

**WEEKLY PROGRESS UPDATE
FOR JULY 9 – JULY 13, 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 July 9 to July 13, 2001.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of July 13 is summarized in Table 1.

Table 1. Drilling progress as of July 13, 2001				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-174	Old D Range Well (SAR-1)	215	13	190-200
Bgs = below ground surface Bwt = below water table				

Completed well installation at MW-174 (SAR-1). Continued well development of newly installed wells, including MW-173.

Samples collected during the reporting period are summarized in Table 2. Soil samples were collected at the J-2 Range Drop Tower. Water samples were collected from select monitoring wells for laboratory testing of the diffusion sampler membranes. A soil sample was collected as part of the bottom survey at the Demo 1 Area.

The Guard, EPA, and MADEP had a meeting on July 12 to discuss technical issues, including the following:

Attendees

Ben Gregson (IAGWSPO)	Dave Hill (IAGWSPO)	CPT Bill Meyer (IAGWSPO)
Bill Gallagher (IAGWSPO)	Karen Wilson (IAGWSPO)	Tina Dolen (IAGWSPO)
LTC Albert Bleakley (JPO)	Todd Borci (EPA)	Mike Jasinski (EPA)
Jane Dolan (EPA)	Jim Murphy (EPA)	Len Pinaud (MADEP)
Mark Panni (MADEP)	Darrell Deleppo (ACE)	Heather Sullivan (ACE)
John MacPherson (ACE)	Ed Wise (ACE)	Ellen Iorio (ACE)
Gina Tyo (ACE)	John Rice (AMEC)	Scott Veenstra (AMEC-phone)
Kim Harriz (AMEC)	Herb Colby (AMEC)	Katy Weeks (AMEC-phone)
Larry Hudgins (Tetra Tech)	Leo Montroy (Tt-phone)	Mike Teate (Tetra Tech)
Ken Gaynor (Jacobs)	Elizabeth Stevens (Guild)	Keith Comer (Robbins-Gioia)
Dave Williams (MDPH)	Deirdre DeBaggis (CH ₂ MHill)	Don Walter (USGS-phone)

CS-18 and CS-19 Updates

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

- Handout was distributed of unvalidated soil and groundwater analytical results for recent CS-18 investigation.
- At CS-19, two borings locations have been selected within the trenches. Scheduled activities include: UXO avoidance, July 16-20.
Tree clearing and drilling of downgradient wells, July 23-27.

Sampling, Aug 9-20
Backfill trenches, early Sept.

Archive Search Report

A monthly report on the ASR was provided via email; questions regarding the ASR discussed during the meeting were as follows:

- Mike Jasinski (EPA) requested an update on when the aerial photographs will be received. Eli Kangas (ACE) to respond.
- Jane Dolan (EPA) inquired if someone from Tetra Tech had been out to Picattiny Arsenal to continue the technical file review. CPT Meyer (IAGWSPO) indicated that to his knowledge, no one had been out to the Arsenal.
- Discussion ensued on the verbal extension request the Guard had made at the June 7 technical meeting. In response to this request, EPA suggested that the Guard provide an Interim Report with information to date on the July 31 deadline. The Guard had replied that they didn't want to use resources to submit an Interim and Final Report, that they would rather just issue the final report on October 31.
- CPT Meyer indicated that the Guard could not see that the October 31 deadline would delay any other part of the investigation schedule. Todd Borci (EPA) indicated that although no schedule impacts would occur by extending the ASR submittal deadline, new information available in the report may require the Guard to go back and add scope items to investigations that are already being implemented.
- Mr. Borci requested that the Guard provide a written request for an extension and the ASR documents that Jane Dolan (EPA) would specify.

