

**WEEKLY PROGRESS UPDATE
FOR NOVEMBER 7- NOVEMBER 13, 1997**

**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 November 7 to November 13, 1997.

1. SUMMARY OF ACTIONS TAKEN

UXO Surveys

No UXO surveys were performed this week.

Drilling

Ogden, D.L. Maher (the drilling contractor), and Valeri Construction (Maher's road building subcontractor) continued work on the site. TRC (EPA's oversight contractor) and the U.S. Geological Survey were present on site to observe drilling and groundwater sampling activities. As of November 13 the Barber rig was at a depth of 170 feet drilling the two intermediate wells at MW-7, and the Sonic rig was at a depth of 305 feet on MW-5.

Sampling

Sampling during the week focussed on groundwater profiling for MW-5; soil sampling at 18-24 inches at Areas 2, 3, and 14; and groundwater sampling at MW-12S, MW-17S, MW-17D, MW-20S, MW-23M1, MW-23M2, MW-23M3, MW-24S, and LRWS-1-2.

Water Level Measurements

Water level recording devices that were installed in LRWS-2, CS-19 (MW-7E), and CS-10 (AEHA- 11) continue to record water levels.

Plans and Reports

NGB is finalizing Field Sampling Plans based on EPA Comments. Change pages for the Final Groundwater FSP were submitted to EPA. Resolution of comments letters are being prepared for the Final Background FSP, the Draft Gun/Mortar Position FSP, and the Draft Demo Area FSP. An addendum to the Draft Area 5 FSP is being prepared. NGB awaits EPA comments on the Draft Storm water FSP and the Draft Ponds/Swamps FSP.

2. SUMMARY OF DATA RECEIVED

Preliminary non-validated data that were received during the week for samples that had detections are summarized in Table 1. These data include QA/QC samples, as indicated in the table notes.

Explosive Compounds

Explosives data that were received during the week for five groundwater samples are not included in Table 1, as there were no detections in these samples by EPA Method 8330. These include single samples from MW-8S, MW-23S, and MW-23D; and duplicate samples from MW-9S.

Table 1 indicates the soil samples that had CRREL screening detections of RDX/HMX or TNT/DNT: these included 0-6 inch surface soil samples from Areas 3, 4, 6, 7, 8, 11, 13, and 15, and from Mortar Positions 5, 6, 8, and the Observation Position. Samples with detections are now undergoing analysis by Method 8330.

Inorganic Compounds

Table 1 indicates the soil and groundwater samples that had inorganic compounds detected. The groundwater samples had no exceedances of drinking water criteria (MCLs) or health advisories for ammonia (30 mg/l) or nitrate/nitrite nitrogen (1 mg/l); criteria are not available for the other compounds detected in groundwater.

Other Analytes

No other analytes were reported in the data received this week for samples having detections.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (October 31 - November 6)	November 7, 1997
Monthly Progress Report (October 1 - October 31)	November 10, 1997
Change Pages for the Final Groundwater FSP	November 13, 1997

4. SCHEDULED ACTIONS

During the next week, the Barber drill rig is expected to complete the intermediate wells at MW-7, install a second intermediate well at MW-1, and complete the intermediate wells at MW-2. The Sonic rig is expected to finish the well installation at MW-5 and install the intermediate wells at MW-18. Groundwater sampling will continue at monitoring wells located at 97-1, 97-2, 97-3, 97-5, LRWS 2-3, LRWS 4-1, LRWS 5-1, LRWS 6-1 and LRWS 10-2.

