WEEKLY PROGRESS UPDATE
FOR MAY 28 – JUNE 1, 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 May 28 to June 1, 2001.

1. SUMMARY OF ACTIONS TAKEN

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

Table 1. Drilling progress as of June 1, 2001

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-172	Demo 1 Area well (D1P-5)	162	98	

Bgs = below ground surface
Bwt = below water table

Commenced drilling MW-172 (D1P-5).

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected for MW-172. Groundwater samples were collected for 2001 Long Term Monitoring and first round of newly installed wells (including the two new Snake Pond wells). Split samples were collected of Snake Pond drive point samples and Sandwich-area residential wells. Water samples were collected from the GAC system and the RRA Containment Pad. As part of the HUTA investigation, soil and wipe samples were collected from debris in Test Pit 3.

The Guard, EPA, and MADEP had a meeting on May 31 to discuss technical issues, including the following:

CS-18 and CS-19 Updates

Ken Gaynor (Jacobs) presented an update on CS-18 and CS-19.

- No new activity was conducted for CS-18 since last week.
- Trenching activity at CS-19 is expected to commence next week. The UXO exclusion zone will be set up between 4 – 6 weeks, as this activity is conducted. It is possible that there will be time periods between ½ days to several days during the duration of the project where the exclusion zone will be deactivated. Ralph Turner, UXO safety specialist, (Jacobs) is responsible for setting up and monitoring the exclusion zone and should be contacted directly regarding times of activation/deactivation.
- An access road of 900 to 1000 ft will be required to install the proposed well in the CS-19 area (CS19P-1 on IART maps). This will delay the well installation; a revised schedule should be available in a couple weeks.
- Mike Jasinski (EPA) requested that AMEC consider and comment on the CS-19 particle tracks modeled and provided by AFCEE.

Water Supply Study Update

- Mike Jasinski (EPA) indicated that he had tentatively scheduled a meeting with Hap Gonser (JPO) regarding the water supply study for 6/14 at 1:00pm.

- EPA has requested the ZOCs for the water supply study so that they can be added to the IART maps. Information on the water supply wells has also been requested for the groundwater model input.

Munitions Survey Update

Larry Hudgins (Tetra Tech) presented the update on the Munitions Survey. A one-page handout was distributed.

- Since last week, additional work was completed at HUTA Test Pit #3, Test Pit #5, and Test Pit #6. In Test Pit #3 the geophysics was completed on Lift 1B; Lift 1B will be excavated 6/1. In Test Pit #5, geophysics on Lift 1A was completed and hand excavation of anomalies has started. Test Pit #6 was completed and Tetra Tech is awaiting analytical results prior to backfilling. Test Pit #4 is also completed and awaiting analytical results prior to backfilling.
- Requested permission to backfill Test Pit #6, prior to receiving analytical results because of problem with road between Test Pits #5 and #6. It is anticipated that the road to Test Pit #6 will cave in when excavation starts at Test Pit #5. Requested a response from EPA by early next week.
- Presentation of J-1and J-3 Range ground geophysical data is scheduled for 6/14.
- EPA-selected 54 AirMag targets are being incorporated into the initial ground-truthing effort. A secondary target list is still under development and will be ready prior to completion of the primary targets.
- During the punchlist discussion it was indicated that all AirMag anomalies identified along Greenway Road were cultural.
- Todd Borci (EPA) indicated that there were an additional 3 targets at the J-1 Range 2000m berm that EPA would like added to the primary target list. Mr. Borci also requested a revised proposal for ground-truthing the AirMag data. The proposal should reflect EPA's request that the Guard continue the ground-truthing beyond the initial 1 to 2 wk effort previously proposed so that all anomalies on the primary and secondary target lists could be investigated.
- A draft Tech Memo summarizing the DU data will be submitted this week. Mike Jasinski (EPA) indicated that comments on the draft report and press release would be provided in three weeks. Tina Dolen (IAGWSPO) to provide a redraft of the DU press release for review.
- During the Punchlist discussion Jane Dolan (EPA) requested a detailed schedule of completion dates for the ground geophysical survey and AirMag data as part of the Munitions Survey Project. Ms. Dolan assumed that each set of data (J-2 Range data, J-3 Range data, etc.) would be completed as an independent section that can be inserted into the Munitions Survey Report. The schedule will be used to determine enforceable milestones for completion of the work. Hard copies of the data were requested, in addition to the copies presented on CD ROM.

