WEEKLY PROGRESS UPDATE
FOR JANUARY 3 – JANUARY 7, 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 January 3 to January 7, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of January 7 is summarized in Table 1.

Table 1. Drilling progress as of January 7, 1999

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-78	Demo 1 Response Well	195	115	

bgs = below ground surface
bwt = below water table

Development of the MW-75 and MW-77 wells (Demo 1 response wells) commenced. UXO clearance continued at the Gun and Mortar Position grids and UXO clearance commenced at Turpentine Road for the RDX response wells.

Samples collected during the reporting period are summarized in Table 2. A second round of groundwater samples were collected from some RDX response wells (MW-44), KD Range wells (MW-60, -61), U Range well (MW-62), and Group 2 far field wells (MW-63, -80, -81). Ground water profile samples were collected from MW-78 (Demo 1 response well). Soil sampling continued on the following Gun and Mortar positions: GP-6 (Area 58), MP-1 (Area 70), MP-4 (Area 75), and the Former H Range (Area 79). Soil sampling continued on the following Mortar Targets: Target 4 (Area 82) and Target 5 (Area 83). Soil sampling was completed in Demo 1 for the seven locations identified in the 12/22/99 site walk and the three locations identified in the previous site walk (these are shown as LOCID "11O" to "19C" in Table 2).

The Guard, EPA, and MADEP had a meeting on January 6 to discuss technical issues, including the following:

- Jacobs provided an update on the CS-19 investigation. They have received approval to perform the subsurface portion of the investigation. They expect to start drilling by 1/24/00. The order of the well installation will be discussed at a future meeting. There was a discussion of the conference call procedure for selecting well screen depths.

  Regarding CS-19, EPA advised the Guard that they are discussing the schedule with AFCEE. EPA wants to shorten the schedule, and suggested the Guard also discuss with AFCEE since both parties are involved at this location.

- Tetra Tech provided an update on the Munitions Survey. They have started operations in Demo Area 1 and expect the initial UXO clearance and vegetation removal to require several days. They are setting up a calibration area for the geophysics equipment. A second UXO team will be working on gun and mortar positions. Coordination with Ogden (sampling soil at gun and mortar positions) was

discussed at a 1/5/00 meeting and will be ongoing. There was a discussion of how vegetation removal will be minimized.

- Ogden provided an update on the Groundwater Study. Groundwater sampling continued for the "new Group 2" wells and the Phase II (a) wells installed last due to UXO issues. Soil sampling continued at gun and mortar positions and several other locations. Ogden mentioned the potential to seek an extension on soil sampling deadlines if frozen soil continues to be a problem, as it was last week and the week before. Drilling resumed downgradient from Demo 1, and a conference call to discuss profile results is expected for Monday 1/10.

  The Guard discussed plans for a controlled burn to reduce the fire hazard in a portion of the Impact Area. The burn would be conducted between 1/15/00 and 3/31/00, most likely in mid-February or later. EPA asked how the burn would be coordinated with the IAGS. It was agreed to arrange a meeting with the Post Biologist to discuss these issues. This item will also be included for discussion at the 1/20/00 IART meeting.

- The Guard provided a 3-page update of the sampling program for Demo 1, including attached photos from Mr. Zanis. Sampling at the munition debris locations was discussed. Grab samples have been collected by Ogden and are on hold at the lab. EPA would like to determine if it is possible to analyze these samples for SVOCs, dioxin, and by 8321 in addition to the 8330 analysis. Ogden will evaluate sample volume and holding time requirements, and discuss with Guard and agencies on Monday 1/10.

- Discussion of the preliminary results of gun and mortar soil samples will be pushed back to next week, pending receipt of additional data. EPA asked that the data table be provided early in the week to allow time for review prior to the meeting.