J Range Response Plan Update

- Dave Hill (IAGWSPO) indicated that Denis LeBlanc (USGS) had not provided any plan to the Guard, but that no significant changes have been made to the proposed scope to complete the diffusion sampling in Snake Pond. In addition, the effort was progressing on schedule without delays. A plan will be forwarded to the agencies when received by the Guard.
- Subsequent to the Tech meeting, in a teleconference with EPA, Mr. Hill and Mr. LeBlanc, there was additional clarification on the scope of work to be completed. The original scope had proposed that the diffusion samplers would be laboratory tested with standards and placed in wells for in-situ testing of the membranes. Instead, the laboratory testing will not be completed and the in-situ testing using the groundwater samples from actual wells will be completed in the laboratory. Groundwater samples being used in the testing were collected from MW-31D (150ppb), MW-76M2 (46ppb), MW-34M1(4.5ppb) and MW-142M2 (0.44ppb) on Thursday 7/12.
- Dave Williams (MDPH) indicated that he did not receive the surface water sampling results for the north cove of Snake Pond that had been distributed via email. Heather Sullivan (IAGWSPO) to forward; the results had been non-detects for explosives.
- Ben Gregson (IAGWSPO) indicated that Mr. LeBlanc also needed to provide a cost estimate of the diffusion sampling effort prior to its completion.

HUTA 1 Backfilling

Ellen Iorio (ACE) indicated that Tetra Tech needs to backfill or at least shore up the sides of Test Pit 6 so that excavation of Test Pit 5 can proceed without jeopardizing the road between the two pits.

- Larry Hudgins (Tetra Tech) indicated they needed at least a couple hundred yards of soil to shore up the wall of Test Pit 6.

- In a side-bar discussion, John MacPherson showed the agencies soil results from Test Pit 4, indicating that the soil from some of the lifts was clean. This soil, although not staged separately by lift, was segregated to the extent that separate lifts could be identified. An additional 5 or 6 data packages of results for Test Pit 6 were expected today.
- Todd Borci (EPA) agreed to review the data and let the ACE know which soil could be used for backfilling later today, 7/12.

Mortar Target 9 Discussion

- Latest soil sampling results were distributed by email. Soil sampling results indicated that additional delineation analysis (of archived samples) was required for two quadrants of the 55-65 foot ring grid. Mike Jasinski (EPA) had reviewed the data and provided comments via email.
- Karen Wilson (IAGWSPO) indicated that Hanni Dinkeloo (NHESP) had provided a letter approving the Record of Action (RAC) to excavate in the Mortar Target 9 area to the 65 foot radius. This approval included a list of conditions that mostly addressed how the work should be conducted and restoration completed. Ms. Wilson thought that there would be no problem in meeting the stated conditions. Copy of the letter to be provided to Mike Jasinski (EPA).
- Scott Veenstra (AMEC) indicated that the current schedule (a copy of which was distributed at the meeting) allowed for mobilization on August 3, beginning excavation on August 5 and completing excavation by August 14.
- Mike Jasinski (EPA) indicated that the RAC process, assuming a worst case, should be initiated now so that the schedule will not be delayed by this process in the event that additional clearance/sampling is required.
- Discussion ensued on the Guard's pending request to extend the deadline for soil removal to August 14. Todd Borci (EPA) indicated that the EPA did not view the late request for an extension favorably. Ellen Iorio (ACE) indicated that the Guard's position had always been that they would not be able to meet the July 28 deadline; that this deadline imposed by the EPA was 3 weeks short of the original schedule proposed by the Guard. The intent had been to firm up the schedule as much as possible based on the data results so that a realistic schedule could be requested, one time only, prior to the July 18 deadline. Heather Sullivan (ACE) pointed out that the team had been making a sincere effort to complete the activity expeditiously. AMEC was able to compress the data review period by one week, but the UXO clearance (completed in 3 weeks) had extended beyond the estimated schedule because of the number of BIPs required.
- EPA requested that the Guard include the reasons that the schedule needed to be extended (but that likely only the fact that the UXO clearance schedule had been extended would be viewed as a valid reason), proposed soil management changes, and costs for soil disposal with the extension request letter to be delivered July 18.
- Ken Gaynor (Jacobs) expressed some concern that CS-19 activities might conflict with the Mortar Target 9 schedule. However, upon realization that no further UXO work was scheduled to be conducted at Mortar Target 9, Mr. Gaynor indicated that conflicts would probably not occur. This issue to be confirmed at the Friday, 7/13, contractor meeting.
- Mr. Veenstra indicated that RCL for the RRA Group 1 sites Completion of Work Report would be emailed to EPA on Friday. Mr. Borci indicated that the RCL needed to be emailed by 5pm. Three hard copies could be Fedexed for Monday delivery in Boston. Mr. Borci also indicated that EPA was expecting a redline/strikeout version of the report along with the RCL, since EPA had issued a disapproval. Mr. Veenstra replied that the RCL detailed which portion of the text was to be deleted and all additional text that would be added to the

report in response to each comment. Mr. Borci indicated that this would be acceptable.

