WEEKLY PROGRESS UPDATE
FOR JANUARY 24– JANUARY 28, 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 24 to January 28, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of January 28 is summarized in Table 1.

Table 1. Drilling progress as of January 28, 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	100-110 125-135 170-180

bgs = below ground surface
bwt = below water table

Monitoring wells were installed at MW-74 (Demo 1 response well). Well development continued for newly installed Demo 1 response wells. 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, trenches, and the J-3 wetland.

Samples collected during the reporting period are summarized in Table 2. A third round of groundwater sampling continued for the Supplemental IRP wells and sampling of Demo 1 response wells continued. Soil sampling continued on the Gun and Mortar positions at the Former F Range (Area 78). Soil sampling was completed on the following Mortar Targets: Target 9 (Area 87), Target 10 (Area 88), and Target 11 (Area 89), which completes the mortar target grid sampling. Soil sampling was completed at the following Trenches: BK-1 (Area 95), GS-8 (Area 91), Pit 1 (Area 93), and EX-2 (Area 94). Soil sampling commenced at GS-9 (Area 92). UXO detonation crater sampling was completed at RDX response well P-9, near Mortar Target 9, on Turpentine Road, and at Demo 1. A site walk was conducted with the Guard, Ogden, and the EPA on January 27 to select mortar target overhang soil sample locations.

The Guard, EPA, and MADEP had a meeting on January 27 to discuss technical issues, including the following:

- A copy of the July 1997 transmittal letter to EPA for the revised map of the steel lined pit was provided. A copy of the map will be provided ASAP. The map and letter indicate the RDX concentration for the grab sample from the pit debris was 24,000 ug/kg. This concentration was not indicated on the original map included in Volume 2 of the draft CWR.

- A letter and attached change pages to the PEP Report were provided. The change pages provide revisions consistent with the responses to agency comments that were provided in letters of 11/29/99, 11/30/99, 12/09/99, and 12/16/99. The Guard awaits agency input on these responses.

- An updated table of explosive detections in monitoring wells for 1999 sampling was e-mailed for agency review. The table includes wells sampled between January and November 1999.

- The DEP indicated that the January 6, 2000 RNF letter from the Guard did not indicate a location. The Guard indicated that there are multiple locations, and the Guard will provide clarification to MADEP.

- An update of the CS-19 fieldwork was presented by JEG. The workplan will be distributed to the public next Monday. The synoptic water level round was completed with the exception of wells MW-27, MW-40, and MW-6 because of UXO clearance in their vicinity. The deep UXO survey of the 200' X 200' area has been completed. Well 90MW0017 should be drilled to depth and they will need to select screen intervals on Tuesday. Profile data will be provided to the agencies and to the IAGS Office for discussion. Jacobs inquired into the volume of samples Ogden was sending to the laboratory to determine if the lab was going to get overloaded with samples. Ogden indicated that they were not sending any quick turn soil samples this week and there should be no conflicts.

- An update of the Munitions Survey was presented by Tetra Tech. The geophysical contractor was performing the surveys on the Gun and Mortar positions. Crews will continue clearing at Demo 1 next week. The Guard asked the status of the Appendix C comments. Tetra Tech indicated that they have scheduled a conference call with EPA at 0900 Friday 1/28. The Guard requested to be included in the call.

- An update of the Groundwater Study was presented by Ogden. Soil sampling continues on trenches, bunkers, and ground scars. UXO clearance continues for the RDX Response wells and the first drill rig is scheduled to start on Monday 1/31. Groundwater sampling of the remaining supplemental IRP wells continues, and groundwater sampling will start on the Demo 1 response wells. The UXO contractor will mag and flag the area in the J-3 wetland today. The EPA requested the results of the wetland survey by Friday 1/28.

- The document status was discussed. Ogden is currently working on Tech Memo 99-6 (profile vs. groundwater comparison) and expects to provide it to the Guard on Monday 1/31 for their review. The Guard has received EPA comments on the groundwater model. Ogden requested a meeting/call on February 8 at 1000 to discuss details relating to model setup. An outline of issues for discussion will be distributed next week. The final Impact Area Response Plan has been completed and distributed.

- A 7-page handout of concentration maps for the Phase IIa Gun and Mortar soil sampling results were distributed for review. The maps include all detected compounds for explosives and SVOCs, and other analytes above RCS-1. EPA requested that any pesticides/herbicides without an RCS-1 value be included on the maps.

- The 2/3/00 IART meeting agenda was discussed. There are no changes except that the Guard will discuss the web page. Also, an update on sampling in Demo 1 will be included in the IAGS update.

- DEP requested that the meeting notes from this meeting be provided Friday 1/28.

- The Guard requested Ogden include Rapid Response Action issues (from A03) as part of the weekly technical meetings.

- TRC indicated that they were reviewing figures and tables from the public meeting handouts and they noticed that some pages of the tables did not have concentrations included. Ogden indicated that the unvalidated data tables do not have concentrations included.

- Ogden indicated that the Rapid Response Action Public Involvement Plan is due to EPA on Friday 1/28 under the original A03 timeline. The Guard and the EPA have discussed this deadline and EPA will formalize a 2-week extension in writing.

- The EPA indicated that they are giving QAPP training and are inviting contractors to attend but need to know who will be attending by the end of the day. Ogden will coordinate with EPA.

- The Guard requested that the Technical Meeting be moved to 10:00 AM next week.

- EPA requested a site walk of Tank Alley at 8:00 AM next Thursday before the Tech meeting, to discuss which tank targets have been sampled.

- The EPA requested that photographs be taken and sent to EPA of all UXO found on the training range, including those items that are safe to relocate.

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 air samples from the UXO detonation at Demo 1, Mortar Target 9, and Turpentine Road had detections of 2,6-dinitrotoluene, 2-nitrotoluene, 4-amino-2, 6-dinitrotoluene, 4-nitrotoluene, and nitrobenzene. PDA spectra did not verify any of these explosive detections.

- The air samples from the UXO detonation at the P-9 drill pad had detection of 2,6-dinitrotoluene, 2-nitrotoluene, and 4-nitrotoluene, and nitrobenzene. PDA spectra did not verify any of these explosive detections.

