

**WEEKLY PROGRESS UPDATE
FOR DECEMBER 27 – DECEMBER 31, 1999**

**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 December 27 to December 31, 1999.

1. SUMMARY OF ACTIONS TAKEN

No drilling activity occurred during this reporting period. Samples collected during the reporting period are summarized in Table 1. Groundwater samples were collected for the first time from the new wells at MW-56 (J Well Far Field monitoring well); the second round of sampling was initiated for the RDX response wells at MW-37, -40, and -44; and a sample was collected from 90MW0015 in the FS-12 area. Soil samples were collected from grids in areas 48 (tow dart), 70 (MP-1), and 79 (Former H Range). Air monitoring and post detonation soil samples were collected from the UXO detonation at CS-19, MW-25, and the APC, performed on 12/28/99. There was no technical meeting during this reporting period.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 2. 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 typically conducted in this timeframe. This week's rush data included SVOC and explosive results for the post-excavation soil samples collected from the northwest demolition crater at Demo Area 2. Table 2 summarizes only detects, and does not show samples with non-detects.

As indicated in Table 2, two of the post-excavation soil samples from Demo 2 had detections of benzyl butyl phthalate and one sample had a detection of RDX. These compounds were detected in previous samples from this location, where artillery simulators were detonated on October 2, 1999. The recent samples, collected following removal of contaminated soil, show lower and less widespread detections of these compounds.

3. DELIVERABLES SUBMITTED

Weekly Update for December 13-17	12/29/99
Weekly Update for December 20-24	12/30/99

4. SCHEDULED ACTIONS

Scheduled actions for the week of January 3 include sampling of the groundwater from wells at MW-60 (primary target at KD Range), MW-61 (secondary target at KD Range), MW-62 (U Range), MW-63 (LRWS-12 far field well), MW-44 (upgradient of RDX detection at MW-23), and MW-80 (Bourne far field well). The soil sampling of Gun and Mortar Position grids and Mortar Target grids will be continued. Drilling at MW-78 (Demo 1 response well) will commence.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

On 12/28/99, Ogden's UXO contractor removed munitions debris from the locations in Demo 1 that were identified in the 12/22/99 site walk and stored them in the explosive magazine. Drill pads were completed at the downgradient drilling locations MW-74 and MW-78.