**Table 1. Preliminary Analytical Results (not validated) for Detections Only,
Week Ending November 13**

Sample ID	Sample Date	Analyte	Method
B			
B04AFA	10/21/97	Nitroaromatic Screen	CRREL RDXHMX
B04AAA	10/21/97	Nitroaromatic Screen	CRREL RDXHMX
B04ABA	10/21/97	Nitroaromatic Screen	CRREL RDXHMX
B07AAA	10/22/97	Nitroaromatic Screen	CRREL TNTDNT
B07BAA	10/22/97	Nitroaromatic Screen	CRREL TNTDNT
B07DAA	10/22/97	Nitroaromatic Screen	CRREL TNTDNT
B07EAA	10/22/97	Nitroaromatic Screen	CRREL TNTDNT
B07EAD	10/22/97	Nitroaromatic Screen	CRREL TNTDNT
B08AAA	10/23/97	Nitroaromatic Screen	CRREL TNTDNT
B08BAA	10/23/97	Nitroaromatic Screen	CRREL TNTDNT
B08CAA	10/23/97	Nitroaromatic Screen	CRREL TNTDNT
B08EAA	10/23/97	Nitroaromatic Screen	CRREL TNTDNT
B08EAD	10/23/97	Nitroaromatic Screen	CRREL TNTDNT
B06AAA	10/24/97	Nitroaromatic Screen	CRREL RDXHMX
B06AAA	10/24/97	Nitroaromatic Screen	CRREL TNTDNT
B06BAA	10/24/97	Nitroaromatic Screen	CRREL TNTDNT
B06CAA	10/24/97	Nitroaromatic Screen	CRREL RDXHMX
B06CAA	10/24/97	Nitroaromatic Screen	CRREL TNTDNT
B06DAA	10/24/97	Nitroaromatic Screen	CRREL RDXHMX
B06DAA	10/24/97	Nitroaromatic Screen	CRREL TNTDNT
B06EAA	10/24/97	Nitroaromatic Screen	CRREL TNTDNT
B06EAD	10/24/97	Nitroaromatic Screen	CRREL TNTDNT
B11AAA	10/27/97	Nitroaromatic Screen	CRREL TNTDNT
B11BAA	10/27/97	Nitroaromatic Screen	CRREL RDXHMX
B11BAA	10/27/97	Nitroaromatic Screen	CRREL TNTDNT
B11CAA	10/27/97	Nitroaromatic Screen	CRREL TNTDNT
B11EAD	10/27/97	Nitroaromatic Screen	CRREL TNTDNT
B15BAD	10/27/97	Nitroaromatic Screen	CRREL RDXHMX
B15BAA	10/27/97	Nitroaromatic Screen	CRREL RDXHMX
B15AAA	10/27/97	Nitroaromatic Screen	CRREL RDXHMX
B13BAA	10/28/97	Nitroaromatic Screen	CRREL RDXHMX
B03IAA	10/28/97	Nitroaromatic Screen	CRREL TNTDNT
B03HAA	10/28/97	Nitroaromatic Screen	CRREL TNTDNT
B03OAD	10/28/97	Nitroaromatic Screen	CRREL TNTDNT
B13EAA	10/29/97	Nitroaromatic Screen	CRREL TNTDNT
B13EAD	10/29/97	Nitroaromatic Screen	CRREL TNTDNT
BOPAAA	10/29/97	Nitroaromatic Screen	CRREL TNTDNT

