WEEKLY PROGRESS UPDATE
FOR FEBRUARY 7– FEBRUARY 11, 2000

EPA REGION I ADMINISTRATIVE ORDER SDWA I-97-1019
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from February 7 to February 11, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of February 11 is summarized in Table 1.

Table 1. Drilling progress as of February 11, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-85	Impact Area Response Well (P-9)	200	82	116-126 137.5-147.5
MW-86	Impact Area Response Well (P-12)	32		

bgs = below ground surface
bwt = below water table

Monitoring wells were installed at MW-85 (Impact Area response well P-9) and drilling commenced on MW-86 (Impact Area response well P-12). Well development continued for newly installed Demo 1 response wells. UXO clearance continued on Turpentine Road and at the Impact Area response well pads. UXO avoidance continued at soil sampling locations for Gun and Mortar positions.

Samples collected during the reporting period are summarized in Table 2. The third round of groundwater sampling was completed for the off-site supply wells. The second round of groundwater sampling continued for the Gun and Mortar wells. Sampling continued for the first round of Demo 1 response wells. Soil sampling continued on the Gun and Mortar positions at former GP-1 (Area 50), former GP-4 (Area 56), GP-6 (Area 58), GP-12 (Area 62), GP-24 (Area 69), and former MP-2 (Area 73). Soil samples were collected at the surface for boring MW-85, and during drilling at MW-86.

The Guard, EPA, and MADEP had a meeting on February 10 to discuss technical issues, including the following:

- A 17-page handout of the CHPMM report on the J-1 Range was provided for review. EPA provided a copy of the draft AFCEE report on thallium.

- A 4-page handout of the most recent Ogden internal field audit was provided for review.

- An update of the status of the CS-19 investigation was given by Jacobs Engineering. The 58MW0017 deep screen has been installed at 190-200 feet, the 58MW0018 boring is down to a depth of 80 feet, UXO clearance has been completed at 58MW0016 and 58MW0015, and the deep hand auger sampling has been completed. Three of the deep hand auger borings were advanced to the intended depth of 10 feet and three of the borings hit refusal before the intended depth (two at 6 feet and one at 8 feet). EPA requested the status of the detonation crater at CS-19 that had an explosive detection. The Guard asked if there are any proposed sampling locations in the area that could be used as local background. Jacobs indicated that they were not sure and would have to look at their expanded map.

EPA requested that this be resolved for next week's technical meeting. The Guard requested that Ogden cover the crater for now. EPA requested the status of the deep UXO survey. Jacobs indicated that the fieldwork was done but the data are not available yet.

- An update of the Water Supply Investigation was discussed. Ogden indicated that they have talked with the Foster Wheeler chemists, that STL is performing the explosive analysis, and that they will receive PDA spectra if there are any detections. The Guard distributed a 5-page handout of the analytical procedures that the Water Supply Investigation is using.

- An update of the Munitions Survey was given by Tetra Tech. The geophysical investigation at the Gun and Mortar positions should finish next week. Tetra Tech will continue with the brush and UXO clearance at Demo 1 during the week of 2/22, and this work remains on schedule. The revised Appendix C should be available to the EPA next week. The revised air photo interpretation should be completed next week.

- Ogden gave an update of the Rapid Response Action activities. The work plan is being prepared for Guard review by Tuesday or Wednesday next week. Plan is still on schedule to be delivered to EPA by 3/1. The MADEP asked what discussions were ongoing between EPA and the Guard on enclosed equipment. Ogden indicated it would be an enclosed treatment system to control dust and that the system will be on a containment pad. EPA suggested that since the detected compounds at KD Range and the steel lined pit are similar that they could be combined as one area. Ogden indicated that for now they will be treated as separate areas but would be combined later if possible. A 6-page handout of the draft cleanup numbers was distributed for review. Comments are requested for next weeks Technical Meeting. TRC asked what analytes were included in the numbers. Ogden indicated that the draft memo covers all analytes addressed in A03. MADEP asked when the Guard expected to determine the feasibility of background cleanup. If this is done after some cleanup is complete, it is not permissible to consider the increased cost of re-mobilizing equipment as a feasibility issue. MADEP noted that the Guard has the burden to prove that pesticides were applied consistent with labeling before dieldrin can be removed from the COC list.

  The Guard and agencies discussed a schedule for public involvement for the Rapid Response Actions. This schedule included an IART meeting/briefing (originally date discussed was 9 March, now tentative date of 8 March has been set) and a Public Meeting the week of 13-17 March (due to IRP conflicts, 16 March was discussed). This public meeting would kick off a two-week public comment period. The 23 March SMB meeting would fall in the middle of this comment period, and they would receive a briefing on the RRA at the SMB meeting. According to the draft Public Involvement Plan both provided by EPA and the plan recently submitted by NGB, a minimum of two weeks notice of an upcoming comment period should be provided to the public. Based on the above schedule, that notice should happen no later than 2 March.

