

**WEEKLY PROGRESS UPDATE  
FOR DECEMBER 6 – DECEMBER 10, 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 6 to December 10, 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. Development of the MW-57 wells was completed. UXO clearance was completed at the APC grids and Demo 2. UXO clearance commenced at the mortar targets and trenches. Soil sampling was completed at area 80 (mortar target 1), area 61 (GP-11), and area 54 (GP-14). Soil sampling continued at area 60 (GP-10),.

The Guard, EPA, and MADEP had a meeting on December 9 to discuss technical issues, including the following:

- Jacobs gave an update of CS-19 field activities. They are finished with the UXO avoidance of the soil sampling area. Two new UXO were found, one 155 (M1HE) and one 155 (practice with fuze). A preliminary spot for the monitoring well has been located. Need to discuss the goal for the UXO clearance of the entire inner area with EPA. The Guard stated that the Alabama EOD is at MMR and will examine the rounds at CS-19.
- Update of field activities was given by Ogden and included: developing last two wells (S and M2) at MW-57 which will not be sampled and analyzed prior to the next public meeting; UXO clearance at mortar target 1, GS-7, and the APC have been completed; currently working on the UXO clearance of mortar targets 4 and 5; intrusive clearance at Demo 2 has been completed; soil samples from mortar target 1 have been collected; continue to collect soil samples from gun and mortar positions.
- A 1-page handout of the document status was distributed for review and discussion. Ogden asked EPA if they should continue with the evaluation of remedial technologies since the new Administrative Order addresses remediation. EPA stated that the Guard should continue with the evaluation. Ogden stated that the comment responses have been pushed back to the 14th. DEP requested the responses be sent to Don Muldoon. The response to comments on the Brick Lined Pit was distributed for review.
- A 12-page handout of the dye recommendations for the PEP report was distributed for review. Ogden stated that the agencies have all the deliverables necessary to determine if the Guard is on the right track to respond to comments. Need to set up a meeting to discuss in the future. The only enforceable date related to this task is the start of the Training Areas investigation.
- The Gun and Mortar FSP changes were distributed on 11/23. Ogden asked if the plan should be finalized with the dioxin issue outstanding. EPA agreed with this.
- The RDX Response Plan change pages were distributed on 11/30. Ogden asked the EPA if the responses were acceptable. EPA stated that they would review and e-mail comments on Friday (12/10).

- A 1-page handout of the plan view of the Demo 1 response well locations was provided, showing RDX concentrations from monitoring wells and profile samples. All agreed to leave the remaining two locations (MW-74 and MW-78) where they were originally proposed.
- The Guard asked the EPA what process they use to track down whom to send the 104e request to. The EPA agreed to assist the Guard in locating PRPs and would get back to them on Friday (12/10). The Guard stated that the 104e request was given to AFCEE as the delivery agent.
- The draft milestone handout was distributed last week for discussion this week. EPA stated that this was what they were looking for. They would like to propose to add 2 new milestones to each project and they are: data collection/field work will start within 7 days of EPA approval of the MOR, and Final Tech Memo submittal within 30 days of the EPA approval of the MOR. The EPA would like to discuss this topic at the Tuesday meeting in Boston. The milestone chart will be revised for Tuesday.
- A 1-page handout of the IART action items was distributed for discussion.
  - 1. Dr. Feigenbaum requested that the state and federal regulators weigh in on issue of propellants from small arms. The Guard stated that they would have a presentation in January to discuss propellants.
  - 2. Dr. Feigenbaum requested that the weekly reports be modified to have summaries of data shown by subject area. Ogden added a section 5 to the weekly and monthly progress reports to show data by subject area.
  - 3. Mr. Zanis suggested that more wells were needed at Demo 2 to better define the ZOC. EPA thinks that an additional well down gradient may be required.
  - 4. NGB will give a presentation on propellants used in mortar rounds at the next meeting. The Guard stated that this needs to be moved to January.
  - 5. Ogden will mail out revised tables to go with maps presented at October 28, 1999 IART meeting to all team members. Ogden stated that this has been done.
  - The last two action items are for EPA, believe these are done.
- EPA requested an update on the J-3 Range Response Plan. The Guard indicated that they have requested more information from AFCEE on the wells in the area and information related to the FS-12 extraction system.
- TRC requested an update on Mr. Schlesinger's request on the potential for a resistivity survey. Ogden indicated that this method would not work with the site conditions at the training range. Info will be provided to Mr. Schlesinger.
- EPA stated that plume definition needs to be addressed for Demo 1. The Guard agreed and suggested that it be discussed at the Monday meeting.

