

**WEEKLY PROGRESS UPDATE  
FOR APRIL 15 – APRIL 19, 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 April 15 through April 19, 2002.

**1. SUMMARY OF ACTIONS TAKEN**

Drilling progress as of April 19 is summarized in Table 1.

<b>Table 1. Drilling progress as of April 19, 2002</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-211	Demo Area 1 (D1P-10)	331	188	
MW-212	Central Impact Area (CIAP-13)	290	82	
MW-213	Central Impact Area (CIAP-26)	246	197	
02-04	Bourne monitoring well	153	105	83-93; 98-108; 123-133
02-08	Bourne monitoring well	130	110	62-67; 82-87; 108-113
02-10	Bourne monitoring well	159	120	
bgs = below ground surface bwt = below water table				

Completed installation of wells 02-04 and 02-08, completed drilling of wells MW-211 (D1P-10), and 02-10, and commenced drilling of MW-212 (CIAP-13) and MW-213 (CIAP-26). Continued well development for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from wells 02-10, MW-211, MW-212, and MW-213. Groundwater samples were collected from Bourne water supply wells, sentry wells, test wells, monitoring wells, and residential wells. Groundwater samples were collected for preliminary rounds at Central Impact Area wells, for additional perchlorate sampling in select Central Impact Area wells, and as part of the April/May Long Term Groundwater Monitoring Plan. Influent and effluent samples were collected for the perchlorate column test in the Central Impact Area. Water samples were collected from the GAC treatment system. Surface water samples were collected from Snake Pond. Soil samples were collected from grids at Former D, Former C, and Former B as part of the Supplemental Phase IIb soil sampling and from Targets as part of the Central Impact Area Target soil sampling.

As part of the Munitions Survey Project, soil samples were collected from the J-2 Range Polygons. A post-detonation soil sample was collected from the HUTA. A wipe sample was taken from UXO in the J-2 Range.

The Guard, EPA, and MADEP had a meeting on April 17 to discuss technical issues, including the following:

### **Attendees**

Ben Gregson (IAGWSPO)	MAJ Bill Meyer (IAGWSPO)	Tina Dolen (IAGWSPO)
Karen Wilson (IAGWSPO)	LTC Bill FitzPatrick (MAARNG)	Dr. Susan Goodfellow (MAARNG)
Mike Jasinski (EPA-phone)	Desiree Moyer (EPA)	Len Pinaud (MADEP)
Mark Panni (MADEP)	Ed Wise (ACE)	Gina Tyo (ACE)
John MacPherson (ACE)	Heather Sullivan (ACE)	Rob Foti (ACE)
John Rice (AMEC)	Kim Harriz (AMEC)	Jay Clausen (AMEC-phone)
Mark Applebee (AMEC)	Larry Hudgins (Tt)	Joe Dauchy (Tt-phone)
Leo Montroy (Tt-phone)	Susan Stewart (Tt-phone)	Dave Williams (MDPH)
Adam Balogh (TRC-phone)	Leo Yuskus (Haley and Ward)	Scott Miller (Haley and Ward)
Ralph Marks (Bourne Water District)		

### **Cultural Resources**

Dr. Susan Goodfellow (MAARNG) presented an overview of Cultural Resources Management program at MMR. Dr. Goodfellow was recently hired to serve as the National Guard Cultural Resources Manager for all Guard facilities in MA, CT, and RI; she will be based at Camp Edwards.

- Dr. Goodfellow described Cultural Resources Management (CRM) as the practice of identifying, evaluating, documenting, and/or preserving significant cultural resources and making recommendations for their future treatment in compliance with federal, state, and local regulations. Cultural resources include those parts of the physical environment – natural and man-made – that have cultural value of some kind to some sociocultural group; cultural resources also include social institutions, beliefs, practices, and perceptions of what makes the human environment culturally comfortable.
- As part of her role as CRM, Dr. Goodfellow is also the Native American Coordinator for the Guard.
- The most important application of CRM for the IAGWSP is that cultural resources (by regulation) need to be taken into account as part of the investigation process (even installing wells). MMR has been historically divided into cultural resource areas of varying sensitivity. Dr. Goodfellow is currently seeking a blanket permit for the activities to be conducted in low sensitivity areas. However, permits for investigation activities in moderate to high sensitivity areas will require a site-specific survey with written report of findings. The State Historic Preservation Office and Tribal Council Office then have a minimum of 30 days to review the report as part of the permit process. This process needs to be accounted for in planning of the investigation.
- Dr. Goodfellow distributed copies of the SOP No. 6 for Inadvertent Discovery of archeological resources and SOP No. 9 for Cultural Resource Management at Camp Edwards. The Cultural Resource Management Plan for the Camp Edwards will be out for public review between May 1 and May 15, 2002.

