

**WEEKLY PROGRESS UPDATE  
FOR OCTOBER 6 – OCTOBER 10, 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 October 6 through October 10, 2003.

**1. SUMMARY OF ACTIONS TAKEN**

Drilling progress as of October 6 is summarized in Table 1.

<b>Table 1. Drilling progress as of October 6, 2003</b>				
<b>Boring Number</b>	<b>Purpose of Boring/Well</b>	<b>Total Depth (ft bgs)</b>	<b>Saturated Depth (ft bwt)</b>	<b>Completed Well Screens (ft bgs)</b>
EW-275	Demo Area 1 (EW-D1-2)	222	182	
MW-287	Northwest Corner (NWP-6)	250	115	
MW-288	L Range (LP-7)	290	202	
MW-291	L Range (LP-11)	150	56	
bgs = below ground surface bwt = below water table				

Completed drilling of EW-275 (EW-D1-2) and MW-288 (LP-7), continued drilling of MW-287 (NWP-6), and commenced drilling of MW-291 (LP-11). Well development continued for recently installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-287, MW-288, and MW-291. Groundwater samples were collected from Bourne water supply and monitoring wells, recently installed wells, and as part of the August round of the Draft 2003 Long-Term Groundwater Monitoring Plan. Soil samples were collected from BIP craters and from grids near the J-3 Range Hillside/Barrage Rocket Sites. Investigation-derived waste (IDW) samples were collected from the Granular Activated Carbon (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 97-2E had detections of perchlorate. This is the first detection of perchlorate in this well.
- Groundwater samples from 97-5, MW-226M2 and MW-233M3 had detections of perchlorate. The results were similar to previous sampling rounds.

#### Demo Area 1

- Groundwater samples from MW-19S; MW-31M, S and duplicate; MW-73S; MW-76M1 and S; and MW-77M1 and M2 had detections of perchlorate. The results were similar to the previous sampling rounds.

#### Northwest Corner

- Groundwater samples from MW-270M1 and duplicate, and D and duplicate had detections of perchlorate. The results were similar to the previous sampling round.
- Groundwater samples from MW-270S had a detection of RDX and perchlorate. The detection of perchlorate was similar to the results from the previous sampling round. The detection of RDX was confirmed by PDA spectra. This is the first detection of RDX in this well. RDX was not detected in the profile samples collected from the same interval.

#### Southeast Ranges

- Profile results from MW-288 (LP-7) had detections of perchlorate and explosives. Of the explosive compounds, only RDX was confirmed by PDA spectra in four intervals between 92 and 122 feet below the water table. Perchlorate was detected in four intervals between 92 and 122 feet below the water table. A well screen was set at the depth (102 to 112 ft bwt) corresponding to the midpoint of the perchlorate and RDX detections.

### **DELIVERABLES SUBMITTED**

Monthly Progress Report for September 2003	10/09/2003
Draft Central Impact Area Rapid Response Action Work Plan	10/10/2003
Weekly Progress Update for September 29 – October 3, 2003	10/10/2003

### **3. SCHEDULED ACTIONS**

Scheduled actions for the week of October 13 include complete drilling at MW-287 (NWP-6), complete well installation at MW-288 (LP-7), continue drilling at MW-291 (LP-11), and commence drilling at CBP-7. Groundwater sampling at Bourne water supply and monitoring wells, recently installed wells, and as part of the August round of the Draft 2003 Long-Term Groundwater Monitoring Plan will continue. Soil samples will be collected from BIP craters. Geophysical anomaly excavation and removal in the Demo Area 1 will also continue.

### **4. SUMMARY OF ACTIVITIES FOR DEMO AREA 1**

Drilling of the Pew Road extraction well (EW-275) was completed on 10/06/2003. EPA comments on the Draft Groundwater Report Addendum for the Demo Area 1 Groundwater Operable Unit (OU) were received on 10/09/2003. DEP comments are expected shortly. Modeling activities in support of the Feasibility Study (FS) are currently underway. Responses to agency comments on the Groundwater RRA Plan are being prepared.

