87FB4BAD	87FB	06/22/2001	SOIL GRID				
HD87FB4CAA	87FB	06/22/2001	SOIL GRID				
HD87FB4DAA	87FB	06/22/2001	SOIL GRID				
HD87FB5AAA	87FB	06/22/2001	SOIL GRID				

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TABLE 2
SAMPLING PROGRESS
6/16/2001-6/22/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD87FB5AAD	87FB	06/22/2001	SOIL GRID				
HD87FB5BAA	87FB	06/22/2001	SOIL GRID				
HD87FB5CAA	87FB	06/22/2001	SOIL GRID				
HD87FB5DAA	87FB	06/22/2001	SOIL GRID				
HD87FC1AAA	87FC	06/22/2001	SOIL GRID				
HD87FC1BAA	87FC	06/22/2001	SOIL GRID				
HD87FC1CAA	87FC	06/22/2001	SOIL GRID				
HD87FC1DAA	87FC	06/22/2001	SOIL GRID				
HD87FC2AAA	87FC	06/22/2001	SOIL GRID				
HD87FC2BAA	87FC	06/22/2001	SOIL GRID				
HD87FC2CAA	87FC	06/22/2001	SOIL GRID				
HD87FC3AAA	87FC	06/22/2001	SOIL GRID				
HD87FC3BAA	87FC	06/22/2001	SOIL GRID				
HD87FC3CAA	87FC	06/22/2001	SOIL GRID				
HD87FC4AAA	87FC	06/22/2001	SOIL GRID				
HD87FC4BAA	87FC	06/22/2001	SOIL GRID				
HD87FC4BAD	87FC	06/22/2001	SOIL GRID				
HD87FC4CAA	87FC	06/22/2001	SOIL GRID				
HD87FC5AAA	87FC	06/22/2001	SOIL GRID				
HD87FC5AAD	87FC	06/22/2001	SOIL GRID				
HD87FC5BAA	87FC	06/22/2001	SOIL GRID				
HD87FC5CAA	87FC	06/22/2001	SOIL GRID				
HD87FD1AAA	87FD	06/22/2001	SOIL GRID				
HD87FD2AAA	87FD	06/22/2001	SOIL GRID				
HD87FD3AAA	87FD	06/22/2001	SOIL GRID				
HD87FD4AAA	87FD	06/22/2001	SOIL GRID				
HD87FD5AAA	87FD	06/22/2001	SOIL GRID				
HD87FD5AAD	87FD	06/22/2001	SOIL GRID				
LKSNK0001AAA	LKSNK0001	06/21/2001	SURFACE WATER	0.00	0.00		
LKSNK0002AAA	LKSNK0002	06/21/2001	SURFACE WATER	0.00	0.00		
LKSNK0003AAA	LKSNK0003	06/21/2001	SURFACE WATER	0.00	0.00		

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 6/2/01-6/22/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W136SSA	MW-136	06/12/2001	GROUNDWATER	107.00	117.00	0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W136SSA	MW-136	06/12/2001	GROUNDWATER	107.00	117.00	0.00	10.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITI	YES
W143M1A	MW-143	06/13/2001	GROUNDWATER	144.00	154.00	111.10	121.10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W143M2A	MW-143	06/12/2001	GROUNDWATER	117.00	122.00	84.05	89.05	8330N	OCTAHYDRO-1,3,5,7-TETRANITI	YES
G173DAA	MW-173	06/14/2001	PROFILE	140.00	140.00	6.60	6.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DAA	MW-173	06/14/2001	PROFILE	140.00	140.00	6.60	6.60	8330N	3-NITROTOLUENE	NO
G173DAA	MW-173	06/14/2001	PROFILE	140.00	140.00	6.60	6.60	8330N	4-NITROTOLUENE	NO
G173DAA	MW-173	06/14/2001	PROFILE	140.00	140.00	6.60	6.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G173DAA	MW-173	06/14/2001	PROFILE	140.00	140.00	6.60	6.60	8330N	NITROGLYCERIN	NO
G173DBA	MW-173	06/14/2001	PROFILE	150.00	150.00	16.60	16.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DBA	MW-173	06/14/2001	PROFILE	150.00	150.00	16.60	16.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G173DBA	MW-173	06/14/2001	PROFILE	150.00	150.00	16.60	16.60	8330N	NITROGLYCERIN	NO
G173DCA	MW-173	06/14/2001	PROFILE	160.00	160.00	26.60	26.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DCA	MW-173	06/14/2001	PROFILE	160.00	160.00	26.60	26.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G173DCA	MW-173	06/14/2001	PROFILE	160.00	160.00	26.60	26.60	8330N	NITROGLYCERIN	NO
G173DCD	MW-173	06/14/2001	PROFILE	160.00	160.00	26.60	26.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DCD	MW-173	06/14/2001	PROFILE	160.00	160.00	26.60	26.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G173DCD	MW-173	06/14/2001	PROFILE	160.00	160.00	26.60	26.60	8330N	NITROGLYCERIN	NO
G173DDA	MW-173	06/14/2001	PROFILE	170.00	170.00	36.60	36.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DDA	MW-173	06/14/2001	PROFILE	170.00	170.00	36.60	36.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G173DDA	MW-173	06/14/2001	PROFILE	170.00	170.00	36.60	36.60	8330N	NITROGLYCERIN	NO
G173DDA	MW-173	06/14/2001	PROFILE	170.00	170.00	36.60	36.60	8330N	PENTAERYTHRITOL TETRANITR	NO
G173DEA	MW-173	06/15/2001	PROFILE	180.00	180.00	46.60	46.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DEA	MW-173	06/15/2001	PROFILE	180.00	180.00	46.60	46.60	8330N	NITROGLYCERIN	NO
G173DFA	MW-173	06/15/2001	PROFILE	190.00	190.00	56.60	56.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DFA	MW-173	06/15/2001	PROFILE	190.00	190.00	56.60	56.60	8330N	NITROGLYCERIN	NO
G173DFD	MW-173	06/15/2001	PROFILE	190.00	190.00	56.60	56.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DFD	MW-173	06/15/2001	PROFILE	190.00	190.00	56.60	56.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G173DFD	MW-173	06/15/2001	PROFILE	190.00	190.00	56.60	56.60	8330N	NITROGLYCERIN	NO
G173DGA	MW-173	06/15/2001	PROFILE	200.00	200.00	66.60	66.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DGA	MW-173	06/15/2001	PROFILE	200.00	200.00	66.60	66.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G173DGA	MW-173	06/15/2001	PROFILE	200.00	200.00	66.60	66.60	8330N	NITROGLYCERIN	NO
G173DHA	MW-173	06/15/2001	PROFILE	210.00	210.00	76.60	76.60	8330N	NITROGLYCERIN	NO