### **Punchlist Items**

- #2 Provide summary of RAD results for MW-181 (AMEC). Summary write-up and validated data to be provided as soon as possible, so can be distributed at IART meeting. Update to be provided to Mike Jasinski (EPA) by 4/22.
- #6 Provide all test results from chemical monitoring wells for WS-1, -2, -3 (JPO). LTC FitzPatrick (MAARNG) to follow up. MADEP Water Supply may also have results, Len Pinaud (MADEP) to check.

- #7 Provide location planning for Bourne Investigation wells (Corps). Agenda item.
- #8 Provide status of right of entry from Spinnaker residents (Corps). Right-of-entry agreement signed. Snow fence must be placed around drilling site. Hours of operation are restricted to 9:30am – 3pm.

### **Munitions Survey Project Update**

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

**HUTA2**. Karen Wilson (IAGWSPO) conducted a site visit relative to restoration for Transects 2,3,4.

**J Range Polygons**. Two crews working on J-2 Range Polygons. One crew is working on Polygon 2 at the north end of the range. Polygon 2 consists of 24 individual anomalies. Three of these anomalies have been investigated to date. Anomaly A is a burial area that was completed yesterday (4/17). Anomaly B is a minor burn bit (no ordnance discovered), 10 ft by 14 ft and average 3 ft deep (5.5 ft deep in the center). Anomaly E is a burn pit that will be revisited.

A second crew is working on Polygons 26-31, which follow the Sandwich notification protocol. Polygon 30 was completed today; now working on Polygon 26. Polygons 17-25 have also been completed. These polygons contained a variety of scrap items including, steel, concrete, steel plates, minor OE scrap, and railroad ties. Work on Polygon 33, a burial area, was stopped, but will be revisited pending conformance with notification procedures.

- Mike Jasinski (EPA) requested that the monitor well locations be placed on the map that shows the contoured anomalies at Polygon 2.
- Mr. Jasinski requested that Polygon 2 be made a priority; that both excavation crews be dedicated to this area if possible. Rob Foti (ACE) to check with Nick Iaiennaro (ACE).

**Other Areas** – U Range clearing and grubbing has been completed. All resources have been shifted over to begin clearing and grubbing at Demo 1, today.

### **Central Impact Area Update**

John Rice (AMEC) provided an update on the Central Impact Area activities.

- CIAP-13 was started this week. Demo 1 well, D1P-10, profiling has been completed; drilling is being continued past 200 feet to bedrock.
- A comparison table of results for wells around CIAP-14 was distributed for discussion next week regarding the CIAP-14 drilling location.
- UXO clearance at CIAP-24 and CIAP-12 has been suspended while the column test is being conducted. One UXO clearance sweep has been completed for CIAP-23, but in order to level the site, more soil needs to be removed, and clearance completed again.
- Jay Clausen (AMEC) indicated that the perchlorate column test is proceeding on schedule. The yield of 5 gpm is being split between two columns. Samples are being collected for laboratory analysis every 8 hours and for analysis using the colorimetric method (field laboratory analysis) every 2 hours. 12 samples have been collected so far. The colorimetric method indicated that the influent concentration is approximately 2 ppb of perchlorate. Interferences from the GAC are effecting the sample analysis of the effluent, however this should be solved shortly. The test will end Friday at 11am. Colorimetric results will be available for the 4/25 Tech meeting. Laboratory results for perchlorate and explosives are on a 5-day TAT.

### **Snake Pond Update**

Heather Sullivan (ACE) provided an update on the Snake Pond activities.

- The perchlorate detection at a Snake Pond area residential well was validated non-detect. The detection appears to be a laboratory error that will be explained in a Corrective Action Report being prepared by AMEC.