Geophysical anomaly excavation and removal within the Demo Area 1 depression continues. Responses to EPA comments on the Soil Treatment Plan and Treatability Study are being prepared. DEP comments are expected shortly.

**TABLE 2  
SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
HDA02240302SS1	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDA02240302SS2	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDA02240302SS3	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDA02240302SS4	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDA02240302SS5	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDA02240302SS6	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDA02240302SS7	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDA02240302SS8	USA022403-02	10/10/2003	CRATER GRID	0	0.25		
HDTT07080201SS1	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080201SS2	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080201SS3	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080201SS4	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080201SS5	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080201SS6	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080201SS7	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080201SS8	TT07080201	10/08/2003	CRATER GRID	0	0.25		
HDTT07080203SS1	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080203SS2	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080203SS3	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080203SS4	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080203SS5	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080203SS6	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080203SS7	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080203SS8	TT07080203	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS1	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS2	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS2	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS3	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS4	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS5	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS6	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS7	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080205SS8	TT07080205	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS1	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS2	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS3	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS4	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS5	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS6	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS7	TT07080207	10/09/2003	CRATER GRID	0	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

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SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
HDTT07080207SS7	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080207SS8	TT07080207	10/09/2003	CRATER GRID	0	0.25		
HDTT07080210SS1	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07080210SS2	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07080210SS3	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07080210SS4	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07080210SS5	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07080210SS6	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07080210SS7	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07080210SS8	TT070802-10	10/06/2003	CRATER GRID	0	0.25		
HDTT07290201SS1	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS2	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS3	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS4	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS5	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS6	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS6	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS7	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290201SS8	TT072902-01	10/09/2003	CRATER GRID	0	0.25		
HDTT07290202SS1	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290202SS2	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290202SS3	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290202SS4	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290202SS5	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290202SS6	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290202SS7	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290202SS8	TT07290202	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS1	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS2	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS3	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS4	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS5	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS6	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS7	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290203SS8	TT072902-03	10/07/2003	CRATER GRID	0	0.25		
HDTT07290208SS1	TT072902-08	10/07/2003	CRATER GRID	0	0.25		
HDTT07290208SS2	TT072902-08	10/07/2003	CRATER GRID	0	0.25		
HDTT07290208SS3	TT072902-08	10/07/2003	CRATER GRID	0	0.25		
HDTT07290208SS4	TT072902-08	10/07/2003	CRATER GRID	0	0.25		
HDTT07290208SS5	TT072902-08	10/07/2003	CRATER GRID	0	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**  
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**TABLE 2  
SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
HDTT07290208SS6	TT072902-08	10/07/2003	CRATER GRID	0	0.25		
HDTT07290208SS7	TT072902-08	10/07/2003	CRATER GRID	0	0.25		
HDTT07290208SS8	TT072902-08	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS1	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS2	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS2	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS3	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS4	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS5	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS6	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS7	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT07290210SS8	TT072902-10	10/07/2003	CRATER GRID	0	0.25		
HDTT08150203SS1	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150203SS2	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150203SS3	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150203SS4	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150203SS5	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150203SS6	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150203SS7	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150203SS8	TT081502-03	10/09/2003	CRATER GRID	0	0.25		
HDTT08150204SS1	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08150204SS2	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08150204SS3	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08150204SS4	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08150204SS5	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08150204SS6	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08150204SS7	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08150204SS8	TT08150204	10/08/2003	CRATER GRID	0	0.25		
HDTT08270201SS1	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS2	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS3	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS4	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS4	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS5	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS6	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS7	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT08270201SS8	TT082702-01	10/10/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	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  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201ASS	TT10020201	10/08/2003	CRATER GRID	0	0.25		
HDTT10020201SS1	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT10020201SS2	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT10020201SS3	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT10020201SS4	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT10020201SS5	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT10020201SS6	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT10020201SS7	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT10020201SS8	TT10020201	10/07/2003	CRATER GRID	0	0.25		
HDTT1206101SS1	TT1206101	10/08/2003	CRATER GRID	0	0.25		
HDTT1206101SS2	TT1206101	10/08/2003	CRATER GRID	0	0.25		
HDTT1206101SS3	TT1206101	10/08/2003	CRATER GRID	0	0.25		
HDTT1206101SS4	TT1206101	10/08/2003	CRATER GRID	0	0.25		
HDTT1206101SS5	TT1206101	10/08/2003	CRATER GRID	0	0.25		
HDTT1206101SS6	TT1206101	10/08/2003	CRATER GRID	0	0.25		
HDTT1206101SS7	TT1206101	10/08/2003	CRATER GRID	0	0.25		
HDTT1206101SS8	TT1206101	10/08/2003	CRATER GRID	0	0.25		
4036000-01G-A	4036000-01G	10/07/2003	GROUNDWATER	38	69.8	6	12
4036000-03G-A	4036000-03G	10/06/2003	GROUNDWATER	50	60	6	12
4036000-04G-A	4036000-04G	10/06/2003	GROUNDWATER	54.6	64.6	6	12
4036000-06G-A	4036000-06G	10/06/2003	GROUNDWATER	108	128	6	12
58MW0002-A	58MW0002	10/10/2003	GROUNDWATER	121.2	126.2	0	5
58MW0003-A	58MW0003	10/09/2003	GROUNDWATER	118.1	124	0	5
58MW0015B-A	58MW0015B	10/09/2003	GROUNDWATER	130.96	140.2	12.7	22.7
MW-292M1-	MW-292M1	10/09/2003	Groundwater	282.08	292.1	186.33	196.34
MW-292M1-	MW-292M1	10/09/2003	Groundwater	282.08	292.1	186.33	196.34
MW-292M2-	MW-292M2	10/09/2003	Groundwater	155.15	165.2	59.4	69.4
MW-292M2-	MW-292M2	10/09/2003	Groundwater	155.15	165.2	59.4	69.4
TW1-88B-A	1-88B	10/06/2003	GROUNDWATER	105.5	105.5	69.6	69.6
W02-07M1A	02-07	10/07/2003	GROUNDWATER	135	145	101.14	111.14
W02-07M2A	02-07	10/07/2003	GROUNDWATER	107	117	72.86	82.86
W02-07M3A	02-07	10/07/2003	GROUNDWATER	47	57	13	23
W02-12M1A	02-12	10/06/2003	GROUNDWATER	109	119	58.35	68.35
W02-12M2A	02-12	10/06/2003	GROUNDWATER	94	104	43.21	53.21
W02-12M3A	02-12	10/06/2003	GROUNDWATER	79	89	28.22	38.22

