WEEKLY PROGRESS UPDATE
FOR DECEMBER 9 – DECEMBER 13, 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 December 9 through December 13, 2002.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of December 13 is summarized in Table 1.

Table 1. Drilling progress as of December 13, 2002

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-157M3	J-3 Range (MW-157M3)	90	74	70-80
MW-251	J-3 Range (J3P-26)	170	165	
MW-252	Demo Area 1 (D1P-18)	150	36	
bgs = below ground surface bwt = below water table				

Completed well installation of MW-157M3, completed drilling of MW-251 (J3P-26), and commenced drilling of MW-252 (D1P-18). 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-251 and MW-252. Groundwater samples were collected from Bourne water supply, monitoring wells and spring, and as part of the December Long Term Groundwater monitoring round. Water samples were collected from the GAC treatment system.

As part of the Munitions Survey Project, soil samples were collected from the J-2 Range Polygon 1 and Polygon 2.

The following are the notes from the December 12, 2002 Technical Team meeting at the IAGWSPO:

Participants

Ben Gregson (IAGWSPO)	Tina Dolen (IAGWSPO)	MAJ Myer (IAGWSPO)
Bill Gallagher (IAGWSPO)	Karen Wilson (IAGWSPO)	Jane Dolan (EPA)
Desiree Moyer (EPA)	Len Pinaud (MADEP)	Mark Panni (MADEP)
Carol Ann Charette (ACE)	Gina Kaso (ACE)	Ed Wise (ACE)
Heather Sullivan (ACE)	Nick Iaiennaro (ACE)	Rob Foti (ACE)
John MacPherson (ACE-phone)	Shelia Holt (ACE)	Rayshanah Muhammad (ACE)
Darrin Smith (ACE)	Marc Grant (AMEC)	Kim Harriz (AMEC)
Maria Pologruto (AMEC)	John Rice (AMEC-phone)	Dick Skryness (ECC-phone)
Mike Goydas (Jacobs)	Chris Ryan (Nobis)	Larry Hudgins (Tetra Tech)
Carla Buriks (TT-phone)	Kevin Hood (Univ. of Conn.)	

Punchlist Items

#3 Determine status of sampling the Gallo Skating Rink well (Guard). Attempt will be made to sample the well next week.

#5 Provide data validation summary for MW-187, MW-188 and MW-215 (Corps). Additional data to be emailed by the end of the week.

#10 Provide EPA with costs and option selection for Scrap staging area run-off water treatment/disposal (Guard). Cost data was provided to the EPA. EPA approved sending of the surface run-off water to Blackstone.

#13 Provide email to Corps with questions regarding the MW-219 Corrective Action Report (EPA/MADEP). EPA has requested additional information from the laboratory. Len Pinaud (MADEP) indicated the DEP Water Supply Division is evaluating whether they wish to provide comments.

Archive Search Update

Carla Buriks (Tetra Tech) provided the monthly ASR Update.

- Interview activities/issues will be discussed in an after meeting.
- As a follow-up to some interviews, the Indian Head Naval Base, Maryland was contacted regarding information on OE activities. Representatives at the base referred Tetra Tech to Tindel Air Force Base. Information requests will be sent to both bases. Jane Dolan (EPA) requested the opportunity to the review the draft letter prior to transmittal. Draft of the letter to be tracked on the Punchlist.
- ASR Response to Comments and ASR Data Archive link are on schedule to be submitted to the agencies on 12/16.
- Update of the 104(e) response tracking table should be available Monday, 12/16. Six sets of recent 104(e) responses have been copied for distribution to the agencies.

CDC Destruction Schedule

Nick Iaiennaro (ACE) provided an update on the CDC destruction schedule.

- Based on the CDC destruction capability of current incident ammunition, the following time frame is estimated to destroy the current inventory of CDC-capable munitions based on 25 shots per day:
  - 32 shots required to exhaust ASP CDC-capable items,
  - 71 shots required to exhaust CDC Bunker Inventory (complete 12/13).

  - 830 shots required to exhaust awaiting CDC-capable items (includes all J-2 Polygons discovered as of 12/11).
  - 852 total shots required to exhaust ASP and awaiting CDC-capable items.
  - 8 weeks, 2.53 days, beginning next week, required to exhaust all items (should factor 10-15% for contingency due to weather, etc.). That is approximately 4 weeks more time than currently scheduled for the CDC at MMR.
  - 31 Jan 03 is the scheduled departure date of CDC to Spring Valley.
- Based on delays at Spring Valley, the CDC may be able to remain at MMR. Gina Kaso (ACE) explained the current contract needs to be modified to keep the CDC until 01/31/03. Closer to 01/31/03 and if Spring Valley has a postponement, the budget will be reviewed to determine if additional work can be accommodated for the CDC.
- The priorities for destruction of items are 1) U Range items, 2) CS-19 items, 3) ASP items and 4) J-2 Polygon items. The priority and shots required for J-2 Polygon items are: 1) 417, 105MM Cartridge Cases with live primers; 60 shots, 2.5 days; 2) 192 Underground Sound Practice Signals, MK64; 192 shots, 2 weeks; 3) 9,475 20MM Projectile, potential HEI M56; 3 weeks, 3.25 days.
- There is plenty of storage space for items if the CDC cannot remain past the scheduled departure date.
- To date, 1,759 CDC-capable items have been destroyed during the current operational period, out of an approximate total 16,000.
- A list of items to be destroyed will be provided shortly.
- The Range Control log inventory has been permitted for release and will be distributed shortly.
- The list of items with components containing perchlorate will be emailed. Several hard copies were distributed at the Tech meeting.

