

**WEEKLY PROGRESS UPDATE  
FOR MARCH 29 – APRIL 2, 2004**

**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 March 29 through April 2, 2004.

**1. SUMMARY OF ACTIONS TAKEN**

Drilling progress as of April 2, 2004 is summarized in Table 1.

<b>Table 1. Drilling progress as of April 2, 2004</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>
MW-317	Western Boundary (CBP-9)	240	81	
MW-318	J-2 Range (J2P-35)	337	216	
MW-319	J-2 Range (J2P-21)	324	231	165-175; 200-210
MW-321	J-2 Range (J2P-24)	312	207	
MW-322	J-2 Range (J2P-36)	336	217	
MW-323	Northwest Corner (NWP-8a)	226	151	73-83; 120-130; 195-205
MW-324	J-2 Range (J2P-23)	310	181	
MW-325	L-Range (LP-13)	278	200	
bgs = below ground surface bwt = below water table				

Completed well installation at MW-319 (J2P-21) and MW-323 (NWP-8a); commenced well installation at MW-321 (J2P-24) and MW-322 (J2P-36); completed drilling at MW-325 (LP-13); and continued drilling at MW-317 (CBP-9), and MW-324 (J2P-23). 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-317, MW-323, MW-324, and MW-325. Groundwater samples were collected from Bourne water supply and monitoring wells, a residential well, recently installed wells, and as part of the April round of the Draft 2003 Long-Term Groundwater Monitoring Program. Investigation-derived waste (IDW) samples were collected from the Granular Activated Carbon (GAC) treatment system. Samples of well development water were collected from IW-273. Soil samples were collected from grids at the J-1 Range and Target 23 in the Impact Area. A pre- and post-detonation sample were collected from the J-3 Range. Supplemental soil samples were collected from BIP craters in the U Range.

**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 detections from the following areas:

#### Western Boundary

- A groundwater sample from 97-5 had a detection of perchlorate. The result was similar to previous sampling rounds.

#### Northwest Corner

- Groundwater samples from MW-278M2 and RSNW03 had detections of perchlorate. The results were similar to previous sampling rounds.
- Profile samples from MW-323 (NWP-8a) had detections of explosives and perchlorate. Perchlorate was detected in four intervals between 3 and 50 feet below the water table. Of the explosive compounds, RDX was confirmed by PDA spectra in ten intervals between 40 and 130 feet below the water table. Well screens were set at the depth (-2 to 8 ft bwt) corresponding to the maximum perchlorate detection, at the depth (45-55 ft bwt) corresponding to the maximum RDX detection, and at the depth (120 to 130 ft bwt) corresponding to the deepest RDX detection.

#### Impact Area

- A groundwater sample from 58MW007B had a detection of perchlorate. The result was similar to previous sampling rounds.

#### Demo Area 1

- A groundwater sample from MW-225M3 had a detection of perchlorate. The result was similar to previous sampling rounds.
- Groundwater samples from MW-211M1 had detections of perchlorate that were more than ten times greater than any previous reported detection.

#### Demo Area 2

- A groundwater sample from MW-311M1 had a detection of RDX that was confirmed by PDA spectra. This is the first sampling event for this well. RDX was not detected in this interval in the profile results.

J-3 Range

- Groundwater samples from 90MW0022, MW-218M1, and MW-227M2 had detections of perchlorate. The results were similar to previous sampling rounds.

**3. DELIVERABLES SUBMITTED**

Draft Final Site-Wide Perchlorate Characterization Report

03/31/2004

**4. SCHEDULED ACTIONS**

Scheduled actions for the week of April 5 include complete well installation at MW-321 (J2P-24) and MW-322 (J2P-36); complete drilling at MW-317 (CBP-9) and MW-324 (J2P-23), and commence drilling at MW-326 (J1P-24) and MW-327 (J2P-38). Groundwater sampling of Bourne water supply and monitoring wells, recently installed wells, and as part of the April round of the Draft 2004 Long-Term Groundwater Monitoring Plan will continue. Supplemental BIP sampling in the J-1, J-2, and U Ranges and lysimeter installation at Target 23 in the Impact Area will also continue.

