# WEEKLY PROGRESS UPDATE FOR SEPTEMBER 17 – SEPTEMBER 21, 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 September 17 to September 21, 2001.

#### 1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of September 21 is summarized in Table 1.

Table 1. Drilling progress as of September 21, 2001								
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)				
MW-179	Central Impact Area Well (CIAP-1)	338	198	187-197, 329-339				
MW-182	Central Impact Area Well (CIAP-9)	310	140					
MW-183	Central Impact Area Well (CIAP-4)	190						
•	w ground surface w water table							

Bwt = below water table

Completed well installation of MW-179 (CIAP-1). Continued drilling of MW-182 (CIAP-9) and MW-183 (CIAP-4).

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-182 (CIAP-9). Groundwater samples were collected as part of the August Long Term Groundwater Monitoring round. Samples were also collected from a residential well on Old Snake Pond Road. Surface soil samples were collected at well locations MW-179 (CIAP-1) and MW-184. Soil samples were collected from grids on J-1 Range. Post-Detonation soil samples were also collected at J-1 Range. Surface water samples were collected at Snake Pond Public Beach and Camp Good News Beach.

The Guard, EPA, and MADEP had a meeting on September 20 to discuss technical issues, including the following:

#### Attendees

Ben Gregson (IAGWSPO - phone) Bill Gallagher (IAGWSPO) LTC Bill Fitzpatrick (MAARNG) Todd Borci (EPA) Len Pinaud (MADEP) Heather Sullivan (ACE – phone) Marc Grant (AMEC)

Scott Veenstra (AMEC-phone) Susan Stewart (Tetra Tech – phone) Dave Hill (IAGWSPO)
Tina Dolen (IAGWSPO)
COL Albert Bleakley (JPO)
Jane Dolan (EPA)
Darrell Deleppo (ACE)
Ellen Iorio (ACE)
Herb Colby (AMEC)
Kim Harriz (AMEC)
Dave Williams (MDPH)

Karen Wilson (IAGWSPO) CPT Bill Meyer (IAGWSPO) Mike Jasinski (EPA) Jim Murphy (EPA) Ed Wise (ACE) Gina Tyo (ACE) Mark Applebee (AMEC-phone) Larry Hudgins (Tetra Tech) Adam Balogh (TRC)

#### **MSP Status**

Ellen Iorio (ACE) provided an overview of the MSP status.

- HUTA1 is awaiting backfilling. The ACE is working with Karen Wilson (IAGWSPO) on the
  site restoration plan, which will be prepared in the next couple weeks. Decisions need to be
  made concerning the topsoil, whether it will be used elsewhere. The restoration probably
  won't be completed this year as part of the area will be used for the Central Impact Area
  pump test and will likely miss planting season. The area will likely be flattened out.
- The Demo 1 survey is completed, awaiting data validation. The Army Corps is attempting to expedite the validation process. The Slit trench and J-1 Vehicle pull have been completed. Survey of the 5<sup>th</sup> area at the ASP is continuing today. Approximately 1/3 of the area has been grubbed. An extension for completing the ASP Survey will be requested based on delays due to the base closure to contractors and addition of the 5<sup>th</sup> area outside the original scope. Digital maps for the Succonsette Pond are being processed. Area F at Former K Range is being worked on. UXO clearance at Former A Range continues where there is a huge amount of surface debris and ordnance items. Shipments of explosives for BIPs have been delayed, 1 BIP is pending. Two of four areas at Former A Range have been almost completed. The Guard will request an extension for this survey also.
- Karen Wilson (IAGWSPO) reported that verbal approval had been received from Hanni Dinkeloo (NHESP) regarding the Mortar Target 9 restoration; this work is scheduled to start next week.
- Mike Jasinski (EPA) requested a schedule to tie the MSP I work together; how and when MSP Phase I will come together. Ellen Iorio (ACE) to email schedule.
- Jane Dolan (EPA) requested hard copies of figures.
- Len Pinaud (MADEP) inquired about what should be forwarded to the IART team. CPT Meyer (IAGWSPO) to solicit input from team during MSP update presentation at 9/25 IART meeting.

### **Snake Pond Update**

Dave Hill presented an overview on the USGS sampling activities at Snake Pond.

- The full-scale diffusion sampler grid will be laid out 9/20-21 by the USGS.
- Results from the field test transect showed no RDX detected in any sampler. RDX was
  detected in a sampler that was installed in a monitoring well on base. Exact concentrations
  had not been provided. Confirmation results may be available by next Thursday 9/27.
- The full-scale test will consist of 8 lines that bracket the first transect. There are 102 sampling points + QC samples that will be collected. The sampling density increases south of the spit where groundwater samples have had RDX detections. The samplers will likely be removed approximately 3 weeks from today 9/20.
- Dave Williams (MDPH) inquired about perchlorate analysis and other explosive compounds. Mr. Hill indicated that the samples were being analyzed for 8330N explosives.