- Two quality assurance air samples from the UXO detonation at Demo 1, P-9 drill pad, Target 9, and Turpentine Road had a detection of 2,6-dinitrotoluene, 2-nitrotoluene, 4-amino-2, 6-dinitrotoluene, and 4-nitrotoluene, and nitrobenzene. PDA spectra did not verify any of these explosive detections.

- The groundwater sample from 03MW0027A had a detection of nitrobenzene which was not verified by PDA spectra.

- The groundwater sample from MW-44S had a detection of 4-amino-2, 6-dinitrotoluene (also reported in the previous weekly update) that was verified by PDA spectra. This compound was not detected in the previous sampling round.

- Groundwater profile samples from MW-74 had detections of 3-nitrotoluene (1 interval), nitroglycerin (2 intervals), and 4-nitrotoluene (1 interval). None of these explosive detections were verified by PDA spectra.

- The post UXO detonation crater from the Demo 1 crater (3.5" rocket) had a detection of 2-nitrotoluene, which was not verified by PDA spectra.

- The post UXO detonation crater from the P-9 drill pad (4.2" projectile) had a detection of PETN, which was not verified by PDA spectra.

- The post UXO detonation crater from the Eastern crater (81mm mortar) on Turpentine Road had detections of RDX in both the discrete sample and the composite sample. Both detections were verified by PDA spectra.

- The post UXO detonation crater from the Western crater (81mm mortar) on Turpentine Road had a detection of RDX in the discrete sample and detections of RDX and HMX in the composite sample. All three detections were verified by PDA spectra.

3. DELIVERABLES SUBMITTED

The following deliverables were submitted during this reporting period:

Final Phase II(a) Response Plan for Impact Area RDX Detections in Groundwater 1/24/00

4. SCHEDULED ACTIONS

Scheduled actions for the week of January 31 include the continued development of newly installed wells; the continued soil sampling of Gun and Mortar positions and trenches; groundwater sampling of the third round of supplemental IRP wells and first round of Demo 1 response wells; continued UXO clearance of RDX response well pads; continued UXO avoidance at Gun and Mortar grids; and the drilling of RDX response well at location P-9 (MW-85).

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Monitoring well installation was completed at MW-74 (northernmost response well). 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
1/24/00-1/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
11MW0002E	FIELDQC	01/27/2000	FIELDQC	0.00	0.00		
15MW0006E	FIELDQC	01/24/2000	FIELDQC	0.00	0.00		
15MW0009E	FIELDQC	01/25/2000	FIELDQC	0.00	0.00		
15WT0007E	FIELDQC	01/26/2000	FIELDQC	0.00	0.00		
27MW0702E	FIELDQC	01/28/2000	FIELDQC	0.00	0.00		
HC78A1AAE	FIELDQC	01/27/2000	FIELDQC	0.00	0.00		
HC78A1AAF	FIELDQC	01/27/2000	FIELDQC	0.00	0.00		
HC78A1AAT	FIELDQC	01/27/2000	FIELDQC	0.00	0.00		
HC78C1BAE	FIELDQC	01/28/2000	FIELDQC	0.00	0.00		
HC78C1BAT	FIELDQC	01/28/2000	FIELDQC	0.00	0.00		
HC89B1AAE	FIELDQC	01/25/2000	FIELDQC	0.00	0.00		
HC89B1AAT	FIELDQC	01/25/2000	FIELDQC	0.00	0.00		
HD88B1AAE	FIELDQC	01/24/2000	FIELDQC	0.00	0.00		
HD88B1AAT	FIELDQC	01/24/2000	FIELDQC	0.00	0.00		
HD95B3AAE	FIELDQC	01/27/2000	FIELDQC	0.00	0.00		
HD95C4BAE	FIELDQC	01/26/2000	FIELDQC	0.00	0.00		
11MW0002	11MW0002	01/27/2000	GROUNDWATER	165.00	175.00		
11MW0004	11MW0004	01/27/2000	GROUNDWATER	154.00	164.00		
15MW0002	15MW0002	01/26/2000	GROUNDWATER	109.00	119.00		
15MW0004	15MW0004	01/25/2000	GROUNDWATER	111.00	121.00		
15MW0006	15MW0006	01/24/2000	GROUNDWATER	114.00	124.00		
15MW0006D	15MW0006D	01/24/2000	GROUNDWATER	114.00	124.00		
15MW0008	15MW0008	01/24/2000	GROUNDWATER	115.00	125.00		
15MW0009	15MW0009	01/25/2000	GROUNDWATER	102.00	122.00		
15WT0007	15WT0007	01/26/2000	GROUNDWATER	114.00	124.00		
27MW0011A	27MW0011A	01/26/2000	GROUNDWATER	154.00	159.00		
27MW0012A	27MW0012A	01/27/2000	GROUNDWATER	153.00	158.00		
27MW0012D	27MW0012A	01/27/2000	GROUNDWATER	153.00	158.00		
27MW0017A	27MW0017A	01/26/2000	GROUNDWATER	134.00	139.00		
27MW0017B	27MW0017B	01/28/2000	GROUNDWATER	104.00	109.00		
27MW0020Z	27MW0020Z	01/28/2000	GROUNDWATER	168.00	178.00		
27MW0702	27MW0702	01/28/2000	GROUNDWATER	56.00	66.00		
90MW0013	90MW0013	01/28/2000	GROUNDWATER	75.00	85.00		
W75M1A	MW-75	01/27/2000	GROUNDWATER	140.00	150.00		
W75M2A	MW-75	01/27/2000	GROUNDWATER	115.00	125.00		
W75SSA	MW-75	01/27/2000	GROUNDWATER	81.00	91.00		
W76M1A	MW-76	01/24/2000	GROUNDWATER	125.00	135.00		
W76M2A	MW-76	01/24/2000	GROUNDWATER	105.00	115.00		
W76M2D	MW-76	01/24/2000	GROUNDWATER	105.00	115.00		
W77M1A	MW-77	01/24/2000	GROUNDWATER	180.00	190.00		
W77M2A	MW-77	01/25/2000	GROUNDWATER	120.00	130.00		
W77SSA	MW-77	01/24/2000	GROUNDWATER	83.00	93.00		
W79M1A	MW-79	01/25/2000	GROUNDWATER	156.00	166.00		