**5. SUMMARY OF ACTIVITIES FOR DEMO AREA 1**

Development of extraction and injection wells for the Groundwater RRA is ongoing. Installation of subsurface piping and well vaults for the RRA Extraction, Treatment and Recharge System was substantially complete on April 2, 2004. Installation of subsurface piping and electrical supply for the Pew Road Extraction, Treatment and Recharge System continues. Construction of the groundwater treatment containers, which will occur at an off-site facility, will begin in April 2004.

As part of the Soil RRA, excavation of contaminated soil within the Demo 1 depression continues. Approximately 4,030 tons of contaminated soil has been processed as part of preliminary soil treatment activities. Approximately 750 tons of material was processed during the Proof of Performance testing, which was conducted from March 31 through April 2, 2004. Anomaly removal within the Demo 1 depression continues.

**TABLE 2  
SAMPLING PROGRESS  
03/28/2004 - 04/03/2004**

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
ECC032604J301 (po	SS15216-A	04/01/2004	CRATER GRID	0.2	0		
ECC032604J301 (pr	SS15216-A	04/01/2004	CRATER GRID	0.2	0		
HDTT04030202SS1	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS2	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS3	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS4	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS5	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS6	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS7	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS8	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
HDTT04030202SS8	TT040302-02	04/01/2004	CRATER GRID	0	0.16		
11MW0001-A	11MW0001	03/30/2004	GROUNDWATER	152	162	0	10
11MW0003-A	11MW0003	04/02/2004	GROUNDWATER	0	0		
11MW0004-A	11MW0004	03/30/2004	GROUNDWATER	154	164	0	10
4036000-01G-A	4036000-01G	03/29/2004	GROUNDWATER	38	69.8	6	12
4036000-06G-A	4036000-06G	03/29/2004	GROUNDWATER	108	128	6	12
58MW0005E-A	58MW0005E	03/30/2004	GROUNDWATER	115	125	0	10
84MW0005A-A	84MW0005	03/30/2004	GROUNDWATER	220	225	130	135
MW-289M1-	MW-289M1	03/31/2004	GROUNDWATER	314.62	304.6	202.32	212.32
MW-289M2-	MW-289M2	03/31/2004	GROUNDWATER	172.02	162.0	59.72	69.72
MW-289S-	MW-289S	03/31/2004	GROUNDWATER	114.69	104.6	2.34	12.39
MW-292M1-	MW-292M1	04/01/2004	GROUNDWATER	292.09	282.1	186.33	196.34
MW-303M2-	MW-303M2	03/30/2004	GROUNDWATER	245	235	122	132
MW-306D-	MW-306D	03/30/2004	GROUNDWATER	302	292	168	178
MW-306D-FD	MW-306D	03/30/2004	GROUNDWATER	302	292	168	178
MW-306M1-	MW-306M1	04/01/2004	GROUNDWATER	195	185	61	71
MW-306M2-	MW-306M2	04/01/2004	GROUNDWATER	175	165	41	51
RSNW03-A	RSNW03	03/31/2004	GROUNDWATER	0	0		
W02-13M1A	02-13	03/29/2004	GROUNDWATER	98	108	58.33	68.33
W02-13M2A	02-13	03/29/2004	GROUNDWATER	83	93	44.2	54.2
W02-13M3A	02-13	03/29/2004	GROUNDWATER	68	78	28.3	38.3
W02-13M3D	02-13	03/29/2004	GROUNDWATER	68	78	28.3	38.3
W03SSA	MW-3	03/30/2004	GROUNDWATER	44	54	1	11
W09SSA	MW-9	03/30/2004	GROUNDWATER	113	123	0	10
W226M1A	MW-226	04/02/2004	GROUNDWATER	285	295	172	182