TABLE 1
 SAMPLING PROGRESS
 12/27-12/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
ASCC19APCB	ASCC19APCB	12/28/1999	AIR	0.00	0.00		
ASCS19APC	ASCS19APC	12/28/1999	AIR	0.00	0.00		
PUFBLK2	PUFBLK2	12/29/1999	AIR	0.00	0.00		
PUFLCS2	PUFLCS2	12/29/1999	AIR	0.00	0.00		
ASCC19APCB	FIELDQC	12/28/1999	FIELDQC	0.00	0.00		
ASCS19APC	HOLDING BLANK	12/28/1999	FIELDQC	0.00	0.00		
HC70A1AAE	FIELDQC	12/29/1999	FIELDQC	0.00	0.00		
HC70A1AAT	FIELDQC	12/29/1999	FIELDQC	0.00	0.00		
HC70B1AAE	FIELDQC	12/30/1999	FIELDQC	0.00	0.00		
HC79J1BAE	FIELDQC	12/28/1999	FIELDQC	0.00	0.00		
HC79O1BAE	FIELDQC	12/28/1999	FIELDQC	0.00	0.00		
HC79OBAT	FIELDQC	12/28/1999	FIELDQC	0.00	0.00		
W37M3F	FIELDQC	12/29/1999	FIELDQC	0.00	0.00		
W44M2T	FIELDQC	12/30/1999	FIELDQC	0.00	0.00		
W56M3T	FIELDQC	12/27/1999	FIELDQC	0.00	0.00		
90MW0015	90MW0015	12/28/1999	GROUNDWATER	47.00	51.00		
W37M1A	MW-37	12/29/1999	GROUNDWATER	181.00	191.00	60.39	70.39
W37M2A	MW-37	12/29/1999	GROUNDWATER	145.00	155.00	24.31	34.31
W37M3A	MW-37	12/29/1999	GROUNDWATER	130.00	140.00	9.51	19.51
W40M1A	MW-40	12/30/1999	GROUNDWATER	132.50	142.50	13.20	23.20
W40SSA	MW-40	12/29/1999	GROUNDWATER	115.50	125.50	-4.04	5.96
W44M1A	MW-40	12/30/1999	GROUNDWATER	182.00	192.00	53.10	63.10
W44M1D	MW-40	12/30/1999	GROUNDWATER	182.00	192.00	53.10	63.10
W44M2A	MW-40	12/30/1999	GROUNDWATER	142.00	152.00	14.10	24.10
W56DDA	MW-56	12/28/1999	GROUNDWATER	176.00	186.00	97.80	107.80
W56M2A	MW-56	12/28/1999	GROUNDWATER	131.00	141.00	52.80	62.80
W56M3A	MW-56	12/27/1999	GROUNDWATER	106.00	116.00	28.00	38.00
W56SSA	MW-56	12/27/1999	GROUNDWATER	76.00	86.00	-2.02	7.98
HC48A1AAA	48A	12/27/1999	SOIL GRID	0.00	0.25		
HC48A1BAA	48A	12/27/1999	SOIL GRID	0.25	0.50		
HC48A1CAA	48A	12/27/1999	SOIL GRID	0.50	1.00		
HC70A1AAA	70A	12/29/1999	SOIL GRID	0.00	0.50		
HC70A1BAA	70A	12/30/1999	SOIL GRID	0.00	0.50		
HC70B1AAA	70B	12/30/1999	SOIL GRID	0.00	0.50		
HC79J1AAA	79J	12/27/1999	SOIL GRID	0.00	0.50		
HC79J1BAA	79J	12/27/1999	SOIL GRID	1.50	2.00		
HC79M1AAA	79M	12/28/1999	SOIL GRID	0.00	0.50		
HC79M1BAA	79M	12/28/1999	SOIL GRID	1.50	2.00		
HC79N1AAA	79N	12/28/1999	SOIL GRID	0.00	0.50		
HC79N1BAA	79N	12/28/1999	SOIL GRID	1.50	2.00		
HC79O1AAA	79O	12/28/1999	SOIL GRID	0.00	0.50		
HC79O1BAA	79O	12/28/1999	SOIL GRID	1.50	2.00		
HC79P1AAA	79P	12/29/1999	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

BWTE = Depth below water table, end depth, measured in feet

TABLE 1
 SAMPLING PROGRESS
 12/27-12/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC79P1BAA	79P	12/29/1999	SOIL GRID	0.00	0.50		
HC79Q1AAA	79Q	12/29/1999	SOIL GRID	0.00	0.50		
HC79Q1AAD	79Q	12/29/1999	SOIL GRID	0.00	0.50		
HC79Q1BAA	79Q	12/29/1999	SOIL GRID	1.50	2.00		
HCCS19105MM	CS-19	12/30/1999	SOIL GRID	0.00	0.25		
HCCS19155MM	CS-19	12/30/1999	SOIL GRID	0.00	0.25		
HDAPC11AA	HDAPC11AA	12/29/1999	SOIL GRID	0.00	0.50		
HDAPC12AA	HDAPC12AA	12/29/1999	SOIL GRID	0.00	0.50		
HDAPC13AA	HDAPC13AA	12/29/1999	SOIL GRID	0.00	0.50		
HDAPC14AA	HDAPC14AA	12/29/1999	SOIL GRID	0.00	0.50		
HDAPC15AA	HDAPC15AA	12/29/1999	SOIL GRID	0.00	0.50		
HDAPC2537MM	APC	12/30/1999	SOIL GRID	0.00	0.25		
HDAPCTR6INN	APC	12/30/1999	SOIL GRID	0.00	0.25		
HDAPCTR6INS	APC	12/30/1999	SOIL GRID	0.00	0.25		
HDCS19105MM	CS-19	12/30/1999	SOIL GRID	0.00	0.25		
HDCS19155MM	CS-19	12/30/1999	SOIL GRID	0.00	0.25		
HDCS196INCH	CS-19	12/30/1999	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives

Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry

Other Sample Types methods are variable

SBD = Sample Begin Depth, measured in feet bgs

SED = Sample End Depth, measured in feet bgs

BWTS = Depth below water table, start depth, measured in feet

BWTE = Depth below water table, end depth, measured in feet

TABLE 2
 DETECTED COMPOUNDS-UNVALIDATED
 SAMPLES COLLECTED 12/13/99-12/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
DEMO2PE4	DEMO2PE4	12/20/1999	SOIL GRID	0.00	0.25			OM31B	BENZYL BUTYL PHTHALATE	
DEMO2PE5	DEMO2PE5	12/20/1999	SOIL GRID	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
DEMO2PE5	DEMO2PE5	12/20/1999	SOIL GRID	0.00	0.25			OM31B	BENZYL BUTYL PHTHALATE	