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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1/24/00-1/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W79M2A	MW-79	01/25/2000	GROUNDWATER	116.00	126.00		
W79SSA	MW-79	01/25/2000	GROUNDWATER	89.00	99.00		
HC78A1AAA	78A	01/27/2000	SOIL GRID	0.00	0.50		
HC78A1AAD	78A	01/27/2000	SOIL GRID	1.50	2.00		
HC78A1BAA	78A	01/27/2000	SOIL GRID	1.50	2.00		
HC78B1AAA	78B	01/27/2000	SOIL GRID	0.00	0.50		
HC78B1BAA	78B	01/27/2000	SOIL GRID	1.50	2.00		
HC78C1AAA	78C	01/27/2000	SOIL GRID	0.00	0.50		
HC78C1AAD	78C	01/27/2000	SOIL GRID	0.00	0.50		
HC78C1BAA	78C	01/28/2000	SOIL GRID	1.50	2.00		
HC78D1AAA	78D	01/28/2000	SOIL GRID	0.00	0.50		
HC78D1BAA	78D	01/28/2000	SOIL GRID	1.50	2.00		
HC87B1AAA	87B	01/24/2000	SOIL GRID	0.00	0.25		
HC87B1AAD	87B	01/24/2000	SOIL GRID	0.00	0.25		
HC87B1BAA	87B	01/24/2000	SOIL GRID	0.25	0.50		
HC87B1CAA	87B	01/24/2000	SOIL GRID	0.50	1.00		
HC88B1AAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HC88B1BAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HC88B1BAD	88B	01/24/2000	SOIL GRID	0.25	0.50		
HC88B1CAA	88B	01/24/2000	SOIL GRID	0.50	1.00		
HC89A1AAA	89A	01/24/2000	SOIL GRID	0.00	0.25		
HC89A1BAA	89A	01/24/2000	SOIL GRID	0.25	0.50		
HC89A1CAA	89A	01/24/2000	SOIL GRID	0.50	1.00		
HC89B1AAA	89B	01/25/2000	SOIL GRID	0.00	0.25		
HC89B1AAD	89B	01/25/2000	SOIL GRID	0.00	0.25		
HC89B1BAA	89B	01/25/2000	SOIL GRID	0.25	0.50		
HC89B1CAA	89B	01/25/2000	SOIL GRID	0.50	1.00		
HC91A1AAA	91A	01/25/2000	SOIL GRID	0.00	0.50		
HC91B1AAA	91B	01/26/2000	SOIL GRID	0.00	0.50		
HC91B1BAA	91B	01/26/2000	SOIL GRID	1.50	2.00		
HC91B1BAD	91B	01/26/2000	SOIL GRID	1.50	2.00		
HC92A1AAA	92A	01/26/2000	SOIL GRID	0.00	0.50		
HC92A1BAA	92A	01/27/2000	SOIL GRID	1.50	2.00		
HC92A1BAD	92A	01/27/2000	SOIL GRID	1.50	2.00		
HC92B1AAA	92B	01/27/2000	SOIL GRID	0.00	0.50		
HC92B1BAA	92B	01/27/2000	SOIL GRID	1.50	2.00		
HC92B1BAD	92B	01/27/2000	SOIL GRID	1.50	2.00		
HC92C1AAA	92C	01/28/2000	SOIL GRID	0.00	0.50		
HC92C1BAA	92C	01/28/2000	SOIL GRID	1.50	2.00		
HC92D1AAA	92D	01/28/2000	SOIL GRID	0.00	0.50		
HC92D1BAA	92D	01/28/2000	SOIL GRID	1.50	2.00		
HC93V1AAA	93V	01/28/2000	SOIL GRID	0.00	0.50		
HC93V1BAA	93V	01/28/2000	SOIL GRID	1.50	2.00		
HC93W1AAA	93W	01/28/2000	SOIL GRID	0.00	0.50		

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1/24/00-1/28/00

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HC93W1BAA	93W	01/28/2000	SOIL GRID	1.50	2.00		
HC93W1BAD	93W	01/28/2000	SOIL GRID	1.50	2.00		
HC94A1AAA	94A	01/26/2000	SOIL GRID	0.00	0.50		
HC94A1AAD	94A	01/26/2000	SOIL GRID	0.00	0.50		
HC94A1BAA	94A	01/26/2000	SOIL GRID	1.50	2.00		
HC94B1AAA	94B	01/26/2000	SOIL GRID	0.00	0.50		
HC94B1BAA	94B	01/26/2000	SOIL GRID	1.50	2.00		
HC94C1AAA	94C	01/27/2000	SOIL GRID	0.00	0.50		
HC94C1BAA	94C	01/27/2000	SOIL GRID	1.50	2.00		
HC95A1AAA	95A	01/27/2000	SOIL GRID	0.00	0.50		
HC95A1AAD	95A	01/25/2000	SOIL GRID	0.00	0.25		
HC95A1AAD	95A	01/27/2000	SOIL GRID	0.00	0.50		
HC95A1BAA	95A	01/26/2000	SOIL GRID	1.50	2.00		
HC95B1AAA	95B	01/27/2000	SOIL GRID	0.00	0.50		
HC95B1BAA	95B	01/26/2000	SOIL GRID	1.50	2.00		
HC95C1AAA	95C	01/27/2000	SOIL GRID	0.00	0.50		
HC95C1BAA	95C	01/26/2000	SOIL GRID	1.50	2.00		
HCDEMO3.5IN	HCDEMO3.5IN	01/24/2000	SOIL GRID	0.00	0.25		
HCT94.2IN	HCT94.2IN	01/24/2000	SOIL GRID	0.00	0.25		
HCTR4.2IN	HCTR4.2IN	01/24/2000	SOIL GRID	0.00	0.25		
HCTR81MME	HCTR81MME	01/24/2000	SOIL GRID	0.00	0.25		
HCTR81MMW	HCTR81MMW	01/24/2000	SOIL GRID	0.00	0.25		
HD87B1AAA	87B	01/24/2000	SOIL GRID	0.00	0.25		
HD87B1BAA	87B	01/24/2000	SOIL GRID	0.25	0.50		
HD87B1CAA	87B	01/24/2000	SOIL GRID	0.50	1.00		
HD87B3AAA	87B	01/24/2000	SOIL GRID	0.00	0.25		
HD87B3BAA	87B	01/24/2000	SOIL GRID	0.25	0.50		
HD87B3CAA	87B	01/24/2000	SOIL GRID	0.50	1.00		
HD87B5AAA	87B	01/24/2000	SOIL GRID	0.00	0.25		
HD87B5BAA	87B	01/24/2000	SOIL GRID	0.25	0.50		
HD87B5CAA	87B	01/24/2000	SOIL GRID	0.50	1.00		
HD87B7AAA	87B	01/24/2000	SOIL GRID	0.00	0.25		
HD87B7BAA	87B	01/24/2000	SOIL GRID	0.25	0.50		
HD87B7CAA	87B	01/24/2000	SOIL GRID	0.50	1.00		
HD88B1AAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HD88B1BAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HD88B1CAA	88B	01/24/2000	SOIL GRID	0.50	1.00		
HD88B3AAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HD88B3BAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HD88B3CAA	88B	01/24/2000	SOIL GRID	0.50	1.00		
HD88B5AAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HD88B5BAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HD88B5CAA	88B	01/24/2000	SOIL GRID	0.50	1.00		
HD88B7AAA	88B	01/24/2000	SOIL GRID	0.25	0.50		