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  
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**TABLE 2  
SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W02-13M1A	02-13	10/06/2003	GROUNDWATER	98	108	58.33	68.33
W02-13M2A	02-13	10/06/2003	GROUNDWATER	83	93	44.2	54.2
W02-13M3A	02-13	10/06/2003	GROUNDWATER	68	78	28.3	38.3
W102M1A	MW-102	10/07/2003	GROUNDWATER	267	277	123	133
W102M2A	MW-102	10/07/2003	GROUNDWATER	237	247	93	103
W103M1A	MW-103	10/08/2003	GROUNDWATER	298	308	156	166
W103M2A	MW-103	10/08/2003	GROUNDWATER	282	292	140	150
W103M2D	MW-103	10/08/2003	GROUNDWATER	282	292	140	150
W105M1A	MW-105	10/08/2003	GROUNDWATER	205	215	78	88
W105M2A	MW-105	10/08/2003	GROUNDWATER	165	175	38	48
W106M1A	MW-106	10/08/2003	GROUNDWATER	170.5	180.5	38	48
W106M2A	MW-106	10/08/2003	GROUNDWATER	140.5	150.5	8	18
W110M1A	MW-110	10/09/2003	GROUNDWATER	315.5	325.5	142	152
W110M2A	MW-110	10/09/2003	GROUNDWATER	248.5	258.5	75	85
W110M2D	MW-110	10/09/2003	GROUNDWATER	248.5	258.5	75	85
W135M1A	MW-135	10/08/2003	GROUNDWATER	319	329	133	143
W135M2A	MW-135	10/08/2003	GROUNDWATER	280	290	94	104
W135M3A	MW-135	10/08/2003	GROUNDWATER	239	249	53	63
W139M1A	MW-139	10/10/2003	GROUNDWATER	194	204	110	120
W139M2A	MW-139	10/10/2003	GROUNDWATER	154	164	70	80
W139M3A	MW-139	10/10/2003	GROUNDWATER	119	129	35	45
W141M1A	MW-141	10/06/2003	GROUNDWATER	190	200	62	72
W141SSA	MW-141	10/06/2003	GROUNDWATER	128	138	0	10
W149M1A	MW-149	10/10/2003	GROUNDWATER	237.5	247.5	136	146
W149SSA	MW-149	10/10/2003	GROUNDWATER	105.5	115.5	4	14
W158M1A	MW-158	10/06/2003	GROUNDWATER	176.5	186.5	89	99
W158M2A	MW-158	10/06/2003	GROUNDWATER	124.5	134.5	37	47
W158SSA	MW-158	10/07/2003	GROUNDWATER	89	99	2	12
W16DDA	MW-16	10/06/2003	GROUNDWATER	355	360	223	228
W176M1A	MW-176	10/08/2003	GROUNDWATER	270	280	158.55	168.55
W176M2A	MW-176	10/08/2003	GROUNDWATER	229	239	117.6	127.6
W17DDA	MW-17	10/07/2003	GROUNDWATER	320	330	196	206
W17M1A	MW-17	10/08/2003	GROUNDWATER	220	230	96	106
W17M2A	MW-17	10/07/2003	GROUNDWATER	190	200	66	76
W17M3A	MW-17	10/08/2003	GROUNDWATER	160	170	36	46
W17SSA	MW-17	10/07/2003	GROUNDWATER	120	130	0	10
W18M1A	MW-18	10/09/2003	GROUNDWATER	171	176	128	133
W18M1D	MW-18	10/09/2003	GROUNDWATER	171	176	128	133
W18M2A	MW-18	10/09/2003	GROUNDWATER	107	112	64	69
W18SSA	MW-18	10/10/2003	GROUNDWATER	35	45	0	10