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Sample ID	Sample Date	Analyte	Method
BOPBAA	10/29/97	Nitroaromatic Screen	CRRELTNTDNT
BOPCAA	10/29/97	Nitroaromatic Screen	CRRELTNTDNT
BOPDAA	10/29/97	Nitroaromatic Screen	CRRELRDXHMX
BOPDAA	10/29/97	Nitroaromatic Screen	CRRELTNTDNT
BM5BAA	10/30/97	Nitroaromatic Screen	CRRELTNTDNT
BM5CAA	10/30/97	Nitroaromatic Screen	CRRELTNTDNT
BM5DAA	10/30/97	Nitroaromatic Screen	CRRELTNTDNT
BM6BAA	10/30/97	Nitroaromatic Screen	CRRELTNTDNT
BM5EAA	10/30/97	Nitroaromatic Screen	CRRELTNTDNT
BM6AAA	10/30/97	Nitroaromatic Screen	CRRELTNTDNT
BM8AAA	10/31/97	Nitroaromatic Screen	CRRELTNTDNT
BM8BAA	10/31/97	Nitroaromatic Screen	CRRELRDXHMX
BM8BAA	10/31/97	Nitroaromatic Screen	CRRELTNTDNT
BM8CAA	10/31/97	Nitroaromatic Screen	CRRELTNTDNT
BM8CAD	10/31/97	Nitroaromatic Screen	CRRELTNTDNT
BM6CAA	10/31/97	Nitroaromatic Screen	CRRELRDXHMX
BM6CAA	10/31/97	Nitroaromatic Screen	CRRELTNTDNT
BM6CAD	10/31/97	Nitroaromatic Screen	CRRELRDXHMX
BM6CAD	10/31/97	Nitroaromatic Screen	CRRELTNTDNT
S			
S02DMA	10/9/97	Nitrate/Nitrite Nitrogen	353.2
S02DLA	10/9/97	Nitrate/Nitrite Nitrogen	353.2
S02DLA	10/9/97	Ammonia-Nitrogen	350.2 DIS
S02DOA	10/16/97	Nitrate/Nitrite Nitrogen	353.2
S02DNA	10/16/97	Nitrate/Nitrite Nitrogen	353.2
S30DCA	10/27/97	Nitroaromatic Screen	CRRELRDXHMX
S05DDA	10/30/97	Nitroaromatic Screen	CRRELRDXHMX
W			
W15DAF	10/9/97	Hydroxide Alkalinity	310.1 1
W15DAF	10/9/97	Nitrate/Nitrite Nitrogen	353.2
W15DAF	10/9/97	Ammonia-Nitrogen	350.2 DIS
W15DAF	10/9/97	Chloride	300.0 1
W18SSE	10/9/97	Hydroxide Alkalinity	310.1 1
W18SSE	10/9/97	Ammonia-Nitrogen	350.2 DIS
W18SSE	10/9/97	Chloride	300.0 1
W18SSE	10/9/97	Organic Carbon, Total	415.1
W18SSE	10/9/97	Total Hardness as CaCO3	130.2
W18SLE	10/9/97	Total Hardness as CaCO3	130.2

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Sample ID	Sample Date	Analyte	Method
W18SSA	10/10/97	Nitrate/Nitrite Nitrogen	353.2
W18SSA	10/10/97	Organic Carbon, Total	415.1
W18SSA	10/10/97	Sulfate	300.0 3
W18SSA	10/10/97	Chloride	300.0 1
W21DDE***	10/14/97	Hydroxide Alkalinity	310.1 1
W21DDE***	10/14/97	Chloride	300.0 1
W21DDE***	10/14/97	Organic Carbon, Total	415.1
W21DDA	10/14/97	Nitrate/Nitrite Nitrogen	353.2
W21DDA	10/14/97	Organic Carbon, Total	415.1
W21DDA	10/14/97	Sulfate	300.0 3
W21DDA	10/14/97	Chloride	300.0 1
W21DDAMS	10/14/97	Nitrate/Nitrite Nitrogen	353.2
W21DDAMS	10/14/97	Sulfate	300.0 3
W21DDAMS	10/14/97	Chloride	300.0 1
W21DDAMS	10/14/97	Organic Carbon, Total	415.1
W21DDAREP	10/14/97	Nitrate/Nitrite Nitrogen	353.2
W21DDAREP	10/14/97	Organic Carbon, Total	415.1
W21DDAREP	10/14/97	Sulfate	300.0 3
W21DDAREP	10/14/97	Chloride	300.0 1
WL82XE	10/15/97	Organic Carbon, Total	415.1
WL82XE	10/15/97	Sulfate	300.0 3
WL82XE	10/15/97	Chloride	300.0 1
WL82XA	10/15/97	Nitrate/Nitrite Nitrogen	353.2
WL82XA	10/15/97	Chloride	300.0 1
W25SSA	10/16/97	Sulfate	300.0 3
W25SSA	10/16/97	Chloride	300.0 1
W9506E	10/16/97	Ammonia-Nitrogen	350.2 DIS
W9506E	10/16/97	Chloride	300.0 1
W9506E	10/16/97	Organic Carbon, Total	415.1
W9506A	10/17/97	Nitrate/Nitrite Nitrogen	353.2
W9506A	10/17/97	Sulfate	300.0 3
W9506A	10/17/97	Chloride	300.0 1
W9515E	10/17/97	Chloride	300.0 1
W9515E	10/17/97	Organic Carbon, Total	415.1
W9515A	10/17/97	Nitrate/Nitrite Nitrogen	353.2
W9515A	10/17/97	Organic Carbon, Total	415.1
W9515A	10/17/97	Sulfate	300.0 3
W9515A	10/17/97	Chloride	300.0 1

