WEEKLY PROGRESS UPDATE
FOR SEPTEMBER 2 – SEPTEMBER 6, 2002

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 & 1-2000-0014
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from September 2 through September 6, 2002.

1. SUMMARY OF ACTIONS TAKEN

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

Table 1. Drilling progress as of September 6, 2002

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-233	Base WS-4 sentry well (WS4P-2)	415	199	
MW-235	Central Impact Area (CIAP-24)	330	202	320-330; 154-164; 127-137
MW-236	L Range (LP-9)	250	153	96-106
MW-237	J-3 Range (J3P-21)	55		

bgs = below ground surface
bwt = below water table

Completed well installation of MW-235 (CIAP-24) and MW-236 (LP-9), continued well installation of MW-233 (WS4P-2), and commenced drilling of MW-237 (J3P-21).

Samples collected during the reporting period are summarized in Table 2. Groundwater samples were collected from Bourne supply, test, and monitoring wells, as part of the Site-Wide Perchlorate sampling, as part of the August Long Term Groundwater monitoring round, and from recently installed wells.

The following are the notes from the September 5, 2002 Technical Team conference call held in lieu of regular meeting at the IAGWSPO.

Participants

Pam Richardson (IAGWSPO)
Desiree Moyer (EPA)
Dave Williams (MDPH)
Ed Wise (ACE)
John Rice (AMEC)
John Rader (AMEC)
Larry Pannell (Jacobs)
Todd Borci (EPA)
Len Pinaud (MADEP)
Darrel Deleppo (ACE)
Ellen Iorio (ACE)
Jay Clausen (AMEC)
Susan Stewart (TetraTech)
Meghan Cassidy (EPA)
Mark Panni (MADEP)
Gina Tyo (ACE)
Rob Foti (ACE)
Maria Pologruto (AMEC)
Leo Yuskus (Haley and Ward)

PunchList Items

#5 Discuss reporting of Perchlorate <1ppb with Dan Mahoney (Sandwich) (EPA). Sandwich Water Supply wells can now be sampled for explosives. AMEC will report when sampling is scheduled. No go ahead yet on Perchlorate sampling and reporting values.

#12 Provide update/action of BIP soil results CIA, Eastern Test and SCAR Sites. Ellen Iorio (ACE) indicated that soil excavation will commence Friday 9/06 at the previously discussed BIP sites (with elevated detections of explosives and perchlorate). The soil will be manually excavated and containerized in 55-gallon drums; drums to be staged at Tetra Tech's staging yard. Final soil disposition to be addressed in accordance with a soil management plan currently in progress and upon securing the necessary funding, likely FY03 funds.

MSP3 Update

Rob Foti (ACE) provided an update on MSP3 tasks.

Air Mag. The 22 anomalies selected have all been investigated. A list of items associated with each anomaly will be presented to the agencies next week. Anomaly 5-2625 was determined to be guy wire tie-downs. The crew excavated 2 feet around this anomaly and no other items were found. Overall nothing significant was found during the anomalies excavations. Prior to backfilling the excavations, Dr. Sue Goodfellow (E&RC) will visit the sites.

J-2 Range Polygon 2. The anomaly investigation/excavation work will recommence Monday, 9/9.

SCAR Site. Surface grubbing and geophysics work is complete. A digital map is being produced and is expected to be distributed to the agencies on 9/19. Todd Borci (EPA) requested that the map be distributed in advance of the 9/19 Tech Meeting.

N Range. The original 10 anomalies are finished. The 3 additional anomaly picks requested by EPA are in the process of being completed. Pick #11 turned out to be a steel plate and cable. A crew is working on Pick #12 and will proceed to Pick #13 next. Pick #7 was unrecognized wire and tubing; Nick Iaiennaro (ACE) may be able to identify the items. No evidence of burning was observed.

U Range. Surface clearance and grubbing is scheduled to begin Monday 9/9.

Schooner Pass

John Rice (AMEC) provided information regarding the Schooner Pass well located near the northwest corner of MMR.