- There was a discussion of the agenda for the 1/20/00 IART meeting. It was agreed to include the following topics:
  - Administrative Order #3
  - Resolution of the Notice of Noncompliance
  - Controlled Burn in the Impact Area
  - Propellant Information
  - Controlled Detonation Chamber (potential)
  - Results of APC Investigation
  - Update on the Groundwater Study

  The presentation by Jacobs requested at the 12/15/99 IART meeting will be provided in February due to funding issues.

- There was a discussion of the 12/15/99 IART meeting action items. Items 1-3 and 5-7 are done. EPA has taken item 4 under consideration. Item 8 will be handled by JPO when the minutes are available. Item 9 will be at the 1/20/00 meeting; EPA has not heard any specific questions from the IART concerning this topic. Item 10 will be at the February meeting. EPA will address item 12.

- Tetra Tech asked EPA for specific limits for the High Use Target Area. EPA indicated this remains to be determined from aerial photos.

- There was a discussion of the need to coordinate between Guard and EPA on NEPA issues for the Munitions Survey.

- The Guard provided a 5-page handout summarizing soil sampling results at Demo 2 for the area impacted by the 10/2/99 demolition. The results indicate that the current RDX concentrations are between non-detect and 129 ppb. The Guard recommends that further response actions be suspended pending determination of an action level protective of groundwater. The agencies will review this information.

- The priorities for installation of RDX response wells were discussed. Drilling is expected to begin by 1/18/00, and work started yesterday to clear the section of Turpentine Road between Tank Alley and Five Corners. It was agreed to concentrate initially on the southernmost particle tracks, installing P-4 and P-9 from the workplan.

- EPA gave its approval to the Memorandum of Resolution for the gun/mortar FSP.

- The Guard handed out a Release Notification Form for several 120-day notification requirements.

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 profile samples from well MW-78 (Demo 1 response well) had detections of 2,4,6-trinitrotoluene (1 interval), 2,6-dinitrotoluene (1 interval), 2-amino-4,6-dinitrotoluene (1 interval), 3-nitrotoluene (1 interval), 4-nitrotoluene (1 interval), and nitroglycerin (4 intervals). Only the 2,4,6-trinitrotoluene and the 2,6-dinitrotoluene were verified with the PDA spectra.

- The soil samples from two grids at the APC had detections of 2-amino-4,6-dinitrotoluene (3 samples) and RDX (1 sample), which were verified by the PDA spectra.

3. DELIVERABLES SUBMITTED

Weekly Progress Update (Dec 27-31)	1/5/2000
Supplemental Analytical Results for TM 99-1	1/5/2000

4. SCHEDULED ACTIONS

Scheduled actions for the week of January 10 include the continued development of newly installed wells, the continued soil sampling of Gun and Mortar positions and mortar targets, groundwater sampling of the second round of supplemental IRP wells and new priority 2 far field wells, completion of MW-78 and the commencement of the drilling of MW-74.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Drilling was started and completed on MW-78 (the southernmost response well), with a total of 12 profile samples collected. Results for these samples are provided in Table 3 and indicate shallow detections of TNT and 2,6-DNT. RDX was not detected, and the depth of the TNT and DNT detection suggests that these contaminants are not related to the Demo 1 plume. Therefore it appears that this well has established the southern boundary of the RDX contamination downgradient of Demo 1. Screen depths for MW-78 will be selected on 1/10. The next location to be drilled is MW-74 (the northernmost response well), and drilling will commence during the week of 1/10.

Soil samples were collected from three depths (0”- 3”, 3”-6”, and 6”-12”) at each of the seven locations identified in the December 22 site walk. Analytical parameters for these samples will be discussed on 1/10. Soil samples were collected from two depths (3”-6” and 6”-12”) at the three locations identified in the previous site walk. These three locations had previously been sampled at the surface.

Mobilization commenced for the Munitions Survey at Demo 1. Brush cutting and UXO clearance began in preparation for the geophysics survey.