- Ogden gave an update of the Groundwater Investigation. Drilling started on MW-86 (P-12) and a second drill rig will be mobilized next week to start on P-16; UXO clearance continues on Gun and Mortar positions; developing MW-85 (P-9); continuing to groundwater sample from the second round of Gun and Mortar wells; and continuing the soil sampling at Gun and Mortar positions. Ogden indicated that they are having trouble collecting the soil samples from Old GP-4 and Old GP-2. The old GP-4 position is now the area between UTES and the wash rack, which gets lots of heavy equipment traffic. The Guard is currently rebuilding the wash rack. Two figures of old GP-4 were distributed showing the grids with both the 1966 and 1994 aerial photos. Only two grids have been completed at Old GP-4. At Old MP-2 there is a brush and stump dump and some of the grids are located on the pile, therefore, some of the grids had to be moved. EPA requested that the sampling at Old GP-4 should be put on hold and that a revised map of the sampling locations at the Old MP-2 be sent to EPA.

- A 1-page handout of the Document Status was distributed for review. Guard should determine the status of the ASR revisions. Final versions of the Evaluation of Remedial Technologies report and TM 99-2 are expected shortly. EPA clarified that with respect to the Remedial Technologies MOR, they wanted to check that the RRA technologies are included (this was the "bioslurping" comment). Status of comments on the PEP responses was discussed. MADEP will check whether they have other comments not indicated in the table. Guard is discussing the recent comments on 2B and 2B-supplement workplans with Ogden, and a meeting with agencies is likely to discuss proposed responses. Response to comments on the groundwater modeling is expected in the next few weeks. EPA indicated that response to comments for the Training Area Workplan should be prepared similar to others, although EPA has specified deficiencies to be corrected. Ogden indicated that they have received comments from EPA on Tech Memo 99-1 (and supplement) and are waiting for MADEP comments. TM 99-6 and the report on the 8/3/99 BIPs will be submitted to agencies next week. EPA and MADEP requested a comprehensive schedule including all tasks in all three AOs.

- A 1-page draft cross section of the inner transect RDX response wells was distributed for review. Some corrections were noted, and Ogden will add projected particle tracks for nearby explosive detections to this transect.

- A 1-page map and a 4-page table of data from the Demo 1 soil samples were distributed for review. MADEP requested that the draft data tables be formatted to allow easier reading. MADEP asked if the Demo 1 soil is included as part of the Rapid Response Action. The Guard indicated that previous detections at Demo 1 were not included in A03. EPA indicated that the order allows additional areas to be included. MADEP indicated that this soil needs to be addressed in the short term.

- The EPA requested that a back track be modeled from the TNT detection in the profile sample from MW-78. Ogden indicated that the ground surface needs to be surveyed before an accurate back track can be done. EPA also requested that a site walk be done on the kettle hole south of Demo 1.

- The Training Area investigation was discussed. Ogden indicated that the start deadline is March 6th and that EPA comments require method development that may take several months. Ogden indicated that the Guard would have to request an extension unless method development is considered the start of the investigation. EPA stated that they would review the wording of this deadline with respect to method development.

- The technical meeting was scheduled for next Wednesday at 10:30. EPA requested a meeting to discuss the J-2 range work plan after the Tech Meeting next week with the possibility of a site walk.

- The Guard responded to some questions from the last IART meeting. All HE mortar and artillery rounds have been removed from the ASP, and the mortar illumination rounds are scheduled to be removed soon. The maintenance at the small arms ranges has included cleanup with hand tools but no mechanical grading; if sand bags were ripped open, the sand would be raked out.

- The Guard indicated that the well results from MW-76 and MW-77 have been received this morning. The RDX concentrations are similar to the profile samples and they will prepare a press release.

- The Guard indicated that they will prepare a letter for EPA review regarding disposition of the rocks from the berm maintenance project.

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:

- The groundwater sample from 27MW0017A had detections of 3-nitrotoluene (3-NT), 4-NT, and PETN, which were not verified by PDA spectra.
- The groundwater sample from 27MW0020Z had a detection of 3-NT, which was not verified by PDA spectra.
- The groundwater sample from 90LWA0007 had detections of 1,3-dinitrobenzene, 2-NT, 3-NT, 4-NT, RDX, and nitroglycerin. The RDX was verified by PDA spectra. This compound was not detected in previous sampling rounds.
- The groundwater sample from 90WT0015 had a detection of picric acid, which was not verified by PDA spectra.
- A groundwater profile duplicate sample from MW-85 had detections of 1,3,5-trinitrobenzene and RDX. The RDX was verified by PDA spectra.
- The groundwater sample from MW-75M2 had a detection of RDX, which was verified by the PDA spectra. This was the first sampling round for this new Demo 1 response well.
- The groundwater sample from MW-77M2 had a detection of 4-amino-2,6-dinitrotoluene, which was not verified by PDA spectra.