- The well at Schooner Pass Condominiums was resampled Tuesday 9/3. The previous sampling event results have been validated. Perchlorate was non-detect; RDX was detected at a low level (0.28 ppb). Len Pinaud (MADEP) stated that the DEP has not required the water supplier to perform sampling for explosives. It is the DEP's expectation that this water supply will continue to be sampled by the IAGWSP. Dave Williams (MDPH) asked when the new data will be available and if it would be distributed to the Tech team. Mr. Rice indicated that the results are expected in the next day or two and would be submitted to the Guard/Corps for their distribution.
- Todd Borci asked what additional sampling/monitoring would be proposed for this well; suggesting that monthly sampling was preferred until a pattern was discerned. Mr. Borci also requested that someone retrieve all available data and information pertaining to wells 95-15A and 95-15C, which are assumed to be upgradient of Schooner Pass, and also to determine if there are any other wells located in this vicinity.
- Jay Clausen (AMEC) later indicated review of past chromatographs of water from these 95-15 screens did not show peaks where explosives would be expected. Mr. Clausen was not aware of perchlorate results for these wells. Review of database results after the conference call indicated perchlorate results as follows: 95-15A was ND for Perchlorate at

0.35 ppb MDL; 95-15C was ND for Perchlorate at 1.5 ppb MDL to be sampled again at the lower MDL as part of the August LTGM round.

- Action Items: 1) Guard/Corps to provide the EPA with a proposed plan to address the recent findings at Schooner Pass. 2) Guard/Corps to determine what information and data is available for any wells in the vicinity of this area, in particular 95-15A and 95–15C.

Documents / Schedule

EPA requested that the master schedule distributed by Marc Grant (AMEC) be modified such that enforceable milestones could be easily cross-referenced with the dates depicted for each specific task. Discussion of this subject to be included in the 9/12 Tech meeting agenda.

IART Maps

Todd Borci (EPA) and Pam Richardson (IAGWSPO) led discussion on IART map changes.

- During last week's PM/CI meeting several changes were proposed to the IART maps. Todd Borci asked if these changes were underway. Corps/Guard to report progress at 9/12 Tech meeting.
- Mr. Borci further elaborated that he had received a telephone call from a resident of the Snake Pond area, who adamantly opposed the depiction of their private well and property address on these maps. Len Pinaud (MADEP) proposed, with Mr. Borci's concurrence, that residential wells be removed from any maps distributed to the public in the future. Meghan Cassidy (EPA) expressed concern that this information (map showing residential wells) be kept available (archived) in the event that other individuals request the original versions of such maps, as they were made available to the general public in the past.

Bourne Update

Jay Clausen/John Rice (AMEC) led the discussion on the Bourne area.

- Monthly and weekly sampling of Bourne wells is on going. Maps depicting particle backtracks from monitoring wells in and upgradient of the wellfield are currently in review and should be available next week for distribution to agencies.
- Len Pinaud (MADEP) asked about the status of the proposed wells in this area. Mr. Clausen indicated that his direction from the Guard/Corps was to install one well between WS4P-2 and WS-4 at approximately the mid point of these two locations, and one well located upgradient of the RRA-1 well. Leo Yuskus (Haley and Ward) remarked that this differs from what was agreed upon at the Bourne Water District meeting held last week. Mr. Yuskus elaborated that 2 wells were proposed between WS4P-2 and WS-4 to be spaced equidistant from one another (i.e., in thirds) and that a third well location was proposed at approximately the midpoint between WS4P-1 (MW-219) and WS-4 wells. Gina Tyo (ACE) agreed that these 3 wells and the locations as Mr. Yuskus proposed were presented at the Bourne meeting. Mr. Yuskus indicated that he wants high priority given to sampling upgradient of WS-4 to appraise its future usefulness. Ms. Tyo stated the ROA's for all wells should proceed immediately, and that the timing/coordination for these wells is critical since some may require FY03 funding.
- Mr. Yuskus asked if a well screen sample had been collected at WS4-P2. Mr. Rice indicated that the drill rig was still at the well location; demob off the pad was delayed due to broken drill stem while installing another well screen at WS4-P2.
- Gina Tyo to provide clarification on which wells will be installed and where; and confirm when the agencies will receive the particle track maps.