## 2. SUMMARY OF DATA RECEIVED

Rush data received during the week did not include any detections. Rush data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for all media, and explosive and VOC analyses for groundwater profile samples, are conducted in this timeframe.

## 3. DELIVERABLES SUBMITTED

Weekly Progress Report (November 22-26)	12/6/99
Final Mortar Targets FSP	12/6/99
Final Trenches FSP	12/6/99

Monthly Progress Report #32 (November 1999)

12/10/99

Draft Tech Memo 99-5 Background Groundwater Quality

12/10/99

#### **4. SCHEDULED ACTIONS**

Scheduled actions for the week of December 13 include the sampling of three of the wells from MW-57 (Sandwich far field well). No other field work is scheduled due to the hunting season.

#### **5. SUMMARY OF ACTIVITIES FOR DEMO 1**

No field activities occurred at Demo 1 during this reporting period. The Guard discussed preliminary data from the downgradient response wells with the regulatory agencies, and it was agreed to install the last two response wells in the original proposed locations.

TABLE 1  
 SAMPLING PROGRESS  
 12/6-12/10

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC54C1BAE	FIELDQC	12/10/1999	FIELDQC	0.00	0.00		
HC54C1BAT	FIELDQC	12/10/1999	FIELDQC	0.00	0.00		
HC61B1AAE	FIELDQC	12/6/1999	FIELDQC	0.00	0.00		
HC61B1AAT	FIELDQC	12/6/1999	FIELDQC	0.00	0.00		
HC61B1BAE	FIELDQC	12/9/1999	FIELDQC	0.00	0.00		
HC61B1BAT	FIELDQC	12/9/1999	FIELDQC	0.00	0.00		
HC61D1BAE	FIELDQC	12/7/1999	FIELDQC	0.00	0.00		
HC61D1BAT	FIELDQC	12/7/1999	FIELDQC	0.00	0.00		
HC80B1CAE	FIELDQC	12/8/1999	FIELDQC	0.00	0.00		
HC80B1CAT	FIELDQC	12/8/1999	FIELDQC	0.00	0.00		
DW571208	GAC WATER	12/8/1999	IDW	0.00	0.00		
HC54A1AAA	54A	12/10/1999	SOIL GRID	0.00	0.50		
HC54A1BAA	54A	12/10/1999	SOIL GRID	1.50	2.00		
HC54B1AAA	54B	12/10/1999	SOIL GRID	0.00	0.50		
HC54B1BAA	54B	12/10/1999	SOIL GRID	1.50	2.00		
HC54C1AAA	54C	12/10/1999	SOIL GRID	0.00	0.50		
HC54C1BAA	54C	12/10/1999	SOIL GRID	1.50	2.00		
HC60G1AAA	60G	12/6/1999	SOIL GRID	0.00	0.50		
HC60G1BAA	60G	12/6/1999	SOIL GRID	1.50	2.00		
HC60H1AAA	60H	12/6/1999	SOIL GRID	0.00	0.50		
HC60H1BAA	60H	12/6/1999	SOIL GRID	1.50	2.00		
HC61A1AAA	61A	12/6/1999	SOIL GRID	0.00	0.50		
HC61A1AAD	61A	12/6/1999	SOIL GRID	0.00	0.50		
HC61A1BAA	61A	12/6/1999	SOIL GRID	1.50	2.00		
HC61A1BAD	61A	12/6/1999	SOIL GRID	1.50	2.00		
HC61B1AAA	61B	12/6/1999	SOIL GRID	0.00	0.50		
HC61B1AAD	61B	12/6/1999	SOIL GRID	0.00	0.50		
HC61B1BAA	61B	12/9/1999	SOIL GRID	1.50	2.00		
HC61C1AAA	61C	12/9/1999	SOIL GRID	0.00	0.50		
HC61C1BAA	61C	12/9/1999	SOIL GRID	1.50	2.00		
HC61D1AAA	61D	12/7/1999	SOIL GRID	0.00	0.50		
HC61D1BAA	61D	12/7/1999	SOIL GRID	1.50	2.00		
HC61E1AAA	61E	12/7/1999	SOIL GRID	0.00	0.50		
HC61E1BAA	61E	12/7/1999	SOIL GRID	1.50	2.00		
HC61F1AAA	61F	12/7/1999	SOIL GRID	0.00	0.50		
HC61F1BAA	61F	12/7/1999	SOIL GRID	1.50	2.00		
HC61G1AAA	61G	12/7/1999	SOIL GRID	0.00	0.50		
HC61G1BAA	61G	12/7/1999	SOIL GRID	1.50	2.00		
HC61H1AAA	61H	12/9/1999	SOIL GRID	0.00	0.50		
HC61H1BAA	61H	12/9/1999	SOIL GRID	1.50	2.00		
HC61I1AAA	61I	12/9/1999	SOIL GRID	0.00	0.50		
HC61I1BAA	61I	12/9/1999	SOIL GRID	1.50	2.00		
HC61J1AAA	61J	12/9/1999	SOIL GRID	0.00	0.50		
HC61J1BAA	61J	12/9/1999	SOIL GRID	1.50	2.00		
HC80A1AAA	80A	12/8/1999	SOIL GRID	0.00	0.25		
HC80A1BAA	80A	12/8/1999	SOIL GRID	0.25	0.50		
HC80A1CAA	80A	12/8/1999	SOIL GRID	0.50	1.00		
HC80B1AAA	80B	12/8/1999	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  
 SAMPLING PROGRESS  
 12/6-12/10

