WEEKLY PROGRESS UPDATE
FOR JANUARY 17 – JANUARY 21, 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 17 to January 21, 2000.

1. SUMMARY OF ACTIONS TAKEN

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

Table 1. Drilling progress as of January 21, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-74	Demo 1 Response Well	205	110	

bgs = below ground surface
bwt = below water table

Drilling was advanced to completion depth at MW-74 (Demo 1 response well) and was on hold at the end of the week pending selection of screen depths. UXO clearance continued on Turpentine Road and at the RDX response well pads. UXO avoidance continued at soil sampling locations for Gun and Mortar positions and trenches. Detonation of UXO was performed on January 18 at the drill pad for RDX response well P-9, near Mortar Target 9, on Turpentine Road, and at Demo 1. No work was completed on January 21 because the base was closed due to snow.

Samples collected during the reporting period are summarized in Table 2. Air samples were collected at four locations during UXO detonation on January 18. A third round of groundwater sampling continued for the Supplemental IRP wells, sampling of Demo 1 response wells commenced, and a groundwater sample was collected from MW-48S. Groundwater profile samples were collected from MW-74. Soil sampling continued on the following Gun and Mortar positions: GP-2 (Area 51) and GP-12 (Area 62). Soil sampling was completed on the following Mortar Targets: Target 6 (Area 84) and Target 8 (Area 86). Soil sampling commenced at Target 9 (Area 87) and Target 10 (Area 88).

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

- An update of field activities was given by Jacobs. They have completed the surface soil sampling, are currently working on Deep UXO survey and water level survey, and the drill rig is scheduled to start next week. Three overheads were displayed showing the forward and reverse particle tracks from CS-19. Jacobs suggested relocating the proposed monitoring wells to center them on the particle track. EPA and DEP agreed with the relocation of the wells.

- An update of the munitions survey field activities was given by Tetra Tech. Six grids of the sixty-six at Demo 1 have been cleared. Crew is now working on clearing Gun and Mortar locations. Geophysical calibration is almost complete, and preliminary data indicate a high detection rate. DEP asked if different soil conditions at the calibration area in comparison to the Gun and Mortar positions could cause problems for the geophysics. Tetra Tech indicated that these soil changes should be within the range that should not cause any problems. If problems were encountered with soil

conditions, an additional calibration area would be established at the Gun and Mortar positions. EPA requested a meeting to go over EPA comments to Appendix C because EPA does not believe all their comments have been addressed.

- An update of the groundwater study activities was given by Ogden. E-mail was sent earlier indicating that the order of the RDX response well installations would be changed. The drilling pads for P-9 and P-4 would be cleared and then several locations on the outer transect would be cleared. This change is necessary so that any UXO clearance safety zone or a safety zone of any UXO detected at the drilling pads does not shut down ongoing drilling activities. Drilling of the RDX response wells has been postponed due to inability to perform UXO clearance in the frozen soil. EPA asked if the location of P-21 is dependent of what is detected at the inner transect. The Guard agreed. Target soil sampling should be competed this week. EPA requested the status of the overhang samples at the targets. Ogden indicated that there needs to be a site walk next week to determine the location of these samples. MW-74 (Demo 1 response well) is on standby waiting for screen depths. Ogden indicated that there needs to be a conference call on Monday to review the data and select the screen depths. UXO avoidance is continuing on the trench grids. Groundwater sampling is continuing on the third round of IRP wells. Development of new wells is on hold due to frozen granular activated carbon drums. UXO detonation occurred on Tuesday. The Guard asked for the report from the UXO contractor. EPA asked for pre detonation photos for all future detonations.

- A 1-page handout of the document status was distributed for review. EPA indicated that their specific comment # 8 on the Gun and Mortar FSP was not addressed (figure revision). Ogden indicated that they would correct this figure.

- A 1-page handout of the MW-40 orthophoto was distributed for review and the historical orthophotos of this area were displayed. EPA questioned if the potential of a controlled burn would have an effect on this area. All photos indicated no evidence of a target in the area.

- A 16-page handout of a CHPPM report on a 1989 J Range surface soil investigation was distributed for review.

- EPA provided comments on the Small Arms Range Proposal. EPA suggested: not installing soil borings and monitoring wells until the results of the surface soil are reviewed, adding metals to the analyte list, and adding air monitoring during a typical firing exercise.