Rapid Response Action Update

Scott Veenstra (AMEC) provided an update on the RRA. A one-page handout was distributed.

- Water management on the containment pad will continue pending results of water samples collected during last week's rain event. Samples were collected at each of the sumps (unfiltered rainwater) in order to show that decontamination of the pad was effective.
- Jane Dolan (EPA) inquired why the doors at the top of the filter tank were open, expressing concern that the tank was near capacity and might overflow through these doors in the event of more rain. Ms. Dolan further inquired about the hose behind the filter tank, if this is hose from which water in the tank is discharged. Mr. Veenstra to verify.
- Draft Completion of Work Report for RRA Group 1 efforts was issued 4/30. Awaiting agency comments.
- Extension request for additional delineation sampling of Mortar Target 9 was sent to EPA on

5/21. Todd Borci (EPA) indicated that approval of a shorter extension is forthcoming today 5/31 or tomorrow 6/1. The reduction of the extension is based on EPA's expectation that the reporting of results can be faster than proposed. Ben Gregson (IAGWSPO) indicated that the Guard would reserve comment pending review of the letter.

- Addendum to FSP regarding the Additional Delineation Sampling at Mortar Target 9 is anticipated to be sent to the agencies on 6/1. EPA provided concurrence on performing intrusive UXO clearance to a 65-foot radius around Mortar Target 9 prior to completing any sampling.
- Intrusive UXO clearance at Mortar Target 9 is expected to commence on 6/4. Supplemental delineation sampling will commence upon completion of the intrusive clearance. EPA cautioned the Guard not to conduct sampling prior to approval of the FSP addendum.

Groundwater Study

John Rice (AMEC) presented an update of the groundwater study. A one-page summary was distributed.

- Commenced drilling of MW-172 (D1P-5). MW-172 will be installed next week.
- May LTM groundwater sampling round continued this week including MW-168 (J1P-7), MW-169 (SP-1), and MW-171 (SP-2).
- Status of efforts to identify the non-aqueous phase liquid (NAPL) encountered in the J-1 Range wells and K Range well was discussed during the punchlist review. Liz Wessling (AMEC) reports that none of the drilling fluids match the substance encountered. The fluid appears to be a weathered product heavier than JP-5 but lighter than diesel, possibly with additives. The Guard is attempting to collect a sample of JP-8 to see if this fuel has a similar fingerprint on the instrument. Todd Borci (EPA) requested that Mass Spectrometry be investigated as a means of identifying the material. Mr. Borci further indicated that the fingerprint of the material has some similarity to plumes downgradient of wood treating sites. Mr. Rice to email type of analyses being performed to assess NAPL sample.
- Herb Colby (AMEC) confirmed during the punchlist discussion that, as proposed for the J-1, J-3, and L Ranges scope of work, MW-168 was profiled for Tritium. Tritium profiling has been completed for all installed wells for which profiling has been proposed.
- Tim Dwyer (AMEC) and Ray Cottengaim (ACE) investigated piezometers PZ208 and PZ211. The hosing from PZ211 has been pulled out and is wrapped around the casing and the well cover appears to have been hammered shut. This is the piezometer on the property for which ownership has changed. ACE is pursuing access approval from the new owners. Access to PZ208 will be difficult because of the obstruction of the fallen tree but is not considered a safety issue. Plotting of the piezometers on the real estate maps was inconclusive, therefore AMEC has contacted Jacobs to verify piezometers locations and coordinate sampling.
- No UXO avoidance was conducted this week. Intrusive clearance at Mortar Target 9 as part of the RRA will be conducted next week.
- No soil sampling was conducted this week and is not planned for next week.
- No vegetation removal was completed this week and none is scheduled for next week.
- A 1-page table for New Detects – Unvalidated was distributed. Detections of RDX and HMX in 90MW00054 and 90WT0004, respectively, were similar to the previous sampling results. There were no PDA verified detections of explosives in 90LWA0007 or 90MW0003. Jane Dolan (EPA) indicated that she recalled that RDX had been detected in 90LWA0007 in a previous round.
- Marc Grant (AMEC) distributed the latest Perchlorate, Gross-Alpha and Tritium data during punchlist discussion. New Perchlorate data includes results for MW-152, MW-162, and MW-165. Only new detect was at MW-165M2. Mike Jasinski (EPA) requested schedule for validation of Tritium, gross-alpha data and status of remaining Tritium, gross-alpha data.