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Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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SAMPLING PROGRESS
1/24/00-1/28/00

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HD88B7BAA	88B	01/24/2000	SOIL GRID	0.25	0.50		
HD88B7CAA	88B	01/24/2000	SOIL GRID	0.50	1.00		
HD89A1AAA	89A	01/24/2000	SOIL GRID	0.00	0.25		
HD89A1BAA	89A	01/24/2000	SOIL GRID	0.25	0.50		
HD89A1CAA	89A	01/24/2000	SOIL GRID	0.50	1.00		
HD89A3AAA	89A	01/24/2000	SOIL GRID	0.00	0.25		
HD89A3BAA	89A	01/24/2000	SOIL GRID	0.25	0.50		
HD89A3CAA	89A	01/24/2000	SOIL GRID	0.50	1.00		
HD89A3CAD	89A	01/24/2000	SOIL GRID	0.50	1.00		
HD89A5AAA	89A	01/24/2000	SOIL GRID	0.00	0.25		
HD89A5BAA	89A	01/24/2000	SOIL GRID	0.25	0.50		
HD89A5CAA	89A	01/24/2000	SOIL GRID	0.50	1.00		
HD89A7AAA	89A	01/24/2000	SOIL GRID	0.00	0.25		
HD89A7BAA	89A	01/24/2000	SOIL GRID	0.25	0.50		
HD89A7CAA	89A	01/24/2000	SOIL GRID	0.50	1.00		
HD89A7CAD	89A	01/24/2000	SOIL GRID	0.50	1.00		
HD89B1AAA	89B	01/25/2000	SOIL GRID	0.00	0.25		
HD89B1BAA	89B	01/25/2000	SOIL GRID	0.25	0.50		
HD89B1CAA	89B	01/25/2000	SOIL GRID	0.50	1.00		
HD89B3AAA	89B	01/25/2000	SOIL GRID	0.00	0.25		
HD89B3BAA	89B	01/25/2000	SOIL GRID	0.25	0.50		
HD89B3CAA	89B	01/25/2000	SOIL GRID	0.50	1.00		
HD89B5AAA	89B	01/25/2000	SOIL GRID	0.00	0.25		
HD89B5BAA	89B	01/25/2000	SOIL GRID	0.25	0.50		
HD89B5CAA	89B	01/25/2000	SOIL GRID	0.50	1.00		
HD89B7AAA	89B	01/25/2000	SOIL GRID	0.00	0.25		
HD89B7BAA	89B	01/25/2000	SOIL GRID	0.25	0.50		
HD89B7CAA	89B	01/25/2000	SOIL GRID	0.50	1.00		
HD91A1AAA	91A	01/25/2000	SOIL GRID	0.00	0.50		
HD91A1BAA	91A	01/25/2000	SOIL GRID	1.50	2.00		
HD91A2AAA	91A	01/25/2000	SOIL GRID	0.00	0.50		
HD91A2BAA	91A	01/25/2000	SOIL GRID	1.50	2.00		
HD91A3AAA	91A	01/25/2000	SOIL GRID	0.00	0.50		
HD91A3BAA	91A	01/25/2000	SOIL GRID	1.50	2.00		
HD91A4AAA	91A	01/25/2000	SOIL GRID	0.00	0.50		
HD91A4AAD	91A	01/25/2000	SOIL GRID	0.00	0.50		
HD91A4BAA	91A	01/25/2000	SOIL GRID	1.50	2.00		
HD91A5AAA	91A	01/25/2000	SOIL GRID	0.00	0.50		
HD91A5BAA	91A	01/25/2000	SOIL GRID	1.50	2.00		
HD91B1AAA	91B	01/26/2000	SOIL GRID	0.00	0.50		
HD91B1BAA	91B	01/26/2000	SOIL GRID	1.50	2.00		
HD91B2AAA	91B	01/26/2000	SOIL GRID	0.00	0.50		
HD91B2BAA	91B	01/26/2000	SOIL GRID	1.50	2.00		
HD91B3AAA	91B	01/26/2000	SOIL GRID	0.00	0.50		