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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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 6/2/01-6/22/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G173DIA	MW-173	06/18/2001	PROFILE	220.00	220.00	86.60	86.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DIA	MW-173	06/18/2001	PROFILE	220.00	220.00	86.60	86.60	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G173DIA	MW-173	06/18/2001	PROFILE	220.00	220.00	86.60	86.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DIA	MW-173	06/18/2001	PROFILE	220.00	220.00	86.60	86.60	8330N	NITROGLYCERIN	NO
G173DIA	MW-173	06/18/2001	PROFILE	220.00	220.00	86.60	86.60	8330N	PICRIC ACID	NO
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60	8330N	2,6-DINITROTOLUENE	YES
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60	8330N	NITROGLYCERIN	NO
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60	8330N	PENTAERYTHRITOL TETRANITF	NO
G173DKA	MW-173	06/18/2001	PROFILE	240.00	240.00	106.60	106.60	8330N	PICRIC ACID	NO
G173DLA	MW-173	06/18/2001	PROFILE	250.00	250.00	116.60	116.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DLA	MW-173	06/18/2001	PROFILE	250.00	250.00	116.60	116.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DLA	MW-173	06/18/2001	PROFILE	250.00	250.00	116.60	116.60	8330N	NITROGLYCERIN	NO
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60	8330N	3-NITROTOLUENE	NO
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60	8330N	NITROGLYCERIN	NO
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60	8330N	PENTAERYTHRITOL TETRANITF	NO
G173DMA	MW-173	06/19/2001	PROFILE	260.00	260.00	126.60	126.60	8330N	PICRIC ACID	NO
G173DNA	MW-173	06/19/2001	PROFILE	270.00	270.00	136.60	136.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DNA	MW-173	06/19/2001	PROFILE	270.00	270.00	136.60	136.60	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G173DNA	MW-173	06/19/2001	PROFILE	270.00	270.00	136.60	136.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DNA	MW-173	06/19/2001	PROFILE	270.00	270.00	136.60	136.60	8330N	NITROGLYCERIN	NO
G173DNA	MW-173	06/19/2001	PROFILE	270.00	270.00	136.60	136.60	8330N	PENTAERYTHRITOL TETRANITF	NO
G173DNA	MW-173	06/19/2001	PROFILE	270.00	270.00	136.60	136.60	8330N	PICRIC ACID	NO
G173DOA	MW-173	06/19/2001	PROFILE	280.00	280.00	146.60	146.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DOA	MW-173	06/19/2001	PROFILE	280.00	280.00	146.60	146.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DOA	MW-173	06/19/2001	PROFILE	280.00	280.00	146.60	146.60	8330N	NITROGLYCERIN	NO
G173DOA	MW-173	06/19/2001	PROFILE	280.00	280.00	146.60	146.60	8330N	PENTAERYTHRITOL TETRANITF	NO
G173DPA	MW-173	06/19/2001	PROFILE	290.00	290.00	156.60	156.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 6/2/01-6/22/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G173DPA	MW-173	06/19/2001	PROFILE	290.00	290.00	156.60	156.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DPA	MW-173	06/19/2001	PROFILE	290.00	290.00	156.60	156.60	8330N	NITROGLYCERIN	NO
G173DQA	MW-173	06/19/2001	PROFILE	300.00	300.00	166.60	166.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DQA	MW-173	06/19/2001	PROFILE	300.00	300.00	166.60	166.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DQA	MW-173	06/19/2001	PROFILE	300.00	300.00	166.60	166.60	8330N	NITROGLYCERIN	NO
G173DRA	MW-173	06/19/2001	PROFILE	310.00	310.00	176.60	176.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DRA	MW-173	06/19/2001	PROFILE	310.00	310.00	176.60	176.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G173DRA	MW-173	06/19/2001	PROFILE	310.00	310.00	176.60	176.60	8330N	NITROGLYCERIN	NO
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	1,3-DINITROBENZENE	NO
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	2,6-DINITROTOLUENE	NO
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	NITROGLYCERIN	NO
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	PENTAERYTHRITOL TETRANITF	NO
G173DSA	MW-173	06/20/2001	PROFILE	320.00	320.00	186.60	186.60	8330N	PICRIC ACID	NO
G173DTA	MW-173	06/20/2001	PROFILE	330.00	330.00	196.60	196.60	8330N	NITROGLYCERIN	NO
G173DUA	MW-173	06/20/2001	PROFILE	340.00	340.00	206.60	206.60	8330N	NITROGLYCERIN	NO