TABLE 2
SAMPLING PROGRESS
1/3/00-1/7/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G78MAE	FIELDQC	1/5/2000	FIELDQC	0.00	0.00		
G78MAT	FIELDQC	1/5/2000	FIELDQC	0.00	0.00		
G78MKE	FIELDQC	1/6/2000	FIELDQC	0.00	0.00		
G78MKT	FIELDQC	1/6/2000	FIELDQC	0.00	0.00		
HC75A1AAE	FIELDQC	1/3/2000	FIELDQC	0.00	0.00		
HC75A1AAT	FIELDQC	1/3/2000	FIELDQC	0.00	0.00		
HC75B1AAT	FIELDQC	1/4/2000	FIELDQC	0.00	0.00		
HC79A1AAE	FIELDQC	1/4/2000	FIELDQC	0.00	0.00		
HC79D1AAE	FIELDQC	1/5/2000	FIELDQC	0.00	0.00		
HC79G1AAE	FIELDQC	1/6/2000	FIELDQC	0.00	0.00		
HC83A1AAE	FIELDQC	1/7/2000	FIELDQC	0.00	0.00		
HC83A1AAT	FIELDQC	1/7/2000	FIELDQC	0.00	0.00		
W44SSA	MW-44	1/3/2000	GROUNDWATER	123.00	133.00	-5.13	4.87
W44SSD	MW-44	1/3/2000	GROUNDWATER	123.00	133.00	-5.13	4.87
W60SSA	MW-60	1/3/2000	GROUNDWATER	91.00	101.00	-3.60	6.40
W61SSA	MW-61	1/3/2000	GROUNDWATER	98.00	108.00	-3.95	6.05
W62SSA	MW-62	1/4/2000	GROUNDWATER	108.00	118.00	-3.39	6.61
W63DDA	MW-63	1/5/2000	GROUNDWATER	375.00	380.00	220.00	225.00
W63M1A	MW-63	1/5/2000	GROUNDWATER	244.00	254.00	89.00	99.00
W63M1D	MW-63	1/5/2000	GROUNDWATER	244.00	254.00	89.00	99.00
W63M2A	MW-63	1/4/2000	GROUNDWATER	214.00	224.00	58.58	68.58
W63M3A	MW-63	1/4/2000	GROUNDWATER	182.00	192.00	26.50	36.50
W63SSA	MW-63	1/4/2000	GROUNDWATER	153.00	163.00	-2.40	7.60
W80DDA	MW-80	1/7/2000	GROUNDWATER	158.00	168.00	111.11	121.11
W80M1A	MW-80	1/5/2000	GROUNDWATER	130.00	140.00	83.01	93.01
W80M2A	MW-80	1/6/2000	GROUNDWATER	100.00	110.00	53.02	63.02
W80M3A	MW-80	1/6/2000	GROUNDWATER	70.00	80.00	22.95	32.95
W80SSA	MW-80	1/6/2000	GROUNDWATER	43.00	53.00	-4.10	5.90
W81M1A	MW-81	1/7/2000	GROUNDWATER	128.00	138.00	97.90	107.90
W81M3A	MW-81	1/7/2000	GROUNDWATER	53.00	58.00	23.24	28.24
W81M3D	MW-81	1/7/2000	GROUNDWATER	53.00	58.00	23.24	28.24
GAC7714	GAC WATER	1/4/2000	IDW	0.00	0.00		
HWB262	HOLDING BLANK	1/4/2000	OTHER	0.00	0.00		
G78MAA	MW-78	1/5/2000	PROFILE	90.00	90.00	10.00	10.00
G78MBA	MW-78	1/5/2000	PROFILE	95.00	95.00	15.00	15.00
G78MCA	MW-78	1/5/2000	PROFILE	105.00	105.00	25.00	25.00
G78MDA	MW-78	1/5/2000	PROFILE	115.00	115.00	35.00	35.00
G78MEA	MW-78	1/5/2000	PROFILE	125.00	125.00	45.00	45.00
G78MED	MW-78	1/5/2000	PROFILE	125.00	125.00	45.00	45.00
G78MFA	MW-78	1/5/2000	PROFILE	135.00	135.00	55.00	55.00
G78MGA	MW-78	1/5/2000	PROFILE	145.00	145.00	65.00	65.00
G78MHA	MW-78	1/5/2000	PROFILE	155.00	155.00	75.00	75.00
G78MIA	MW-78	1/5/2000	PROFILE	165.00	165.00	85.00	85.00