3. DELIVERABLES SUBMITTED

The following deliverables were submitted during this reporting period:

Weekly Progress Update (January 24-28)	2/8/00
Monthly Progress Report No. 34 (January 2000)	2/10/00

4. SCHEDULED ACTIONS

Scheduled actions for the week of February 14 include the continued soil sampling of Gun and Mortar positions; groundwater sampling of Demo 1 response wells and the steel lined pit well; continued UXO

clearance of Impact Area response well pads; continued UXO avoidance at Gun and Mortar grids; and the drilling of Impact Area response well at location P-12 (MW-86) and P-16 (MW-87).

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Development of the installed Demo 1 response wells will continue next week. Groundwater sampling will continue next week.

Crews will continue clearing brush this week and will continue next week for the Munitions Survey work in Demo 1.

TABLE 2
SAMPLING PROGRESS
2/7/00-2/11/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC50B1BAE	FIELDQC	02/08/2000	FIELDQC	0.00	0.00		
HC50F1BAE	FIELDQC	02/09/2000	FIELDQC	0.00	0.00		
HC58G1BAE	FIELDQC	02/07/2000	FIELDQC	0.00	0.00		
HC69G1BAE	FIELDQC	02/11/2000	FIELDQC	0.00	0.00		
HC73B1BAE	FIELDQC	02/10/2000	FIELDQC	0.00	0.00		
S85AAE	FIELDQC	02/08/2000	FIELDQC	0.00	0.00		
S86CAE	FIELDQC	02/11/2000	FIELDQC	0.00	0.00		
S86DAE	FIELDQC	02/11/2000	FIELDQC	0.00	0.00		
W64M1T	FIELDQC	02/07/2000	FIELDQC	0.00	0.00		
W65M2T	FIELDQC	02/10/2000	FIELDQC	0.00	0.00		
W67M1T	FIELDQC	02/11/2000	FIELDQC	0.00	0.00		
W69M1T	FIELDQC	02/08/2000	FIELDQC	0.00	0.00		
W71SST	FIELDQC	02/09/2000	FIELDQC	0.00	0.00		
4261000-10G	4261000-10G	02/09/2000	GROUNDWATER				
W64M1A	MW-64	02/07/2000	GROUNDWATER	129.00	139.00	34.99	44.99
W64M1D	MW-64	02/07/2000	GROUNDWATER	129.00	139.00	34.99	44.99
W64M2A	MW-64	02/07/2000	GROUNDWATER	100.00	105.00	5.98	10.98
W65M1A	MW-64	02/10/2000	GROUNDWATER	210.00	220.00	87.20	97.20
W65M2A	MW-65	02/11/2000	GROUNDWATER	129.00	134.00	6.20	11.20
W65SSA	MW-65	02/10/2000	GROUNDWATER	116.00	126.00	-6.87	3.13
W66M1A	MW-66	02/09/2000	GROUNDWATER	228.00	238.00	99.32	109.32
W66M2A	MW-66	02/10/2000	GROUNDWATER	141.00	151.00	11.77	21.77
W66SSA	MW-66	02/10/2000	GROUNDWATER	126.00	136.00	-3.20	6.80
W67M1A	MW-67	02/11/2000	GROUNDWATER	243.00	253.00	83.52	93.52
W67SSA	MW-67	02/11/2000	GROUNDWATER	161.00	171.00	3.77	13.77
W68M1A	MW-68	02/07/2000	GROUNDWATER	106.00	116.00	16.50	26.50
W68SSA	MW-68	02/08/2000	GROUNDWATER	84.00	94.00	-5.53	4.47
W69M1A	MW-69	02/08/2000	GROUNDWATER	190.00	200.00	75.98	85.98
W69M2A	MW-69	02/07/2000	GROUNDWATER	153.00	163.00	38.85	48.85
W69SSA	MW-69	02/08/2000	GROUNDWATER	110.00	120.00	-4.10	5.90
W70M1A	MW-70	02/09/2000	GROUNDWATER	257.00	267.00	127.67	137.67
W70SSA	MW-70	02/09/2000	GROUNDWATER	132.00	142.00	2.70	12.70
W71M1A	MW-71	02/08/2000	GROUNDWATER	180.00	190.00	18.82	28.82
W71SSA	MW-71	02/09/2000	GROUNDWATER	158.00	168.00	-3.52	6.48
W71SSD	MW-71	02/09/2000	GROUNDWATER	158.00	168.00	-3.52	6.48
W78M1A	MW-78	02/07/2000	GROUNDWATER	135.00	145.00	54.60	64.60
W78M2A	MW-78	02/07/2000	GROUNDWATER	115.00	125.00	34.58	44.58
W78M2D	MW-78	02/07/2000	GROUNDWATER	115.00	125.00	34.58	44.58
W78M3A	MW-78	02/07/2000	GROUNDWATER	85.00	95.00	4.80	14.80
GAC7408	GAC WATER	02/08/2000	IDW				
HC50A1AAA	50A	02/08/2000	SOIL GRID	0.00	0.50		
HC50A1BAA	50A	02/08/2000	SOIL GRID	1.50	2.00		
HC50B1AAA	50B	02/08/2000	SOIL GRID	0.00	0.50		