Demo 1 Historical Bottom Survey

- Karen Wilson (IAGWSPO) indicated that the Guard was trying to determine if the Demo 1 area fell under Federal or State regulations regarding wetlands, due to the presence of an area on the southwest side of the depression which consistently was characterized by ponded water or wet soil. To date, Ms. Wilson's findings suggest that federal regulations are not applicable. Regarding state regulations, a conservation agent from Bourne ConsCom would review the site tomorrow 7/13; a meeting in the IAGWSPO was set for 0930 for interested parties. The agent had indicated that the state bylaws don't apply to MMR, but Ms. Wilson wasn't sure the agent realized that MMR was state not federal property. Three of 9 anomalies in the depression fall within the wetland-like area. The Guard is currently just addressing the needs to excavate the geophysical anomalies, since issues to excavate the wetland-like area for soil removal may require a lengthy resolution process. Ms. Wilson to notify Mike Ciaranca (MAARNG) of the meeting with the agent.
- Larry Hudgins (Tetra Tech) offered that the wetland-like area was really one big geophysical anomaly. One possibility is that this is a former burial area that has settled to create a depression.
- Mr. Hudgins further indicated that 10 of 13 anomalies have been excavated outside the depression. Findings include wire and scrap metal.
- Ellen Iorio (ACE) indicated that three test pits are currently scoped to identify the historic bottom of the Demo 1 area. Test pits will allow soil horizons to be identified; horizons are not as easily identified in split-spoon samples collected from soil borings.
- Todd Borci (EPA) requested that the test pitting effort be coordinated with the agencies so that EPA could observe the proceedings.

Ground Truthing - AirMag

- CPT Meyer indicated that his July 10 Proposal had assumed that the secondary target list consisted of more than 50 targets. Since the secondary list consists of only 50 targets, the Guard's proposed schedule is as follows:
- 99 of 186 targets have already been ground truthed. Completion of the remaining targets is expected by next week. Following this effort, the Guard would like to do a 1 to 2-day intrusive investigation of 3 or 4 targets (to date) for which there is no surface expression. After this effort is completed, the ground truthing of the secondary list will be completed. The September 14 memo will include all information of ground truthing effort and propose next steps.
- EPA indicated that they would respond to the Guard's proposal at the next Tech meeting.
- Jane Dolan (EPA) inquired as to what the Guard would include in their report. CPT Meyer indicated that the report would have a summary of what was found and evaluate the usefulness of the AirMag to identify burial caches of munitions and how the data was best used.
- Jane Dolan (EPA) inquired as to what the comment in the summary table "nothing on surface" meant. Larry Hudgins (Tetra Tech) indicated that this statement meant that nothing was recorded on the magnetometer when the area was swept – could mean that AirMag detected something deeper than magnetometer could detect or that the AirMag anomaly was a bleed from another anomaly.
- Todd Borci (EPA) asked Tetra Tech to identify the two anomalies on Wood Road that were brought up at the IART meeting. Mr. Hudgins to check prior to site visit to Demo 1 area.

Proposed Schedule of FY01/Early FY02

- June 28 fax from Guard provided an activity schedule for this and next year. Because of funding issues for the MSP-2 and HUTA-2 (some of which were resolved), the Guard's intention is to incorporate five of the smaller Phase II areas into this summer's activities and defer the larger areas to FY02.
- Todd Borci (EPA) indicated that the original proposal Guard made in a May presentation was that Former A, Gravity Anti-Tank Range, Demo 2 area and J-1 150/1000m Berm area would be addressed in FY01.
- Ben Gregson (IAGWSP) indicated that the Guard has recently received notification that additional money is being made available for the IAGWSP. If the agencies were told in May that certain areas would be investigated in FY01, the Guard would adhere to this schedule.
- Mr. Gregson indicated that the overall schedule (due tomorrow, 7/13) was being worked on and that a budget meeting was scheduled for later today. Mr. Gregson to set up a Tuesday afternoon conference call to discuss overall schedule and budget. Todd Borci (EPA) requested specifics.

Historical Phase IIb Maps

Mike Ciaranca (MAARNG) provided the Guard with historic range maps that he uncovered while cleaning out some old files at headquarters.