 Tina Dolen (IAGWSPO) notified area residents via a mailing and called the Town Adminstrator and Selectmen, regarding the sampling. Dave Mason (Sandwich Health Dept) had recommended against posting at the Pond.

#### J Ranges Plume maps

Herb Colby distributed 3 proposed plume maps for the J-1, J-3, L Ranges areas depicting separate RDX, HMX and Perchlorate plumes.

- AMEC was also working on forward particle tracks with the FS-12 system turned on, to put
  on the maps. This information will provide confirmation that the plume orientation makes
  sense and to show which portions are captured by system. The northern extent of the range
  and is not influenced by the FS-12 system. The particle tracks will be added in the next day
  or two. Plume maps were also being drawn for some of cross sections such as the one
  along Greenway Road.
- Mike Jasinski (EPA) suggested that the proposed well locations be provided with labels.
- Len Pinaud (MADEP) suggested that areas shown as the Water Supply Wells ZOCs be indicated in the legend.
- Jane Dolan (EPA) inquired about the RDX plume map that showed a closed circle around detections near L Range. Why wasn't this line dashed given that there was no upgradient well showing a nondetection. Mr. Colby indicated that reverse particle tracks from this shallow well (90LWA0007) terminated just north of the well, indicating the source was local.
- Ms. Dolan requested that the plumes be overlain on the aerial photograph used for the Chemical box figures in order to show range areas for reference.
- Len Pinaud (MADEP) suggested that the plumes be re-drawn to include only those wells where explosives have been detected. Mr. Pinaud stated that as the investigation continued, the plume boundaries could be re-drawn to reflect the new data and to update the public.
- Ms. Dolan stated that she didn't agree that 90MW0054 was connected to the main plume, since 90EW0001 did not have an RDX detection. Regarding the HMX map, Ms. Dolan also did not agree that detections of HMX from 132S and 30S combined to form a plume at Greenway Road. Mr. Colby indicated that it would be easier to visualize the plumes if the maps are reviewed in conjunction with the cross sections that are being developed.
- It was suggested that the yellow line that denoted the Impact Area boundary be labeled.
- Regarding the Perchlorate map, Ms. Dolan asked why individual circles weren't drawn
  around scattered detections on the groundwater mound and northeast of the mound. Mr.
  Colby indicated that he wasn't comfortable doing this, as there were so many. The origins of
  these detections were likely local. Ms. Dolan indicated that it was her opinion that the
  scattered detections were the result of the top of the groundwater mound moving slightly
  during the last 50 years.
- Mike Jasinski (EPA) pointed out that there were many non detects in the plume drawn for Perchlorate between the 3 wells that had detections. Perhaps these detections were three separate slugs.
- Todd Borci (EPA) requested that another contour line be added around MW-163/-132, which had a significantly higher concentration than elsewhere. A 15 ppb contour line was suggested.
- COL Bleakley (JPO) pointed out that in IRP discussions the issue of whether plumes could be drawn around single wells had been drawn out for 6 months.
- EPA to provide comments prior to 9/27 Tech meeting and discuss further modifications at 9/27 Tech meeting.

## **Petroleum-like Material Analysis Update**

- Herb Colby (AMEC) explained that the Woods Hole Group had preliminary results for the
  Gas Chromatograph analysis, but they had not been provided to AMEC. Mass Spectra
  results were expected in a week or two. Enough PLM was obtained from MW-45 to do the
  Mass Spectra analysis. A short GC/MS run was completed; the run time is being
  lengthened to get more information. Preliminary information indicates only that the material
  is an alkylated compound; no comparison between the PLM and standards has been made.
  EPH results were presented in Interim Report 2.
- Todd Borci (EPA) requested that any data, chromatographs be forwarded to the EPA as soon as the information becomes available.
- Jane Dolan (EPA) requested that 90MW0031 (115' bwt) and 90MW0019 (80' bwt), which haven't been sampled since 1999 be considered for sampling again.

## **Combined Groundwater Study and Munitions Survey Project Schedule**

 Todd Borci (EPA) to send a letter granting extension for Demo 1 Draft FS till 10/02 and for the Gun and Mortar Revised Draft till 10/29.