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
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TABLE 2
SAMPLING PROGRESS
2/7/00-2/11/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC50B1BAA	50B	02/08/2000	SOIL GRID	1.50	2.00		
HC50C1AAA	50C	02/08/2000	SOIL GRID	0.00	0.50		
HC50C1BAA	50C	02/08/2000	SOIL GRID	1.50	2.00		
HC50D1AAA	50D	02/08/2000	SOIL GRID	0.00	0.50		
HC50D1BAA	50D	02/08/2000	SOIL GRID	1.50	2.00		
HC50E1AAA	50E	02/10/2000	SOIL GRID	0.00	0.50		
HC50E1BAA	50E	02/10/2000	SOIL GRID	1.50	2.00		
HC50F1AAA	50F	02/09/2000	SOIL GRID	0.00	0.50		
HC50F1BAA	50F	02/09/2000	SOIL GRID	1.50	2.00		
HC50G1AAA	50G	02/09/2000	SOIL GRID	0.00	0.50		
HC50G1BAA	50G	02/09/2000	SOIL GRID	1.50	2.00		
HC50H1AAA	50H	02/09/2000	SOIL GRID	0.00	0.50		
HC50H1AAD	50H	02/09/2000	SOIL GRID	0.00	0.50		
HC50H1BAA	50H	02/09/2000	SOIL GRID	1.50	2.00		
HC50I1AAA	50I	02/09/2000	SOIL GRID	0.00	0.50		
HC50I1BAA	50I	02/09/2000	SOIL GRID	1.50	2.00		
HC50J1AAA	50J	02/08/2000	SOIL GRID	0.00	0.50		
HC50J1BAA	50J	02/08/2000	SOIL GRID	1.50	2.00		
HC50J1BAD	50J	02/08/2000	SOIL GRID	1.50	2.00		
HC50K1AAA	50K	02/08/2000	SOIL GRID	0.00	0.50		
HC50K1BAA	50K	02/08/2000	SOIL GRID	1.50	2.00		
HC50L1AAA	50L	02/08/2000	SOIL GRID	0.00	0.50		
HC50L1BAA	50L	02/09/2000	SOIL GRID	1.50	2.00		
HC50M1AAA	50M	02/08/2000	SOIL GRID	0.00	0.50		
HC50M1BAA	50M	02/08/2000	SOIL GRID	1.50	2.00		
HC50N1AAA	50N	02/09/2000	SOIL GRID	0.00	0.50		
HC50N1AAD	50N	02/09/2000	SOIL GRID	0.00	0.50		
HC50N1BAA	50N	02/09/2000	SOIL GRID	1.50	2.00		
HC56B1AAA	56B	02/07/2000	SOIL GRID	0.00	0.50		
HC56G1AAA	56G	02/07/2000	SOIL GRID	0.00	0.50		
HC56G1BAA	56G	02/07/2000	SOIL GRID	1.50	2.00		
HC56H1AAA	56H	02/10/2000	SOIL GRID	0.00	0.50		
HC56H1BAA	56H	02/10/2000	SOIL GRID	1.50	2.00		
HC58G1AAA	58G	02/07/2000	SOIL GRID	0.00	0.50		
HC58G1BAA	58G	02/07/2000	SOIL GRID	1.50	2.00		
HC62C1AAA	62C	02/07/2000	SOIL GRID	0.00	0.50		