- A 2-page handout of the VOC soil sampling with sodium bisulfate vs. deionized water preservation and extended holding time results was distributed for review. The results indicate that the sodium bisulfate preservation produces more acetone and the longer the holding time the more acetone produced. Ogden indicated that acetone was detected in the deionized preserved samples. EPA requested if TOC had been analyzed. Ogden indicated that they did not believe that TOC is done on the soil samples, but would check. Ogden suggested rerunning these tests and adding a buffer to the preservative to determine if humic acid is the cause of some of the acetone. EPA requested a write-up of this information in the meeting notes:

  Handouts were provided at the meeting of VOC soil split data to evaluate the cause of elevated acetone levels. A total of six samples were collected and then split into two groups. One group was collected and preserved with sodium bisulfate and analyzed 8 and 14 days after collection. A split sample was also collected and preserved with deionized water and was analyzed 8 and 14 days after collection. The data indicated elevated acetone levels, 100s ppb, for the sodium bisulfate preserved samples. The data also indicated the samples analyzed 14 days after collection had significantly higher acetone levels than those analyzed 8 days after collection. Acetone was

also present in the (DI) preserved samples. Four samples had much lower acetone levels (10s ppb) while two other samples had much higher acetone levels. Acetone levels decreased between the 8 and 14 day analysis period for the DI preserved samples. It is still not clear what is causing the generation of acetone but it appears to be some sort of breakdown of organic material in the sample. Another sample is planned to be collected with DI preserved sample prepared in buffered solution to see if this has any impact on the production of acetone.

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 MW-44S had a detection of 4-amino-2, 6-dinitrotoluene. PDA was not available at the time of this report.

- Groundwater profile samples from MW-74 had detections of 3-nitrotoluene (1 interval), nitroglycerin (2 intervals), and PETN (1 interval). None of these explosive detections were verified by PDA spectra.

3. DELIVERABLES SUBMITTED

Weekly Progress Update (Jan 10-14) 1/21/2000

4. SCHEDULED ACTIONS

Scheduled actions for the week of January 24 include the continued development of newly installed wells; the continued soil sampling of Gun and Mortar positions, mortar targets, and trenches; groundwater sampling of the third round of supplemental IRP wells and Demo 1 response wells; and setting the drill rig up on RDX response location P-9.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Collection of groundwater profile samples was completed at MW-74 (northernmost response well). Installation of monitoring wells was on hold pending selection of screen depths. Development of the installed Demo 1 response wells will continued next week. Groundwater sampling will commence next week.