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**TABLE 2  
SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W200M1A	MW-200	10/08/2003	GROUNDWATER	294	304	89.8	99.8
W200M1D	MW-200	10/08/2003	GROUNDWATER	294	304	89.8	99.8
W201M3A	MW-201	10/08/2003	GROUNDWATER	266	276	66.5	76.5
W202M1A	MW-202	10/08/2003	GROUNDWATER	264	274	117.7	127.7
W219M1A	MW-219	10/07/2003	GROUNDWATER	357	367	178	188
W219M2A	MW-219	10/07/2003	GROUNDWATER	332	342	153.05	163.05
W219M2D	MW-219	10/07/2003	GROUNDWATER	332	342	153.05	163.05
W219M3A	MW-219	10/07/2003	GROUNDWATER	315	325	135.8	145.8
W219M4A	MW-219	10/07/2003	GROUNDWATER	225	235	45.7	55.7
W23M1A	MW-23	10/07/2003	GROUNDWATER	225	235	103	113
W40M1A	MW-40	10/08/2003	GROUNDWATER	132.5	142.5	13	23
W40SSA	MW-40	10/09/2003	GROUNDWATER	115.5	125.5	0	10
W41M1A	MW-41	10/09/2003	GROUNDWATER	235	245	108	118
W41M2A	MW-41	10/09/2003	GROUNDWATER	194	204	67	77
W42M1A	MW-42	10/09/2003	GROUNDWATER	205	215	137	147
W42M2A	MW-42	10/10/2003	GROUNDWATER	185.8	195.8	118	128
W42M3A	MW-42	10/10/2003	GROUNDWATER	165.8	175.8	98	108
W52M2A	MW-52	10/06/2003	GROUNDWATER	225	235	74	84
W52SSA	MW-52	10/06/2003	GROUNDWATER	150	160	0	10
W89M1A	MW-89	10/10/2003	GROUNDWATER	234	244	92	102
W89M2A	MW-89	10/10/2003	GROUNDWATER	214	224	72	82
W89M3A	MW-89	10/10/2003	GROUNDWATER	174	184	32	42
G287DBA	MW-287	10/06/2003	PROFILE	140	140	5.4	5.4
G287DBA	MW-287	10/07/2003	PROFILE	140	140	5.4	5.4
G287DCA	MW-287	10/07/2003	PROFILE	150	150	15.4	15.4
G287DDA	MW-287	10/07/2003	PROFILE	160	160	25.4	25.4
G287DEA	MW-287	10/08/2003	PROFILE	170	170	35.4	35.4
G287DFA	MW-287	10/08/2003	PROFILE	180	180	45.4	45.4
G287DGA	MW-287	10/09/2003	PROFILE	190	190	55.4	55.4
G287DHA	MW-287	10/09/2003	PROFILE	200	200	65.4	65.4
G287DHD	MW-287	10/09/2003	PROFILE	200	200	65.4	65.4
G287DIA	MW-287	10/09/2003	PROFILE	210	210	75.4	75.4
G287DJA	MW-287	10/09/2003	PROFILE	220	220	85.4	85.4
G287DKA	MW-287	10/10/2003	PROFILE	230	230	95.4	95.4
G287DLA	MW-287	10/10/2003	PROFILE	240	240	105.4	105.4
G287DMA	MW-287	10/10/2003	PROFILE	250	250	115.4	115.4
G287DMD	MW-287	10/10/2003	PROFILE	250	250	115.4	115.4
G288DPA	MW-288	10/06/2003	PROFILE	240	240	152	152
G288DRA	MW-288	10/07/2003	PROFILE	260	260	172	172
G288DTA	MW-288	10/07/2003	PROFILE	280	280	192	192