- Marc Grant (AMEC) distributed a revised map of the Demo 1 plume showing a separate contour outline for Perchlorate and RDX. The toe of the plume was shown as open depicting the uncertainty surrounding the plume extent. Mr. Borci requested that the figure be revised when the data for D1P-5 is available to show Pew Rd., the location of D1P-6 on Pew Rd., and concentration contours consistent with those shown in the plume map presented in the Demo 1 Groundwater Report.
- John MacPherson (ACE) reported that paving of Greenway Rd will commence next week. Ms. Dolan reiterated her request to collect two grabs from the trench and a composite sample from alongside the road, all in the area along Greenway Rd opposite L Range. Ben Gregson (IAGWSPO) had previously agreed to complete this scope of work. Dave Hill (IAGWSPO) and Mr. Gregson to review background for request.

Document /Schedule Status Update

Marc Grant (AMEC) provided the update on document and schedule status, distributing a one-page table, 3-month Lookahead schedule, and a table outlining the scheduling issues. Highlights of the document/schedule status were reviewed as follows:

- A column for MOR Approval date was added to the status table. The MOR approval date is used to determine the Final document date. Yellow highlighting replaces green highlighting to show enforceable deadlines that will be revised to indicate an earlier date.
- Documents Needing Comments. HUTA-1 Interim Data Report comments are due next week.
- Documents to be Submitted. J-1, J-3, L Ranges Additional Delineation Workplan will be sent out today 5/31. Jane Dolan (EPA) requested that the cover letter include a solicitation for comments from IART members to be sent to her. Demo 1 Soil Report will be sent out next week. An extension of 15 weeks has been requested for the Phase IIb Report until 8/20.
- Awaiting agency comments on Other UXO Draft FS Screening Report in order to set schedule.

Demo 1 Additional Data

Scope of proposed Total Organic Carbon Sampling for the Demo 1 area was presented in an AMEC 5/29 letter.

- Six soil samples will be collected from 1-2 feet around perimeter of Demo 1 depression. Two soil borings (B-19, B-21) at either edge of the depression will be sampled at 5-7 ft and 10-12 ft bgs. At third boring (B-20) in the center of the depression will be sampled every 5 feet to the water table, starting at 5-7 feet. Samples to be analyzed for Total Organic Carbon.
- Todd Borci (EPA) requested that soil samples also be analyzed for SVOCs, VOCs, metals and if burn layers encountered, dioxin/furans in accordance with his previous request presented in a 7/19/00 letter. Proposed sampling depths were acceptable.
- Mark Panni (MADEP) suggested that shallow samples also be collected in the center of the depression around B-20.

Miscellaneous

- Jane Dolan (EPA) requested the EPA be updated each week regarding future soil sampling at J-2 Range.
- Ellen Iorio (ACE) reported that the Camp GoodNews property owner is not comfortable with work being conducted at the Former H Range when camp is in session (6/24 – 8/11). ACE will provide a Work Plan to the agencies 6/11. The plan will detail ACE's proposal to complete the delineation sampling using X-Ray Florescence (XRF) as soil is excavated. Because XRF will provide real-time data as the soil is removed, there will be no benefit to

complete the delineation sampling in June. At MADEP's request, ACE will add a snow fence and sign around the Former H Range with the property owner's approval. Approval to conduct soil removal at the Former H Range in the vicinity of a wetland will be on the ConsCom agenda for 6/20. ACE is drafting an extension request for the project for agency approval.