TABLE 2
SAMPLING PROGRESS
1/17/00-1/21/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
ASDEMO135	ASDEMO135	1/18/2000	AIR				
ASDEMO135F	ASDEMO135F	1/18/2000	AIR				
ASP9PAD42	ASP9PAD42	1/18/2000	AIR				
ASP9PAD42F	ASP9PAD42F	1/18/2000	AIR				
ASTARGET942	ASTARGET942	1/18/2000	AIR				
ASTARGET942F	ASTARGET942F	1/18/2000	AIR				
ASTARGET9BLK	ASTARGET9BLK	1/18/2000	AIR				
ASTARGET9BLKF	ASTARGET9BLKF	1/18/2000	AIR				
ASTURPENT81	ASTURPENT81	1/18/2000	AIR				
ASTURPENT81F	ASTURPENT81F	1/18/2000	AIR				
PUFBLK3	PUFBLK3	1/19/2000	AIR				
PUFLCS3	PUFLCS3	1/19/2000	AIR				
03MW0027E	FIELDQC	1/18/2000	FIELDQC	0.00	0.00		
03MW0070E	FIELDQC	1/19/2000	FIELDQC	0.00	0.00		
03MW0707E	FIELDQC	1/20/2000	FIELDQC	0.00	0.00		
G74MAE	FIELDQC	1/18/2000	FIELDQC	0.00	0.00		
G74MCE	FIELDQC	1/19/2000	FIELDQC	0.00	0.00		
G74MJE	FIELDQC	1/20/2000	FIELDQC	0.00	0.00		
HC51K1BAE	FIELDQC	1/17/2000	FIELDQC	0.00	0.00		
HC87A1AAE	FIELDQC	1/20/2000	FIELDQC	0.00	0.00		
HD84A1BAE	FIELDQC	1/19/2000	FIELDQC	0.00	0.00		
HD84A1BAT	FIELDQC	1/19/2000	FIELDQC	0.00	0.00		
HD86A7AAE	FIELDQC	1/18/2000	FIELDQC	0.00	0.00		
HD86A7AAT	FIELDQC	1/18/2000	FIELDQC	0.00	0.00		
W48SST	FIELDQC	1/17/2000	FIELDQC	0.00	0.00		
WSMR2E	FIELDQC	1/17/2000	FIELDQC	0.00	0.00		
03MW0006	03MW0006	1/19/2000	GROUNDWATER	81.00	91.00	-5.43	4.57
03MW0007A	03MW0007A	1/18/2000	GROUNDWATER	104.00	109.00	15.53	20.53
03MW0014A	03MW0014A	1/18/2000	GROUNDWATER	119.00	124.00	32.65	37.65
03MW0020	03MW0020	1/18/2000	GROUNDWATER	114.00	124.00	29.75	39.75
03MW0022	03MW0022	1/18/2000	GROUNDWATER	145.00	150.00	62.40	67.40
03MW0027A	03MW0027A	1/18/2000	GROUNDWATER	135.00	140.00	55.60	60.60
03MW0048	03MW0048	1/20/2000	GROUNDWATER	150.00	155.00	91.42	96.42
03MW0070A	03MW0070A	1/19/2000	GROUNDWATER	184.00	194.00	123.65	133.65
03MW0707	03MW0707	1/20/2000	GROUNDWATER	70.00	80.00	-6.00	4.00
03MW0709	03MW0709	1/19/2000	GROUNDWATER	76.00	86.00	-10.20	-0.20
03MW0710	03MW0710	1/19/2000	GROUNDWATER	76.00	86.00	-6.60	3.40
03WT0021	03WT0021	1/20/2000	GROUNDWATER	77.00	87.00	-8.51	1.49
W48SSA	MW-48	1/17/2000	GROUNDWATER	99.00	109.00	-3.25	6.75
WL76SSA	MW-76	1/20/2000	GROUNDWATER	85.00	95.00	15.40	25.40
WSRM2A	SMR-2	1/17/2000	GROUNDWATER	110.00	120.00	4.99	14.99
G74MAA	MW-74	1/18/2000	PROFILE	105.00	105.00	10.00	10.00
G74MBA	MW-74	1/18/2000	PROFILE	115.00	115.00	20.00	20.00