**Profiling methods include: Volatiles and Explosives**  
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**TABLE 2  
SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
G288DUA	MW-288	10/07/2003	PROFILE	290	290	192	192
MW-291-01	MW-291	10/09/2003	Profile	105	105	11	11
MW-291-01	MW-291	10/09/2003	Profile	105	105	11	11
MW-291-02	MW-291	10/09/2003	Profile	110	110	16	16
MW-291-02	MW-291	10/09/2003	Profile	110	110	16	16
MW-291-03	MW-291	10/09/2003	Profile	120	120	26	26
MW-291-03	MW-291	10/09/2003	Profile	120	120	26	26
MW-291-04	MW-291	10/10/2003	Profile	130	130	36	36
MW-291-04	MW-291	10/10/2003	Profile	130	130	36	36
MW-291-05	MW-291	10/10/2003	Profile	140	140	46	46
MW-291-05	MW-291	10/10/2003	Profile	140	140	46	46
MW-291-06	MW-291	10/10/2003	Profile	150	150	56	56
MW-291-06	MW-291	10/10/2003	Profile	150	150	56	56
T10-C10A	SS369-A	10/06/2003	Surface Soil Gr	0.5	1		
T10-C10A	SS369-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T10-C10A	SS369-A	10/06/2003	Surface Soil Gr	0	0.25		
T10-C10B	SS368-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T10-C10B	SS368-A	10/06/2003	Surface Soil Gr	0	0.25		
T10-C10B	SS368-A	10/06/2003	Surface Soil Gr	0.5	1		
T10-D10A	SS367-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T10-D10A	SS367-A	10/06/2003	Surface Soil Gr	0	0.25		
T10-D10A	SS367-A	10/06/2003	Surface Soil Gr	0.5	1		
T10-D10B	SS366-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T10-D10B	SS366-A	10/06/2003	Surface Soil Gr	0.5	1		
T10-D10B	SS366-A	10/06/2003	Surface Soil Gr	0	0.25		
T16-D16A	SS370-A	10/06/2003	Surface Soil Gr	0	0.25		
T16-D16A	SS370-A	10/06/2003	Surface Soil Gr	0.5	1		
T16-D16A	SS370-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T16-D16B	SS371-A	10/06/2003	Surface Soil Gr	0.5	1		
T16-D16B	SS371-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T16-D16B	SS371-A	10/06/2003	Surface Soil Gr	0	0.25		
T18-D18A	SS372-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T18-D18A	SS372-A	10/06/2003	Surface Soil Gr	0.5	1		
T18-D18A	SS372-A	10/06/2003	Surface Soil Gr	0	0.25		
T18-D18B	SS373-A	10/06/2003	Surface Soil Gr	0	0.25		
T18-D18B	SS373-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T18-D18B	SS373-A	10/06/2003	Surface Soil Gr	0.5	1		
T1-E1A	SS347-A	10/02/2003	Surface Soil Gr	0.5	1		
T1-E1A	SS347-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T1-E1A	SS347-A	10/02/2003	Surface Soil Gr	0	0.25		