HC62C1BAA	62C	02/07/2000	SOIL GRID	1.50	2.00		
HC69A1AAA	69A	02/10/2000	SOIL GRID	0.00	0.50		
HC69A1AAD	69A	02/10/2000	SOIL GRID	0.00	0.50		
HC69A1BAA	69A	02/10/2000	SOIL GRID	1.50	2.00		
HC69B1AAA	69B	02/10/2000	SOIL GRID	0.00	0.50		
HC69B1BAA	69B	02/10/2000	SOIL GRID	1.50	2.00		
HC69C1AAA	69C	02/10/2000	SOIL GRID	0.00	0.50		
HC69C1BAA	69C	02/10/2000	SOIL GRID	1.50	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
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TABLE 2
SAMPLING PROGRESS
2/7/00-2/11/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC69D1AAA	69D	02/11/2000	SOIL GRID	0.00	0.50		
HC69D1BAA	69D	02/11/2000	SOIL GRID	1.50	2.00		
HC69E1AAA	69E	02/11/2000	SOIL GRID	0.00	0.50		
HC69E1BAA	69E	02/11/2000	SOIL GRID	1.50	2.00		
HC69F1AAA	69F	02/11/2000	SOIL GRID	0.00	0.50		
HC69F1BAA	69F	02/11/2000	SOIL GRID	1.50	2.00		
HC69G1AAA	69G	02/11/2000	SOIL GRID	0.00	0.50		
HC69G1BAA	69G	02/11/2000	SOIL GRID	1.50	2.00		
HC73A1AAA	73A	02/10/2000	SOIL GRID	0.00	0.50		
HC73A1BAA	73A	02/10/2000	SOIL GRID	1.50	2.00		
HC73B1AAA	73B	02/10/2000	SOIL GRID	0.00	0.50		
HC73B1BAA	73B	02/10/2000	SOIL GRID	1.50	2.00		
HC73C1AAA	73C	02/11/2000	SOIL GRID	0.00	0.50		
HC73C1BAA	73C	02/11/2000	SOIL GRID	1.50	2.00		
HC73D1AAA	73D	02/10/2000	SOIL GRID	0.00	0.50		
HC73D1BAA	73D	02/10/2000	SOIL GRID	1.50	2.00		
HC73E1AAA	73E	02/10/2000	SOIL GRID	0.00	0.50		
HC73E1BAA	73E	02/11/2000	SOIL GRID	1.50	2.00		
HC73F1AAA	73F	02/11/2000	SOIL GRID	0.00	0.50		
HC73F1BAA	73F	02/11/2000	SOIL GRID	1.50	2.00		
HC73G1AAA	73G	02/11/2000	SOIL GRID	0.00	0.50		
HC73G1BAA	73G	02/11/2000	SOIL GRID	1.50	2.00		
HC73J1AAA	73J	02/11/2000	SOIL GRID	0.00	0.50		
HC73J1BAA	73J	02/11/2000	SOIL GRID	1.50	2.00		
HC73K1AAA	73K	02/11/2000	SOIL GRID	0.00	0.50		
S85AAA	85A	02/08/2000	SOIL GRID	0.00	0.50		
S85BAA	85B	02/08/2000	SOIL GRID	1.50	2.00		
S86CAA	86C	02/11/2000	SOIL GRID	10.00	12.00		