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
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BWTS = Depth below water table, start depth, measured in feet
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TABLE 2
SAMPLING PROGRESS
1/17/00-1/21/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G74MCA	MW-74	1/19/2000	PROFILE	125.00	125.00	30.00	30.00
G74MDA	MW-74	1/19/2000	PROFILE	135.00	135.00	40.00	40.00
G74MDD	MW-74	1/19/2000	PROFILE	135.00	135.00	40.00	40.00
G74MEA	MW-74	1/19/2000	PROFILE	145.00	145.00	50.00	50.00
G74MFA	MW-74	1/19/2000	PROFILE	155.00	155.00	60.00	60.00
G74MGA	MW-74	1/19/2000	PROFILE	165.00	165.00	70.00	70.00
G74MHA	MW-74	1/19/2000	PROFILE	175.00	175.00	80.00	80.00
G74MIA	MW-74	1/19/2000	PROFILE	185.00	185.00	90.00	90.00
G74MJA	MW-74	1/20/2000	PROFILE	195.00	195.00	100.00	100.00
G74MKA	MW-74	1/20/2000	PROFILE	202.00	205.00	107.00	110.00
HC51D1AAA	51D	1/17/2000	SOIL GRID	0.00	0.50		
HC51D1BAA	51D	1/17/2000	SOIL GRID	1.50	2.00		
HC51H1AAA	51H	1/17/2000	SOIL GRID	0.00	0.50		
HC51H1BAA	51H	1/17/2000	SOIL GRID	1.50	2.00		
HC51K1AAA	51K	1/17/2000	SOIL GRID	0.00	0.50		
HC51K1BAA	51K	1/17/2000	SOIL GRID	1.50	2.00		
HC51N1AAA	51N	1/17/2000	SOIL GRID	0.00	0.50		
HC51N1BAA	51N	1/17/2000	SOIL GRID	1.50	2.00		
HC62B1AAA	62B	1/17/2000	SOIL GRID	0.00	0.50		
HC62B1BAA	62B	1/17/2000	SOIL GRID	1.50	2.00		
HC84A1AAA	84A	1/18/2000	SOIL GRID	0.00	0.25		
HC84A1BAA	84A	1/19/2000	SOIL GRID	0.25	0.50		
HC84A1CAA	84A	1/19/2000	SOIL GRID	0.50	1.00		
HC84B1AAA	84B	1/19/2000	SOIL GRID	0.00	0.25		
HC84B1AAD	84B	1/19/2000	SOIL GRID	0.00	0.25		
HC84B1BAA	84B	1/20/2000	SOIL GRID	0.25	0.50		
HC84B1CAA	84B	1/20/2000	SOIL GRID	0.50	1.00		
HC86A1AAA	86A	1/18/2000	SOIL GRID	0.00	0.25		
HC86A1BAA	86A	1/19/2000	SOIL GRID	0.25	0.50		
HC86A1CAA	86A	1/19/2000	SOIL GRID	0.50	1.00		
HC86B1AAA	86B	1/19/2000	SOIL GRID	0.00	0.25		
HC86B1AAD	86B	1/19/2000	SOIL GRID	0.00	0.25		
HC86B1BAA	86B	1/19/2000	SOIL GRID	0.25	0.50		
HC86B1CAA	86B	1/19/2000	SOIL GRID	0.50	1.00		
HC87A1AAA	87A	1/20/2000	SOIL GRID	0.00	0.25		
HC87A1BAA	87A	1/20/2000	SOIL GRID	0.25	0.50		
HC87A1CAA	87A	1/20/2000	SOIL GRID	0.50	1.00		
HC88A1AAA	88A	1/20/2000	SOIL GRID	0.00	0.25		
HC88A1BAA	88A	1/20/2000	SOIL GRID	0.25	0.50		
HC88A1CAA	88A	1/20/2000	SOIL GRID	0.50	1.00		
HD84A1AAA	84A	1/18/2000	SOIL GRID	0.00	0.25		
HD84A1BAA	84A	1/19/2000	SOIL GRID	0.00	0.25		
HD84A1CAA	84A	1/19/2000	SOIL GRID	0.50	1.00		
HD84A3AAA	84A	1/18/2000	SOIL GRID	0.00	0.25		

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
1/17/00-1/21/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD84A3BAA	84A	1/19/2000	SOIL GRID	0.25	0.50		
HD84A3BAD	84A	1/19/2000	SOIL GRID	0.25	0.50		
HD84A3CAA	84A	1/19/2000	SOIL GRID	0.50	1.00		
HD84A5AAA	84A	1/18/2000	SOIL GRID	0.00	0.25		
HD84A5BAA	84A	1/19/2000	SOIL GRID	0.25	0.50		
HD84A5CAA	84A	1/19/2000	SOIL GRID	0.50	1.00		
HD84A7AAA	84A	1/18/2000	SOIL GRID	0.00	0.25		
HD84A7BAA	84A	1/19/2000	SOIL GRID	0.25	0.50		
HD84A7CAA	84A	1/19/2000	SOIL GRID	0.50	1.00		
HD84A7CAD	84A	1/19/2000	SOIL GRID	0.50	1.00		
HD84B1AAA	84B	1/19/2000	SOIL GRID	0.00	0.25		
HD84B1BAA	84B	1/20/2000	SOIL GRID	0.25	0.50		
HD84B1CAA	84B	1/20/2000	SOIL GRID	0.50	1.00		
HD84B3AAA	84B	1/19/2000	SOIL GRID	0.00	0.25		
HD84B3BAA	84B	1/20/2000	SOIL GRID	0.25	0.50		
HD84B3CAA	84B	1/20/2000	SOIL GRID	0.50	1.00		
HD84B5AAA	84B	1/19/2000	SOIL GRID	0.00	0.25		
HD84B5BAA	84B	1/20/2000	SOIL GRID	0.25	0.50		
HD84B5CAA	84B	1/20/2000	SOIL GRID	0.50	1.00		
HD84B7AAA	84B	1/19/2000	SOIL GRID	0.00	0.25		
HD84B7BAA	84B	1/20/2000	SOIL GRID	0.25	0.50		
HD84B7CAA	84B	1/20/2000	SOIL GRID	0.50	1.00		
HD86A1AAA	86A	1/18/2000	SOIL GRID	0.00	0.25		
HD86A1BAA	86A	1/19/2000	SOIL GRID	0.25	0.50		
HD86A1CAA	86A	1/19/2000	SOIL GRID	0.50	1.00		
HD86A3AAA	86A	1/18/2000	SOIL GRID	0.00	0.25		
HD86A3BAA	86A	1/19/2000	SOIL GRID	0.25	0.50		
HD86A3BAD	86A	1/19/2000	SOIL GRID	0.25	0.50		
HD86A3CAA	86A	1/19/2000	SOIL GRID	0.50	1.00		
HD86A5AAA	86A	1/18/2000	SOIL GRID	0.00	0.25		
HD86A5BAA	86A	1/19/2000	SOIL GRID	0.25	0.50		
HD86A5CAA	86A	1/19/2000	SOIL GRID	0.50	1.00		
HD86A7AAA	86A	1/18/2000	SOIL GRID	0.00	0.25		
HD86A7BAA	86A	1/19/2000	SOIL GRID	0.25	0.50		
HD86A7CAA	86A	1/19/2000	SOIL GRID	0.50	1.00		
HD86A7CAD	86A	1/19/2000	SOIL GRID	0.50	1.00		
HD86B1AAA	86B	1/19/2000	SOIL GRID	0.00	0.25		
HD86B1BAA	86B	1/19/2000	SOIL GRID	0.25	0.50		
HD86B1CAA	86B	1/19/2000	SOIL GRID	0.50	1.00		
HD86B3AAA	86B	1/19/2000	SOIL GRID	0.00	0.25		
HD86B3BAA	86B	1/19/2000	SOIL GRID	0.25	0.50		
HD86B3CAA	86B	1/19/2000	SOIL GRID	0.50	1.00		
HD86B5AAA	86B	1/19/2000	SOIL GRID	0.00	0.25		
HD86B5BAA	86B	1/19/2000	SOIL GRID	0.25	0.50		