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SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
T1-E1B	SS346-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T1-E1B	SS346-A	10/02/2003	Surface Soil Gr	0	0.25		
T1-E1B	SS346-A	10/02/2003	Surface Soil Gr	0.5	1		
T2-B2	SS348-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T2-B2	SS348-A	10/02/2003	Surface Soil Gr	0	0.25		
T2-B2	SS348-A	10/02/2003	Surface Soil Gr	0.5	1		
T2-C2	SS349-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T2-C2	SS349-A	10/02/2003	Surface Soil Gr	0.5	1		
T2-C2	SS349-A	10/02/2003	Surface Soil Gr	0	0.25		
T3-D3A	SS350-A	10/02/2003	Surface Soil Gr	0	0.25		
T3-D3A	SS350-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T3-D3A	SS350-A	10/02/2003	Surface Soil Gr	0.5	1		
T3-D3B	SS351-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T3-D3B	SS351-A	10/02/2003	Surface Soil Gr	0.5	1		
T3-D3B	SS351-A	10/02/2003	Surface Soil Gr	0	0.25		
T3-F3A	SS352-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T3-F3A	SS352-A	10/02/2003	Surface Soil Gr	0.5	1		
T3-F3A	SS352-A	10/02/2003	Surface Soil Gr	0	0.25		
T3-F3B	SS353-A	10/02/2003	Surface Soil Gr	0	0.25		
T3-F3B	SS353-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T3-F3B	SS353-A	10/02/2003	Surface Soil Gr	0.5	1		
T4-B4	SS357-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T4-B4	SS357-A	10/03/2003	Surface Soil Gr	0.5	1		
T4-B4	SS357-A	10/03/2003	Surface Soil Gr	0	0.25		
T4-C4	SS356-A	10/03/2003	Surface Soil Gr	0.5	1		
T4-C4	SS356-A	10/03/2003	Surface Soil Gr	0	0.25		
T4-C4	SS356-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T4-E4	SS355-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T4-E4	SS355-A	10/02/2003	Surface Soil Gr	0	0.25		
T4-E4	SS355-A	10/02/2003	Surface Soil Gr	0.5	1		
T4-F4	SS354-A	10/02/2003	Surface Soil Gr	0.25	0.5		
T4-F4	SS354-A	10/02/2003	Surface Soil Gr	0	0.25		
T4-F4	SS354-A	10/02/2003	Surface Soil Gr	0.5	1		
T6-D6A	SS358-A	10/03/2003	Surface Soil Gr	0.5	1		
T6-D6A	SS358-A	10/03/2003	Surface Soil Gr	0	0.25		
T6-D6A	SS358-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T6-D6B	SS359-A	10/03/2003	Surface Soil Gr	0	0.25		
T6-D6B	SS359-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T6-D6B	SS359-A	10/03/2003	Surface Soil Gr	0.5	1		
T7-D7	SS360-A	10/03/2003	Surface Soil Gr	0.25	0.5		

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SAMPLING PROGRESS  
10/05/2003 - 10/11/2003**

