

**WEEKLY PROGRESS UPDATE
FOR JULY 28 – AUGUST 1, 2003**

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 and 1-2000-0014

**MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA**

The following summary of progress is for the period from July 28 through August 1, 2003.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of August 1 is summarized in Table 1.

| Table 1. Drilling progress as of August 1, 2003 | | | | |
|--|-------------------------------|-----------------------------|---------------------------------|--|
| Boring Number | Purpose of Boring/Well | Total Depth (ft bgs) | Saturated Depth (ft bwt) | Completed Well Screens (ft bgs) |
| MW-276c | Bourne Area (BP-3) redrill | 370 | 189 | 185-195; 234-244; 295-305 |
| MW-280 | Bourne Area (WS4P-3) | 345 | 183 | |
| bgs = below ground surface bwt = below water table | | | | |

Commenced well installation of MW-276c (BP-3) and MW-280 (WS4-P3).

Samples collected during the reporting period are summarized in Table 2. Groundwater samples were collected from Bourne water supply and monitoring wells, new wells, and as part of the April round of the Draft 2003 Long-Term Groundwater Monitoring Plan. Samples were collected from the wax filler of selected ordnance.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turn around time, typically 1-5 days. Perchlorate and explosive analyses for monitoring wells, and perchlorate, explosive and volatile organic compound (VOC) analyses for groundwater profile samples, are conducted in this timeframe, as well as any analyses pursuant to a special request. 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 explosive 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 or perchlorate. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 3 includes the following detections:

Table 3 includes detections from the following areas:

Bourne Area

- Groundwater samples from 02-05M1 and M2 had detections of perchlorate. The results are similar to the previous sampling rounds.

DELIVERABLES SUBMITTED

Weekly Progress Update for July 21 – July 25, 2003

07/31/2003

3. SCHEDULED ACTIONS

Scheduled actions for the week of August 4 include complete well installation of MW-276c (BP-3) and MW-280 (WS4P-3) and commence drilling at CIAP-20 reinstallation and NWP-7. Groundwater sampling at Bourne water supply and monitoring wells and new wells will continue.

4. SUMMARY OF ACTIVITIES FOR DEMO AREA 1

The Groundwater Report Addendum for the Demo 1 Groundwater Operable Unit was submitted to EPA and DEP. Modeling activities in support of the Feasibility Study (FS) are currently underway. A Revised Groundwater RRA Plan is under review by EPA and DEP. Responses to EPA and DEP comments on the Draft Soil RRA Plan were distributed this week. The geophysical anomaly excavation and removal continues.

**TABLE 2
SAMPLING PROGRESS
07/27/2003 - 08/02/2003**

| SAMPLE_ID | GIS_LOCID | LOGDATE | SAMP_TYPE | SBD | SED | BWTS | BWTE |
|------------------|------------------|----------------|------------------|------------|------------|-------------|-------------|
| TW1-88A-E | FIELDQC | 07/28/2003 | FIELDQC | 0 | 0 | | |
| W267M1T | FIELDQC | 07/31/2003 | FIELDQC | 0 | 0 | | |
| W45SST | FIELDQC | 07/28/2003 | FIELDQC | 0 | 0 | | |
| XXM975-E | FIELDQC | 07/29/2003 | FIELDQC | 0 | 0 | | |
| 4036000-01G-A | 4036000-01G | 07/28/2003 | GROUNDWATER | 38 | 69.8 | 6 | 12 |
| 4036000-03G-A | 4036000-03G | 07/28/2003 | GROUNDWATER | 50 | 60 | 6 | 12 |
| 4036000-04G-A | 4036000-04G | 07/28/2003 | GROUNDWATER | 54.6 | 64.6 | 6 | 12 |
| 4036000-06G-A | 4036000-06G | 07/28/2003 | GROUNDWATER | 108 | 128 | 6 | 12 |
| 90WT0019-A | 90WT0019 | 07/28/2003 | GROUNDWATER | 96 | 106 | 0 | 10 |
| TW00-1-A | 00-1 | 07/29/2003 | GROUNDWATER | 64 | 70 | 52.1 | 58.1 |
| TW00-2D-A | 00-2D | 07/29/2003 | GROUNDWATER | 71 | 77 | 43.95 | 49.95 |
| TW00-2S-A | 00-2S | 07/29/2003 | GROUNDWATER | 29 | 35 | 1.17 | 7.17 |
| TW01-1-A | 01-1 | 07/29/2003 | GROUNDWATER | 62 | 67 | 55.21 | 60.21 |
| TW1-88A-A | 1-88A | 07/28/2003 | GROUNDWATER | 102.9 | 102.9 | 67.4 | 67.4 |
| USCGANTST-A | USCGANTST | 07/29/2003 | GROUNDWATER | 0 | 0 | | |
| W15M1A | MW-15 | 08/01/2003 | GROUNDWATER | 163 | 173 | 55 | 65 |
| W15M2A | MW-15 | 08/01/2003 | GROUNDWATER | 144 | 154 | 36 | 46 |
| W15SSA | MW-15 | 07/31/2003 | GROUNDWATER | 105 | 115 | 0 | 10 |
| W255M1A | MW-255 | 07/31/2003 | GROUNDWATER | 206 | 216 | 96.3 | 106.3 |
| W255M2A | MW-255 | 07/31/2003 | GROUNDWATER | 170 | 180 | 60.43 | 70.43 |
| W255M3A | MW-255 | 07/31/2003 | GROUNDWATER | 136 | 146 | 26.1 | 36.1 |
| W255M3D | MW-255 | 07/31/2003 | GROUNDWATER | 136 | 146 | 26.1 | 36.1 |
| W267M1A | MW-267 | 07/30/2003 | GROUNDWATER | 248 | 258 | | |
| W268M1A | MW-268 | 07/31/2003 | GROUNDWATER | 97 | 107 | 48.12 | 58.12 |
| W279M1A | MW-279 | 07/30/2003 | GROUNDWATER | 96 | 106 | | |
| W279M2A | MW-279 | 07/30/2003 | GROUNDWATER | 83 | 88 | | |
| W279M2D | MW-279 | 07/30/2003 | GROUNDWATER | 83 | 88 | | |
| W279SSA | MW-279 | 07/30/2003 | GROUNDWATER | 66 | 76 | | |
| W45SSA | MW-45 | 07/28/2003 | GROUNDWATER | 89 | 99 | 0 | 10 |
| W81M2A | MW-81 | 07/31/2003 | GROUNDWATER | 83 | 93 | 55 | 65 |
| W82M2A | MW-82 | 07/28/2003 | GROUNDWATER | 78 | 88 | 50 | 60 |
| W82M3A | MW-82 | 07/28/2003 | GROUNDWATER | 54 | 64 | 26 | 36 |
| W82SSA | MW-82 | 07/28/2003 | GROUNDWATER | 25 | 35 | 0 | 10 |
| W86SSA | MW-86 | 08/01/2003 | GROUNDWATER | 143 | 153 | 1 | 11 |