MSP3 and Southeast Ranges Update

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

J-2 Range Polygons. Crews completed Polygon 2 excavations, currently working on Polygon 1B, a burn/burial area. Polygon 1 excavations should be finished by next week. A final update of discoveries will likely be provided after the Christmas holiday. BIPs of several items are scheduled for next week.

U Range. The agencies approved of the excavation of 10 anomalies proposed by the Guard; excavation of these anomalies was completed yesterday, 12/11. The anomalies consisted of single 3.5-inch rockets and LAW subcal rounds; no burial or burned items were uncovered. A Schonstedt survey of the area south of the berm is being conducted today. The meandering Path EM61 survey was completed last week. This data will be combined for evaluation and selection of 10 anomaly picks. The anomaly picks potentially could be available for agency review by Monday, 12/16.

- Gina Kaso (ACE) indicated that sufficient funds should be available to conduct the excavations.
- Approximately 350 rockets with suspect fuzes are scheduled to be blown-in-place next week.
- U Range fieldwork is restricted on Monday/Friday (12-16/20) next week due to hunting. Work can proceed in the J-2 Range Polygon 1 area.

Drilling – J3P-26 (MW-251) is waiting on profile results. The access road to J1P-18 (MW-253) needs repairs, but the drill rig is ready to mobilize to the drilling location.

ROA Status and Monitor Well Drilling Schedule Table

Heather Sullivan (ACE) gave a brief update on the status of ROAs and drilling schedule. A 1-page Drilling Schedule and a 3-page ROA Status Table were emailed today and distributed at the meeting.

- The current or pending, ROA-approved locations for the three drill rigs and one geoprobe are D1P-18, KP-2, J1P-18, and J3P-26. There are two ROA approved locations beyond these four.
- The geoprobe rig was only able to advance to 170 feet bgs at J3P-26, short of the scoped depth of 200 ft bgs, due to hard, subsurface drilling conditions. Further decision on this location is pending, based on the profile results. However, John Rice (AMEC) pointed out it is unlikely that the borehole can be advanced further using the geoprobe.
- ROA approval was received yesterday 12/11 for D1P-19. Proposed Demo 2 wells, J1P-16, WS4P-3, and WS4P-4 received ROA approval from Natural Heritage last week; still waiting on SHPO approval.
- The ROA for CIAP-27 was submitted this week. An ROA for the Demo 2 trench was recently prepared and will be submitted to NH/SHPO pending Karen Wilson's (IAGWSPO) review.
- Desiree Moyer (EPA) questioned about the possible accommodation of a fourth drill rig to speed up the drilling schedule. Ms. Sullivan explained there were not enough ROA-approved drilling locations to warrant the mobilization of a fourth drill rig. Maria Pologruto (AMEC) confirmed that the current number of drill rigs provided the most efficient use of resources while minimizing standby time. Len Pinaud (MADEP) suggested that the agency Remedial Project Managers should get together to discuss priorities and the number of drill rigs to see when/where the investigation schedule could be expedited.
- AMEC is currently working on particle tracks, as requested by Jane Dolan, for some new J-3 Range wells. The particle tracks will be available next week.

Bourne Update

Bill Gallagher (IAGWSPO) summarized recent Bourne-related activities.

- Sampling of Bourne supply wells continues this week with low-level detections of perchlorate in WS-3 (0.37 ug/L) and WS-4 (0.35 ug/L). These wells have had low level perchlorate detections in the past. The Bourne Water District had expressed interest in the reanalysis of these samples. John Rice (AMEC) explained to the BWD in a phone call yesterday evening that a reanalysis with a non-detect result would not mean that the original detections would be corrected. Therefore, the BWD indicated they would not request reanalysis of these samples.
- Weekly sampling of the Bourne-area wells continues. Monthly sampling of the Bourne monitoring wells has resumed.
- The BWD/Haley & Ward were holding comment of the Draft Bourne Perchlorate Response Plan until 12/18, pending a meeting with the Board. Agency comments have not been received. Desiree Moyer indicated EPA comments would be forwarded today. Len Pinaud indicated MADP comments would be forwarded tomorrow, 12/13.
- The Guard forwarded a letter to the BWD and Haley & Ward and the agencies proposing to discontinue sampling of wells for explosives and VOCs where they had not been detected, and biweekly sampling of supply wells WS-3 and WS-4. The BWD agreed to the Guard's proposal. The Guard is still awaiting agency comment. Heather Sullivan reforwarded the letter via email to the agencies earlier this week.