<b>SAMPLE_ID</b>	<b>GIS_LOCID</b>	<b>LOGDATE</b>	<b>SAMP_TYPE</b>	<b>SBD</b>	<b>SED</b>	<b>BWTS</b>	<b>BWTE</b>
T7-D7	SS360-A	10/03/2003	Surface Soil Gr	0	0.25		
T7-D7	SS360-A	10/03/2003	Surface Soil Gr	0.5	1		
T7-E7	SS361-A	10/03/2003	Surface Soil Gr	0.5	1		
T7-E7	SS361-A	10/03/2003	Surface Soil Gr	0	0.25		
T7-E7	SS361-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T9-C9	SS362-A	10/03/2003	Surface Soil Gr	0.5	1		
T9-C9	SS362-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T9-C9	SS362-A	10/03/2003	Surface Soil Gr	0	0.25		
T9-D9	SS363-A	10/03/2003	Surface Soil Gr	0	0.25		
T9-D9	SS363-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T9-D9	SS363-A	10/03/2003	Surface Soil Gr	0.5	1		
T9-F9A	SS364-A	10/03/2003	Surface Soil Gr	0.25	0.5		
T9-F9A	SS364-A	10/03/2003	Surface Soil Gr	0.5	1		
T9-F9A	SS364-A	10/03/2003	Surface Soil Gr	0	0.25		
T9-F9B	SS365-A	10/06/2003	Surface Soil Gr	0.25	0.5		
T9-F9B	SS365-A	10/06/2003	Surface Soil Gr	0	0.25		
T9-F9B	SS365-A	10/06/2003	Surface Soil Gr	0.5	1		

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**TABLE 3  
DETECTED COMPOUNDS-UNVALIDATED  
SAMPLES COLLECTED 09/12/03 - 10/11/03**

SAMPLE ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
97-2E-A	97-2E	10/01/2003	GROUNDWATER	94.5	94.5	49.8	49.8	E314.0	PERCHLORATE	
W19SSA	MW-19	09/27/2003	GROUNDWATER	38	48	0	10	E314.0	PERCHLORATE	
W226M2A	MW-226	09/29/2003	GROUNDWATER	175	185	61.7	71.7	E314.0	PERCHLORATE	
W233M3A	MW-233	09/26/2003	GROUNDWATER	231	241	32.8	42.8	E314.0	PERCHLORATE	
W270DDA	MW-270	09/30/2003	GROUNDWATER	132	137	108.96	113.96	E314.0	PERCHLORATE	
W270DDD	MW-270	09/30/2003	GROUNDWATER	132	137	108.96	113.96	E314.0	PERCHLORATE	
W270M1A	MW-270	09/30/2003	GROUNDWATER	74	79	50.89	55.89	E314.0	PERCHLORATE	
W270M1D	MW-270	09/30/2003	GROUNDWATER	74	79	50.89	55.89	E314.0	PERCHLORATE	
W270SSA	MW-270	09/30/2003	GROUNDWATER	22	32	0	10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W270SSA	MW-270	09/30/2003	GROUNDWATER	22	32	0	10	E314.0	PERCHLORATE	
W31MMA	MW-31	09/27/2003	GROUNDWATER	113	123	28	38	E314.0	PERCHLORATE	
W31SSA	MW-31	09/27/2003	GROUNDWATER	98	103	13	18	E314.0	PERCHLORATE	
W31SSD	MW-31	09/27/2003	GROUNDWATER	98	103	13	18	E314.0	PERCHLORATE	
W73SSA	MW-73	09/27/2003	GROUNDWATER	38.5	48.5	0	10	E314.0	PERCHLORATE	
W76M1A	MW-76	09/27/2003	GROUNDWATER	125	135	58	68	E314.0	PERCHLORATE	
W76SSA	MW-76	09/27/2003	GROUNDWATER	85	95	18	28	E314.0	PERCHLORATE	
W77M1A	MW-77	09/27/2003	GROUNDWATER	180	190	98	108	E314.0	PERCHLORATE	
W77M2A	MW-77	09/27/2003	GROUNDWATER	120	130	38	48	E314.0	PERCHLORATE	
XXM975-A	97-5	10/04/2003	GROUNDWATER	84	94	76	86	E314.0	PERCHLORATE	
G288DBA	MW-288	10/01/2003	PROFILE	100	100	12	12	8330N	2-AMINO-4,6-DINITROTOLUENE	NO*
G288DBA	MW-288	10/01/2003	PROFILE	100	100	12	12	8330N	1,3-DINITROBENZENE	NO
G288DBA	MW-288	10/01/2003	PROFILE	100	100	12	12	8330N	PICRIC ACID	NO*
G288DBA	MW-288	10/01/2003	PROFILE	100	100	12	12	8330N	NITROGLYCERIN	NO*
G288DBA	MW-288	10/01/2003	PROFILE	100	100	12	12	8330N	1,3,5-TRINITROBENZENE	NO
G288DBA	MW-288	10/01/2003	PROFILE	100	100	12	12	8330N	3-NITROTOLUENE	NO*
G288DCA	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	PENTAERYTHRITOL TETRANITRATE	NO*
G288DCA	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	1,3,5-TRINITROBENZENE	NO