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD80A3CAA	80A	12/8/1999	SOIL GRID	0.50	1.00		
HD80A5AAA	80A	12/8/1999	SOIL GRID	0.00	0.25		
HD80A5BAA	80A	12/8/1999	SOIL GRID	0.25	0.50		
HD80A5CAA	80A	12/8/1999	SOIL GRID	0.50	1.00		
HD80A7AAA	80A	12/8/1999	SOIL GRID	0.00	0.25		
HD80A7BAA	80A	12/8/1999	SOIL GRID	0.25	0.50		
HD80A7CAA	80A	12/8/1999	SOIL GRID	0.50	1.00		
HD80B1AAA	80B	12/8/1999	SOIL GRID	0.00	0.25		
HD80B1BAA	80B	12/8/1999	SOIL GRID	0.25	0.50		
HD80B1CAA	80B	12/8/1999	SOIL GRID	0.50	1.00		
HD80B3AAA	80B	12/8/1999	SOIL GRID	0.00	0.25		
HD80B3BAA	80B	12/8/1999	SOIL GRID	0.25	0.50		
HD80B3CAA	80B	12/8/1999	SOIL GRID	0.50	1.00		
HD80B5AAA	80B	12/8/1999	SOIL GRID	0.00	0.25		
HD80B5AAD	80B	12/8/1999	SOIL GRID	0.00	0.25		
HD80B5BAA	80B	12/8/1999	SOIL GRID	0.25	0.50		
HD80B5CAA	80B	12/8/1999	SOIL GRID	0.50	1.00		
HD80B7AAA	80B	12/8/1999	SOIL GRID	0.00	0.25		
HD80B7AAD	80B	12/8/1999	SOIL GRID	0.00	0.25		
HD80B7BAA	80B	12/8/1999	SOIL GRID	0.25	0.50		
HD80B7CAA	80B	12/8/1999	SOIL GRID	0.50	1.00		