- Regarding the Corrective Action Report (CAR) on MW-219, as requested by EPA, information on a 0.5 ppb perchlorate standard is being compiled by AMEC and will be provided next week. No comment on the report had been received from MADEP. Mr. Pinaud explained the request for comment had been forward to the Boston office of MADEP Water Supply and they were evaluating whether or not to provide comment. Mr. Pinaud could forward the original email with questions that was sent to him from Jeff Rose.

Documents and Schedules

Marc Grant (AMEC) led a discussion of document priorities. A 6-page handout was distributed including scheduling issues overview, document status table, and 3-month look-ahead schedule.

MSP3 J-1 Polygon Report. 1st priority. Waiting EPA comments. Ms. Dolan indicated EPA comments would be sent early next week.

MSP3 Gun/Mortar Workplan RCL. 2nd priority. Waiting on EPA Comments. Ms. Moyer indicated EPA was ready to schedule the CRM. DEP to have comments shortly. Heather Sullivan to schedule a CRM for Friday, 12/20.

MSP3 J-3 Polygon Report. 3rd priority. Waiting on EPA/DEP comments. Ms. Dolan indicated EPA comments were possible for next week.

Bourne Perchlorate Response Plan. 4th priority. Awaiting comments. Ms. Moyer indicated EPA comment would be sent today. Mr. Pinaud indicated MADEP comments would be forwarded tomorrow, 12/13.

LTGM Supplemental Plan MOR. 5th priority. EPA approval was received yesterday, 12/10. Still waiting on DEP approval.

J1/J3/L Additional Delineation Report MOR. Waiting on EPA approval.

Method Comparability Study for Explosives in Soil. Waiting on EPA comment.

Soil Background Report CRM. Ms. Moyer to check if still on for next week.

HUTA1 Report. Response to Comment Letter sent 8/28. Ms. Moyer indicated EPA comments may be forwarded by next Friday, 12/20.

Laboratory Fate and Transport Study CRM. Still waiting to hear from EPA as to when the CRM can be scheduled.

HUTA2 Report. Need approval on MOR and combined, revised document (11/21 submittal) from both EPA/MADEP.

Miscellaneous

Monthly BIP cumulative table was distributed.

- Jane Dolan requested that the Guard assess the need to pilot test J-3 Range groundwater for perchlorate. This request to be tracked as a Punchlist item.
- Ms. Dolan requested that data for wells MW-125, MW-128, MW-127, and MW-158 on IART Figure 5 be checked.
- Ms. Dolan requested that explosive data for MW-104 and MW-105 be checked, as she could not locate it.
- Mr. Gallagher announced a CIA perchlorate plume map should be available in a few weeks.

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 the following detections:

Table 3 includes detections from the following areas:

<u>Bourne Area</u>

- Groundwater samples from 1-88A and 02-13M1, M3 had detections of perchlorate. The results were similar to the previous sampling rounds.

- Groundwater samples from 02-12M1 had detections of toluene. This is the first detection of toluene in this well.

- Groundwater samples from the Bourne spring well had detections of acetone and toluene. These are the first detections of acetone and toluene in this well.

- Six groundwater samples had detections of chloroform.

<u>Central Impact Area and Downgradient</u>

- Groundwater samples from 58MW0001; 58MW0002; 58MW0007B; 58MW0009E; 58MW0011D; 58MW0018A; MW-98M1, S; and MW-112M1, M2 had detections of explosives that were confirmed by PDA spectra. The results were similar to the previous sampling rounds.

- Groundwater samples from MW-201M3 had a detection of RDX that was confirmed by PDA spectra. This is the first detection of RDX in this well.

- Groundwater samples from MW-224S had a detection of PETN that was not confirmed by PDA spectra. PETN has never been a validated detection in this well.

Southeast Ranges

- Groundwater samples from MW-147M1, M2; MW-153M1; MW-157M2; MW-166M1, M2; and MW-198M3, M4 had detections of explosives that were confirmed by PDA spectra. The results were similar to the previous sampling rounds.

- Groundwater samples from MW-131S had a detection of nitroglycerin that was not confirmed by PDA spectra. Nitroglycerin has never been a validated detection in this well.

- Groundwater samples from MW-136S had detections of HMX, RDX, and PETN. The detections of RDX and HMX were confirmed by PDA spectra and the results were similar to the previous sampling rounds. The detection of PETN was not confirmed by PDA spectra and has never been a validated detection in this well.

- Profile samples from MW-251 (J3P-26) had detections of VOCs and perchlorate. Perchlorate was detected in three intervals between 95 and 105 feet and at 125 feet below the water table. Well screens will be set at the depth corresponding to the screen at MW-171M2 (78 to 83 ft bwt), at the depth (93 to 98 ft bwt) of the shallowest perchlorate detection, and at the depth (123 to 128 ft bwt) of the deepest perchlorate detection.