- Snake Pond well, MW-171, particle back and forward tracks and cross sections were distributed. Particle track cross-sections indicate that RDX-contaminated water encountered beneath the Pond at MW-171 continues to travel deeper under the pond. This is somewhat inconsistent with other groundwater flow data in the vicinity of the Pond that suggests that upwelling occurs. Agencies requested that AFCEE, in consultation with Don Walter (USGS), provide particle tracks from MW-171 and present them at next week's Tech meeting. Draft press release on non-detects for drive point and surface water sampling in Snake Pond will be ready for review today 5/31.
- Guard would like to remove the airplane fuselage at Gun Position 9 as scrap. EPA will evaluate request with concerns that soil in vicinity will be disturbed.
- Rose Forbes (AFCEE) provided AMEC with boring logs of the four sentry wells installed as part of the Sandwich Weeks Pond water supply wells. AMEC to provide at next Tech meeting.
- EPA requested an update on the BioSlurry Treatment at the next Tech Meeting.

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 58MW0002 (CS-19 area) had detections of 4A-DNT, RDX and HMX that were verified by PDA spectra. These explosive compounds have been detected in previous samples collected from this well in similar concentrations. In previous rounds, 2A-DNT has also been detected.

- Groundwater samples collected from 58MW0009E (CS-19 area) had detections of 2A-DNT, 4A-DNT, RDX and HMX that were verified by PDA spectra. This is the first time 2A-DNT has been detected in samples collected from this well. Although 4A-DNT, RDX, and HMX have all been detected in previous sampling rounds, the concentrations of RDX and HMX were less in this round then in previous rounds.

- Groundwater samples collected from 58MW0011D (CS-19 area) had a detection of RDX that was verified by PDA spectra. This is the first time this IRP well has been sampled for the IAGWSP.
- Groundwater samples collected from 90WT0013 (across from L-Range) had a detection of 2-nitrotoluene that was not verified by PDA spectra. 2-Nitrotoluene has not been validated as a detection in previous samples collected from this well; although there has been one previous validated detection of 2,4-DNT.

- Groundwater samples collected from MW-31M1 (Demo 1 area) had detections of TNT, 2,4-DANT, 2A-DNT, 4A-DNT, RDX and HMX that were verified by PDA spectra. This is the first time that TNT and 2,4-DANT have been detected in samples from this well. 2A-DNT was detected in slightly higher concentrations then in previous samples. The remaining compounds were detected in similar concentrations as in previous sampling rounds.

3. DELIVERABLES SUBMITTED

Weekly Progress Update, May 14 – May 18, 2001	5/29/01
J-1/J-3/L Range Additional Delineation Workplan	5/31/01

4. SCHEDULED ACTIONS

Scheduled actions for the week of June 4 include complete installation of MW-172, commence drilling of D1P-6 (MW-173), continue development and sampling of newly installed wells, and continue sampling Long Term Groundwater Monitoring 2001.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The Draft Soil Report is being prepared. Two additional downgradient well locations, MW-172 (D1P-5) and D1P-6, are in the process of being drilled. Analysis of second round groundwater samples from newly installed wells is ongoing.