- The resident has not been notified of this new development, but will be receiving bottled water for 4 weeks regardless. Resident to be notified after Corrective Action Report is reviewed by agencies and finalized.
- Dave Williams (DPH) indicated that this was good news. And is looking for a recommendation from the Guard, MADEP and EPA for a sampling schedule for this well.
- Dave Hill (IAGWSPO) to check on status of USGS Snake Pond Report.
- Mike Jasinski (EPA) requested results and status of biweekly surface water sampling. To be emailed next week.

### **Bourne Well Update**

Ben Gregson (IAGWSPO) led the discussion on the Bourne Water Update. This update to provided at 11am Thursday weekly, indefinitely.

- MW-213, being drilled between wells MW-80 and MW-81, commenced Tuesday 4/16. AMEC is waiting on perchlorate results from 02-10.
- Well development and sampling is proceeding more quickly. Results have been received for 02-01 and 02-03 has been sampled.
- Results for WS-4 were non detect for explosives and perchlorate.
- Ralph Marks (Bourne Water District) requested that the Guard sample three to six locations in the water distribution system. The locations would be the same as coliform sampling sites. The Guard agreed to collect samples at six sites, to be specified by the Bourne Water District.
- Leo Yukus (Haley and Ward) requested that a water sample be collected from Bourne Supply Well #6 prior to turning the pump on. They would like to evaluate if the lower concentration or non detect of perchlorate in #6 relative to the higher detection in sentry well 97-2C is a function of a dilution effect caused by turning the pump on. The sample could be collected through a 2.5-inch access port to the well. Mr. Yukus to check access to make sure the pump to be used by AMEC for sampling will not get tangled up in the production well.
- At the same time that this water is collected, Haley and Ward would like to collect three 55-gallon drums of Supply Well #6 water to send to Fred Cannon of Penn State University. Dr. Cannon has agreed to do a pilot test for perchlorate treatment of the Bourne water at no cost. Based on the results of the pilot test, the Bourne Water District will consider implementation of a full-scale treatment system at #6 for the future. All parties agreed to do the sampling at the next weekly sampling event, Wednesday 4/24.
- Right-of-entry was received from Spinnaker Lane residents for access to the 02-15 drilling location. Mobilization to this location will take place next week.
- Haley and Ward intend to conduct a pump test at the Base Water Supply Well #4 next week. They are proposing to DEP Water Supply to conduct the test 24 hours a day for five days and then 12 hours a day for the next nine days, at a rate of 300-400 gallons/day. Samples for explosives, perchlorate and standard analyses would be collected after the first five days and then again after the next nine days. Mr. Yuskus to discuss water discharge permitting issues relative to the ROA process with Mike Minior.
- Heather Sullivan (ACE) distributed north-south and east-west cross sections of the area of the Monument Beach well field. All parties to review the cross sections in the coming week. AMEC to add wells 92-7, 92-5 and Bourne Water Supply Well #1 to the cross sections. Mr. Yuskus to provide screen information on Water Supply well #1. AMEC also to provide prior cross section drawn between Bourne Far Field wells.
- In conjunction with evaluation of Base Water Supply Well #4 (WS-4) as a water source for the Bourne Water District, Mr. Yuskus proposed two chemical monitoring well locations within 4 – 5 years travel time from WS-4 and within the contributing area. The northern location of the two proposed locations is directly off of Frank Perkins Road. The more

southerly location of the two was some distance from the road within Training Area A-6. Ben Gregson (IAGWSP) explained to Mr. Yuskus that because of the permitting process for wells, the more southerly location might be problematic because road building would be needed. Mr. Yuskus indicated that Jeff Rose (MADEP Water Supply) would like both wells within 5 years travel time of the supply well, but would prefer the 2<sup>nd</sup> well to be more to the south, within the contributing area to WS-4, but between WS-4 and the Bourne Far Field wells. John Rice (AMEC) to review both locations in the field and determine amount of cleared area and possible presence of a tank access road in the vicinity of the 2<sup>nd</sup> location. The Bourne Water District was open to suggestions for alternative locations by the IAGWSP team. Mr. Gregson suggested a deeper well near MW-174, which, because of the existing well pad, would not have any well sighting issues.