Mr. Borci outlined the following comments on the revised schedule:

- Demo Area 1 Coordination meeting discussion ensued among Mr. Borci, Mark Applebee (AMEC) and Marc Grant (AMEC) regarding setting up a coordination meeting about expectations for the Demo 1 Soil FS Screening Report. It was decided that AMEC/Guard would review comments, particularly UXO and vadose zone issues. If there are any outstanding questions, then a coordination meeting could be held prior to 10/22, if not than 10/22 would be OK for a meeting. Mr. Applebee indicated that AMEC would put more info together on UXO remedial alternatives to discuss at meeting.
- <u>Final Demo 1 Soil Report</u> Mr. Borci questioned why "if needed" was specified for this report. Mr. Applebee indicated that the perhaps the Revised Draft Demo 1 Soil Report could be substituted for the Final Report. Mr. Borci to consider at the time the report is submitted.
- <u>Central Impact Area</u> Groundwater and Targets Phase II Sampling were omitted from schedule. If the Targets sampling is going to be a part of PSI, this needs to be specified.
- <u>J-2 Range Schedule</u> Either additional delineation needs to be completed or the range should go to COC Identification. Herb Colby (AMEC) indicated that approximately 1/3 of the additional delineation data had been received. The remaining data would likely be received by next Friday. By then, AMEC could recommend if additional data needed to be collected. Additional scoping meeting set for 10/11. AMEC to provide data tables to EPA as available.
- J-1, J-3, L Ranges Schedule Additional Delineation Work Plan #2 needs to be added.
- Gun & Mortar Schedule There should be a G&M Operable Unit under the Feasibility Study Schedule. Additional delineation sampling should be added to a Post Screening Investigation. Bill Gallagher (IAGWSPO) stated that whether to complete additional delineation as part of the characterization phase or during the FS stage needed to be discussed internally.
- <u>HUTA-1</u> HUTA Interim Report isn't listed.
- MSP Phase I combined revised document submittal date needs to be added per Ellen lorio's (ACE) proposed schedule.
- <u>AirMag Target List</u> the field work is shown as completed, isn't more field work planned? Would an extension request be submitted for the field work.
- Former K, Demo Area 2, Former A Munitions Survey Reports for these areas need to combined into the Phase IIb Soil/Groundwater Characterization Report of these areas. Mr. Borci offered to extend the Site Characterization Report deadline for these areas to 01/09/02

- in order to incorporate the MSP information.
- <u>Central Impact Area FS Screening Report</u> Mr. Borci requested that a deadline for this
  report be set for 12/31. Mr. Gallagher pointed out that in the Guard's opinion, this was too
  soon, since HUTA2 and targets data would not be included. Therefore, the level of detail
  needed to complete the FS screening would not be available. Mike Jasinski (EPA)
  suggested that a scoping meeting be set for 10/04 to discuss the FS Screening Report
  scope.
- <u>Central Impact Area PSI -</u> What activities will be included in the PSI. Sufficient time needs to be built into the schedule to complete these activities.
- HUTA2 No report in schedule.
- Feasibility Study HUTA1 UXO No such Operable Unit. HUTA1 UXO should be addressed under the Central Impact Area soil FS. There should be a UXO FS that addresses UXO not included in any other areas. The same applies to remedial selection. Receive comments on Tech memo 01-7 by end of October.
- ITE Treatability Studies no soil studies listed.
- Mr. Grant to revise schedule and send out early next week.

## **Miscellaneous**

- COL Bleakley (JPO) distributed an IRP plume map to be included in the community guide.
   Email comments from agencies expected by next week.
- Todd Borci (EPA) requested a list and graphical depiction of all wells that were never sampled for VOCs.
- Mr. Borci requested a list of wells in the SE Ranges that hadn't been analyzed for explosives in a while.
- Mr. Borci requested that in the Dye proposal, a sentence be added to justify grid locations in Demo Area 1.
- Mr. Borci requested that the Schooner Pass and Comfort Station supply wells be sampled for Perchlorate, based on detection of perchlorate in MW-66S at GP-16.
- Marc Grant (AMEC) to check on past sampling schedule at Schooner Pass well.
- Jane Dolan (EPA) requested a copy of the USGS' Tritium-Helium dating proposal.
- Ms. Dolan requested a report on the instrument Nick laiennaro used to detect inert rounds.
- Mike Jasinski (EPA) requested information on follow-on Treatability Studies per recommendations in the report. Scott Veenstra (AMEC) indicated that Guard/Corps/AMEC would be discussing scope of additional treatability work internally on October 16.