TABLE 2
SAMPLING PROGRESS
5/26/2001-6/1/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
0.G.0.00037.0.E	Rinsate 37 (Auger)	05/29/2001	FIELDQC	0.00	0.00		
0.G.0.00038.0.E	Rinsate 38 (Auger)	05/29/2001	FIELDQC	0.00	0.00		
0.G.0.00039.0.E	Rinsate 39 (Auger)	05/30/2001	FIELDQC	0.00	0.00		
0.G.0.00091.0.T	Trip Blank 91	05/30/2001	FIELDQC	0.00	0.00		
0.G.0.00092.0.T	Trip Blank 92	05/29/2001	FIELDQC	0.00	0.00		
58MW0001E	FIELDQC	05/29/2001	FIELDQC	0.00	0.00		
58MW0016CE	FIELDQC	05/30/2001	FIELDQC	0.00	0.00		
BHW215083BE	FIELDQC	05/29/2001	FIELDQC	0.00	0.00		
G172DAE	FIELDQC	05/31/2001	FIELDQC	0.00	0.00		
G172DFE	FIELDQC	06/01/2001	FIELDQC	0.00	0.00		
LRMW0003E	FIELDQC	05/29/2001	FIELDQC	0.00	0.00		
LRMW0003T	FIELDQC	05/29/2001	FIELDQC	0.00	0.00		
SDW263111E	FIELDQC	05/29/2001	FIELDQC	0.00	0.00		
W166M1T	FIELDQC	06/01/2001	FIELDQC	0.00	0.00		
W169M1E	FIELDQC	05/31/2001	FIELDQC	0.00	0.00		
3.D.1.00810.2.0	D.1.00810.O	05/30/2001	GAUZE WIPE	0.75	1.00		
3.D.1.00810.3.0	D.1.00810.O	05/30/2001	GAUZE WIPE	0.75	1.00		
3.D.1.00818.2.0	D.1.00818.O	05/30/2001	GAUZE WIPE	0.25	0.50		
3.D.1.00818.3.0	D.1.00818.O	05/30/2001	GAUZE WIPE	0.25	0.50		
3.D.1.00820.2.0	D.1.00820.O	05/30/2001	GAUZE WIPE	1.00	1.25		
3.D.1.00820.3.0	D.1.00820.O	05/30/2001	GAUZE WIPE	1.00	1.25		
3.D.1.00825.2.0	D.1.00825.O	05/30/2001	GAUZE WIPE	0.75	1.00		
3.D.1.00825.3.0	D.1.00825.O	05/30/2001	GAUZE WIPE	0.75	1.00		
3.D.1.00829.2.0	D.1.00829.O	05/30/2001	GAUZE WIPE	1.75	2.00		
3.D.1.00829.3.0	D.1.00829.O	05/30/2001	GAUZE WIPE	1.75	2.00		
58MW0001	58MW0001	05/29/2001	GROUNDWATER	122.00	127.00	3.60	8.60
58MW0003	58MW0003	05/30/2001	GROUNDWATER	119.00	124.00	0.30	5.30
58MW0015B	58MW0015B	05/30/2001	GROUNDWATER	135.00	145.00	12.70	22.70
58MW0016A	58MW0016A	05/30/2001	GROUNDWATER	220.00	230.00	97.20	107.20
58MW0016B	58MW0016B	05/30/2001	GROUNDWATER	151.00	161.00	28.50	38.50
58MW0016C	58MW0016C	05/30/2001	GROUNDWATER	116.00	126.00	0.00	10.00
90SNP0001	90SNP0001	05/31/2001	GROUNDWATER				
90SNP0002	90SNP0002	05/31/2001	GROUNDWATER				
BHW215083B	BHW215083B	05/29/2001	GROUNDWATER	75.00	85.00	0.00	10.00
LRMW0003	LRMW0003	05/29/2001	GROUNDWATER	100.00	110.00	50.00	60.00
RS0011SNP	RS0011SNP	05/30/2001	GROUNDWATER				
RS0019CARR	RS0019CARR	05/30/2001	GROUNDWATER				
RS0021GRAC	RS0021GRAC	05/30/2001	GROUNDWATER				
RS0043FAHA	RS0043FAHA	05/30/2001	GROUNDWATER				
SDW263111	SDW263111	05/29/2001	GROUNDWATER	99.00	109.00	0.00	10.00
W166M1A	MW-166	05/31/2001	GROUNDWATER	218.00	223.00	108.80	113.80
W166M2A	MW-166	06/01/2001	GROUNDWATER	150.00	160.00	40.80	50.80
W166M3A	MW-166	06/01/2001	GROUNDWATER	125.00	135.00	15.90	25.90

