WEEKLY PROGRESS UPDATE
FOR JULY 14 – JULY 18, 2003

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019, 1-2000-0014,
& BOURNE-BWSC 4-15031

MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from July 14 through July 18, 2003.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of July 18 is summarized in Table 1.

Table 1. Drilling progress as of July 18, 2003				
Boring Number	**Purpose of Boring/Well**	**Total Depth (ft bgs)**	**Saturated Depth (ft bwt)**	**Completed Well Screens (ft bgs)**
MW-276b	Bourne Area (BP-3) redrill	260	79	
MW-280	Bourne Area (WS4P-3)	220	58	
bgs = below ground surface bwt = below water table				

Continued drilling of MW-276b (BP-3) and MW-280 (WS4-P3). Well development continued for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-276b and MW-280. Groundwater samples were collected from Bourne water supply and monitoring wells and recently installed wells. Water samples were collected from the GAC treatment system.

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 02-04M1, 02-07M3, 02-13M1, M3, and MW-80M1 and M2 had detections of perchlorate. The results are similar to the previous sampling rounds.

Northwest Corner

- Groundwater samples from RSNW03 and RSNW06 had detections of perchlorate. The results were similar to the previous sampling rounds.

- Groundwater samples from MW-277M1 and duplicate had detections of perchlorate. This is the first sampling event for this well and the results were consistent with the profile results.

DELIVERABLES SUBMITTED

 Weekly Progress Update for July 7 – July 11, 2003   07/17/2003

3. SCHEDULED ACTIONS

Scheduled actions for the week of July 21 include complete drilling of MW-276b (BP-3) and MW-280 (WS4P-3). Groundwater sampling at Bourne water supply and monitoring wells and recently installed wells will continue.

4. SUMMARY OF ACTIVITIES FOR DEMO AREA 1

Pumping and treating groundwater near the toe of the Demo Area 1 plume and at Frank Perkins Road has been selected as an Interim Action to address the Demo Area 1 Groundwater Operable Unit. A Revised RRA Plan is under review by EPA and DEP. Responses to EPA and MADEP comments on the Draft Soil RRA Plan are being developed. The geophysical anomaly excavation and removal continues.

TABLE 2
SAMPLING PROGRESS
07/13/2003 - 07/19/2003

OGDEN_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
G276DCE	FIELDQC	07/15/2003	FIELDQC	0	0		
G276DCT	FIELDQC	07/15/2003	FIELDQC	0	0		
G276DFT	FIELDQC	07/18/2003	FIELDQC	0	0		
G280DAT	FIELDQC	07/16/2003	FIELDQC	0	0		
G280DCE	FIELDQC	07/17/2003	FIELDQC	0	0		
G280DCT	FIELDQC	07/17/2003	FIELDQC	0	0		
RIG5TOOL-E	FIELDQC	07/14/2003	FIELDQC	0	0		
RIG5TOOL-T	FIELDQC	07/14/2003	FIELDQC	0	0		
TW1-88B-E	FIELDQC	07/16/2003	FIELDQC	0	0		
4036000-01G-A	4036000-01G	07/14/2003	GROUNDWATER	38	69.8	6	12
4036000-03G-A	4036000-03G	07/14/2003	GROUNDWATER	50	60	6	12
4036000-04G-A	4036000-04G	07/14/2003	GROUNDWATER	54.6	64.6	6	12
4036000-06G-A	4036000-06G	07/14/2003	GROUNDWATER	108	128	6	12
TW1-88B-A	1-88B	07/16/2003	GROUNDWATER	105.5	105.5	69.6	69.6
TW1-88B-D	1-88B	07/16/2003	GROUNDWATER	105.5	105.5	69.6	69.6
W02-02M1A	02-02	07/15/2003	GROUNDWATER	114.5	124.5	63.5	73.5
W02-02M2A	02-02	07/15/2003	GROUNDWATER	94.5	104.5	42.65	52.65
W02-02SSA	02-02	07/15/2003	GROUNDWATER	49.5	59.5	0	10
W02-09M1A	02-09	07/16/2003	GROUNDWATER	74	84	65.26	75.26
W02-09M2A	02-09	07/16/2003	GROUNDWATER	59	69	50.3	60.3
W02-09SSA	02-09	07/16/2003	GROUNDWATER	7	17	0	10
W02-12M1A	02-12	07/16/2003	GROUNDWATER	109	119	58.35	68.35
W02-12M2A	02-12	07/16/2003	GROUNDWATER	94	104	43.21	53.21
W02-12M3A	02-12	07/16/2003	GROUNDWATER	79	89	28.22	38.22
W02-13M1A	02-13	07/14/2003	GROUNDWATER	98	108	58.33	68.33
W02-13M2A	02-13	07/14/2003	GROUNDWATER	83	93	44.2	54.2
W02-13M3A	02-13	07/14/2003	GROUNDWATER	68	78	28.3	38.3
W02DDA	MW-02	07/18/2003	GROUNDWATER	355	360	218	223
W02M2A	MW-02	07/18/2003	GROUNDWATER	170	175	33	38
W278M1A	MW-278	07/15/2003	GROUNDWATER	113	123	25.76	35.76
W278M2A	MW-278	07/16/2003	GROUNDWATER	97	102	9.79	14.79
W278M2D	MW-278	07/16/2003	GROUNDWATER	97	102	9.79	14.79
W278SSA	MW-278	07/18/2003	GROUNDWATER	80	90	0	10
DW071703-NV	GAC WATER	07/17/2003	IDW	0	0		