#### 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 from 58MW0009E (CS-19) had detections of 2A-DNT, 4A-DNT, RDX and HMX that were confirmed by PDA spectra. The previous round of sampling had similar detections.
- Groundwater samples from 58MW0001 (CS-19) had detections of RDX and HMX that were confirmed by PDA spectra. The previous round of sampling had similar detections.
- Groundwater samples from 58MW0018B (CS-19), 90MW0022 (FS-12) and MW-141M2 (Central Impact Area) had detections of RDX that were confirmed by PDA spectra. The previous round of sampling had similar detections.
- Groundwater samples from 90LWA0007 (FS-12) had detections of 2,6-DNT, 2-nitrotoluene,
   3-nitrotoluene, 4A-DNT, 4-nitrotoluene, and picric acid. The 2,6-DNT was confirmed by PDA spectra. None of the detected compounds have ever been validated as present in this well.
- Groundwater samples and a duplicate sample from 90WT0004 (FS-12) had detections of HMX that were confirmed by PDA spectra. HMX has been detected in this well in previous rounds.
- Groundwater samples from MW-141S (Central Impact Area) had detections of TNT and 2,6-DNT. This was the first time 2,6-DNT has been detected in this well. The previous rounds of sampling had only confirmed detections of TNT.
- Groundwater samples from MW-19S (Demo 1) had detections of TNT, 2,6-DNT, 2A-DNT, 4A-DNT, RDX, TNX, DNX, MNX, and HMX that were confirmed by PDA spectra. Previous rounds of sampling had similar detections. This was the first time this well has been analyzed using method 8330NX which enables TNX, DNX, and MNX to be detected.
- Groundwater samples from MW-31S (Demo 1) had detections of TNT, 2,4-DNT, 2A-DNT, 4A-DNT, RDX, DNX, MNX, TNX, and HMX that were confirmed by PDA spectra. The previous round of sampling had similar detections, except that this was the first time analysis using the 8330NX method.
- Groundwater samples from MW-84D (Canal View Rd) had detections of TNT and 2,6-DNT.
   The 2,6-DNT was confirmed by PDA spectra. This was the first time any explosives have been confirmed by PDA at this well location.
- Groundwater samples from MW-84M1 (Canal View Rd) had a detection of 2,6-DNT that was confirmed by PDA spectra. This was the first time any explosives have been confirmed by PDA at this well location.
- Groundwater samples from MW-84M2 (Canal View Rd) had a detection of 2,4-DNT that was not confirmed by PDA. Explosives have not been previously detected in this well.

#### 3. DELIVERABLES SUBMITTED

Weekly Progress Update for September 10 - September 14

9/21/01

#### 4. SCHEDULED ACTIONS

Scheduled actions for the week of September 24 include well installation of MW-182 (CIAP-9), continued drilling of MW-183 (CIAP-4), commence MW-184 (P-30), and commence redrilling of MW-177 (CIAP-7). Groundwater sampling will continue for the August LTM round. Excavation of UXO detonation craters will commence.

#### 5. SUMMARY OF ACTIVITIES FOR DEMO 1

An additional downgradient well location (D1P-8) on Pew Road will be drilled in the coming weeks. Analysis of second, third, and fourth round groundwater samples from newly installed wells is ongoing. The groundwater Feasibility Study is being prepared and will be submitted next week.