**Profiling methods may include: Volatiles, Explosives, and Perchlorate**

**Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, Perchlorate and Wet Chemistry**

**Other Sample Types methods are variable**

**SBD = Sample Begin Depth, measured in feet bgs**

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W226M2A	MW-226	04/02/2004	GROUNDWATER	175	185	61.7	71.7
W226M3A	MW-226	04/02/2004	GROUNDWATER	135	145	21.53	31.53
W248M2A	MW-248	04/01/2004	GROUNDWATER	178	188	66.5	76.5
W248M3A	MW-248	04/02/2004	GROUNDWATER	143	153	31.5	41.5
W252M2A	MW-252	04/01/2004	GROUNDWATER	145	155	31.62	41.61
W252M3A	MW-252	04/01/2004	GROUNDWATER	115	125	1.63	11.63
W252M3D	MW-252	04/01/2004	GROUNDWATER	115	125	1.63	11.63
W254M1A	MW-254	03/29/2004	GROUNDWATER	230	240	165.75	175.75
W254M2A	MW-254	03/29/2004	GROUNDWATER	190	200	125.73	135.73
W254M2D	MW-254	03/29/2004	GROUNDWATER	190	200	125.73	135.73
W255M1A	MW-255	04/01/2004	GROUNDWATER	206	216	96.3	106.3
W255M2A	MW-255	04/01/2004	GROUNDWATER	170	180	60.43	70.43
W255M3A	MW-255	04/01/2004	GROUNDWATER	136	146	26.1	36.1
W255M3D	MW-255	04/01/2004	GROUNDWATER	136	146	26.1	36.1
W257M1A	MW-257	04/01/2004	GROUNDWATER	290	300	145.52	155.52
W257M2A	MW-257	04/01/2004	GROUNDWATER	195	205	51.27	61.27
W258M1A	MW-258	04/02/2004	GROUNDWATER	109	119	64.1	74.1
W258M2A	MW-258	04/02/2004	GROUNDWATER	87	92	42.2	47.2
W258M3A	MW-258	04/02/2004	GROUNDWATER	77	82	32.25	37.25
W276M1A	MW-276	04/02/2004	GROUNDWATER	295	305	114	124
W276M2A	MW-276	04/02/2004	GROUNDWATER	234	244	52.88	62.88
W276M3A	MW-276	04/02/2004	GROUNDWATER	185	195	0	10
W280M1A	MW-280	04/02/2004	GROUNDWATER	255	265	93.99	103.99
W280M2A	MW-280	04/02/2004	GROUNDWATER	202	212	41.64	51.64
W280M3A	MW-280	04/02/2004	GROUNDWATER	185	195	24.12	34.12
W311M1A	MW-311	03/29/2004	GROUNDWATER	222	232	24.89	34.89
W311M2A	MW-311	03/30/2004	GROUNDWATER	200	210	2.75	12.75
W312M1A	MW-312	03/31/2004	GROUNDWATER	177	187	24.41	34.41
W61SSA	MW-61	03/29/2004	GROUNDWATER	98	108	0	10
XXRW1-A	RW-1	03/31/2004	GROUNDWATER	50	59	0	9
XXRW3-A	RW-3	03/31/2004	GROUNDWATER	270.56	280.6		
DW032904B-NV	GAC WATER	03/29/2004	IDW	0	0		
DW032904-NV	GAC WATER	03/29/2004	IDW	0	0		
DW040104-NV	GAC WATER	04/01/2004	IDW	0	0		
JEGACDLM01-	JEGACDLM01	03/29/2004	IDW	0	0		