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Sample ID	Sample Date	Analyte	Method
WL26XA	10/20/97	Nitrate/Nitrite Nitrogen	353.2
WL26XA	10/20/97	Sulfate	300.0 3
WL26XA	10/20/97	Chloride	300.0 1
WL26XD	10/20/97	Nitrate/Nitrite Nitrogen	353.2
WL26XD	10/20/97	Sulfate	300.0 3
WL26XD	10/20/97	Chloride	300.0 1
WL26XE	10/20/97	Chloride	300.0 1
WL26XE	10/20/97	Organic Carbon, Total	415.1
WL31XAMS	10/21/97	Organic Carbon, Total	415.1
W18DDA	10/22/97	Carbonate Alkalinity	310.1 2
W18DDA	10/22/97	Hydroxide Alkalinity	310.1 1
W18DDA	10/22/97	Organic Carbon, Total	415.1
W18DDA	10/22/97	Bicarbonate Alkalinity	310.1 3
W18DDA	10/22/97	Total Alkalinity	310.1 4
W21SSE	10/23/97	Carbonate Alkalinity	310.1 2
W21SSE	10/23/97	Hydroxide Alkalinity	310.1 1
W21SSE	10/23/97	Organic Carbon, Total	415.1
W21SSE	10/23/97	Bicarbonate Alkalinity	310.1 3
W21SSE	10/23/97	Total Alkalinity	310.1 4
W3CNRA	10/23/97	Carbonate Alkalinity	310.1 2
W3CNRA	10/23/97	Hydroxide Alkalinity	310.1 1
W3CNRA	10/23/97	Bicarbonate Alkalinity	310.1 3
W3CNRA	10/23/97	Total Alkalinity	310.1 4
W21SSA	10/24/97	Carbonate Alkalinity	310.1 2
W21SSA	10/24/97	Hydroxide Alkalinity	310.1 1
W21SSA	10/24/97	Organic Carbon, Total	415.1
W21SSA	10/24/97	Bicarbonate Alkalinity	310.1 3
W21SSA	10/24/97	Total Alkalinity	310.1 4
W23SSE	10/27/97	Organic Carbon, Total	415.1

Notes: First Character of Sample ID denotes matrix and sample type:

B = Soil from Hand Auger

S = Soil from Boring

W = Groundwater from Monitoring well

Second through fourth characters of Sample ID denote sample location (Area and grid, or boring number, or well number)

Fifth character of Sample ID denotes sample interval for soil, or additional location information for groundwater.

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Week Ending November 13**

Sample ID	Sample Date	Analyte	Method
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Sixth character of Sample ID denotes sample type:

A = Field Sample

D = Duplicate

E = Equipment Blank

F = Field Blank

L = Filtered

T = Trip Blank

Seventh, eighth, and ninth characters, if present, indicate a laboratory QA/QC sample.