- Bill Gallagher indicated that the only map that showed new information was a 1963 map of Old K Range which he showed to Todd Borci (EPA). The map depicts the former K Range extending beyond Wood Road to a presumed target area. This target area is just northwest of Ground Scar 4 and corresponds to a large AirMag anomaly.
- Other maps are also available for the agencies' review. Todd Borci (EPA) to review.

IART Agenda

Action Items were reviewed:

4. Revised Draft General Fact Sheet will be distributed at Tech meeting.
5. Citizen comments on documents should be forwarded to Guard, copied to EPA/DEP and incorporated as possible. Conflicts with agency comments can be addressed by agencies.
6. Four potential Tech team members have been invited to come, introduce themselves and explain what they can bring to the team.
7. Ben Gregson indicated that AFCEE has posted detection of explosives found in spit well (MW-171) at Snake Pond. A copy of the posting will be sent out in the mailing.
8. Information on location of residences SW of Snake Pond who have water wells has been provided to Guard by AFCEE. Map should not be displayed to protect citizens privacy. Ben Gregson proposed the write-up to say how many wells on each road and of these wells X number have been sampled. Will evaluate additional sampling in next scheduled round with AFCEE.
9. Future agenda items to be included this week are status of PLM at J-1 Range. To include Herb/Pest results, SVOC results, identification of fuel and ongoing characterization efforts. Other items to be included for July are J Ranges Response Plan Update and review of 1000m Investigation at J-1 Range. CS-18 update by AFCEE is scheduled for August. CS-19 update by AFCEE is scheduled for September-October.

Proposed Agenda

- 6:10 **Review Action Items** – Todd Borci (EPA) indicated that only 15 minutes would be allotted for this task. Items not covered during this time period would be addressed at the end of the meeting in the time remaining.
- 6:30 **Introduce Potential IART members with discussion.**
- 7:00 **Demo 1 Soil Screening of Alternatives Report.** Limit to 4 slides, include slide on EPA comments, solicit citizen comments.
- 7:30 **DU Report.** Draft Report with EPA comments to be sent to IART in mailing.
- 8:00 **Investigations Update**
 - New Detections** (handout with map showing location of detections)
 - J Ranges Response Plan Update (Snake Pond)**
 - J1J3L Ranges Additional Delineation Workplan (1000m Berm discussion)**
 - Petroleum-like Material (PLM)**

Next Tech Meeting Topics

Schedule/Document Status
 Mortar Target 9
 AirMag Ground Truthing
 Demo 1 Area Wetland and Bottom Survey, Schedule
 IART Dry Run

A breakout meeting on Background Soil Sampling followed the Tech Meeting. Site visits at Demo 1 and U Range were scheduled. A teleconference with USGS was also scheduled for the afternoon.

2. SUMMARY OF DATA RECEIVED

No Rush Data were received this week.

3. DELIVERABLES SUBMITTED

June 2001 Monthly Progress Report	7/09/01
Weekly Progress Update, July 2 – July 6, 2001	7/11/01

4. SCHEDULED ACTIONS

Scheduled actions for the week of July 16 include commence drilling of MW-175 (D1P-7); continue development of newly installed wells, and continue soil sampling at J-2 Range.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

An additional downgradient well location MW-175 (D1P-7) was selected and the Record of Action approved; this well will be drilled next week. A survey is being conducted to identify the base of the disposal/burn areas with the Demo 1 Area. This includes excavation of anomalies identified as part of the AirMag survey. Analysis of first, second, and third round groundwater samples from newly installed wells is ongoing.

TABLE 2
 SAMPLING PROGRESS
 7/7/2001-7/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
0.G.0.00007.0.F	FIELD BLANK 7	07/11/2001	FIELDQC	0.00	0.00		
0.G.0.00104.0.T	TRIP BLANK 104	07/11/2001	FIELDQC	0.00	0.00		
0.G.0.00105.0.T	TRIP BLANK 105	07/12/2001	FIELDQC	0.00	0.00		
HC101TA1AAE	FIELDQC	07/11/2001	FIELDQC	0.00	0.00		
HC101TA1AAF	FIELDQC	07/12/2001	FIELDQC	0.00	0.00		
HC101TA1AAT	FIELDQC	07/12/2001	FIELDQC	0.00	0.00		
D1.F.3.00027.1.0	D1.3.00027	07/12/2001	SOIL GRID	1.00	1.25		
HC101TA1AAA	101T	07/11/2001	SOIL GRID	0.00	0.25		
HC101TA1BAA	101T	07/11/2001	SOIL GRID	0.25	0.50		
HC101TA1CAA	101T	07/11/2001	SOIL GRID	0.50	1.00		