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TABLE 2
SAMPLING PROGRESS
1/24/00-1/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD91B3BAA	91B	01/26/2000	SOIL GRID	1.50	2.00		
HD91B4AAA	91B	01/26/2000	SOIL GRID	0.00	0.50		
HD91B4BAA	91B	01/26/2000	SOIL GRID	1.50	2.00		
HD91B5AAA	91B	01/26/2000	SOIL GRID	0.00	0.50		
HD91B5BAA	91B	01/26/2000	SOIL GRID	1.50	2.00		
HD92A1AAA	92A	01/26/2000	SOIL GRID	0.00	0.50		
HD92A1BAA	92A	01/27/2000	SOIL GRID	1.50	2.00		
HD92A2AAA	92A	01/26/2000	SOIL GRID	0.00	0.50		
HD92A2BAA	92A	01/27/2000	SOIL GRID	1.50	2.00		
HD92A3AAA	92A	01/26/2000	SOIL GRID	0.00	0.50		
HD92A3BAA	92A	01/27/2000	SOIL GRID	1.50	2.00		
HD92A4AAA	92A	01/26/2000	SOIL GRID	0.00	0.50		
HD92A4BAA	92A	01/27/2000	SOIL GRID	1.50	2.00		
HD92A5AAA	92A	01/26/2000	SOIL GRID	0.00	0.50		
HD92A5AAD	92A	01/26/2000	SOIL GRID	0.00	0.50		
HD92A5BAA	92A	01/27/2000	SOIL GRID	1.50	2.00		
HD92B1AAA	92B	01/27/2000	SOIL GRID	0.00	0.50		
HD92B1BAA	92B	01/27/2000	SOIL GRID	1.50	2.00		
HD92B2AAA	92B	01/27/2000	SOIL GRID	0.00	0.50		
HD92B2BAA	92B	01/27/2000	SOIL GRID	1.50	2.00		
HD92B3AAA	92B	01/27/2000	SOIL GRID	0.00	0.50		
HD92B3BAA	92B	01/27/2000	SOIL GRID	1.50	2.00		
HD92B4AAA	92B	01/27/2000	SOIL GRID	0.00	0.50		
HD92B4AAD	92B	01/27/2000	SOIL GRID	0.00	0.50		
HD92B4BAA	92B	01/27/2000	SOIL GRID	1.50	2.00		
HD92B5AAA	92B	01/27/2000	SOIL GRID	0.00	0.50		
HD92B5BAA	92B	01/27/2000	SOIL GRID	1.50	2.00		
HD92C1AAA	92C	01/28/2000	SOIL GRID	0.00	0.50		
HD92C1BAA	92C	01/28/2000	SOIL GRID	1.50	2.00		
HD92C2AAA	92C	01/28/2000	SOIL GRID	0.00	0.50		
HD92C2BAA	92C	01/28/2000	SOIL GRID	1.50	2.00		
HD92C3AAA	92C	01/28/2000	SOIL GRID	0.00	0.50		
HD92C3BAA	92C	01/28/2000	SOIL GRID	1.50	2.00		
HD92C4AAA	92C	01/28/2000	SOIL GRID	0.00	0.50		
HD92C4BAA	92C	01/28/2000	SOIL GRID	1.50	2.00		
HD92C5AAA	92C	01/28/2000	SOIL GRID	0.00	0.50		
HD92C5BAA	92C	01/28/2000	SOIL GRID	1.50	2.00		
HD92D1AAA	92D	01/28/2000	SOIL GRID	0.00	0.50		
HD92D1BAA	92D	01/28/2000	SOIL GRID	1.50	2.00		
HD92D2AAA	92D	01/28/2000	SOIL GRID	0.00	0.50		
HD92D2AAD	92D	01/28/2000	SOIL GRID	0.00	0.50		
HD92D2BAA	92D	01/28/2000	SOIL GRID	1.50	2.00		
HD92D3AAA	92D	01/28/2000	SOIL GRID	0.00	0.50		
HD92D3BAA	92D	01/28/2000	SOIL GRID	1.50	2.00		

Profiling methods include: Volatiles and Explosives
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TABLE 2
SAMPLING PROGRESS
1/24/00-1/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD92D4AAA	92D	01/28/2000	SOIL GRID	0.00	0.50		
HD92D4BAA	92D	01/28/2000	SOIL GRID	1.50	2.00		
HD92D5AAA	92D	01/28/2000	SOIL GRID	0.00	0.50		
HD92D5BAA	92D	01/28/2000	SOIL GRID	1.50	2.00		
HD93V1AAA	93V	01/28/2000	SOIL GRID	0.00	0.50		
HD93V1BAA	93V	01/28/2000	SOIL GRID	1.50	2.00		
HD93V2AAA	93V	01/28/2000	SOIL GRID	0.00	0.50		
HD93V2BAA	93V	01/28/2000	SOIL GRID	1.50	2.00		
HD93V3AAA	93V	01/28/2000	SOIL GRID	0.00	0.50		
HD93V3BAA	93V	01/28/2000	SOIL GRID	1.50	2.00		
HD93V4AAA	93V	01/28/2000	SOIL GRID	0.00	0.50		
HD93V4AAD	93V	01/28/2000	SOIL GRID	0.00	0.50		
HD93V4BAA	93V	01/28/2000	SOIL GRID	1.50	2.00		
HD93V5AAA	93V	01/28/2000	SOIL GRID	0.00	0.50		
HD93V5BAA	93V	01/28/2000	SOIL GRID	1.50	2.00		
HD93W1AAA	93W	01/28/2000	SOIL GRID	0.00	0.50		
HD93W1BAA	93W	01/28/2000	SOIL GRID	1.50	2.00		
HD93W2AAA	93W	01/28/2000	SOIL GRID	0.00	0.50		
HD93W2BAA	93W	01/28/2000	SOIL GRID	1.50	2.00		
HD93W3AAA	93W	01/28/2000	SOIL GRID	0.00	0.50		
HD93W3BAA	93W	01/28/2000	SOIL GRID	1.50	2.00		
HD93W4AAA	93W	01/28/2000	SOIL GRID	0.00	0.50		
HD93W4BAA	93W	01/28/2000	SOIL GRID	1.50	2.00		
HD93W5AAA	93W	01/28/2000	SOIL GRID	0.00	0.50		
HD93W5BAA	93W	01/28/2000	SOIL GRID	1.50	2.00		
HD94A1AAA	94A	01/26/2000	SOIL GRID	0.00	0.50		
HD94A1BAA	94A	01/26/2000	SOIL GRID	1.50	2.00		
HD94A2AAA	94A	01/26/2000	SOIL GRID	0.00	0.50		
HD94A2BAA	94A	01/26/2000	SOIL GRID	1.50	2.00		
HD94A3AAA	94A	01/26/2000	SOIL GRID	0.00	0.50		
HD94A3BAA	94A	01/26/2000	SOIL GRID	1.50	2.00		
HD94A4AAA	94A	01/26/2000	SOIL GRID	0.00	0.50		
HD94A4BAA	94A	01/26/2000	SOIL GRID	1.50	2.00		
HD94A5AAA	94A	01/26/2000	SOIL GRID	0.00	0.50		
HD94A5BAA	94A	01/26/2000	SOIL GRID	1.50	2.00		
HD94B1AAA	94B	01/26/2000	SOIL GRID	0.00	0.50		
HD94B1BAA	94B	01/26/2000	SOIL GRID	1.50	2.00		
HD94B2AAA	94B	01/26/2000	SOIL GRID	0.00	0.50		
HD94B2AAD	94B	01/26/2000	SOIL GRID	0.00	0.50		
HD94B2BAA	94B	01/26/2000	SOIL GRID	1.50	2.00		
HD94B3AAA	94B	01/26/2000	SOIL GRID	0.00	0.50		
HD94B3BAA	94B	01/26/2000	SOIL GRID	1.50	2.00		
HD94B4AAA	94B	01/26/2000	SOIL GRID	0.00	0.50		
HD94B4BAA	94B	01/26/2000	SOIL GRID	1.50	2.00		