# TABLE 2 SAMPLING PROGRESS 9/15/2001-9/21/2001

HDJ1200108S\$10	OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDJ1200108SS9								
58MW0002E         FIELDQC         09/19/2001         FIELDQC         0.00         0.00           97-3E         FIELDQC         09/20/2001         FIELDQC         0.00         0.00           97-3T         FIELDQC         09/20/2001         FIELDQC         0.00         0.00           G182DDE         FIELDQC         09/21/2001         FIELDQC         0.00         0.00           G182DLE         FIELDQC         09/21/2001         FIELDQC         0.00         0.00           HC05DA1GAT         FIELDQC         09/20/2001         FIELDQC         0.00         0.00           HC05DA1CAE         FIELDQC         09/20/2001         FIELDQC         0.00         0.00           HD1200108SS9E         FIELDQC         09/21/2001         FIELDQC         0.00         0.00           S184DAE         FIELDQC         09/19/2001         GROUNDWATER         0.00         0.00           97-1         97-1         09/20/2001         GROUNDWATER         83.00         93.00         66.0         70.60           97-3         09/20/2001         GROUNDWATER         75.00         85.00         33.50         43.50           LKSNP0004         09/19/2001         GROUNDWATER         0.00         1.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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97-3T		<u> </u>		·				
G182DIE								
G182DJE		<b>_</b>						
HC05DA1BAT		<b>!</b>						
HC05DA1CAE								
HDJ1200108SS9E		<b>!</b>						
S184DAE		<u> </u>						
11OSPR								
58MW0002         58MW0002         09/19/2001         GROUNDWATER         122.00         127.00         4.60         9.60           97-1         97-1         09/20/2001         GROUNDWATER         83.00         93.00         60.60         70.60           97-3         97-3         09/20/2001         GROUNDWATER         75.00         85.00         33.50         43.50           LKSNP0004AAA         LKSNP0005         09/19/2001         GROUNDWATER         0.00         1.00           LKSNP0005AAA         LKSNP0005         09/19/2001         GROUNDWATER         0.00         1.00           LRMW0003         LRMW0003         09/19/2001         GROUNDWATER         95.00         105.00         69.68         79.68           LRMW0003D         LRMW0003         09/19/2001         GROUNDWATER         95.00         105.00         69.68         79.68           SDW263111         SDW263111         09/20/2001         GROUNDWATER         99.00         109.00         0.00         10.00           W172M1A         MW-172         09/21/2001         GROUNDWATER         199.00         209.00         134.00         144.00           W172M2A         MW-172         09/21/2001         GROUNDWATER         199.00         209.00 <td></td> <td></td> <td></td> <td></td> <td>0.00</td> <td>0.00</td> <td></td> <td></td>					0.00	0.00		
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LRMW0003D		<u> </u>					69.68	79.68
SDW263111         SDW263111         09/20/2001         GROUNDWATER         99.00         109.00         0.00         10.00           W172M1A         MW-172         09/21/2001         GROUNDWATER         199.00         209.00         134.00         144.00           W172M2A         MW-172         09/21/2001         GROUNDWATER         199.00         209.00         134.00         144.00           G182DAA         MW-182         09/19/2001         PROFILE         190.00         190.00         20.40         20.40           G182DBA         MW-182         09/19/2001         PROFILE         200.00         200.00         30.40         30.40           G182DCA         MW-182         09/20/2001         PROFILE         210.00         210.00         40.40         40.40           G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DAA         MW-182         09/20/2001         PROFILE         230.00         60.40         60.40           G182DAA         MW-182         09/20/2001         PROFILE								
W172M1A         MW-172         09/21/2001         GROUNDWATER         199.00         209.00         134.00         144.00           W172M2A         MW-172         09/21/2001         GROUNDWATER         199.00         209.00         134.00         144.00           G182DAA         MW-182         09/19/2001         PROFILE         190.00         20.40         20.40           G182DBA         MW-182         09/19/2001         PROFILE         200.00         200.00         30.40         30.40           G182DCA         MW-182         09/20/2001         PROFILE         210.00         210.00         40.40         40.40           G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DDD         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DFA         MW-182         09/20/2001         PROFILE <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>					-			
W172M2A         MW-172         09/21/2001         GROUNDWATER         199.00         209.00         134.00         144.00           G182DAA         MW-182         09/19/2001         PROFILE         190.00         190.00         20.40         20.40           G182DBA         MW-182         09/19/2001         PROFILE         200.00         200.00         30.40         30.40           G182DCA         MW-182         09/20/2001         PROFILE         210.00         210.00         40.40         40.40           G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DDD         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFI		<b></b>						
G182DAA         MW-182         09/19/2001         PROFILE         190.00         20.40         20.40           G182DBA         MW-182         09/19/2001         PROFILE         200.00         200.00         30.40         30.40           G182DCA         MW-182         09/20/2001         PROFILE         210.00         210.00         40.40         40.40           G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DDD         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/21/2001         PROFILE         280.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
G182DBA         MW-182         09/19/2001         PROFILE         200.00         200.00         30.40         30.40           G182DCA         MW-182         09/20/2001         PROFILE         210.00         210.00         40.40         40.40           G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DDD         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DIA         MW-182         09/21/2001         PROFILE </td <td></td> <td><b>!</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		<b>!</b>						
G182DCA         MW-182         09/20/2001         PROFILE         210.00         210.00         40.40         40.40           G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DDD         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DKA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DKA         MW-182         09/21/2001         PROFILE								
G182DDA         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DDD         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DKA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DLA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           S179DAA         MW-179         09/19/2001         SOIL		<b>!</b>						
G182DDD         MW-182         09/20/2001         PROFILE         220.00         220.00         50.40         50.40           G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DJA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DKA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOI		<b>!</b>						
G182DEA         MW-182         09/20/2001         PROFILE         230.00         230.00         60.40         60.40           G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DKA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DLA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL GRID         0.00								
G182DFA         MW-182         09/20/2001         PROFILE         240.00         240.00         70.40         70.40           G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DJA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DKA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL GRID         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25								
G182DGA         MW-182         09/20/2001         PROFILE         250.00         250.00         80.40         80.40           G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DJA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DKA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25								
G182DHA         MW-182         09/20/2001         PROFILE         260.00         260.00         90.40         90.40           G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DJA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DKA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25		<u> </u>			-	-		
G182DIA         MW-182         09/20/2001         PROFILE         270.00         270.00         100.40         100.40           G182DJA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DKA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25	ļ							
G182DJA         MW-182         09/21/2001         PROFILE         280.00         280.00         110.40         110.40           G182DKA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25								
G182DKA         MW-182         09/21/2001         PROFILE         290.00         290.00         120.40         120.40           G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25								
G182DLA         MW-182         09/21/2001         PROFILE         300.00         300.00         130.40         130.40           S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25								
S179DAA         MW-179         09/19/2001         SOIL BORING         0.00         0.25           S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25								
S184DAA         MW-184         09/19/2001         SOIL BORING         0.00         0.25           HC05DA1AAA         05DA         09/20/2001         SOIL GRID         0.00         0.25					-			. 551.10
HC05DA1AAA 05DA 09/20/2001 SOIL GRID 0.00 0.25								
		<b>_</b>				-		
	HC05DA1BAA	05DA	09/20/2001	SOIL GRID	0.25			
HC05DA1CAA 05DA 09/20/2001 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