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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TABLE 2
SAMPLING PROGRESS
1/3/00-1/7/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G78MJA	MW-78	1/5/2000	PROFILE	175.00	175.00	95.00	95.00
G78MKA	MW-78	1/6/2000	PROFILE	185.00	185.00	105.00	105.00
G78MLA	MW-78	1/6/2000	PROFILE	195.00	195.00	115.00	115.00
HC58A1AAA	58A	1/7/2000	SOIL GRID	0.00	0.50		
HC58A1BAA	58A	1/7/2000	SOIL GRID	1.50	2.00		
HC58B1AAA	58B	1/7/2000	SOIL GRID	0.00	0.50		
HC70B1BAA	70B	1/3/2000	SOIL GRID	1.50	2.00		
HC75A1AAA	75A	1/3/2000	SOIL GRID	0.00	0.50		
HC75A1BAA	75A	1/4/2000	SOIL GRID	1.50	2.00		
HC75B1AAA	75B	1/4/2000	SOIL GRID	0.00	0.50		
HC75B1BAA	75B	1/4/2000	SOIL GRID	1.50	2.00		
HC75C1AAA	75C	1/4/2000	SOIL GRID	0.00	0.50		
HC75C1BAA	75C	1/4/2000	SOIL GRID	1.50	2.00		
HC79A1AAA	79A	1/4/2000	SOIL GRID	0.00	0.50		
HC79A1AAD	79A	1/4/2000	SOIL GRID	0.00	0.50		
HC79A1BAA	79A	1/5/2000	SOIL GRID	0.00	0.50		
HC79B1AAA	79B	1/5/2000	SOIL GRID	0.00	0.50		
HC79B1BAA	79B	1/5/2000	SOIL GRID	1.50	2.00		
HC79C1AAA	79C	1/5/2000	SOIL GRID	0.00	0.50		
HC79C1BAA	79C	1/5/2000	SOIL GRID	1.50	2.00		
HC79D1AAA	79D	1/6/2000	SOIL GRID	0.00	0.50		
HC79D1BAA	79D	1/6/2000	SOIL GRID	1.50	2.00		
HC79E1AAA	79E	1/5/2000	SOIL GRID	0.00	0.50		
HC79E1BAA	79E	1/5/2000	SOIL GRID	1.50	2.00		
HC79F1AAA	79F	1/6/2000	SOIL GRID	0.00	0.50		
HC79F1BAA	79F	1/6/2000	SOIL GRID	1.50	2.00		
HC79G1AAA	79G	1/6/2000	SOIL GRID	0.00	0.50		
HC79G1BAA	79G	1/6/2000	SOIL GRID	1.50	2.00		
HC79H1AAA	79H	1/7/2000	SOIL GRID	0.00	0.50		
HC79H1BAA	79H	1/7/2000	SOIL GRID	1.50	2.00		
HC79I1AAA	79I	1/7/2000	SOIL GRID	0.00	0.50		
HC79I1BAA	79I	1/7/2000	SOIL GRID	1.50	2.00		
HC79K1AAA	79K	1/3/2000	SOIL GRID	0.00	0.50		
HC79K1BAA	79K	1/3/2000	SOIL GRID	1.50	2.00		
HC79L1AAA	79L	1/3/2000	SOIL GRID	0.00	0.50		
HC79L1BAA	79L	1/3/2000	SOIL GRID	1.50	2.00		
HC82A1AAA	82A	1/5/2000	SOIL GRID	0.00	0.25		
HC82A1AAA	82A	1/6/2000	SOIL GRID	0.00	0.25		
HC82B1AAA	82B	1/6/2000	SOIL GRID	0.00	0.25		
HC82B1AAD	82B	1/6/2000	SOIL GRID	0.00	0.25		
HC82B1BAA	82B	1/6/2000	SOIL GRID	0.25	0.50		
HC82B1CAA	82B	1/6/2000	SOIL GRID	0.50	1.00		
HC83A1AAA	83A	1/7/2000	SOIL GRID	0.00	0.25		
HC83A1BAA	83A	1/7/2000	SOIL GRID	0.25	0.50		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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TABLE 2