Miscellaneous

- Todd Borci (EPA) requested a copy of interviewee/witness list for the ASR. Action Item: Gina Tyo (ACE) to email ASR witness list to EPA. ASR Update will also be added to the tech meeting agenda next week.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and 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:

Bourne Wellfield

- Groundwater samples from supply well 4036000-04G had a detection of perchlorate. This is the first perchlorate detection in this well since June.

- Groundwater samples from 01-2 had a detection of perchlorate. This is the first perchlorate detection in this well since April.

- Groundwater samples from 02-12M2 had a first time detection of perchlorate.

- Groundwater samples from 00-4D; 02-01M2; 02-03M1, M2; 02-05M2; 02-07M3; 02-08M2, M3; 02-09M1, M2; 02-13M2, M3 had detections of perchlorate or chloroform that were similar to previous sampling rounds.

Central Impact Area and CS-19

- Groundwater samples from observation wells, OW-2 and OW-6, had detections of perchlorate and RDX. HMX was also detected in the groundwater sample from OW-2. This is the first analysis using method 8330NX. These results were similar to the previous sampling rounds except that this is the first time the perchlorate detections have been above the EPA MMR Relevant Standard.

- Groundwater samples from CS-19 wells 58MW007B, 58MW0009E, 58MW0011D, and 58MW0015B had detections of explosives, confirmed by PDA spectra, that were similar to previous sampling rounds.

Southeast of the Ranges

- Groundwater samples from 90MW0022 and MW-130S had detections of explosives that were confirmed by PDA spectra. This is the first analysis using method 8330NX for either of these wells and the results were similar to previous sampling rounds.

- Groundwater samples from the first sampling event at MW-228 had detections of RDX and HMX that were confirmed by PDA spectra. The results were consistent with the profile results.

3. DELIVERABLES SUBMITTED

Weekly Progress Update August 19 – August 23, 2002	09/06/2002
Weekly Progress Update August 26 – August 30, 2002	09/06/2002
Final Addendum #1 to the Gun and Mortar Firing Positions Additional Characterization Workplan	09/06/2002

4. SCHEDULED ACTIONS

Scheduled actions for the week of September 9 include Continue well installation at MW-233 (WS4P-2), continue drilling at MW-237 (J3P-21), and commence drilling at LP-8.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume is being conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit and as the Interim Action for groundwater remediation is being designed. Pumping and treating groundwater at the toe of the Demo 1 plume and at Frank Perkins Road has been selected as an Interim Action to address the Demo 1 Area Groundwater Operable Unit. A Rapid Response Action/Release Abatement Measure (RRA/RAM) is also being planned to address soil contamination at Demo 1.