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
07/13/2003 - 07/19/2003

OGDEN_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
G276DCA	MW-276	07/15/2003	PROFILE	210	210	29	29
G276DEA	MW-276	07/15/2003	PROFILE	230	230	49	49
G276DFA	MW-276	07/17/2003	PROFILE	240	240	59	59
G276DFD	MW-276	07/17/2003	PROFILE	240	240	59	59
G276DGA	MW-276	07/17/2003	PROFILE	250	250	69	69
G280DAA	MW-280	07/15/2003	PROFILE	170	170	8	8
G280DBA	MW-280	07/15/2003	PROFILE	180	180	18	18
G280DCA	MW-280	07/17/2003	PROFILE	190	190	28	28
G280DDA	MW-280	07/17/2003	PROFILE	200	200	38	38

Profiling methods include: Volatiles and Explosives
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Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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BWTS = Depth below water table, start depth, measured in feet
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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 06/20/03 - 07/19/03

OGDEN_ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
RSNW03-A	RSNW03	07/10/2003	GROUNDWATER	0	0			E314.0	PERCHLORATE	
RSNW06-A	RSNW06	07/10/2003	GROUNDWATER	0	0			E314.0	PERCHLORATE	
W02-04M1A	02-04	07/09/2003	GROUNDWATER	123	133	73.97	83.97	E314.0	PERCHLORATE	
W02-07M3A	02-07	07/08/2003	GROUNDWATER	47	57	13	23	E314.0	PERCHLORATE	
W02-13M1A	02-13	07/08/2003	GROUNDWATER	98	108	58.33	68.33	E314.0	PERCHLORATE	
W02-13M1A	02-13	07/14/2003	GROUNDWATER	98	108	58.33	68.33	E314.0	PERCHLORATE	
W02-13M3A	02-13	07/08/2003	GROUNDWATER	68	78	28.3	38.3	E314.0	PERCHLORATE	
W277M1A	MW-277	07/09/2003	GROUNDWATER	130	140	26.3	36.3	E314.0	PERCHLORATE	
W277M1D	MW-277	07/09/2003	GROUNDWATER	130	140	26.3	36.3	E314.0	PERCHLORATE	
W80M1A	MW-80	07/09/2003	GROUNDWATER	130	140	86	96	E314.0	PERCHLORATE	
W80M2A	MW-80	07/08/2003	GROUNDWATER	100	110	56	66	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