DELIVERABLES SUBMITTED

Monthly Progress Report for November 2002	12/09/2002
Draft Summary Report – January - March 2002 UXO Detonations	12/09/2002
Draft Final COC List for the Gun and Mortar Firing Positions	12/10/2002
Weekly Progress Report for December 2 – December 6, 2002	12/13/2002

3. SCHEDULED ACTIONS

Scheduled actions for the week of December 15 include complete well installation of MW-251 (J3P-26), continue drilling of MW-252 (D1P-18), and commence drilling of MW-253 (J1P-18) and MW-254 (KP-2). Groundwater sampling at the Bourne water supply and monitoring wells and as part of the December LTGM round will continue. Sampling of the Gallo Skating Rink well will be attempted.

4. 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. Drilling at D1P-18 and UXO clearance at D1P-19 commenced this week.

TABLE 2
SAMPLING PROGRESS
12/08/2002 - 12/15/2002

OGDEN_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
58MW0011D-E	FIELDQC	12/09/2002	FIELDQC	0	0		
58MW0016A-E	FIELDQC	12/11/2002	FIELDQC	0	0		
97-2B-E	FIELDQC	12/12/2002	FIELDQC	0	0		
G251DOE	FIELDQC	12/09/2002	FIELDQC	0	0		
G251DOT	FIELDQC	12/09/2002	FIELDQC	0	0		
G252DAE	FIELDQC	12/12/2002	FIELDQC	0	0		
G252DDE	FIELDQC	12/13/2002	FIELDQC	0	0		
TW00-4DB-T	FIELDQC	12/13/2002	FIELDQC	0	0		
TW1-88A-E	FIELDQC	12/10/2002	FIELDQC	0	0		
TW1-88B-E	FIELDQC	12/13/2002	FIELDQC	0	0		
W02-07M2T	FIELDQC	12/11/2002	FIELDQC	0	0		
W02-13M2F	FIELDQC	12/10/2002	FIELDQC	0	0		
W02-15M1T	FIELDQC	12/12/2002	FIELDQC	0	0		
4036000-01G-A	4036000-01G	12/10/2002	GROUNDWATER			6	12
4036000-03G-A	4036000-03G	12/10/2002	GROUNDWATER	50	60	6	12
4036000-04G-A	4036000-04G	12/10/2002	GROUNDWATER			6	12
4036000-06G-A	4036000-06G	12/10/2002	GROUNDWATER			6	12
58MW0009C-A	58MW0009C	12/09/2002	GROUNDWATER	168.21	173.21	41	47
58MW0009E-A	58MW0009E	12/09/2002	GROUNDWATER	133.4	138.4	6.5	11.5
58MW0011D-A	58MW0011D	12/09/2002	GROUNDWATER	175.4	180.4	49.5	54.5
58MW0011E-A	58MW0011E	12/09/2002	GROUNDWATER	145	150	15.7	20.7
58MW0011E-D	58MW0011E	12/09/2002	GROUNDWATER	145	150	15.7	20.7
58MW0011E-D	58MW0011E	12/09/2002	GROUNDWATER	145	150	15.7	20.7
58MW0016A-A	58MW0016A	12/11/2002	GROUNDWATER	175.9	185.05	54.22	63.22
58MW0016B-A	58MW0016B	12/11/2002	GROUNDWATER	151.09	160.74	28.5	38.5
58MW0018A-A	58MW0018A	12/11/2002	GROUNDWATER	202.7	211.7	60.85	69.85
58MW0018B-A	58MW0018B	12/10/2002	GROUNDWATER	175.9	185.58	34.55	44.55
58MW0020A-A	58MW0020A	12/10/2002	GROUNDWATER		248	0	88
58MW0020B-A	58MW0020B	12/10/2002	GROUNDWATER		205	0	43
97-2B-A	97-2B	12/12/2002	GROUNDWATER		121.7	0	75.4
97-2B-D	97-2B	12/12/2002	GROUNDWATER		121.7	0	75.4
97-2C-A	97-2C	12/10/2002	GROUNDWATER		132	0	68
97-2D-A	97-2D	12/11/2002	GROUNDWATER		115.4	0	82.9
97-2E-A	97-2E	12/12/2002	GROUNDWATER		94.5	0	49.8