TABLE 2
SAMPLING PROGRESS
08/31/2002 - 09/07/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
90WT0003-T	FIELDQC	09/05/2002	FIELDQC	0.00	0.00		
90WT0006-E	FIELDQC	09/05/2002	FIELDQC	0.00	0.00		
95-15-E	FIELDQC	09/04/2002	FIELDQC	0.00	0.00		
95-15-T	FIELDQC	09/04/2002	FIELDQC	0.00	0.00		
W229M2T	FIELDQC	09/06/2002	FIELDQC	0.00	0.00		
W54DDT	FIELDQC	09/03/2002	FIELDQC	0.00	0.00		
XXM971-E	FIELDQC	09/06/2002	FIELDQC	0.00	0.00		
4036000-01G	4036000-01G	09/04/2002	GROUNDWATER				
4036000-03G	4036000-03G	09/04/2002	GROUNDWATER				
4036000-04G	4036000-04G	09/04/2002	GROUNDWATER				
4036000-06G	4036000-06G	09/04/2002	GROUNDWATER				
58MW0020A-A	58MW0020A	09/03/2002	GROUNDWATER				
58MW0020B-A	58MW0020B	09/03/2002	GROUNDWATER				
90WT0006-A	90WT0006	09/05/2002	GROUNDWATER	95.00	105.00	0.00	10.00
95-14-A	95-14	09/06/2002	GROUNDWATER				
95-15-A	95-15	09/04/2002	GROUNDWATER				
95-15C-A	95-15C	09/04/2002	GROUNDWATER				
95-6A-A	95-6A	09/06/2002	GROUNDWATER				
95-6B-A	95-6B	09/04/2002	GROUNDWATER				
OW-1-A	OW-1	09/04/2002	GROUNDWATER	126.00	136.00	0.00	10.00
TW1-88A-A	1-88	09/04/2002	GROUNDWATER				
W02-12M1A	02-12	09/04/2002	GROUNDWATER	109.00	119.00	58.35	68.35
W02-12M1D	02-12	09/04/2002	GROUNDWATER	109.00	119.00	58.35	68.35
W02-12M2A	02-12	09/04/2002	GROUNDWATER	94.00	104.00	42.15	52.15
W02-12M3A	02-12	09/04/2002	GROUNDWATER	79.00	89.00	27.21	37.21
W02-13M1A	02-13	09/04/2002	GROUNDWATER	98.00	108.00	58.33	68.33
W02-13M2A	02-13	09/04/2002	GROUNDWATER	83.00	93.00	44.20	54.20
W02-13M3A	02-13	09/04/2002	GROUNDWATER	68.00	78.00	28.30	38.30
W142M1A	MW-142	09/03/2002	GROUNDWATER	225.00	235.00	185.00	195.00
W142M2A	MW-142	09/03/2002	GROUNDWATER	140.00	150.00	100.00	110.00
W142M2D	MW-142	09/03/2002	GROUNDWATER	140.00	150.00	100.00	110.00
W142SSA	MW-142	09/03/2002	GROUNDWATER	42.00	52.00	2.00	12.00
W143M1A	MW-143	09/03/2002	GROUNDWATER	144.00	154.00	114.00	124.00
W143M2A	MW-143	09/03/2002	GROUNDWATER	117.00	122.00	87.00	92.00
W143M3A	MW-143	09/06/2002	GROUNDWATER	107.00	112.00	77.00	82.00
W144M1A	MW-144	09/03/2002	GROUNDWATER	189.00	193.00	168.00	172.00
W144M2A	MW-144	09/03/2002	GROUNDWATER	130.00	140.00	109.00	119.00
W144SSA	MW-144	09/06/2002	GROUNDWATER	26.00	36.00	5.00	15.00
W145M1A	MW-145	09/04/2002	GROUNDWATER	125.00	135.00	97.00	107.00
W145SSA	MW-145	09/05/2002	GROUNDWATER	30.00	40.00	0.00	10.00
W146M1A	MW-146	09/04/2002	GROUNDWATER	166.00	171.00	75.00	80.00
W146SSA	MW-146	09/04/2002	GROUNDWATER	92.00	102.00	1.00	11.00
W147M1A	MW-147	09/05/2002	GROUNDWATER	166.00	176.00	94.00	104.00
W147M2A	MW-147	09/05/2002	GROUNDWATER	150.00	160.00	70.87	80.87