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IW273EFF0-A	MW-273	03/29/2004	PROCESS WATER	0	0		
IW273EFF1-A	MW-273	03/29/2004	PROCESS WATER	0	0		
IW273INF0-A	MW-273	03/29/2004	PROCESS WATER	0	0		
IW273INF1-A	MW-273	03/29/2004	PROCESS WATER	0	0		
IW273MID0-A	MW-273	03/29/2004	PROCESS WATER	0	0		
IW273MID1-A	MW-273	03/29/2004	PROCESS WATER	0	0		
G317DAA	MW-317	03/30/2004	PROFILE	160	160	1.2	1.2
G317DBA	MW-317	03/30/2004	PROFILE	170	170	11.2	11.2
G317DCA	MW-317	03/30/2004	PROFILE	180	180	21.2	21.2
G317DCD	MW-317	03/30/2004	PROFILE	180	180	21.2	21.2
G317DDA	MW-317	03/30/2004	PROFILE	190	190	31.2	31.2
G317DEA	MW-317	03/31/2004	PROFILE	200	200	41.2	41.2
G317DFA	MW-317	03/31/2004	PROFILE	210	210	51.2	51.2
G317DGA	MW-317	04/01/2004	PROFILE	220	220	61.2	61.2
G317DHA	MW-317	04/02/2004	PROFILE	230	230	71.2	71.2
G323DNA	MW-323	03/29/2004	PROFILE	205	205	130.15	130.15
G323DND	MW-323	03/29/2004	PROFILE	205	205	130.15	130.15
G323DOA	MW-323	03/29/2004	PROFILE	215	215	140.15	140.15
G323DPA	MW-323	03/29/2004	PROFILE	225	225	150.15	150.15
MW-324-05	MW-324	03/29/2004	PROFILE	160	160	37	37
MW-324-06	MW-324	03/29/2004	PROFILE	170	170	47	47
MW-324-07	MW-324	03/29/2004	PROFILE	180	180	57	57
MW-324-09	MW-324	03/30/2004	PROFILE	190	190	67	67
MW-324-10	MW-324	03/30/2004	PROFILE	200	200	77	77
MW-324-11	MW-324	03/30/2004	PROFILE	210	210	87	87
MW-324-12	MW-324	03/30/2004	PROFILE	230	230	107	107
MW-324-13	MW-324	03/31/2004	PROFILE	240	240	117	117
MW-324-13FD	MW-324	03/31/2004	PROFILE	240	240	117	117
MW-324-14	MW-324	03/31/2004	PROFILE	250	250	127	127
MW-324-15	MW-324	04/01/2004	PROFILE	260	260	137	137
MW-324-16	MW-324	04/01/2004	PROFILE	270	270	147	147
MW-324-17	MW-324	04/01/2004	PROFILE	280	280	157	157
MW-324-18	MW-324	04/01/2004	PROFILE	290	290	167	167
MW-325-13	MW-325	03/29/2004	PROFILE	200	200	122	122
MW-325-13FD	MW-325	03/29/2004	PROFILE	200	200	122	122

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MW-325-14	MW-325	03/29/2004	PROFILE	210	210	132	132
MW-325-15	MW-325	03/30/2004	PROFILE	230	230	152	152
MW-325-16	MW-325	03/30/2004	PROFILE	240	240	162	162
MW-325-17	MW-325	03/30/2004	PROFILE	250	250	172	172
MW-325-18	MW-325	03/30/2004	PROFILE	260	260	182	182
MW-325-19	MW-325	03/30/2004	PROFILE	270	270	192	192
MW-325-20	MW-325	03/30/2004	PROFILE	277.7	277.7	199.7	199.7
D1-067	D1-067	03/22/2004	SOIL GRAB	0.2	0		
05CL-01	SS05CL	03/30/2004	SOIL GRID	0.25	0		
05CL-02	SS05CL	03/30/2004	SOIL GRID	0.5	0.25		
05CL-03	SS05CL	03/30/2004	SOIL GRID	1	0.5		
05CL-03FD	SS05CL	03/30/2004	SOIL GRID	1	0.5		
05V-01	SS15145-A	03/30/2004	SOIL GRID	0.25	0		
05V-02	SS15145-A	03/30/2004	SOIL GRID	0.5	0.25		
05V-02FD	SS15145-A	03/30/2004	SOIL GRID	0.5	0.25		
05V-03	SS15145-A	03/30/2004	SOIL GRID	1	0.5		
HD115LA1AAA	115LA	03/29/2004	SOIL GRID	2	2		
HD115LA1BAA	115LA	03/29/2004	SOIL GRID	4	4		
HD115LA1BAD	115LA	03/29/2004	SOIL GRID	4	4		
HD115LA1CAA	115LA	03/30/2004	SOIL GRID	6	6		
HD115LB1AAA	115LB	03/31/2004	SOIL GRID	2	2		
HD115LB1BAA	115LB	04/01/2004	SOIL GRID	3.5	3.5		