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TABLE 2
SAMPLING PROGRESS
1/24/00-1/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD94B5AAA	94B	01/26/2000	SOIL GRID	0.00	0.50		
HD94B5BAA	94B	01/26/2000	SOIL GRID	1.50	2.00		
HD94C1AAA	94C	01/27/2000	SOIL GRID	0.00	0.50		
HD94C1BAA	94C	01/27/2000	SOIL GRID	1.50	2.00		
HD94C2AAA	94C	01/27/2000	SOIL GRID	0.00	0.50		
HD94C2BAA	94C	01/27/2000	SOIL GRID	1.50	2.00		
HD94C3AAA	94C	01/27/2000	SOIL GRID	0.00	0.50		
HD94C3BAA	94C	01/27/2000	SOIL GRID	1.50	2.00		
HD94C3BAD	94C	01/27/2000	SOIL GRID	1.50	2.00		
HD94C4AAA	94C	01/27/2000	SOIL GRID	0.00	0.50		
HD94C4BAA	94C	01/27/2000	SOIL GRID	1.50	2.00		
HD94C5AAA	94C	01/27/2000	SOIL GRID	0.00	0.50		
HD94C5BAA	94C	01/27/2000	SOIL GRID	1.50	2.00		
HD95A1AAA	95A	01/27/2000	SOIL GRID	0.00	0.50		
HD95A1BAA	95A	01/26/2000	SOIL GRID	1.50	2.00		
HD95A2AAA	95A	01/27/2000	SOIL GRID	0.00	0.50		
HD95A2BAA	95A	01/26/2000	SOIL GRID	1.50	2.00		
HD95A3AAA	95A	01/27/2000	SOIL GRID	0.00	0.50		
HD95A3BAA	95A	01/26/2000	SOIL GRID	1.50	2.00		
HD95A4AAA	95A	01/27/2000	SOIL GRID	0.00	0.50		
HD95A4BAA	95A	01/26/2000	SOIL GRID	1.50	2.00		
HD95A5AAA	95A	01/27/2000	SOIL GRID	0.00	0.50		
HD95A5BAA	95A	01/26/2000	SOIL GRID	1.50	2.00		
HD95B1AAA	95B	01/27/2000	SOIL GRID	0.00	0.50		
HD95B1AAD	95B	01/25/2000	SOIL GRID	0.00	0.25		
HD95B1AAD	95B	01/27/2000	SOIL GRID	0.00	0.50		
HD95B1BAA	95B	01/26/2000	SOIL GRID	1.50	2.00		
HD95B2AAA	95B	01/27/2000	SOIL GRID	0.00	0.50		
HD95B2BAA	95B	01/26/2000	SOIL GRID	1.50	2.00		
HD95B3AAA	95B	01/27/2000	SOIL GRID	0.00	0.50		
HD95B3BAA	95B	01/26/2000	SOIL GRID	1.50	2.00		
HD95B4AAA	95B	01/27/2000	SOIL GRID	0.00	0.50		
HD95B4BAA	95B	01/26/2000	SOIL GRID	1.50	2.00		
HD95B5AAA	95B	01/27/2000	SOIL GRID	0.00	0.50		
HD95B5BAA	95B	01/26/2000	SOIL GRID	1.50	2.00		
HD95C1AAA	95C	01/25/2000	SOIL GRID	0.00	0.25		
HD95C1AAA	95C	01/27/2000	SOIL GRID	0.00	0.50		
HD95C1BAA	95C	01/28/2000	SOIL GRID	1.50	2.00		
HD95C2AAA	95C	01/25/2000	SOIL GRID	0.00	0.25		
HD95C2AAA	95C	01/27/2000	SOIL GRID	0.00	0.50		
HD95C2BAA	95C	01/26/2000	SOIL GRID	1.50	2.00		
HD95C3AAA	95C	01/25/2000	SOIL GRID	0.00	0.25		
HD95C3AAA	95C	01/27/2000	SOIL GRID	0.00	0.50		
HD95C3BAA	95C	01/26/2000	SOIL GRID	1.50	2.00		

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TABLE 2
SAMPLING PROGRESS
1/24/00-1/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD95C3BAD	95C	01/26/2000	SOIL GRID	1.50	2.00		
HD95C4AAA	95C	01/25/2000	SOIL GRID	0.00	0.25		
HD95C4AAA	95C	01/27/2000	SOIL GRID	0.00	0.50		
HD95C4BAA	95C	01/26/2000	SOIL GRID	1.50	2.00		
HD95C4BAD	95C	01/26/2000	SOIL GRID	1.50	2.00		
HD95C5AAA	95C	01/25/2000	SOIL GRID	0.00	0.25		
HD95C5AAA	95C	01/27/2000	SOIL GRID	0.00	0.50		
HD95C5BAA	95C	01/26/2000	SOIL GRID	1.50	2.00		
HDDEMO3.5IN	HDDEMO3.5IN	01/24/2000	SOIL GRID	0.00	0.25		
HDT94.2IN	HDT94.2IN	01/24/2000	SOIL GRID	0.00	0.25		
HDTR4.2IN	HDTR4.2IN	01/24/2000	SOIL GRID	0.00	0.25		
HDTR81MME	HDTR81MME	01/24/2000	SOIL GRID	0.00	0.00		
HDTR81MMW	HDTR81MMW	01/24/2000	SOIL GRID	0.00	0.25		

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Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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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 1/3/00-1/28/00