SAMPLING PROGRESS
1/3/00-1/7/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC83A1CAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HC83B1AAA	83B	1/7/2000	SOIL GRID	0.00	0.25		
HD82A1AAA	82A	1/5/2000	SOIL GRID	0.00	0.25		
HD82A1BAA	82A	1/6/2000	SOIL GRID	0.25	0.50		
HD82A1CAA	82A	1/6/2000	SOIL GRID	0.50	1.00		
HD82A3AAA	82A	1/5/2000	SOIL GRID	0.00	0.25		
HD82A3BAA	82A	1/6/2000	SOIL GRID	0.25	0.50		
HD82A3CAA	82A	1/6/2000	SOIL GRID	0.50	1.00		
HD82A5AAA	82A	1/5/2000	SOIL GRID	0.00	0.25		
HD82A5BAA	82A	1/6/2000	SOIL GRID	0.25	0.50		
HD82A5CAA	82A	1/6/2000	SOIL GRID	0.50	1.00		
HD82A7AAA	82A	1/5/2000	SOIL GRID	0.00	0.25		
HD82A7BAA	82A	1/6/2000	SOIL GRID	0.25	0.50		
HD82A7CAA	82A	1/6/2000	SOIL GRID	0.50	1.00		
HD82B1AAA	82B	1/6/2000	SOIL GRID	0.00	0.25		
HD82B1BAA	82B	1/6/2000	SOIL GRID	0.25	0.50		
HD82B1CAA	82B	1/6/2000	SOIL GRID	0.50	1.00		
HD82B3AAA	82B	1/6/2000	SOIL GRID	0.00	0.25		
HD82B3BAA	82B	1/6/2000	SOIL GRID	0.25	0.50		
HD82B3CAA	82B	1/6/2000	SOIL GRID	0.50	1.00		
HD82B5AAA	82B	1/6/2000	SOIL GRID	0.00	0.25		
HD82B5BAA	82B	1/6/2000	SOIL GRID	0.25	0.50		
HD82B5CAA	82B	1/6/2000	SOIL GRID	0.50	1.00		
HD82B7AAA	82B	1/6/2000	SOIL GRID	0.00	0.25		
HD82B7BAA	82B	1/6/2000	SOIL GRID	0.25	0.50		
HD82B7CAA	82B	1/6/2000	SOIL GRID	0.50	1.00		
HD83A1AAA	83A	1/7/2000	SOIL GRID	0.00	0.25		
HD83A1BAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83A1CAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83A3AAA	83A	1/7/2000	SOIL GRID	0.00	0.25		
HD83A3BAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83A3CAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83A5AAA	83A	1/7/2000	SOIL GRID	0.00	0.25		
HD83A5BAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83A5CAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83A7AAA	83A	1/7/2000	SOIL GRID	0.00	0.25		
HD83A7BAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83A7CAA	83A	1/7/2000	SOIL GRID	0.25	0.50		
HD83B1AAA	83B	1/7/2000	SOIL GRID	0.00	0.25		
HD83B3AAA	83B	1/7/2000	SOIL GRID	0.00	0.25		
HD83B5AAA	83B	1/7/2000	SOIL GRID	0.00	0.25		
HD83B7AAA	83B	1/7/2000	SOIL GRID	0.00	0.25		
HDD110AAA	11O	1/5/2000	SOIL GRID	0.00	0.25		
HDD110BAA	11O	1/5/2000	SOIL GRID	0.25	0.50		