- Mr. Yuskus also requested sampling of wells upgradient of WS-4 for perchlorate. Heather Sullivan (ACE) indicated that a Central Impact Area Perchlorate Sampling Plan would be finalized for distribution next week, and should address this area.

## 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:

- Groundwater samples from Bourne supply wells 4036000-01G; 4036000-03G; 4036000-04G; 4036000-06G; 97-2B; 97-2C; TW01-1; 02-03M1, M2, M3 (Bourne monitoring and test wells); WS-4A; and WS-4B (Base Water Supply Well 4) had detections of chloroform. The results were similar to previous sampling rounds.
- Groundwater samples from wells 90MP0059B (Snake Pond), MW-143M1 (J-3 Range), and MW-171M2 (Snake Pond) had detections of RDX that were confirmed by PDA spectra. The results were similar to previous sampling rounds.
- Groundwater samples from wells MW-204M1, M2 and MW-205M1 (Central Impact Area) had detections of RDX that were confirmed by PDA spectra. This is the first sampling event for these wells and results were consistent with the profile results.
- Groundwater samples from wells 90MW0014 (J-3 Range) and MW-129M2 (Demo Area 1) had detections of perchlorate. This is the first time perchlorate has been detected at 90MW0014, results for MW-129M2 were similar to previous sampling rounds.

- Groundwater samples from wells 90MW0022 (J-3 Range) and MW-129M1 (Demo Area 1) had detections of perchlorate and RDX. The detections of RDX were confirmed by PDA spectra. These results were similar to previous sampling rounds.
- Groundwater samples from wells MW-129M3 (Demo Area 1) had detections of perchlorate and RDX. The detections of RDX were confirmed by PDA spectra. This is the first time these compounds have been detected at MW-129M3.
- Groundwater samples from TW01-2 (Bourne test well) had detections of chloroform and perchlorate. The results were similar to previous sampling rounds.
- Groundwater samples from TW1-88A (Bourne test well) had detections of perchlorate, acetone, chloroform, and toluene. The results were similar to previous sampling rounds.
- Groundwater samples from TW1-88B (Bourne test well) had detections of nitroglycerin, acetone, chloroform, and toluene. A duplicate sample had detections of acetone, chloroform, toluene and picric acid. The detections of explosives were not confirmed by PDA spectra. The results were similar to previous sampling rounds.
- Groundwater profile samples from 02-10 (Bourne) had detections of nitroglycerin (7 intervals), picric acid (2 intervals), perchlorate (2 intervals), acetone (3 intervals), and chloroform (4 intervals). The detections of explosives were not confirmed by PDA spectra.
- Groundwater profile samples from MW-211 had detections of 3-nitrotoluene (2 intervals), 4A-DNT (3 intervals), nitroglycerin (2 intervals), PETN (1 interval), picric acid (3 intervals), and perchlorate (5 intervals). One detection of 3-nitrotoluene was confirmed by PDA spectra.
- Groundwater profile samples from MW-213 had detections of TNT (1 interval), 2,6-DNT (1 interval), 4A-DNT (1 interval), RDX (1 interval), nitroglycerin (3 intervals), acetone (6 intervals), benzene (1 interval), chloroform (6 intervals), and 2-butanone (2 intervals). None of the explosive detections were confirmed by PDA spectra. One detection of 2,6-DNT was not confirmed by PDA spectra, but with interference.

### 3. DELIVERABLES SUBMITTED

Weekly Progress Update for April 8 – April 12, 2002

04/19/02

### 4. SCHEDULED ACTIONS

Scheduled actions for the week of April 22 include complete well installation on 02-07, 02-10 (Bourne) and MW-211 (D1P-10), complete drilling of MW-212 (CIAP-13) and MW-213 (CIAP-26), and commence drilling D1P-11 and 02-15 this week. Continue Supplemental Phase IIB and commence Gun and Mortar Firing Positions soil sampling.

## 5. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume will be conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit. Drilling and profiling was completed at D1P-10 located on Pew Road. Magnetic anomaly investigations in accordance with the Post-Screening Investigation Work Plan were initiated.