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SAMPLING PROGRESS
1/17/00-1/21/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD86B5CAA	86B	1/19/2000	SOIL GRID	0.50	1.00		
HD86B7AAA	86B	1/19/2000	SOIL GRID	0.00	0.25		
HD86B7BAA	86B	1/19/2000	SOIL GRID	0.25	0.50		
HD86B7CAA	86B	1/19/2000	SOIL GRID	0.50	1.00		
HD87A1AAA	87A	1/20/2000	SOIL GRID	0.00	0.25		
HD87A1BAA	87A	1/20/2000	SOIL GRID	0.25	0.50		
HD87A1CAA	87A	1/20/2000	SOIL GRID	0.50	1.00		
HD87A3AAA	87A	1/20/2000	SOIL GRID	0.00	0.25		
HD87A3BAA	87A	1/20/2000	SOIL GRID	0.25	0.50		
HD87A3BAD	87A	1/20/2000	SOIL GRID	0.25	0.50		
HD87A3CAA	87A	1/20/2000	SOIL GRID	0.50	1.00		
HD87A5AAA	87A	1/20/2000	SOIL GRID	0.00	0.25		
HD87A5BAA	87A	1/20/2000	SOIL GRID	0.25	0.50		
HD87A5CAA	87A	1/20/2000	SOIL GRID	0.50	1.00		
HD87A7AAA	87A	1/20/2000	SOIL GRID	0.00	0.25		
HD87A7BAA	87A	1/20/2000	SOIL GRID	0.25	0.50		
HD87A7CAA	87A	1/20/2000	SOIL GRID	0.50	1.00		
HD87A7CAD	87A	1/20/2000	SOIL GRID	0.50	1.00		
HD88A1AAA	88A	1/20/2000	SOIL GRID	0.00	0.25		
HD88A1BAA	88A	1/20/2000	SOIL GRID	0.25	0.50		
HD88A1CAA	88A	1/20/2000	SOIL GRID	0.50	1.00		
HD88A3AAA	88A	1/20/2000	SOIL GRID	0.00	0.25		
HD88A3BAA	88A	1/20/2000	SOIL GRID	0.25	0.50		
HD88A3BAD	88A	1/20/2000	SOIL GRID	0.25	0.50		
HD88A3CAA	88A	1/20/2000	SOIL GRID	0.50	1.00		
HD88A5AAA	88A	1/20/2000	SOIL GRID	0.00	0.25		
HD88A5BAA	88A	1/20/2000	SOIL GRID	0.25	0.50		
HD88A5CAA	88A	1/20/2000	SOIL GRID	0.50	1.00		
HD88A7AAA	88A	1/20/2000	SOIL GRID	0.00	0.25		
HD88A7BAA	88A	1/20/2000	SOIL GRID	0.25	0.50		
HD88A7CAA	88A	1/20/2000	SOIL GRID	0.50	1.00		