Profiling methods include: Volatiles and Explosives

Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry

Other Sample Types methods are variable

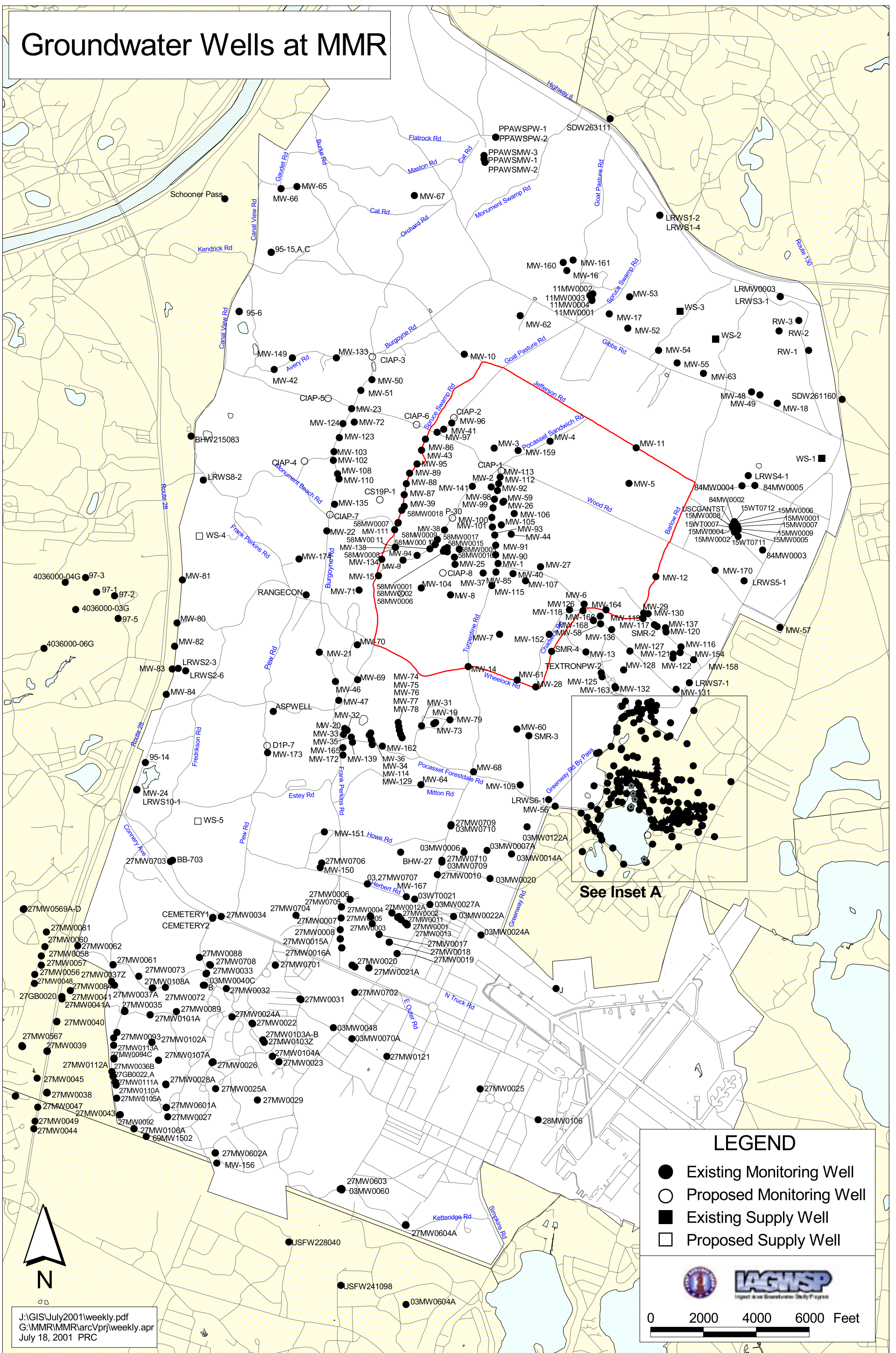
SBD = Sample Begin Depth, measured in feet bgs