# TABLE 3 DETECTED COMPOUNDS-UNVALIDATED SAMPLES COLLECTED 8/23/01-9/21/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
58MW0009E	58MW0009E	08/29/2001	58MW0009E	133.00	138.00	6.50	11.50	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
58MW0009E	58MW0009E	08/29/2001	58MW0009E	133.00	138.00	6.50	11.50	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
58MW0009E	58MW0009E	08/29/2001	58MW0009E	133.00	138.00	6.50	11.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
58MW0009E	58MW0009E	08/29/2001	58MW0009E	133.00	138.00	6.50	11.50	8330N	OCTAHYDRO-1,3,5,7-TETRANITE	YES
58MW0001	58MW0001	08/29/2001	GROUNDWATER	122.00	127.00	4.78	9.78	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
58MW0001	58MW0001	08/29/2001	GROUNDWATER	122.00	127.00	4.78	9.78	8330N	OCTAHYDRO-1,3,5,7-TETRANITI	YES
58MW0018B	58MW0018B	09/04/2001	GROUNDWATER	176.00	186.00	34.55	44.55	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
90LWA0007	90LWA0007	09/03/2001	GROUNDWATER	92.00	102.00	0.00	10.00	8330N	2,6-DINITROTOLUENE	YES'
90LWA0007	90LWA0007	09/03/2001	GROUNDWATER	92.00	102.00	0.00	10.00	8330N	2-NITROTOLUENE	NO
90LWA0007	90LWA0007	09/03/2001	GROUNDWATER	92.00	102.00	0.00	10.00	8330N	3-NITROTOLUENE	NO
90LWA0007	90LWA0007	09/03/2001	GROUNDWATER	92.00	102.00	0.00	10.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
90LWA0007	90LWA0007	09/03/2001	GROUNDWATER	92.00	102.00	0.00	10.00	8330N	4-NITROTOLUENE	NO
90LWA0007	90LWA0007	09/03/2001	GROUNDWATER	92.00	102.00	0.00	10.00	8330N	PICRIC ACID	NO
90MW0022	90MW0022	09/05/2001	GROUNDWATER	112.00	117.00	72.79	77.79	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
90WT0004	90WT0004	09/07/2001	GROUNDWATER	35.00	45.00	3.00	13.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITE	YES
90WT0004-D	90WT0004	09/07/2001	GROUNDWATER	35.00	45.00	3.00		8330N	OCTAHYDRO-1,3,5,7-TETRANITE	
W141M2A	MW-141	08/27/2001	GROUNDWATER	162.00	172.00	34.00	44.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W141SSA	MW-141	08/24/2001	GROUNDWATER	128.00	138.00	0.00	10.00	8330N	2,4,6-TRINITROTOLUENE	NO
W141SSA	MW-141	08/24/2001	GROUNDWATER	128.00	138.00	0.00	10.00	8330N	2,6-DINITROTOLUENE	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	2,4,6-TRINITROTOLUENE	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	2,6-DINITROTOLUENE	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER		48.00	0.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITROSO	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	HEXAHYDRO-1,3-DINITROSO-5-	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	HEXAHYDRO-1-MONONITROSO	YES
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITE	
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	2,4,6-TRINITROTOLUENE	YES
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	2,4-DINITROTOLUENE	YES'
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	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