Profiling methods include: Volatiles, Explosives and Perchlorate
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
08/31/2002 - 09/07/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W147M3A	MW-147	09/05/2002	GROUNDWATER	82.00	92.00	2.86	12.86
W148M1A	MW-148	09/04/2002	GROUNDWATER	96.00	100.00	29.00	39.00
W148SSA	MW-148	09/04/2002	GROUNDWATER	61.00	71.00	0.00	10.00
W149SSA	MW-149	09/06/2002	GROUNDWATER	105.50	115.50	4.00	14.00
W150SSA	MW-150	09/06/2002	GROUNDWATER	92.50	102.50	0.00	10.00
W151SSA	MW-151	09/06/2002	GROUNDWATER	55.60	65.50	0.00	10.00
W151SSD	MW-151	09/06/2002	GROUNDWATER	55.60	65.50	0.00	10.00
W164M1A	MW-164	09/05/2002	GROUNDWATER	227.00	237.00	9.00	19.00
W164M2A	MW-164	09/05/2002	GROUNDWATER	157.00	167.00	119.00	129.00
W164M2D	MW-164	09/05/2002	GROUNDWATER	157.00	167.00	119.00	129.00
W164M3A	MW-164	09/05/2002	GROUNDWATER	117.00	127.00	49.00	59.00
W167M3A	MW-167	09/03/2002	GROUNDWATER	100.00	110.00	21.00	31.00
W173M1A	MW-173	09/03/2002	GROUNDWATER	243.00	253.00	104.20	114.20
W228SSA	MW-228	09/05/2002	GROUNDWATER	104.00	114.00	0.00	10.00
W229M1A	MW-229	09/05/2002	GROUNDWATER	286.00	296.00	173.27	183.27
W229M2A	MW-229	09/06/2002	GROUNDWATER	206.00	216.00	93.28	113.28
W229M3A	MW-229	09/06/2002	GROUNDWATER	141.00	151.00	28.27	38.27
W229M4A	MW-229	09/06/2002	GROUNDWATER	117.00	127.00	4.18	14.18
W54DDA	MW-54	09/03/2002	GROUNDWATER	278.00	288.00	127.00	137.00
W54M1A	MW-54	09/03/2002	GROUNDWATER	230.00	240.00	79.00	89.00
W54M2A	MW-54	09/05/2002	GROUNDWATER	210.00	220.00	59.00	69.00
W54M3A	MW-54	09/05/2002	GROUNDWATER	180.00	190.00	29.00	39.00
W54M3D	MW-54	09/05/2002	GROUNDWATER	180.00	190.00	29.00	39.00
W55M2A	MW-55	09/03/2002	GROUNDWATER	195.00	205.00	59.00	69.00
W55M3A	MW-55	09/03/2002	GROUNDWATER	164.50	174.50	28.00	38.00
XXM973-A	XXM973	09/06/2002	GROUNDWATER	75.00	85.00	34.54	44.54
XXM975-A	XXM975	09/06/2002	GROUNDWATER	84.00	94.00	73.65	83.65
XXWSCN-A	Schooner Pass	09/03/2002	GROUNDWATER				
XXWSCN-D	Schooner Pass	09/03/2002	GROUNDWATER				