S86DAA	86D	02/11/2000	SOIL GRID	17.00	19.00		
S86EAA	86E	02/11/2000	SOIL GRID	30.00	32.00		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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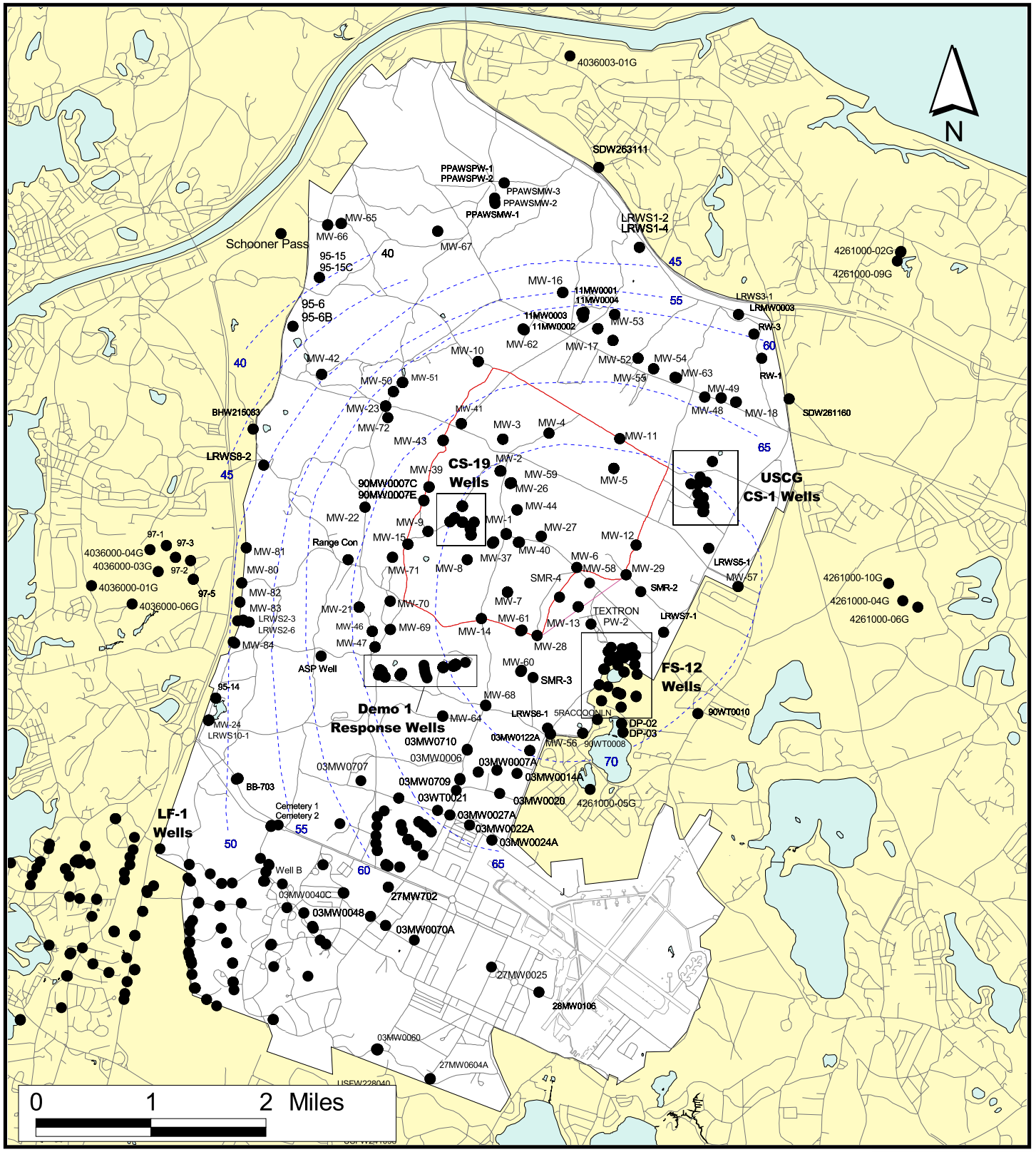
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 2/7/00-2/11/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
27MW0017A	27MW0017A	01/26/2000	GROUNDWATER	134.00	139.00	47.80	52.80	8330N	3-NITROTOLUENE	NO
27MW0017A	27MW0017A	01/26/2000	GROUNDWATER	134.00	139.00	47.80	52.80	8330N	4-NITROTOLUENE	NO
27MW0017A	27MW0017A	01/26/2000	GROUNDWATER	134.00	139.00	47.80	52.80	8330N	PENTAERYTHRITOL TETRANITR	NO
27MW0020Z	27MW0020Z	01/28/2000	GROUNDWATER	168.00	178.00	-14.60	-4.60	8330N	3-NITROTOLUENE	NO
90LWA0007	90LWA0007	02/01/2000	GROUNDWATER	92.00	102.00	-2.00	8.00	8330N	1,3-DINITROBENZENE	NO
90LWA0007	90LWA0007	02/01/2000	GROUNDWATER	92.00	102.00	-2.00	8.00	8330N	2-NITROTOLUENE	NO
90LWA0007	90LWA0007	02/01/2000	GROUNDWATER	92.00	102.00	-2.00	8.00	8330N	3-NITROTOLUENE	NO
90LWA0007	90LWA0007	02/01/2000	GROUNDWATER	92.00	102.00	-2.00	8.00	8330N	4-NITROTOLUENE	NO
90LWA0007	90LWA0007	02/01/2000	GROUNDWATER	92.00	102.00	-2.00	8.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
90LWA0007	90LWA0007	02/01/2000	GROUNDWATER	92.00	102.00	-2.00	8.00	8330N	NITROGLYCERIN	NO
90WT0015	90WT0015	02/02/2000	GROUNDWATER	90.00	100.00	0.65	10.65	8330N	PICRIC ACID	NO
G85MBD	MW-85	02/02/2000	PROFILE	130.00	130.00	12.00	12.00	8330N	1,3,5-TRINITROBENZENE	NO
G85MBD	MW-85	02/02/2000	PROFILE	130.00	130.00	12.00	12.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W75M2A	MW-75	01/27/2000	GROUNDWATER	115.00	125.00	31.33	41.33	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W77M2A	MW-77	01/25/2000	GROUNDWATER	120.00	130.00	34.76	44.76	8330N	4-AMINO-2,6-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