Profiling methods include: Volatiles and Explosives
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1/3/00-1/7/00

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HDD110CAA	11O	1/5/2000	SOIL GRID	0.50	1.00		
HDD11BAA	11B	1/5/2000	SOIL GRID	0.25	0.50		
HDD11CAA	11C	1/5/2000	SOIL GRID	0.50	1.00		
HDD12BAA	12B	1/5/2000	SOIL GRID	0.25	0.50		
HDD12CAA	12C	1/5/2000	SOIL GRID	0.50	1.00		
HDD13BAA	13B	1/5/2000	SOIL GRID	0.25	0.50		
HDD13CAA	13C	1/5/2000	SOIL GRID	0.50	1.00		
HDD14AAA	14A	1/5/2000	SOIL GRID	0.00	0.25		
HDD14BAA	14B	1/5/2000	SOIL GRID	0.25	0.50		
HDD14CAA	14C	1/5/2000	SOIL GRID	0.50	1.00		
HDD15AAA	15A	1/5/2000	SOIL GRID	0.00	0.25		
HDD15AAD	15A	1/5/2000	SOIL GRID	0.00	0.25		
HDD15BAA	15B	1/5/2000	SOIL GRID	0.25	0.50		
HDD15CAA	15C	1/5/2000	SOIL GRID	0.50	1.00		
HDD16AAA	16A	1/5/2000	SOIL GRID	0.00	0.25		
HDD16BAA	16B	1/5/2000	SOIL GRID	0.25	0.50		
HDD16CAA	16C	1/5/2000	SOIL GRID	0.50	1.00		
HDD17AAA	17A	1/5/2000	SOIL GRID	0.00	0.25		
HDD17BAA	17B	1/5/2000	SOIL GRID	0.25	0.50		
HDD17BAD	17B	1/5/2000	SOIL GRID	0.25	5.00		
HDD17CAA	17C	1/5/2000	SOIL GRID	0.50	1.00		
HDD18AAA	18A	1/5/2000	SOIL GRID	0.00	0.25		
HDD18BAA	18B	1/5/2000	SOIL GRID	0.25	0.50		
HDD18CAA	18C	1/5/2000	SOIL GRID	0.50	1.00		
HDD19AAA	19A	1/5/2000	SOIL GRID	0.00	0.25		
HDD19BAA	19B	1/5/2000	SOIL GRID	0.25	0.50		