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
SAMPLING PROGRESS
5/26/2001-6/1/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W169M1A	MW-169	06/01/2001	GROUNDWATER	150.00	155.00	147.30	152.30
W169M2A	MW-169	06/01/2001	GROUNDWATER	113.50	118.50	110.70	115.70
W169M2D	MW-169	06/01/2001	GROUNDWATER	113.50	118.50	110.70	115.70
W171M1A	MW-171	05/31/2001	GROUNDWATER	141.00	146.00	139.53	144.53
W171M2A	MW-171	05/31/2001	GROUNDWATER	81.00	86.00	79.60	84.60
W171M3A	MW-171	05/31/2001	GROUNDWATER	29.00	34.00	27.60	32.60
DW052901	GAC WATER	05/29/2001	IDW	0.00	0.00		
PWPPC01JN1A	RRA CONTAINMENT	06/01/2001	IDW				
PWPPC27MY1A	RRA CONTAINMENT	05/27/2001	IDW				
G172DAA	MW-172	05/31/2001	PROFILE	72.00	72.00	8.20	8.20
G172DBA	MW-172	05/31/2001	PROFILE	82.00	82.00	18.20	18.20
G172DCA	MW-172	05/31/2001	PROFILE	92.00	92.00	28.20	28.20
G172DCD	MW-172	05/31/2001	PROFILE	92.00	92.00	28.20	28.20
G172DDA	MW-172	05/31/2001	PROFILE	102.00	102.00	38.20	38.20
G172DEA	MW-172	05/31/2001	PROFILE	112.00	112.00	48.20	48.20
G172DFA	MW-172	06/01/2001	PROFILE	122.00	122.00	58.20	58.20
G172DGA	MW-172	06/01/2001	PROFILE	132.00	132.00	68.20	68.20
G172DHA	MW-172	06/01/2001	PROFILE	142.00	142.00	78.20	78.20
G172DIA	MW-172	06/01/2001	PROFILE	152.00	152.00	88.20	88.20
G172DJA	MW-172	06/01/2001	PROFILE	162.00	162.00	98.20	98.20
3.D.1.00810.1.0	D.1.00810.O	05/30/2001	SOIL BRUSHING	0.75	1.00		
3.D.1.00818.1.0	D.1.00818.O	05/30/2001	SOIL BRUSHING	0.25	0.50		
3.D.1.00820.1.0	D.1.00820.O	05/30/2001	SOIL BRUSHING	1.00	1.25		
3.D.1.00825.1.0	D.1.00825.O	05/30/2001	SOIL BRUSHING	0.75	1.00		
3.D.1.00829.1.0	D.1.00829.O	05/30/2001	SOIL BRUSHING	1.75	2.00		

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 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 5/12/01-6/1/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
58MW0002	58MW0002	05/23/2001	GROUNDWATER	121.50	126.50	2.90	7.90	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
58MW0002	58MW0002	05/23/2001	GROUNDWATER	121.50	126.50	2.90	7.90	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
58MW0002	58MW0002	05/23/2001	GROUNDWATER	121.50	126.50	2.90	7.90	8330N	OCTAHYDRO-1,3,5,7-TETRANITI	YES
58MW0009E	58MW0009E	05/23/2001	GROUNDWATER	223.60	228.60	96.00	101.00	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
58MW0009E	58MW0009E	05/23/2001	GROUNDWATER	223.60	228.60	96.00	101.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
58MW0009E	58MW0009E	05/23/2001	GROUNDWATER	223.60	228.60	96.00	101.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
58MW0009E	58MW0009E	05/23/2001	GROUNDWATER	223.60	228.60	96.00	101.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITI	YES
58MW0011D	58MW0011D	05/24/2001	GROUNDWATER	180.00	185.00	49.50	54.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
90WT0013	90WT0013	05/20/2001	GROUNDWATER	95.00	105.00	0.00	10.00	8330N	2-NITROTOLUENE	NO
W31MMA	MW-31	05/23/2001	GROUNDWATER	113.00	123.00	22.67	32.67	8330N	2,4,6-TRINITROTOLUENE	YES
W31MMA	MW-31	05/23/2001	GROUNDWATER	113.00	123.00	22.67	32.67	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
W31MMA	MW-31	05/23/2001	GROUNDWATER	113.00	123.00	22.67	32.67	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
W31MMA	MW-31	05/23/2001	GROUNDWATER	113.00	123.00	22.67	32.67	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W31MMA	MW-31	05/23/2001	GROUNDWATER	113.00	123.00	22.67	32.67	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31MMA	MW-31	05/23/2001	GROUNDWATER	113.00	123.00	22.67	32.67	8330N	OCTAHYDRO-1,3,5,7-TETRANITI	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