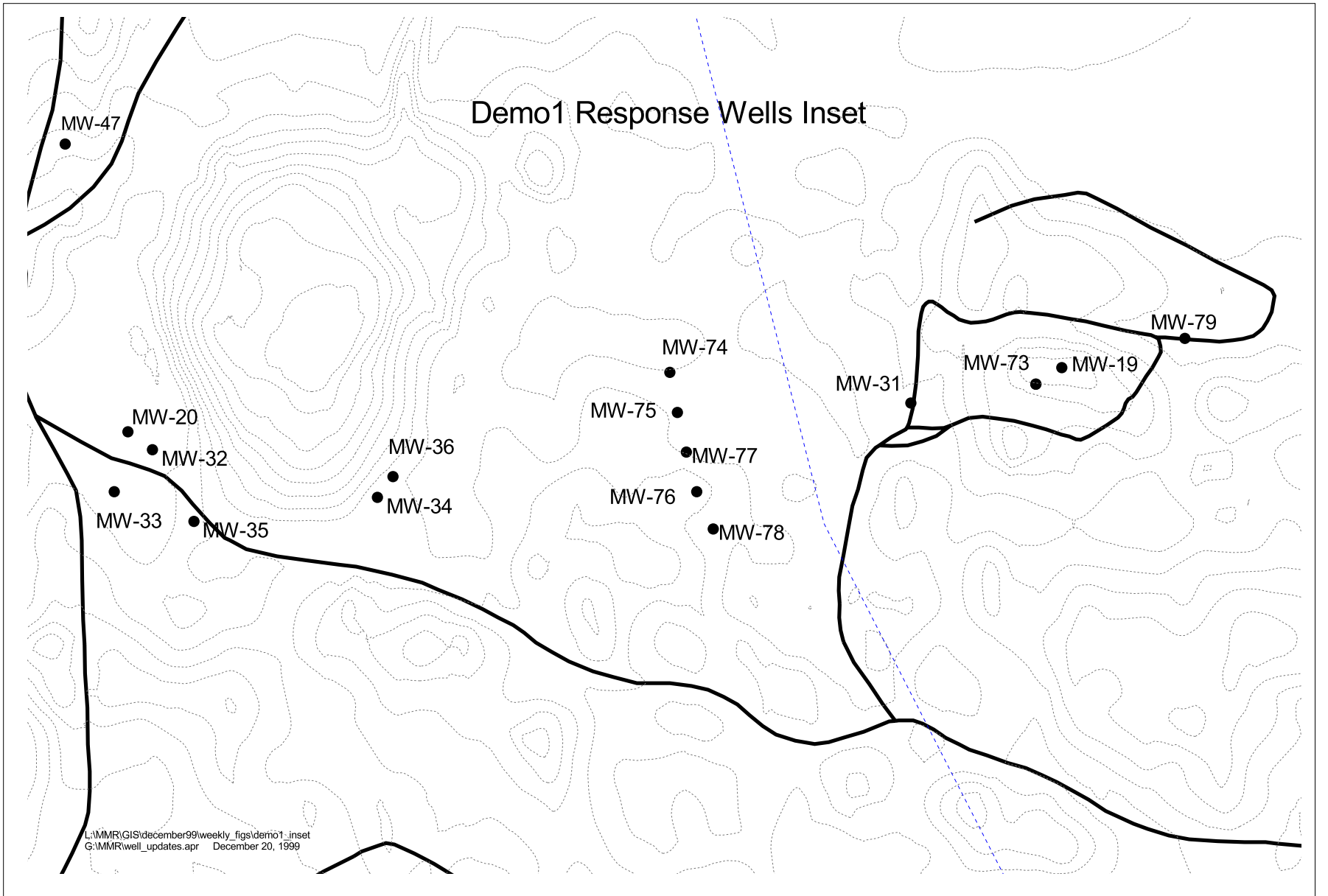
Sources & Notes

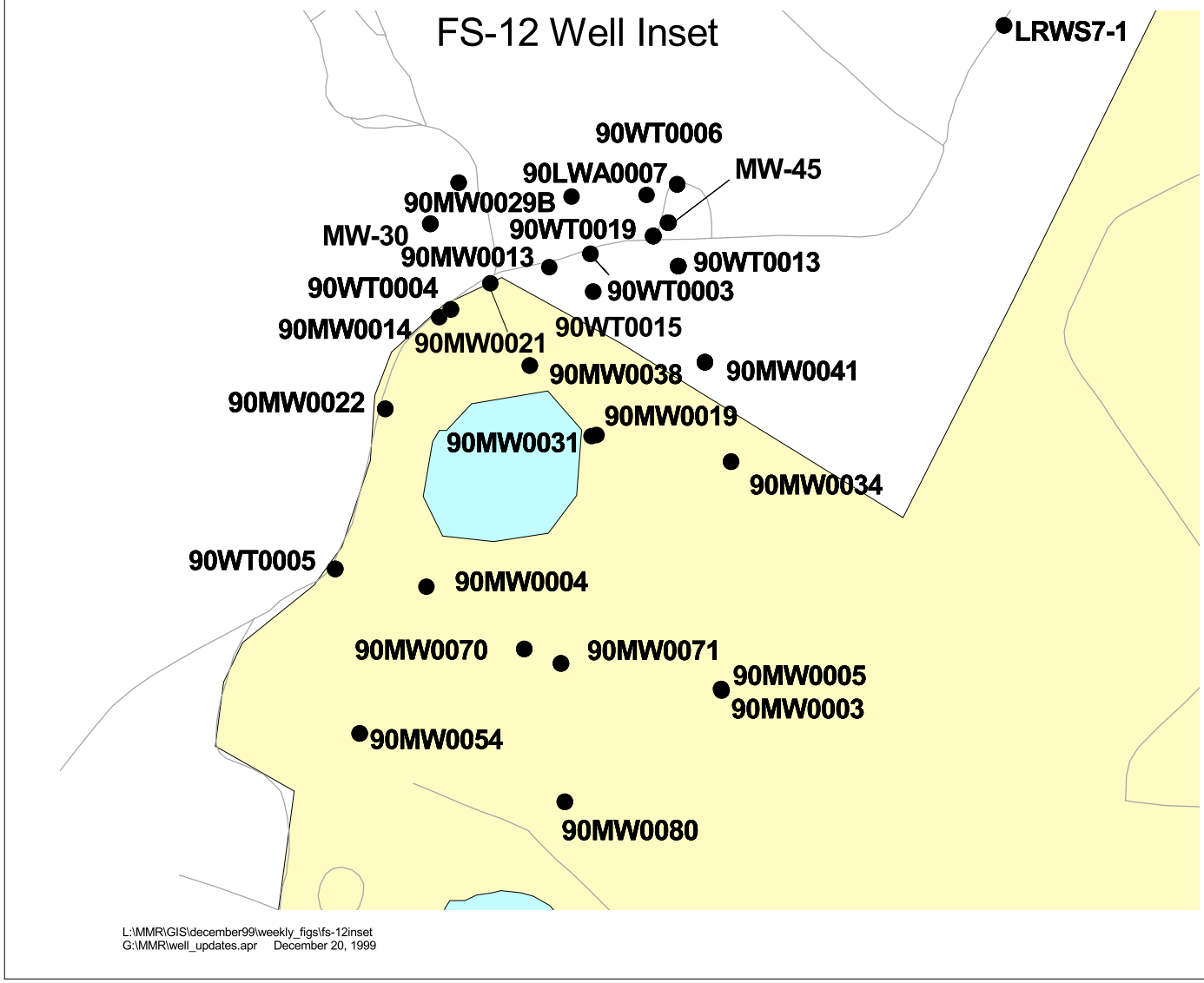
Map Coordinates: Stateplane,
NAD83, Zone 4151, Meters
Source: MASSGIS

Location of Existing and Proposed Groundwater Monitoring Wells As Of 12/16/99

L:\MMR\GIS\december99\weekly_figs\dec1699_wells
G:\MMR\well_updates.apr December 20, 1999

December 16, 1999 DRAFT


Demo1 Response Wells Inset
MW-47
MW-79
MW-74
MW-73
MW-19
MW-31
MW-75
MW-20
MW-32
MW-36
MW-77
MW-34
MW-76
MW-33
MW-35
MW-78
L:\MMR\GIS\december99\weekly_figs\demo1_inset
G:\MMR\well_updates.apr December 20, 1999


FS-12 Well Inset
LRWS7-1
90WT0006
90LWA0007
MW-45
90MW0029B
MW-30
90WT0019
90MW0013
90WT0013
90WT0004
90WT0003
90MW0014
90MW0021
90WT0015
90MW0038
90MW0041
90MW0022
90MW0019
90MW0031
90MW0034
90WT0005
90MW0004
90MW0070
90MW0071
90MW0005
90MW0003
90MW0054
90MW0080
L:\MMR\GIS\december99\weekly_figs\fs-12inset
G:\MMR\well_updates.apr December 20, 1999