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

**TABLE 3  
DETECTED COMPOUNDS-UNVALIDATED  
SAMPLES COLLECTED 09/12/03 - 10/11/03**

SAMPLE ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
G288DCA	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	1,3-DINITROBENZENE	NO
G288DCA	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	PICRIC ACID	NO
G288DCA	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	NITROGLYCERIN	NO*
G288DCA	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	3-NITROTOLUENE	NO*
G288DCD	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	1,3-DINITROBENZENE	NO
G288DCD	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	PICRIC ACID	NO
G288DCD	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	3-NITROTOLUENE	NO*
G288DCD	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	NITROGLYCERIN	NO*
G288DCD	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	PENTAERYTHRITOL TETRANITRATE	NO*
G288DCD	MW-288	10/01/2003	PROFILE	110	110	22	22	8330N	1,3,5-TRINITROBENZENE	NO
G288DDA	MW-288	10/01/2003	PROFILE	120	120	32	32	8330N	3-NITROTOLUENE	NO*
G288DDA	MW-288	10/01/2003	PROFILE	120	120	32	32	8330N	NITROGLYCERIN	NO*
G288DDA	MW-288	10/01/2003	PROFILE	120	120	32	32	8330N	1,3,5-TRINITROBENZENE	NO
G288DDA	MW-288	10/01/2003	PROFILE	120	120	32	32	8330N	PICRIC ACID	NO
G288DHA	MW-288	10/02/2003	PROFILE	160	160	72	72	8330N	NITROGLYCERIN	NO*
G288DJA	MW-288	10/02/2003	PROFILE	180	180	92	92	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G288DJA	MW-288	10/02/2003	PROFILE	180	180	92	92	E314.0	PERCHLORATE	
G288DJD	MW-288	10/02/2003	PROFILE	180	180	92	92	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G288DJD	MW-288	10/02/2003	PROFILE	180	180	92	92	E314.0	PERCHLORATE	
G288DKA	MW-288	10/02/2003	PROFILE	190	190	102	102	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G288DKA	MW-288	10/02/2003	PROFILE	190	190	102	102	E314.0	PERCHLORATE	
G288DLA	MW-288	10/03/2003	PROFILE	200	200	112	112	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G288DLA	MW-288	10/03/2003	PROFILE	200	200	112	112	E314.0	PERCHLORATE	
G288DMA	MW-288	10/03/2003	PROFILE	210	210	122	122	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G288DMA	MW-288	10/03/2003	PROFILE	210	210	122	122	E314.0	PERCHLORATE	
G288DTA	MW-288	10/07/2003	PROFILE	280	280	192	192	8330N	2,6-DINITROTOLUENE	NO
G288DTA	MW-288	10/07/2003	PROFILE	280	280	192	192	8330N	PENTAERYTHRITOL TETRANITRATE	NO

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