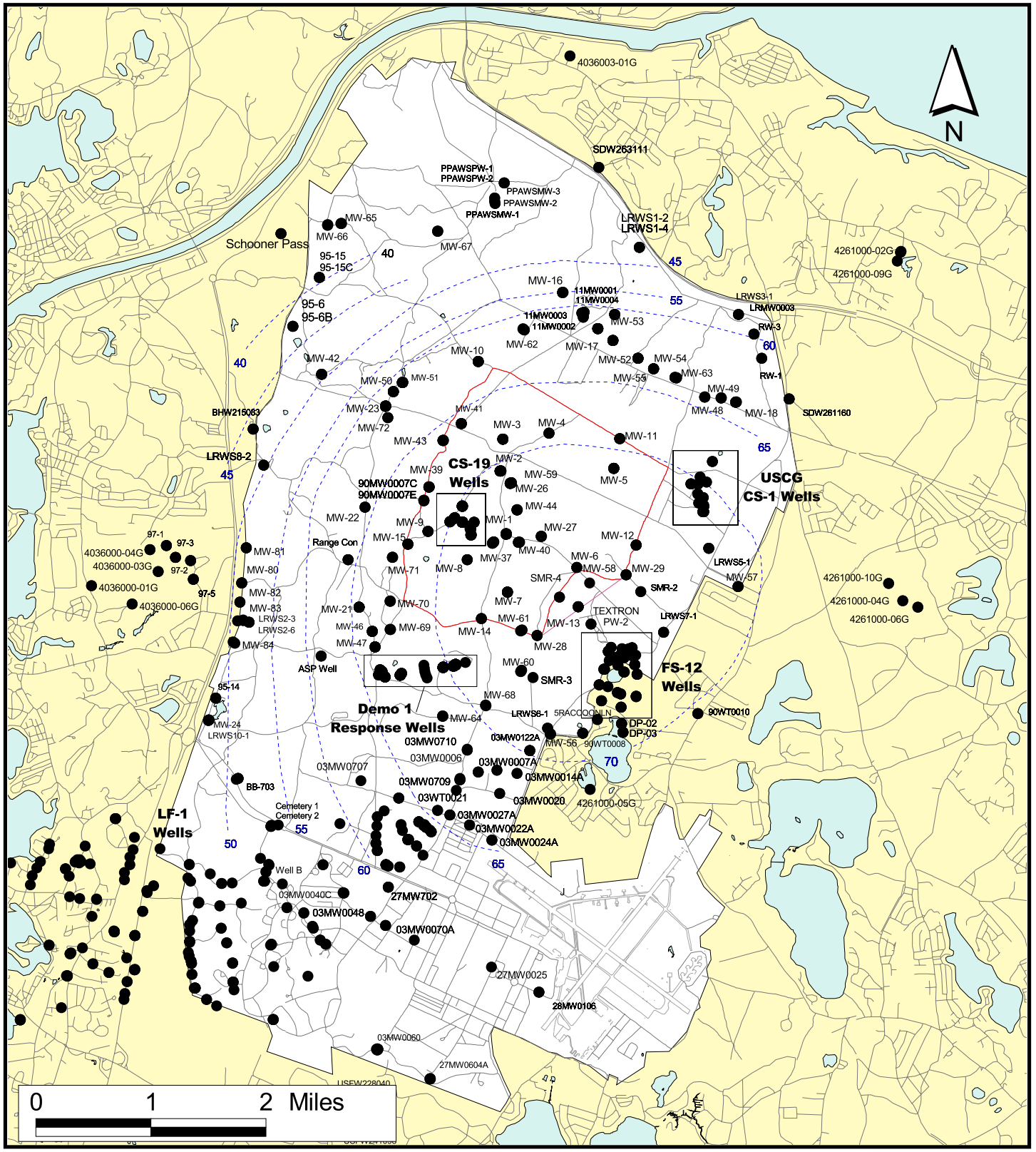
OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
ASDEMO135	ASDEMO135	01/18/2000	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
ASDEMO135	ASDEMO135	01/18/2000	AIR	0.00	0.00			8330N	2-NITROTOLUENE	NO
ASDEMO135	ASDEMO135	01/18/2000	AIR	0.00	0.00			8330N	4-AMINO-2,6-DINITROTOLUENE	NO
ASDEMO135	ASDEMO135	01/18/2000	AIR	0.00	0.00			8330N	4-NITROTOLUENE	NO
ASDEMO135	ASDEMO135	01/18/2000	AIR	0.00	0.00			8330N	NITROBENZENE	NO
ASP9PAD42	ASP9PAD42	01/18/2000	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
ASP9PAD42	ASP9PAD42	01/18/2000	AIR	0.00	0.00			8330N	2-NITROTOLUENE	NO
ASP9PAD42	ASP9PAD42	01/18/2000	AIR	0.00	0.00			8330N	4-NITROTOLUENE	NO
ASP9PAD42	ASP9PAD42	01/18/2000	AIR	0.00	0.00			8330N	NITROBENZENE	NO
ASTARGET942	ASTARGET942	01/18/2000	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
ASTARGET942	ASTARGET942	01/18/2000	AIR	0.00	0.00			8330N	2-NITROTOLUENE	NO
ASTARGET942	ASTARGET942	01/18/2000	AIR	0.00	0.00			8330N	4-AMINO-2,6-DINITROTOLUENE	NO
ASTARGET942	ASTARGET942	01/18/2000	AIR	0.00	0.00			8330N	4-NITROTOLUENE	NO
ASTARGET942	ASTARGET942	01/18/2000	AIR	0.00	0.00			8330N	NITROBENZENE	NO
ASTARGET9BLK	ASTARGET9BLK	01/18/2000	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
ASTARGET9BLK	ASTARGET9BLK	01/18/2000	AIR	0.00	0.00			8330N	2-NITROTOLUENE	NO
ASTARGET9BLK	ASTARGET9BLK	01/18/2000	AIR	0.00	0.00			8330N	4-AMINO-2,6-DINITROTOLUENE	NO
ASTARGET9BLK	ASTARGET9BLK	01/18/2000	AIR	0.00	0.00			8330N	4-NITROTOLUENE	NO
ASTARGET9BLK	ASTARGET9BLK	01/18/2000	AIR	0.00	0.00			8330N	NITROBENZENE	NO
ASTURPENT81	ASTURPENT81	01/18/2000	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
ASTURPENT81	ASTURPENT81	01/18/2000	AIR	0.00	0.00			8330N	2-NITROTOLUENE	NO
ASTURPENT81	ASTURPENT81	01/18/2000	AIR	0.00	0.00			8330N	4-AMINO-2,6-DINITROTOLUENE	NO
ASTURPENT81	ASTURPENT81	01/18/2000	AIR	0.00	0.00			8330N	4-NITROTOLUENE	NO
ASTURPENT81	ASTURPENT81	01/18/2000	AIR	0.00	0.00			8330N	NITROBENZENE	NO
PUFBLK3	PUFBLK3	01/19/2000	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
PUFBLK3	PUFBLK3	01/19/2000	AIR	0.00	0.00			8330N	2-NITROTOLUENE	NO
PUFBLK3	PUFBLK3	01/19/2000	AIR	0.00	0.00			8330N	4-AMINO-2,6-DINITROTOLUENE	NO
PUFBLK3	PUFBLK3	01/19/2000	AIR	0.00	0.00			8330N	4-NITROTOLUENE	NO
PUFBLK3	PUFBLK3	01/19/2000	AIR	0.00	0.00			8330N	NITROBENZENE	NO
03MW0027A	03MW0027A	01/18/2000	GROUNDWATER	135.00	140.00			8330N	NITROBENZENE	NO
W44SSA	MW-44	01/03/2000	GROUNDWATER	123.00	133.00	-5.13	4.87	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
G74MJA	MW-74	01/20/2000	PROFILE	195.00	195.00	100.00	100.00	8330N	3-NITROTOLUENE	NO
G74MJA	MW-74	01/20/2000	PROFILE	195.00	195.00	100.00	100.00	8330N	4-NITROTOLUENE	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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 1/3/00-1/28/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G74MJA	MW-74	01/20/2000	PROFILE	195.00	195.00	100.00	100.00	8330N	NITROGLYCERIN	NO
G74MKA	MW-74	01/20/2000	PROFILE	202.00	205.00	107.00	110.00	8330N	NITROGLYCERIN	NO
HCDEMO3.5IN	HCDEMO3.5IN	01/24/2000	SOIL GRID	0.00	0.25			8330N	2-NITROTOLUENE	NO
HCTR81MME	HCTR81MME	01/24/2000	SOIL GRID	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCTR81MMW	HCTR81MMW	01/24/2000	SOIL GRID	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCTR81MMW	HCTR81MMW	01/24/2000	SOIL GRID	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
HDT94.2IN	HDT94.2IN	01/24/2000	SOIL GRID	0.00	0.25			8330N	PENTAERYTHRITOL TETRANITR	NO
HDTR81MME	HDTR81MME	01/24/2000	SOIL GRID	0.00	0.00			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HDTR81MMW	HDTR81MMW	01/24/2000	SOIL GRID	0.00	0.25			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