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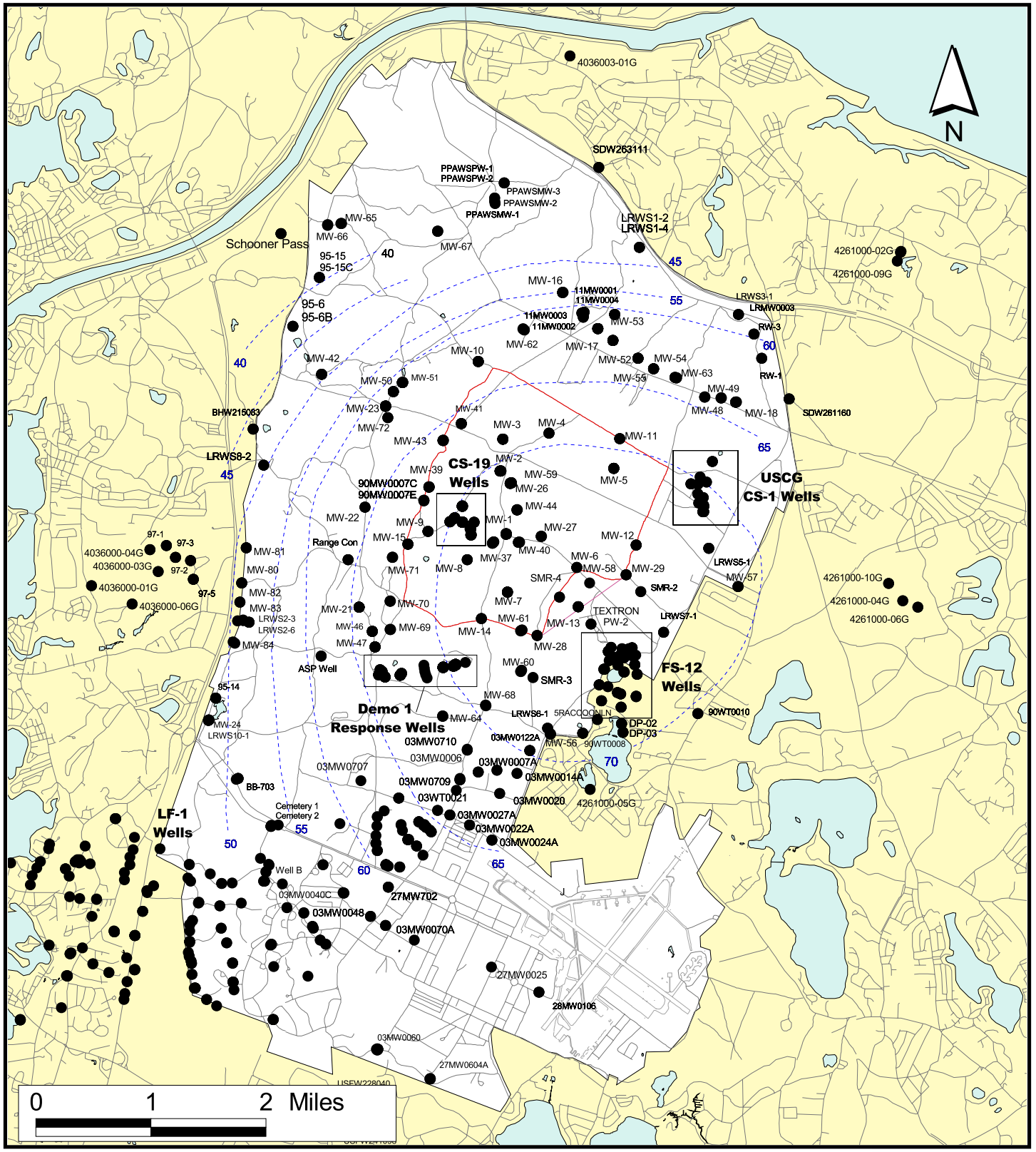
TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 1/3/00-1/21/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W44SSA	MW-44	1/3/2000	GROUNDWATER	123.00	133.00	-5.13	4.87	8330N	4-AMINO-2,6-DINITROTOLUENE	
G74MAA	MW-74	1/18/2000	PROFILE	105.00	105.00	10.00	10.00	8330N	3-NITROTOLUENE	NO
G74MAA	MW-74	1/18/2000	PROFILE	105.00	105.00	10.00	10.00	8330N	NITROGLYCERIN	NO
G74MBA	MW-74	1/18/2000	PROFILE	115.00	115.00	20.00	20.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G74MHA	MW-74	1/19/2000	PROFILE	175.00	175.00	80.00	80.00	8330N	NITROGLYCERIN	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