HDD19CAA	19C	1/5/2000	SOIL GRID	0.50	1.00		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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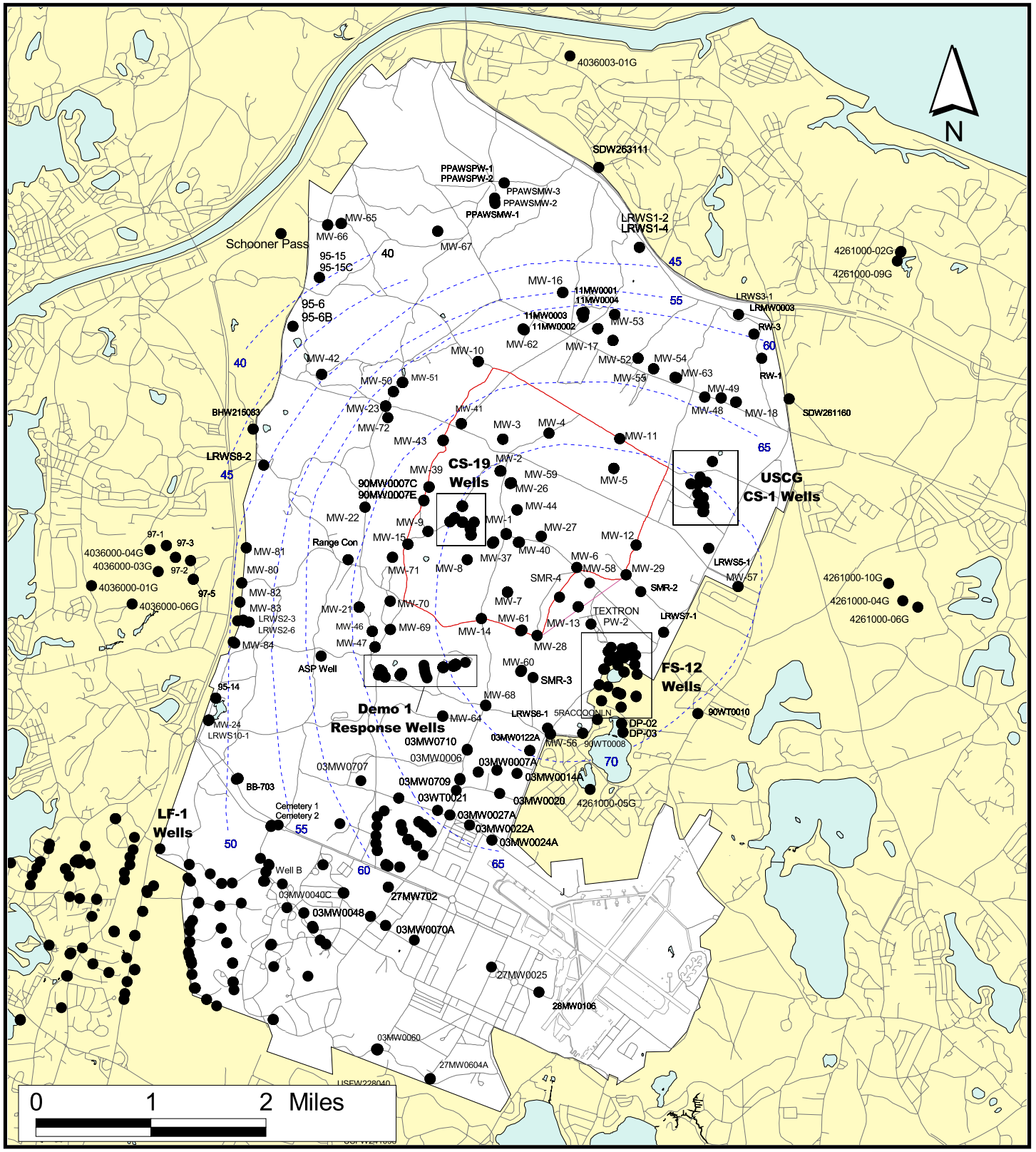
TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 12/20/99-1/7/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G78MAA	MW-78	1/5/2000	PROFILE	90.00	90.00	10.00	10.00	8330N	2,4,6-TRINITROTOLUENE	YES
G78MAA	MW-78	1/5/2000	PROFILE	90.00	90.00	10.00	10.00	8330N	2,6-DINITROTOLUENE	YES
G78MAA	MW-78	1/5/2000	PROFILE	90.00	90.00	10.00	10.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G78MAA	MW-78	1/5/2000	PROFILE	90.00	90.00	10.00	10.00	8330N	3-NITROTOLUENE	NO
G78MAA	MW-78	1/5/2000	PROFILE	90.00	90.00	10.00	10.00	8330N	4-NITROTOLUENE	NO
G78MAA	MW-78	1/5/2000	PROFILE	90.00	90.00	10.00	10.00	8330N	NITROGLYCERIN	NO
G78MBA	MW-78	1/5/2000	PROFILE	95.00	95.00	15.00	15.00	8330N	NITROGLYCERIN	NO
G78MCA	MW-78	1/5/2000	PROFILE	105.00	105.00	25.00	25.00	8330N	NITROGLYCERIN	NO
G78MEA	MW-78	1/5/2000	PROFILE	125.00	125.00	45.00	45.00	8330N	NITROGLYCERIN	NO
HCAPC2AAA	APC	12/23/1999	SOIL GRID	0.00	0.25			8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HCAPC2CAA	APC	12/23/1999	SOIL GRID	0.50	1.00			8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HCAPC3BAA	APC	12/23/1999	SOIL GRID	0.25	0.50			8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HCAPC3CAA	APC	12/23/1999	SOIL GRID	0.50	1.00			8330N	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