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
12/08/2002 - 12/15/2002

OGDEN_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
97-2F-A	97-2F	12/11/2002	GROUNDWATER		120	0	76.7
97-2G-A	97-2G	12/11/2002	GROUNDWATER		126.8	0	73.7
SPRING1-A	SPRING1	12/10/2002	GROUNDWATER			0	0
TW00-4DA-A	00-4D	12/13/2002	GROUNDWATER		75	0	0
TW00-4DA-D	00-4D	12/13/2002	GROUNDWATER		75	0	0
TW00-4DB-A	00-4D	12/13/2002	GROUNDWATER		85	0	0
TW00-6-A	00-6	12/13/2002	GROUNDWATER	36	42	9.6	15.6
TW1-88A-A	1-88	12/10/2002	GROUNDWATER		102.9	0	67.4
W02-01M1A	02-01	12/10/2002	GROUNDWATER	95	105	42.9	52.9
W02-01M1A	02-02	12/10/2002	GROUNDWATER	94.5	104.5	42.65	52.65
W02-01M2A	02-01	12/11/2002	GROUNDWATER	83	93	30.9	40.9
W02-01M2A	02-02	12/11/2002	GROUNDWATER	49.5	59.5	0	10
W02-02M1A	02-02	12/11/2002	GROUNDWATER	114.5	124.5	63.5	73.5
W02-02M2A	02-02	12/11/2002	GROUNDWATER	94.5	104.5	42.65	52.65
W02-02M2D	02-02	12/11/2002	GROUNDWATER	94.5	104.5	42.65	52.65
W02-02SSA	02-02	12/11/2002	GROUNDWATER	49.5	59.5	0	10
W02-05M1A	02-05	12/12/2002	GROUNDWATER	110	120	81.44	91.44
W02-05M2A	02-05	12/13/2002	GROUNDWATER	92	102	63.41	73.41
W02-05M3A	02-05	12/13/2002	GROUNDWATER	70	80	41.37	51.37
W02-07M1A	02-07	12/11/2002	GROUNDWATER	135	145	101.14	111.14
W02-07M1A	02-07	12/11/2002	GROUNDWATER	135	145	101.14	111.14
W02-07M2A	02-07	12/11/2002	GROUNDWATER	107	117	72.86	82.86
W02-07M3A	02-07	12/11/2002	GROUNDWATER	47	57	13	23
W02-12M1A	02-12	12/10/2002	GROUNDWATER	109	119	58.35	68.35
W02-12M2A	02-12	12/10/2002	GROUNDWATER	94	104	43.21	53.21
W02-12M3A	02-12	12/11/2002	GROUNDWATER	79	89	28.22	38.22
W02-12M3D	02-12	12/11/2002	GROUNDWATER	79	89	28.22	38.22
W02-13M1A	02-13	12/10/2002	GROUNDWATER	98	108	58.33	68.33
W02-13M2A	02-13	12/10/2002	GROUNDWATER	83	93	44.2	54.2
W02-13M3A	02-13	12/10/2002	GROUNDWATER	68	78	28.3	38.3
W02-15M1A	02-15	12/12/2002	GROUNDWATER	125	135	75.63	85.63
W02-15M2A	02-15	12/12/2002	GROUNDWATER	101	111	51.5	61.5
W02-15M3A	02-15	12/12/2002	GROUNDWATER	81	91	31.4	41.4
W125M1A	MW-125	12/09/2002	GROUNDWATER	232	242	182	192

Profiling methods include: Volatiles and Explosives
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TABLE 2
SAMPLING PROGRESS
12/08/2002 - 12/15/2002

OGDEN_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W125SSA	MW-125	12/09/2002	GROUNDWATER	50	60	0	10
W128M2A	MW-128	12/09/2002	GROUNDWATER	104	114	17	27
W128M2D	MW-128	12/09/2002	GROUNDWATER	104	114	17	27
W128SSA	MW-128	12/09/2002	GROUNDWATER	87	97	0	10
W132SSA	MW-132	12/10/2002	GROUNDWATER	37	47	0	10
W166M2A	MW-166	12/09/2002	GROUNDWATER	150	160	44	54
W166M3A	MW-166	12/09/2002	GROUNDWATER	125	135	19	29
W45M2A	MW-45	12/09/2002	GROUNDWATER	110	120	18	28
W80DDA	MW-80	12/12/2002	GROUNDWATER	158	168	114	124
W80M1A	MW-80	12/12/2002	GROUNDWATER	130	140	86	96
W80M2A	MW-80	12/12/2002	GROUNDWATER	100	110	56	66
W80M3A	MW-80	12/12/2002	GROUNDWATER	70	80	26	36
W80SSA	MW-80	12/12/2002	GROUNDWATER	43	53	0	10
W81DDA	MW-81	12/12/2002	GROUNDWATER	184	194	156	166
W81M1A	MW-81	12/12/2002	GROUNDWATER	128	138	100	110
W81M2A	MW-81	12/12/2002	GROUNDWATER	83	93	55	65
W81M3A	MW-81	12/12/2002	GROUNDWATER	53	58	25	30
DW121002-NV	GAC WATER	12/10/2002	IDW	0	0		
DW121202-NV	GAC WATER	12/12/2002	IDW	0	0		
G251DOA	MW-251	12/09/2002	PROFILE	150	150	144.95	144.95
G251DPA	MW-251	12/09/2002	PROFILE	160	160	154.95	154.95
G251DQA	MW-251	12/09/2002	PROFILE	170	170	164.95	164.95
G252DAA	MW-252	12/12/2002	PROFILE	120	120	6.5	6.5
G252DBA	MW-252	12/12/2002	PROFILE	130	130	16.5	16.5
G252DCA	MW-252	12/13/2002	PROFILE	140	140	26.5	26.5
G252DCD	MW-252	12/13/2002	PROFILE	140	140	26.5	26.5
G252DDA	MW-252	12/13/2002	PROFILE	150	150	36.5	36.5
J2.F.T2E.XC1.1.	J2 TARGET 2E	12/09/2002	SOIL	0	7		
J2.F.T2E.XC1.2.	J2 TARGET 2E	12/09/2002	SOIL	7	7.25		
J2.F.T2E.XC1.3.	J2 TARGET 2E	12/09/2002	SOIL	1	1.25		
J2.F.T2B.XC1.1.	J2 TARGET 2B	12/10/2002	SOIL	0	4		
J2.F.T2B.XC1.2.	J2 TARGET 2B	12/10/2002	SOIL	4	4.25		
J2.F.T2B.XC1.2.	J2 TARGET 2B	12/10/2002	SOIL	4	4.25		
J2.F.T2B.XC1.3.	J2 TARGET 2B	12/10/2002	SOIL	1	1.25		