Profiling methods include: Volatiles, Explosives and Perchlorate
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 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 08/16/02 - 09/6/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
4036000-04G	4036000-04G	09/04/2002	GROUNDWATEF					E314.0	PERCHLORATE	
58MW0007B-A	58MW0007B	08/26/2002	GROUNDWATEF	187.00	193.00	45.73	51.73	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
58MW0007B-D	58MW0007B	08/26/2002	GROUNDWATEF	187.00	193.00	45.73	51.73	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
58MW0009E-A	58MW0009E	08/26/2002	GROUNDWATEF	133.00	138.00	3.01	8.01	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
58MW0009E-A	58MW0009E	08/26/2002	GROUNDWATEF	133.00	138.00	3.01	8.01	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
58MW0009E-A	58MW0009E	08/26/2002	GROUNDWATEF	133.00	138.00	3.01	8.01	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
58MW0009E-A	58MW0009E	08/26/2002	GROUNDWATEF	133.00	138.00	3.01	8.01	8330NX	HEXAHYDRO-1-MONONITROSO	YES
58MW0009E-A	58MW0009E	08/26/2002	GROUNDWATEF	133.00	138.00	3.01	8.01	8330NX	OCTAHYDRO-1,3,5,7-TETRANIT	YES
58MW0011D-A	58MW0011D	08/27/2002	GROUNDWATEF	175.40	180.40	78.18	83.18	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
58MW0015B-A	58MW0015B	08/27/2002	GROUNDWATEF	130.96	140.22	6.26	15.52	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
90MW0022-A	90MW0022	08/30/2002	GROUNDWATEF	112.00	117.00	69.17	74.17	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
OW-2-A	OW-2	08/30/2002	GROUNDWATEF	175.00	185.00	46.60	56.60	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
OW-2-A	OW-2	08/30/2002	GROUNDWATEF	175.00	185.00	46.60	56.60	8330NX	OCTAHYDRO-1,3,5,7-TETRANIT	YES
OW-2-A	OW-2	08/30/2002	GROUNDWATEF	175.00	185.00	46.60	56.60	E314.0	PERCHLORATE	
OW-6-A	OW-6	08/30/2002	GROUNDWATEF	175.00	185.00	43.76	53.76	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
OW-6-A	OW-6	08/30/2002	GROUNDWATEF	175.00	185.00	43.76	53.76	E314.0	PERCHLORATE	
OW-6-D	OW-6	08/30/2002	GROUNDWATEF	175.00	185.00	43.76	53.76	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
OW-6-D	OW-6	08/30/2002	GROUNDWATEF	175.00	185.00	43.76	53.76	E314.0	PERCHLORATE	
TW00-4DA-A	00-4D	08/29/2002	GROUNDWATEF		75.00		45.60	E314.0	PERCHLORATE	
TW01-2-A	01-2	08/23/2002	GROUNDWATEF					E314.0	PERCHLORATE	
W02-01M1A	02-01	08/24/2002	GROUNDWATEF	95.00	105.00	42.90	52.90	E314.0	PERCHLORATE	
W02-03M1A	02-03	08/24/2002	GROUNDWATEF	130.00	140.00	86.10	96.10	E314.0	PERCHLORATE	
W02-03M2A	02-03	08/24/2002	GROUNDWATEF	92.00	102.00	48.15	58.15	E314.0	PERCHLORATE	
W02-05M2A	02-05	08/24/2002	GROUNDWATEF	92.00	102.00	63.41	73.41	E314.0	PERCHLORATE	
W02-07M3D	02-07	08/29/2002	GROUNDWATEF	47.00	57.00	13.00	23.00	E314.0	PERCHLORATE	
W02-08M2A	02-08	08/28/2002	GROUNDWATEF	82.00	87.00	60.65	65.65	E314.0	PERCHLORATE	
W02-08M3A	02-08	08/27/2002	GROUNDWATEF	62.00	67.00	40.58	45.58	E314.0	PERCHLORATE	
W02-09M1A	02-09	08/29/2002	GROUNDWATEF	74.00	84.00	65.26	75.26	E314.0	PERCHLORATE	
W02-09M2A	02-09	08/29/2002	GROUNDWATEF	59.00	69.00	50.30	60.30	E314.0	PERCHLORATE	
W02-12M2A	02-12	08/29/2002	GROUNDWATEF	94.00	104.00	43.21	53.21	E314.0	PERCHLORATE	
W02-13M2A	02-13	08/28/2002	GROUNDWATEF	83.00	93.00	44.20	54.20	E314.0	PERCHLORATE	
W02-13M3A	02-13	08/28/2002	GROUNDWATEF	68.00	78.00	28.30	38.30	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 BGS
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 08/16/02 - 09/6/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W130SSA	MW-130	08/27/2002	GROUNDWATEF	103.00	113.00	0.00	10.00	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W130SSA	MW-130	08/27/2002	GROUNDWATEF	103.00	113.00	0.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W130SSA	MW-130	08/27/2002	GROUNDWATEF	103.00	113.00	0.00	10.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANIT	YES
W228M2A	MW-228	08/29/2002	GROUNDWATEF	126.00	136.00	20.00	30.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W228M2A	MW-228	08/29/2002	GROUNDWATEF	126.00	136.00	20.00	30.00	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES
W02-09M2A	02-09	08/29/2002	GROUNDWATEF	59.00	69.00	50.30	60.30	OC21V	CHLOROFORM	
W02-09SSA	02-09	08/29/2002	GROUNDWATEF	7.00	17.00	0.00	10.00	OC21V	CHLOROFORM	
W02-10M1A	02-10	08/29/2002	GROUNDWATEF	135.00	145.00	94.00	104.00	OC21V	CHLOROFORM	
W02-10M3A	02-10	08/30/2002	GROUNDWATEF	85.00	95.00	43.65	53.65	OC21V	CHLOROFORM	
W02-09M1A	02-09	08/29/2002	GROUNDWATEF	74.00	84.00	65.26	75.26	OC21V	CHLOROFORM	

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
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