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

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS

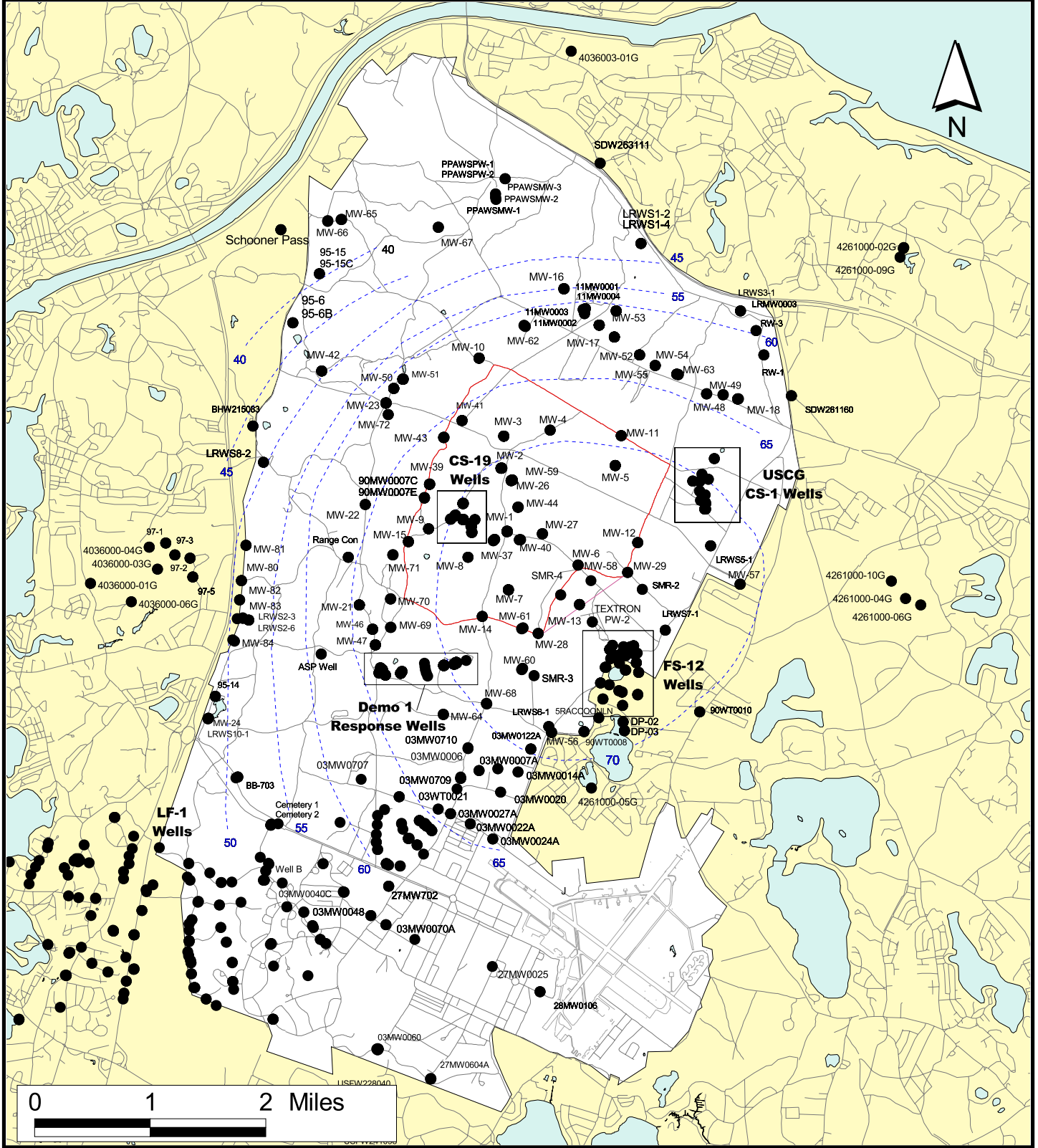
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS

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



December 16, 1999 DRAFT

Demo1 Response Wells Inset