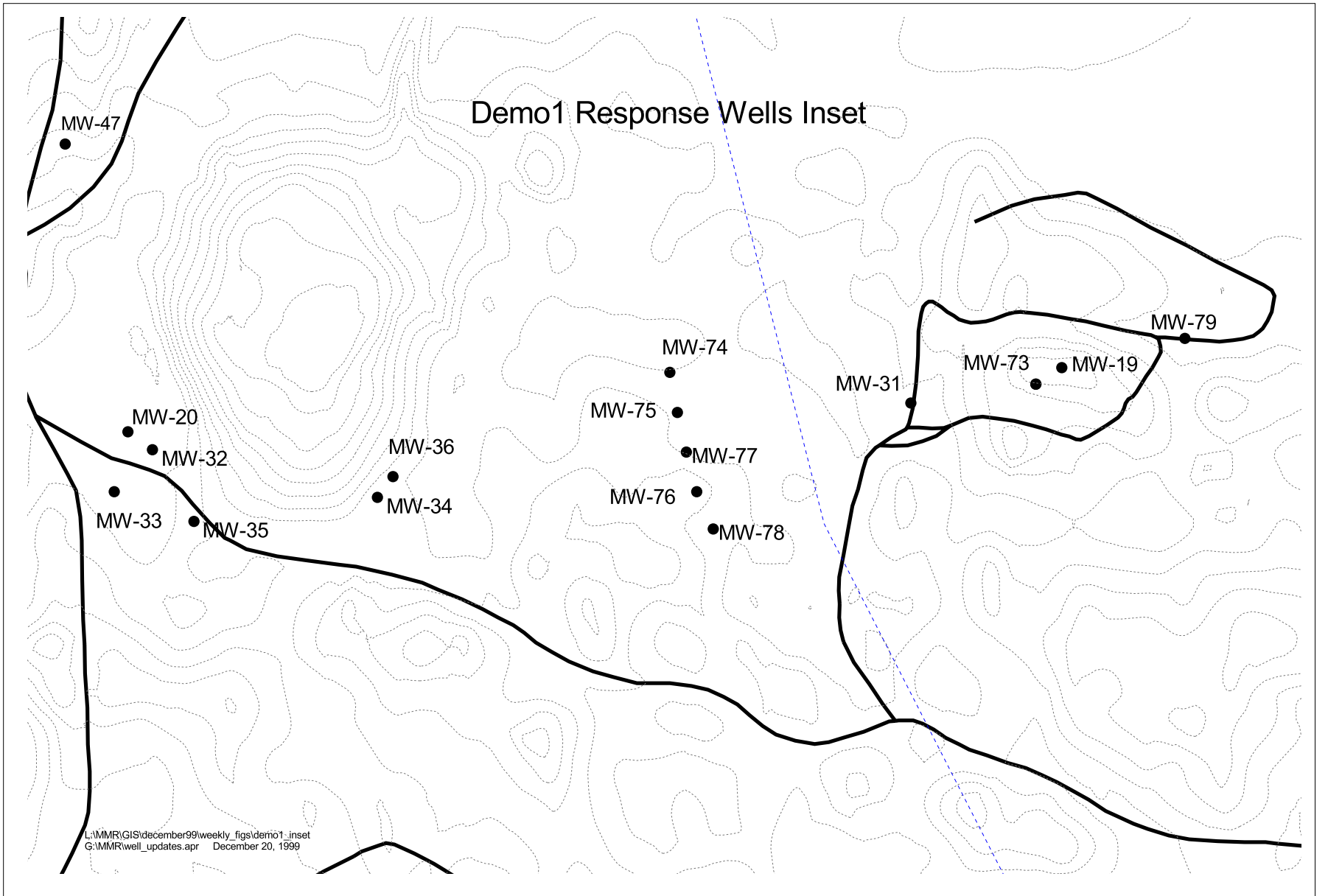
Sources & Notes

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