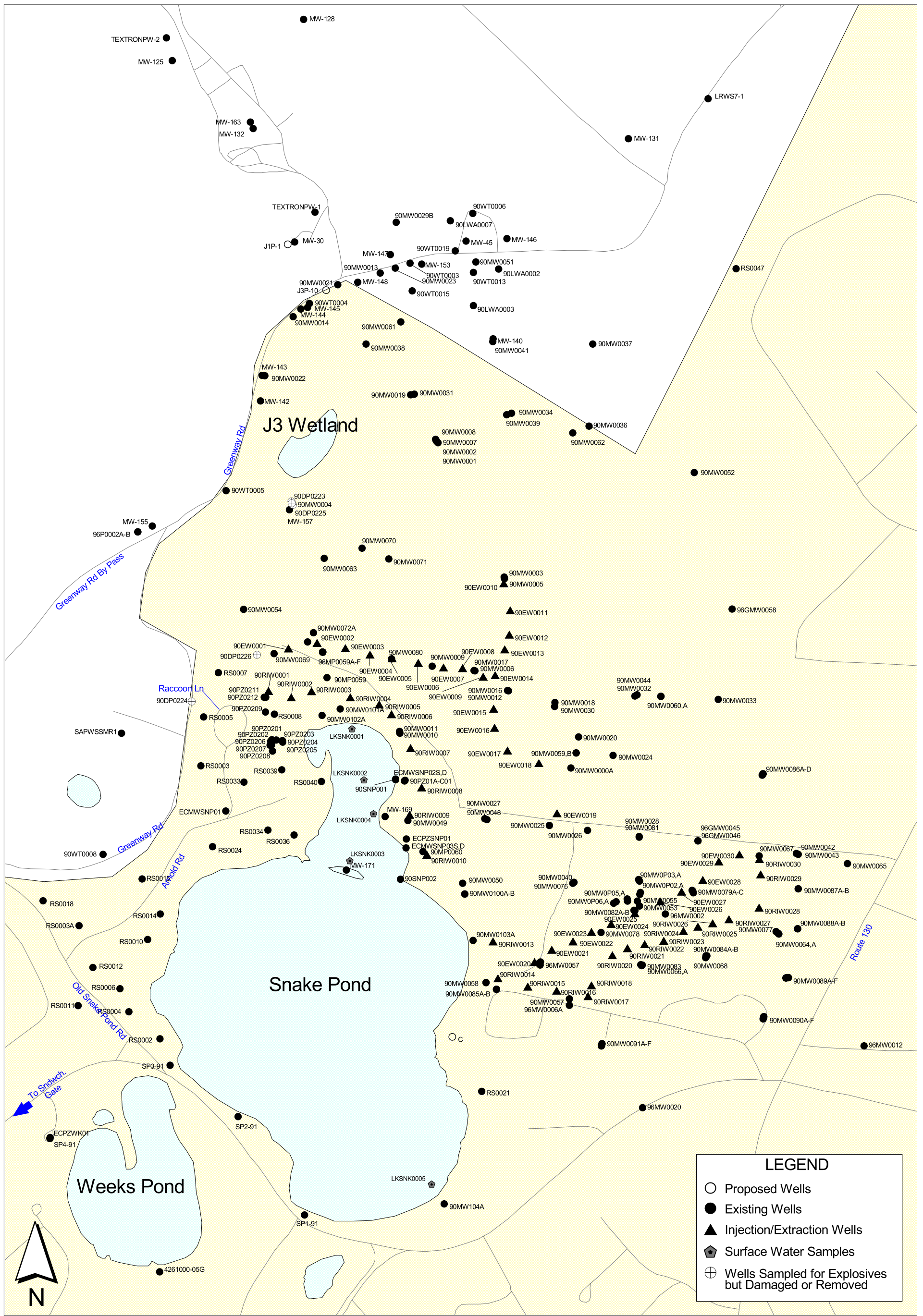
SED = Sample End Depth, measured in feet bgs

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

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

Groundwater Wells at MMR





LEGEND

- Proposed Wells
- Existing Wells
- ▲ Injection/Extraction Wells
- ⬢ Surface Water Samples
- ⊕ Wells Sampled for Explosives but Damaged or Removed



Inset A