Profiling methods include: Volatiles and Explosives

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

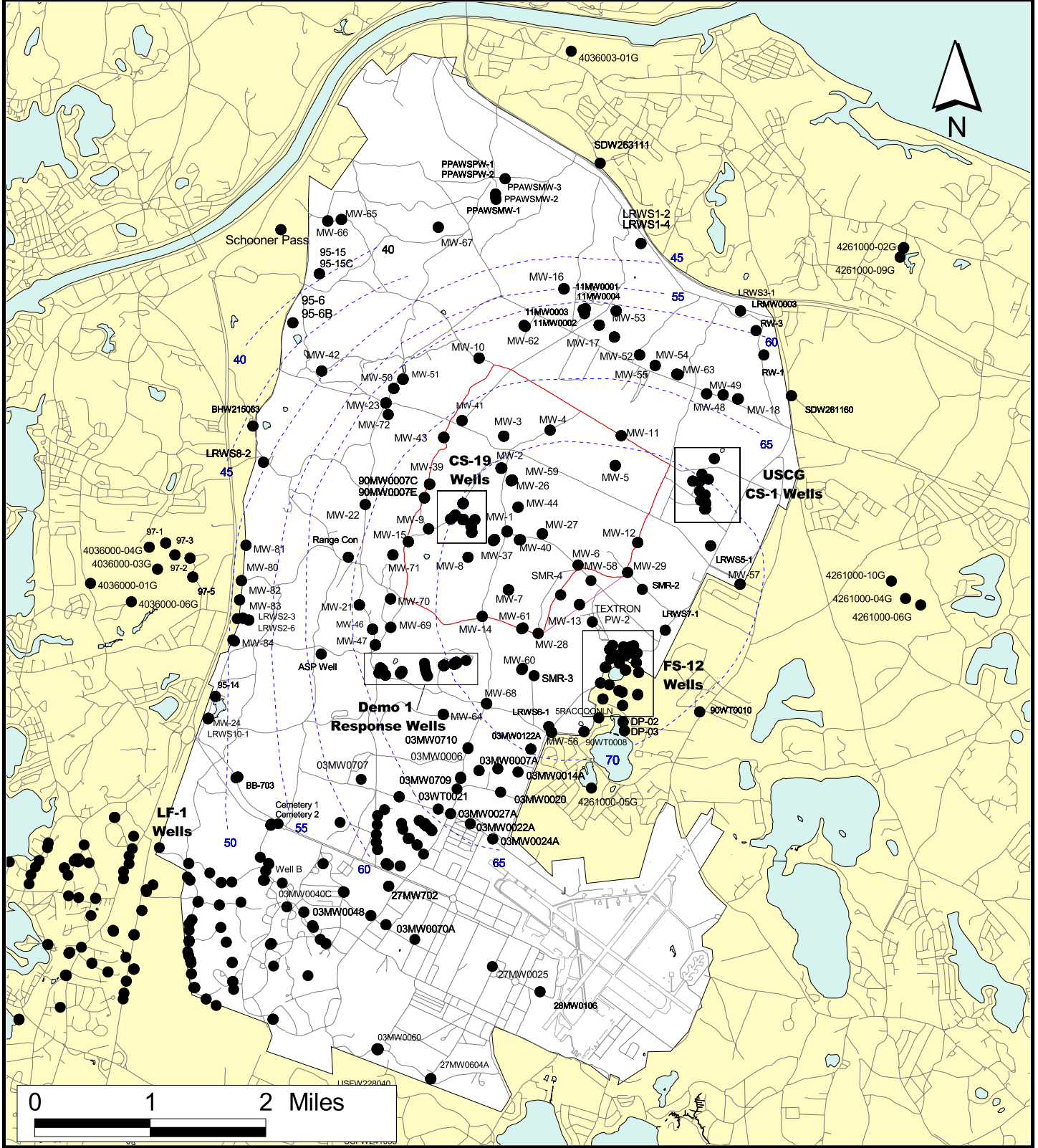
Other Sample Types methods are variable

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

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



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