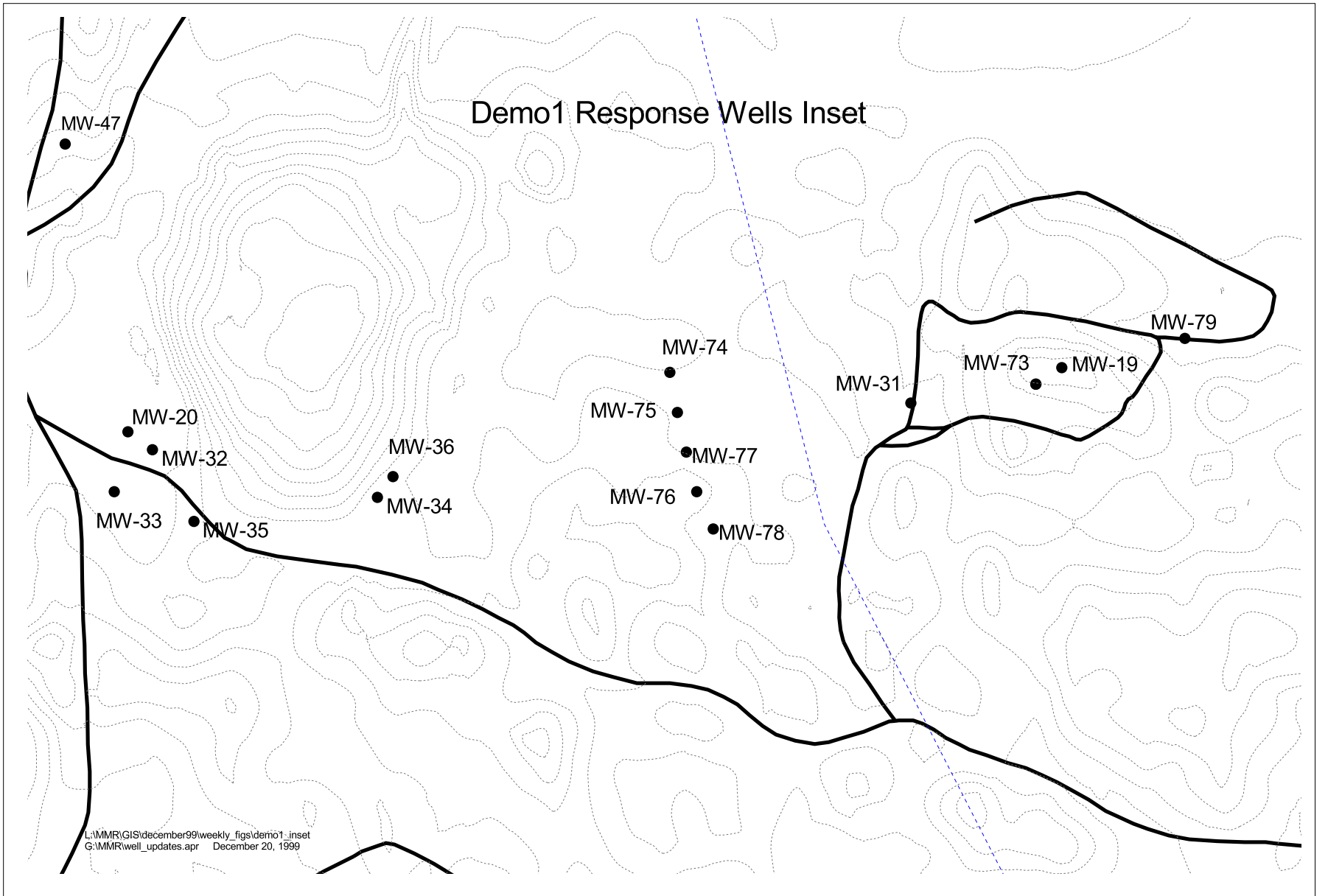
Sources & Notes

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