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
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07/27/2003 - 08/02/2003**

| SAMPLE_ID | GIS_LOCID | LOGDATE | SAMP_TYPE | SBD | SED | BWTS | BWTE |
|------------------|------------------|----------------|------------------|------------|------------|-------------|-------------|
| XXM971-A | 97-1 | 07/29/2003 | GROUNDWATER | 83 | 93 | 62 | 72 |
| XXM972-A | 97-2 | 07/29/2003 | GROUNDWATER | 75 | 85 | 53 | 63 |
| XXM973-A | 97-3 | 07/29/2003 | GROUNDWATER | 75 | 85 | 36 | 46 |
| XXM975-A | 97-5 | 07/29/2003 | GROUNDWATER | 84 | 94 | 76 | 86 |
| FILLER 10-A | FILLER 10 | 07/31/2003 | OTHER | | | | |
| FILLER 11-A | FILLER 11 | 07/31/2003 | OTHER | | | | |
| FILLER 12-A | FILLER 12 | 07/31/2003 | OTHER | | | | |
| FILLER 13-A | FILLER 13 | 07/31/2003 | OTHER | | | | |
| FILLER 14-A | FILLER 14 | 07/31/2003 | OTHER | | | | |
| FILLER 15-A | FILLER 15 | 07/31/2003 | OTHER | | | | |
| FILLER 3-A | FILLER 3 | 07/31/2003 | OTHER | | | | |
| FILLER 4-A | FILLER 4 | 07/31/2003 | OTHER | | | | |
| FILLER 5-A | FILLER 5 | 07/31/2003 | OTHER | | | | |
| FILLER 6-A | FILLER 6 | 07/31/2003 | OTHER | | | | |
| FILLER 7-A | FILLER 7 | 07/31/2003 | OTHER | | | | |
| FILLER 8-A | FILLER 8 | 07/31/2003 | OTHER | | | | |
| FILLER 9-A | FILLER 9 | 07/31/2003 | OTHER | | | | |

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**TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 07/04/03 - 08/02/03**

| SAMPLE_ID | LOCID OR WELL | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | ANALYTE | PDA |
|------------------|----------------------|----------------|------------------|------------|------------|-------------|-------------|---------------|----------------|------------|
| W02-05M1A | 02-05 | 07/24/2003 | GROUNDWATER | 110 | 120 | 81.44 | 91.44 | E314.0 | PERCHLORATE | |
| W02-05M2A | 02-05 | 07/24/2003 | GROUNDWATER | 92 | 102 | 63.41 | 73.41 | E314.0 | PERCHLORATE | |

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

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BELOW GROUND SURFACE

SED = SAMPLE COLLECTION END DEPTH IN FEET BELOW GROUND SURFACE

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

* = Interference in sample

+ = PDAs are not good matches