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
12/08/2002 - 12/15/2002

OGDEN_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
J2.F.T1A.XC1.1.	J2 TARGET 1A	12/11/2002	SOIL	0	6		
J2.F.T1A.XC1.2.	J2 TARGET 1A	12/11/2002	SOIL	1	6		
J2.F.T1A.XC1.3.	J2 TARGET 1A	12/11/2002	SOIL	6	6.25		

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 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 11/15/02 - 12/14/02

OGDEN_ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
58MW0001-A	58MW0001	12/06/2002	GROUNDWATER	121.8	126.8	0	5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
58MW0001-A	58MW0001	12/06/2002	GROUNDWATER	121.8	126.8	0	5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
58MW0002-A	58MW002	12/05/2002	GROUNDWATER	121.2	126.2	0	5	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
58MW0002-A	58MW002	12/05/2002	GROUNDWATER	121.2	126.2	0	5	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
58MW0002-A	58MW002	12/05/2002	GROUNDWATER	121.2	126.2	0	5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
58MW0002-A	58MW002	12/05/2002	GROUNDWATER	121.2	126.2	0	5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
58MW0007B-A	58MW0007B	12/04/2002	GROUNDWATER	187.7	192.7	49	54	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
58MW0009E-A	58MW0009E	12/09/2002	GROUNDWATER	133.4	138.4	6.5	11.5	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
58MW0009E-A	58MW0009E	12/09/2002	GROUNDWATER	133.4	138.4	6.5	11.5	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
58MW0009E-A	58MW0009E	12/09/2002	GROUNDWATER	133.4	138.4	6.5	11.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
58MW0009E-A	58MW0009E	12/09/2002	GROUNDWATER	133.4	138.4	6.5	11.5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
58MW0011D-A	58MW0011D	12/09/2002	GROUNDWATER	175.4	180.4	49.5	54.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
58MW0018A-A	58MW0018	12/11/2002	GROUNDWATER	202.7	211.7	60.85	69.85	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
SPRING1-A	SPRING1	12/10/2002	GROUNDWATER			0	0	OC21V	ACETONE	
SPRING1-A	SPRING1	12/10/2002	GROUNDWATER			0	0	OC21V	TOLUENE	
TW1-88A-A	1-88	12/03/2002	GROUNDWATER		102.9	0	67.4	E314.0	PERCHLORATE	
TW1-88A-A	1-88	12/10/2002	GROUNDWATER		102.9	0	67.4	E314.0	PERCHLORATE	
W02-12M1A	02-12	12/03/2002	GROUNDWATER	109	119	58.35	68.35	OC21V	TOLUENE	
W02-12M1A	02-12	12/10/2002	GROUNDWATER	109	119	58.35	68.35	OC21V	TOLUENE	
W02-13M1A	02-13	12/05/2002	GROUNDWATER	98	108	58.33	68.33	E314.0	PERCHLORATE	
W02-13M3A	02-13	12/10/2002	GROUNDWATER	68	78	28.3	38.3	E314.0	PERCHLORATE	
W112M1A	MW-112	12/06/2002	GROUNDWATER	195	205	56	66	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES

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SAMPLES COLLECTED 11/15/02 - 12/14/02