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**TABLE 3  
DETECTED COMPOUNDS-UNVALIDATED  
SAMPLES COLLECTED 03/05/04 - 04/02/04**

SAMPLE ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
58MW0007B-A	58MW0007B	03/15/2004	GROUNDWATER	187.7	192.7	49	54	E314.0	PERCHLORATE	
90MW0022-A	90MW0022	03/16/2004	GROUNDWATER	112	117	72.79	77.79	E314.0	PERCHLORATE	
RSNW03-A	RSNW03	03/31/2004	GROUNDWATER	0	0			E314.0	PERCHLORATE	
W211M1A	MW-211	03/10/2004	GROUNDWATER	200	210	55	65	E314.0	PERCHLORATE	
W211M1A	MW-211	02/04/2004	GROUNDWATER	200	210	55	65	E314.0	PERCHLORATE	
W218M1A	MW-218	03/15/2004	GROUNDWATER	128	133	123	128	E314.0	PERCHLORATE	
W225M3A	MW-225	03/15/2004	GROUNDWATER	125	135	26.48	36.48	E314.0	PERCHLORATE	
W227M2A	MW-227	03/16/2004	GROUNDWATER	110	120	56.38	66.38	E314.0	PERCHLORATE	
W278M2A	MW-278	03/17/2004	GROUNDWATER	97	102	9.79	14.79	E314.0	PERCHLORATE	
W311M1A	MW-311	03/29/2004	GROUNDWATER	222	232	24.89	34.89	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
XXM975-A	97-5	03/24/2004	GROUNDWATER	84	94	76	86	E314.0	PERCHLORATE	
G323DAA	MW-323	03/25/2004	PROFILE	78	78	3.15	3.15	8330N	3-NITROTOLUENE	NO*
G323DAA	MW-323	03/25/2004	PROFILE	78	78	3.15	3.15	E314.0	PERCHLORATE	
G323DBA	MW-323	03/25/2004	PROFILE	85	85	10.15	10.15	8330N	3-NITROTOLUENE	NO*
G323DBA	MW-323	03/25/2004	PROFILE	85	85	10.15	10.15	E314.0	PERCHLORATE	
G323DBD	MW-323	03/25/2004	PROFILE	85	85	10.15	10.15	8330N	3-NITROTOLUENE	NO*
G323DBD	MW-323	03/25/2004	PROFILE	85	85	10.15	10.15	E314.0	PERCHLORATE	
G323DCA	MW-323	03/25/2004	PROFILE	95	95	20.15	20.15	8330N	3-NITROTOLUENE	NO*
G323DCA	MW-323	03/25/2004	PROFILE	95	95	20.15	20.15	E314.0	PERCHLORATE	
G323DEA	MW-323	03/25/2004	PROFILE	115	115	40.15	40.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DFA	MW-323	03/25/2004	PROFILE	125	125	50.15	50.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DFA	MW-323	03/25/2004	PROFILE	125	125	50.15	50.15	E314.0	PERCHLORATE	
G323DGA	MW-323	03/25/2004	PROFILE	135	135	60.15	60.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DHA	MW-323	03/25/2004	PROFILE	145	145	70.15	70.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DIA	MW-323	03/25/2004	PROFILE	155	155	80.15	80.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DJA	MW-323	03/26/2004	PROFILE	165	165	90.15	90.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DKA	MW-323	03/26/2004	PROFILE	175	175	100.15	100.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DLA	MW-323	03/26/2004	PROFILE	185	185	110.15	110.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES

**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 03/05/04 - 04/02/04**

<b>SAMPLE ID</b>	<b>LOCID OR WELL</b>	<b>SAMPLED</b>	<b>SAMP_TYPE</b>	<b>SBD</b>	<b>SED</b>	<b>BWTS</b>	<b>BWTE</b>	<b>METHOD</b>	<b>ANALYTE</b>	<b>PDA</b>
G323DMA	MW-323	03/26/2004	PROFILE	195	195	120.15	120.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G323DNA	MW-323	03/29/2004	PROFILE	205	205	130.15	130.15	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES

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**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**