

**MONTHLY PROGRESS REPORT #18
FOR SEPTEMBER 1998**

**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 September 1 to September 30, 1998. Scheduled actions are for the six-week period ending November 14, 1998.

1. SUMMARY OF ACTIONS TAKEN

Reports and Workplans

The Workplan for Phase II Activities, a Far Field Well Installation Plan, and the Workplan and Schedule for Completion of Phase II (b) were completed and submitted to EPA and the Review Team. EPA issued a Notice of Noncompliance regarding the Workplan for Completion of Phase I Activities.

Validation

Ogden completed validation of data from SDGs 87, 90, and 92. No other data are pending validation at this time.

Meetings

A meeting of the Review Team was convened on September 17 to discuss comments on the Draft Completion of Work Report. The Guard and EPA met on September 29 to discuss the Workplan for Completion of Phase I Activities. The Guard and EPA met several times during the month to tour portions of MMR and observe the condition of and records associated with water supply wells on post.

2. SUMMARY OF DATA RECEIVED

The data validated during the month are presented in an attachment to this progress report. The attachment includes a list of qualifier codes to explain the validation results.

The validated results include samples from eleven groundwater monitoring wells analyzed for explosives. These include the shallow and deep well at MW-19, and the three nested wells at MW-31, MW-32, and MW-33. Samples were collected in July 1998 in accordance with the Immediate Response Plan for Demo Area 1. Detected compounds and concentration ranges are

summarized in Table 1. The highest RDX concentration (280 ug/l) was measured at MW-31, located approximately 750 feet downgradient from Demo Area 1. Concentrations of RDX at MW-31 and at Demo Area 1 (260 ug/l) were slightly higher than was measured at Demo Area 1 in March 1998 (190 ug/l). No explosives were detected at MW-32 or MW-33 located approximately 3500 feet downgradient from Demo Area 1. A groundwater investigation between MW-31 and MW-32/33 has been proposed in the Workplan for Completion of Phase I Activities. No explosives were measured in the deep well at Demo Area 1.

The validated soil results are for samples collected from several areas in June and July 1998 to complete sampling for volatile organic compounds (VOC) at the 18-24 inch depth interval, and for a single composite sample collected from below the open side of the steel-sided pit and analyzed for explosives and metals. The VOC samples had not been collected earlier due to misinterpretation of workplan requirements. The samples were from grids where there was no indication of VOC at 18-24 inches based on earlier flame ionization detector readings. Sample results are summarized in Table 2. No VOCs were detected in these samples. The sample from beneath the steel-sided pit was collected to evaluate the potential for migration of RDX, HMX, and 2,4-DNT that had been detected in soil mixed with debris in the pit. 2,4-DNT (550 ug/kg) was the only explosive detected in the recent sample. Twenty-three inorganic compounds were detected, and 10 of these exceeded proposed background concentrations.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (August 28 to September 3)	September 4, 1998
Monthly Progress Report #17 (August 1998)	September 10, 1998
Workplan for Phase II(a) Activities	September 11, 1998
Weekly Progress Update (September 4 to September 10)	September 14, 1998
Far Field Well Installation Plan	September 16, 1998
Weekly Progress Update (September 11 to September 17)	September 21, 1998
Weekly Progress Update (September 18 to September 24)	September 28, 1998
Workplan and Schedule for Completion of Phase II (b)	September 30, 1998

4. SCHEDULED ACTIONS

Actions for the next six weeks will include responding to comments on the Draft Completion of Work Report, and mobilization to initiate activities described in the recent workplan submittals. Figure 1 provides a Gantt chart based on the Final Action Plan, updated to reflect progress and proposed work. A meeting of the Impact Area Groundwater Study Review Team has been scheduled for October 29, 1998.