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W112M2A	MW-112	12/06/2002	GROUNDWATER	165	175	26	36	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W131SSA	MW-131	12/06/2002	GROUNDWATER	96	106	0	10	8330N	NITROGLYCERIN	NO
W136SSA	MW-136	12/06/2002	GROUNDWATER	107	117	0	10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W136SSA	MW-136	12/06/2002	GROUNDWATER	107	117	0	10	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
W136SSA	MW-136	12/06/2002	GROUNDWATER	107	117	0	10	8330N	PENTAERYTHRITOL TETRANITRATE	NO
W147M1A	MW-147	12/03/2002	GROUNDWATER	167	177	94	104	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W147M1A	MW-147	12/03/2002	GROUNDWATER	167	177	94	104	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
W147M2A	MW-147	12/03/2002	GROUNDWATER	150	160	77	87	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W147M2A	MW-147	12/03/2002	GROUNDWATER	150	160	77	87	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
W153M1A	MW-153	12/02/2002	GROUNDWATER	199	209	108	118	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W157M2A	MW-157	12/04/2002	GROUNDWATER	110	120	100	110	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W166M1A	MW-166	12/06/2002	GROUNDWATER	218	223	112	117	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W166M2A	MW-166	12/09/2002	GROUNDWATER	150	160	44	54	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W198M3A	MW-198	12/05/2002	GROUNDWATER	100	105	78.5	83.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W198M3A	MW-198	12/05/2002	GROUNDWATER	100	105	78.5	83.5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
W198M4A	MW-198	12/05/2002	GROUNDWATER	70	75	48.4	53.4	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W198M4A	MW-198	12/05/2002	GROUNDWATER	70	75	48.4	53.4	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
W201M3A	MW-201	12/06/2002	GROUNDWATER	266	276	66.5	76.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W224SSA	MW-224	12/06/2002	GROUNDWATER	115	125	0	10	8330N	PENTAERYTHRITOL TETRANITRATE	NO
W98M1A	MW-98	12/02/2002	GROUNDWATER	164	174	26	36	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W98SSA	MW-98	12/02/2002	GROUNDWATER	137	147	0	10	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
SPRING1-A	SPRING1	12/10/2002	GROUNDWATER			0	0	OC21V	CHLOROFORM	

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SAMPLES COLLECTED 11/15/02 - 12/14/02

OGDEN_ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W02-07M1A	02-07	12/11/2002	GROUNDWATER	135	145	101.14	111.14	OC21V	CHLOROFORM	
W02-07M2A	02-07	12/11/2002	GROUNDWATER	107	117	72.86	82.86	OC21V	CHLOROFORM	
W02-07M3A	02-07	12/11/2002	GROUNDWATER	47	57	13	23	OC21V	CHLOROFORM	
W02-12M1A	02-12	12/03/2002	GROUNDWATER	109	119	58.35	68.35	OC21V	CHLOROFORM	
W02-12M1A	02-12	12/10/2002	GROUNDWATER	109	119	58.35	68.35	OC21V	CHLOROFORM	
G251DAA	MW-251	12/05/2002	PROFILE	10	10	4.95	4.95	OC21V	ACETONE	
G251DAA	MW-251	12/05/2002	PROFILE	10	10	4.95	4.95	OC21V	TOLUENE	
G251DAA	MW-251	12/05/2002	PROFILE	10	10	4.95	4.95	OC21V	XYLENES, TOTAL	
G251DBA	MW-251	12/05/2002	PROFILE	20	20	14.95	14.95	OC21V	ACETONE	
G251DBA	MW-251	12/05/2002	PROFILE	20	20	14.95	14.95	OC21V	CHLOROFORM	
G251DBA	MW-251	12/05/2002	PROFILE	20	20	14.95	14.95	OC21V	TOLUENE	
G251DBA	MW-251	12/05/2002	PROFILE	20	20	14.95	14.95	OC21V	XYLENES, TOTAL	
G251DCA	MW-251	12/05/2002	PROFILE	30	30	24.95	24.95	OC21V	CHLOROFORM	
G251DCA	MW-251	12/05/2002	PROFILE	30	30	24.95	24.95	OC21V	TOLUENE	
G251DCA	MW-251	12/05/2002	PROFILE	30	30	24.95	24.95	OC21V	XYLENES, TOTAL	
G251DDA	MW-251	12/05/2002	PROFILE	40	40	34.95	34.95	OC21V	ACETONE	
G251DDA	MW-251	12/05/2002	PROFILE	40	40	34.95	34.95	OC21V	CHLOROFORM	
G251DDA	MW-251	12/05/2002	PROFILE	40	40	34.95	34.95	OC21V	TOLUENE	
G251DDA	MW-251	12/05/2002	PROFILE	40	40	34.95	34.95	OC21V	XYLENES, TOTAL	
G251DEA	MW-251	12/05/2002	PROFILE	50	50	44.95	44.95	OC21V	CHLOROFORM	
G251DEA	MW-251	12/05/2002	PROFILE	50	50	44.95	44.95	OC21V	TOLUENE	
G251DEA	MW-251	12/05/2002	PROFILE	50	50	44.95	44.95	OC21V	XYLENES, TOTAL	

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DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 11/15/02 - 12/14/02