# TABLE 3 DETECTED COMPOUNDS-UNVALIDATED SAMPLES COLLECTED 8/23/01-9/21/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	HEXAHYDRO-1,3,5-TRINITROSO	YES
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	HEXAHYDRO-1,3-DINITROSO-5-I	YES
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	HEXAHYDRO-1-MONONITROSO	YES
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITI	YES
W84DDA	MW-84	08/23/2001	GROUNDWATER	142.00	152.00	109.00	119.00	8330NX	2,4,6-TRINITROTOLUENE	NO
W84DDA	MW-84	08/23/2001	GROUNDWATER	142.00	152.00	109.00	119.00	8330NX	2,6-DINITROTOLUENE	YES'
W84M1A	MW-84	08/24/2001	GROUNDWATER	140.00	150.00	103.00	113.00	8330NX	2,6-DINITROTOLUENE	YES
W84M2A	MW-84	08/27/2001	GROUNDWATER	104.00	114.00	67.00	77.00	8330NX	2,4-DINITROTOLUENE	NO

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS

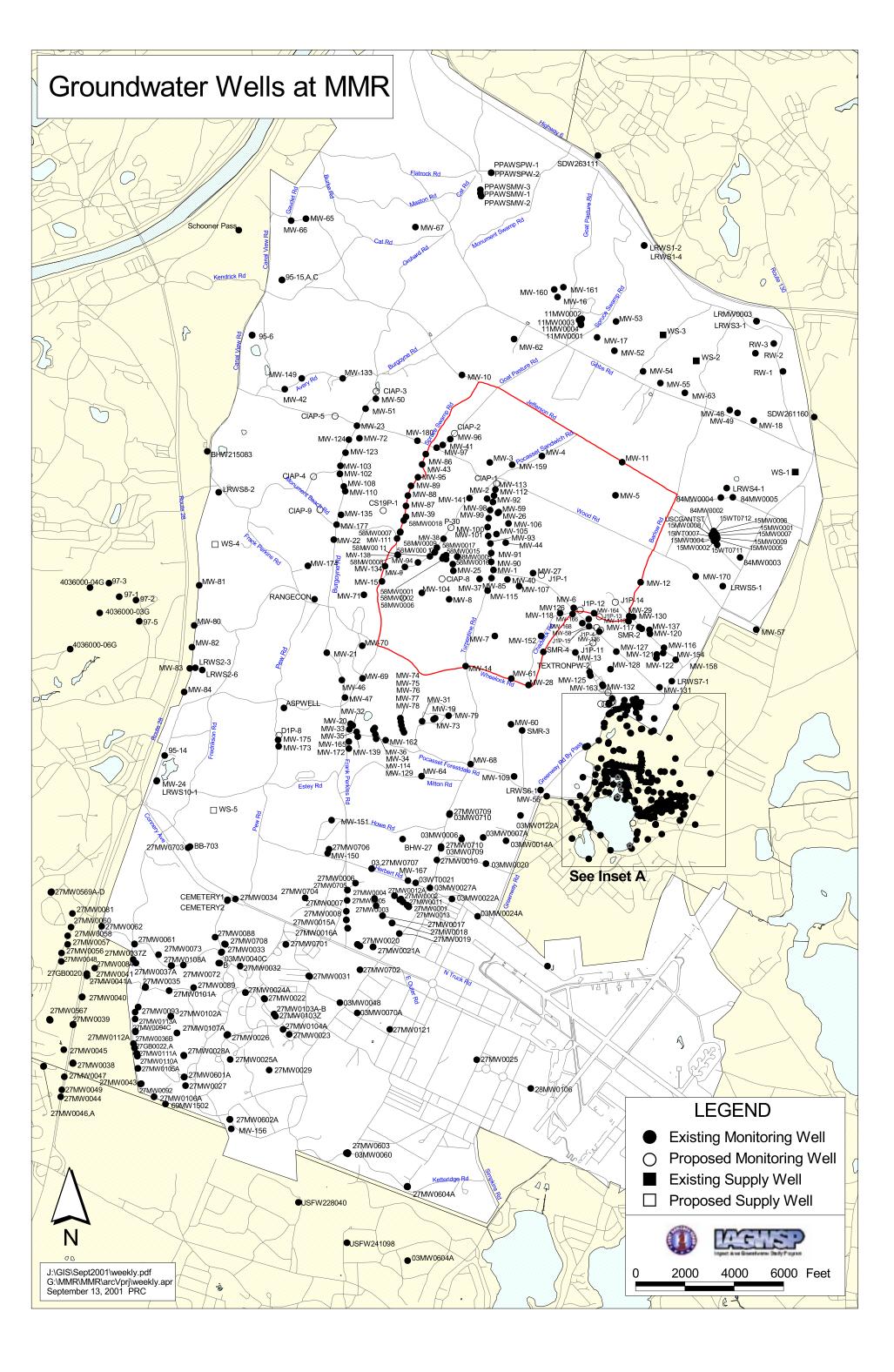
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS

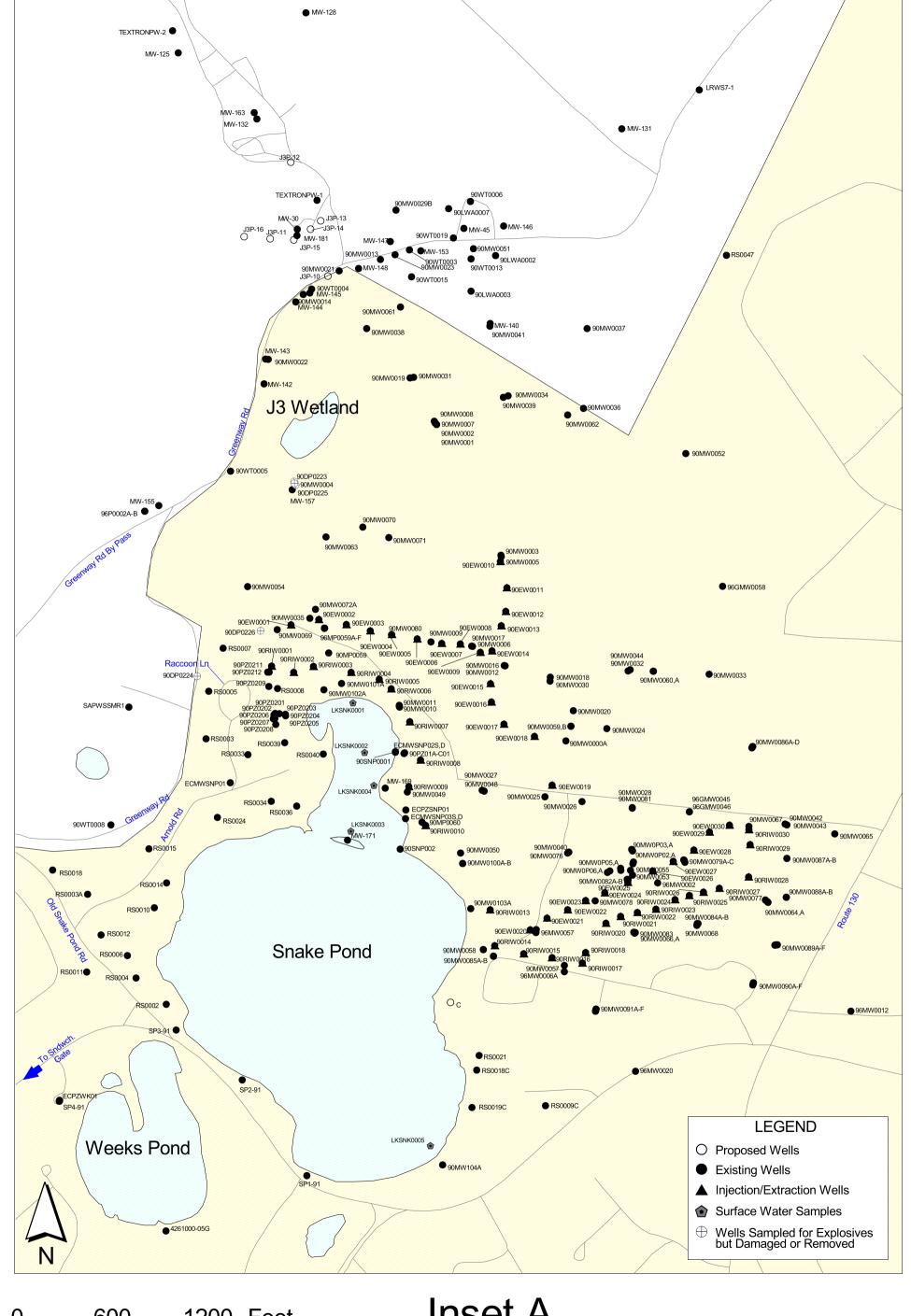
BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET

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





600 1200 Feet 0

# Inset A