Groundwater Wells at MMR

LEGEND

- Existing Monitoring Well
- Proposed Monitoring Well
- Proposed Supply Well

0 0.5 1 Miles

IAGWSP

See Inset A

N

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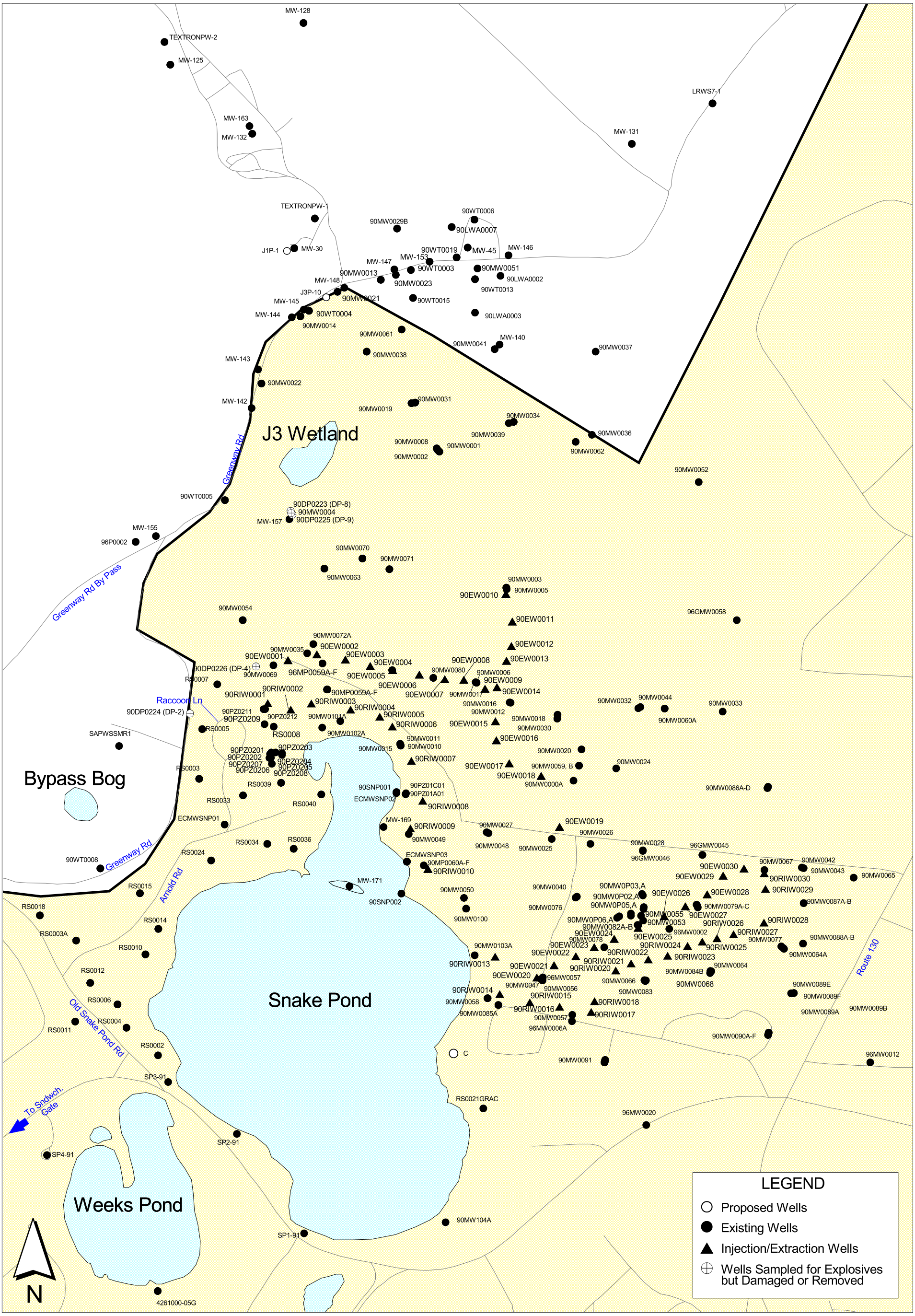
June 5, 2001 PRC



Inset A

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June 5, 2001 PRC