OGDEN_ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G251DFA	MW-251	12/05/2002	PROFILE	60	60	54.95	54.95	OC21V	CHLOROFORM	
G251DFA	MW-251	12/05/2002	PROFILE	60	60	54.95	54.95	OC21V	TOLUENE	
G251DFA	MW-251	12/05/2002	PROFILE	60	60	54.95	54.95	OC21V	XYLENES, TOTAL	
G251DGA	MW-251	12/05/2002	PROFILE	70	70	64.95	64.95	OC21V	CHLOROFORM	
G251DGA	MW-251	12/05/2002	PROFILE	70	70	64.95	64.95	OC21V	TOLUENE	
G251DGA	MW-251	12/05/2002	PROFILE	70	70	64.95	64.95	OC21V	XYLENES, TOTAL	
G251DHA	MW-251	12/06/2002	PROFILE	80	80	74.95	74.95	OC21V	ACETONE	
G251DHA	MW-251	12/06/2002	PROFILE	80	80	74.95	74.95	OC21V	BENZENE	
G251DHA	MW-251	12/06/2002	PROFILE	80	80	74.95	74.95	OC21V	CHLOROFORM	
G251DHA	MW-251	12/06/2002	PROFILE	80	80	74.95	74.95	OC21V	ETHYLBENZENE	
G251DHA	MW-251	12/06/2002	PROFILE	80	80	74.95	74.95	OC21V	TOLUENE	
G251DHA	MW-251	12/06/2002	PROFILE	80	80	74.95	74.95	OC21V	XYLENES, TOTAL	
G251DIA	MW-251	12/06/2002	PROFILE	90	90	84.95	84.95	OC21V	ACETONE	
G251DIA	MW-251	12/06/2002	PROFILE	90	90	84.95	84.95	OC21V	CHLOROFORM	
G251DIA	MW-251	12/06/2002	PROFILE	90	90	84.95	84.95	OC21V	ETHYLBENZENE	
G251DIA	MW-251	12/06/2002	PROFILE	90	90	84.95	84.95	OC21V	TOLUENE	
G251DIA	MW-251	12/06/2002	PROFILE	90	90	84.95	84.95	OC21V	XYLENES, TOTAL	
G251DJA	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	OC21V	ACETONE	
G251DJA	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	OC21V	CHLOROFORM	
G251DJA	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	E314.0	PERCHLORATE	
G251DJA	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	OC21V	TOLUENE	
G251DJA	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	OC21V	XYLENES, TOTAL	

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OGDEN_ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G251DJD	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	OC21V	CHLOROFORM	
G251DJD	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	E314.0	PERCHLORATE	
G251DJD	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	OC21V	TOLUENE	
G251DJD	MW-251	12/06/2002	PROFILE	100	100	94.95	94.95	OC21V	XYLENES, TOTAL	
G251DKA	MW-251	12/06/2002	PROFILE	110	110	104.95	104.95	OC21V	CHLOROFORM	
G251DKA	MW-251	12/06/2002	PROFILE	110	110	104.95	104.95	E314.0	PERCHLORATE	
G251DKA	MW-251	12/06/2002	PROFILE	110	110	104.95	104.95	OC21V	TOLUENE	
G251DKA	MW-251	12/06/2002	PROFILE	110	110	104.95	104.95	OC21V	XYLENES, TOTAL	
G251DLA	MW-251	12/06/2002	PROFILE	120	120	114.95	114.95	OC21V	TOLUENE	
G251DLA	MW-251	12/06/2002	PROFILE	120	120	114.95	114.95	OC21V	XYLENES, TOTAL	
G251DMA	MW-251	12/06/2002	PROFILE	130	130	124.95	124.95	OC21V	CHLOROFORM	
G251DMA	MW-251	12/06/2002	PROFILE	130	130	124.95	124.95	E314.0	PERCHLORATE	
G251DMA	MW-251	12/06/2002	PROFILE	130	130	124.95	124.95	OC21V	TOLUENE	
G251DNA	MW-251	12/06/2002	PROFILE	140	140	134.95	134.95	OC21V	1,4-DICHLOROBENZENE	
G251DNA	MW-251	12/06/2002	PROFILE	140	140	134.95	134.95	OC21V	ACETONE	
G251DNA	MW-251	12/06/2002	PROFILE	140	140	134.95	134.95	OC21V	BENZENE	
G251DNA	MW-251	12/06/2002	PROFILE	140	140	134.95	134.95	OC21V	CHLOROFORM	
G251DNA	MW-251	12/06/2002	PROFILE	140	140	134.95	134.95	OC21V	TOLUENE	
G251DNA	MW-251	12/06/2002	PROFILE	140	140	134.95	134.95	OC21V	XYLENES, TOTAL	
G251DOA	MW-251	12/09/2002	PROFILE	150	150	144.95	144.95	OC21V	BENZENE	
G251DOA	MW-251	12/09/2002	PROFILE	150	150	144.95	144.95	OC21V	CHLOROFORM	
G251DOA	MW-251	12/09/2002	PROFILE	150	150	144.95	144.95	OC21V	TOLUENE	

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G251DPA	MW-251	12/09/2002	PROFILE	160	160	154.95	154.95	OC21V	ACETONE	
G251DPA	MW-251	12/09/2002	PROFILE	160	160	154.95	154.95	OC21V	BENZENE	
G251DPA	MW-251	12/09/2002	PROFILE	160	160	154.95	154.95	OC21V	TOLUENE	
G251DPA	MW-251	12/09/2002	PROFILE	160	160	154.95	154.95	OC21V	XYLENES, TOTAL	
G251DQA	MW-251	12/09/2002	PROFILE	170	170	164.95	164.95	OC21V	ACETONE	
G251DQA	MW-251	12/09/2002	PROFILE	170	170	164.95	164.95	OC21V	TOLUENE	
G251DQA	MW-251	12/09/2002	PROFILE	170	170	164.95	164.95	OC21V	XYLENES, TOTAL	

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