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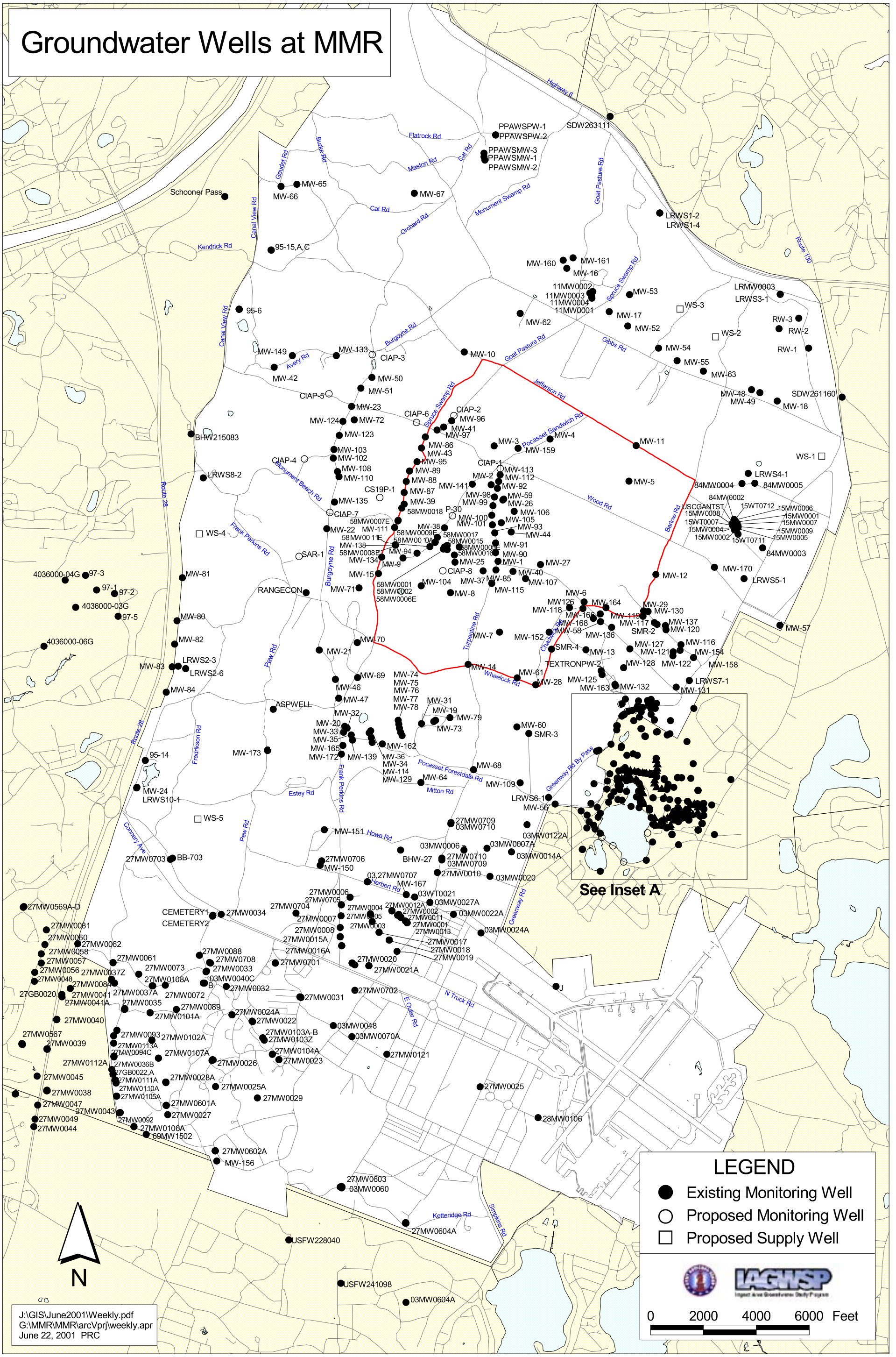
Groundwater Wells at MMR



Inset A

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June 22, 2001 PRC