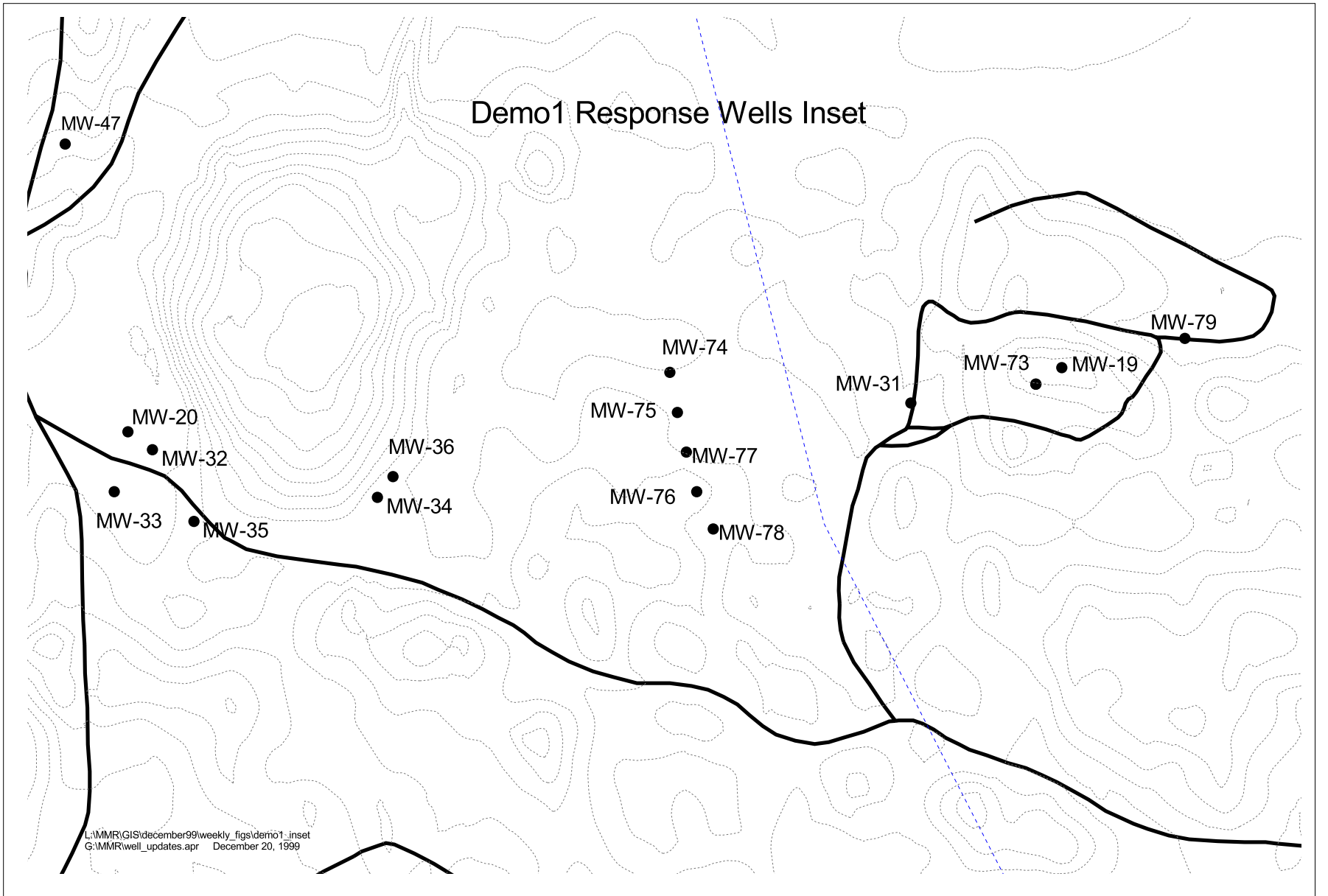
Sources & Notes

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