TABLE 2  
 SAMPLING PROGRESS  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
O.A.1.00708.6.0	0A100708	04/13/2002	CRATER GRID	0.00	0.25		
G02-10DHT	FIELDQC	04/15/2002	FIELDQC	0.00	0.00		
G02-10DLE	FIELDQC	04/15/2002	FIELDQC	0.00	0.00		
G213DKE	FIELDQC	04/18/2002	FIELDQC	0.00	0.00		
G213DPE	FIELDQC	04/19/2002	FIELDQC	0.00	0.00		
HC30B1CAE	FIELDQC	04/19/2002	FIELDQC	0.00	0.00		
HC32A1AAE	FIELDQC	04/17/2002	FIELDQC	0.00	0.00		
HC33A1BAAE	FIELDQC	04/18/2002	FIELDQC	0.00	0.00		
HD135K1BAE	FIELDQC	04/16/2002	FIELDQC	0.00	0.00		
HD135R1AAT	FIELDQC	04/16/2002	FIELDQC	0.00	0.00		
TW1-88AE	FIELDQC	04/13/2002	FIELDQC	0.00	0.00		
W139M2T	FIELDQC	04/17/2002	FIELDQC	0.00	0.00		
W165M2T	FIELDQC	04/18/2002	FIELDQC	0.00	0.00		
J2.B.T2A.001.2.0		04/17/2002	GAUZE WIPE	0.00	0.00		
4036000-01G	4036000-01G	04/17/2002	GROUNDWATER				
4036000-03G	4036000-03G	04/17/2002	GROUNDWATER				
4036000-04G	4036000-04G	04/17/2002	GROUNDWATER				
4036000-06G	4036000-06G	04/17/2002	GROUNDWATER				
90MW0011	90MW0011	04/19/2002	GROUNDWATER	46.50	51.50	34.90	39.80
90MW0014	90MW0014	04/15/2002	GROUNDWATER	103.00	108.00	78.00	83.00
90MW0022	90MW0022	04/15/2002	GROUNDWATER	112.00	117.00	72.79	77.79
90MW0023	90MW0023	04/15/2002	GROUNDWATER	161.00	166.00	69.68	74.68
90PZ0211	90PZ0211	04/19/2002	GROUNDWATER	80.00	110.00	71.32	101.32
97-2BA	97-2B	04/17/2002	GROUNDWATER		121.70		75.40
97-2CA	97-2C	04/18/2002	GROUNDWATER		132.00		68.00
CT1EFFA10	CT1EFFA10	04/16/2002	GROUNDWATER				
CT1EFFA14	CT1EFFA14	04/17/2002	GROUNDWATER				
CT1EFFA18	CT1EFFA18	04/17/2002	GROUNDWATER				
CT1EFFA2	CT1EFFA2	04/16/2002	GROUNDWATER				
CT1EFFA20	CT1EFFA20	04/17/2002	GROUNDWATER				
CT1EFFA22	CT1EFFA22	04/17/2002	GROUNDWATER				
CT1EFFA26	CT1EFFA26	04/17/2002	GROUNDWATER				
CT1EFFA26D	CT1EFFA26	04/17/2002	GROUNDWATER				
CT1EFFA28	CT1EFFA28	04/17/2002	GROUNDWATER				
CT1EFFA30	CT1EFFA30	04/17/2002	GROUNDWATER				
CT1EFFA32	CT1EFFA32	04/17/2002	GROUNDWATER				
CT1EFFA34	CT1EFFA34	04/17/2002	GROUNDWATER				
CT1EFFA36	CT1EFFA36	04/17/2002	GROUNDWATER				
CT1EFFA38	CT1EFFA38	04/18/2002	GROUNDWATER				
CT1EFFA40	CT1EFFA40	04/18/2002	GROUNDWATER				
CT1EFFA42	CT1EFFA42	04/18/2002	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 2  
 SAMPLING PROGRESS  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
CT1EFFA44	CT1EFFA44	04/18/2002	GROUNDWATER				
CT1EFFA46	CT1EFFA46	04/18/2002	GROUNDWATER				
CT1EFFA48	CT1EFFA48	04/18/2002	GROUNDWATER				
CT1EFFA50	CT1EFFA50	04/18/2002	GROUNDWATER				
CT1EFFA52	CT1EFFA52	04/18/2002	GROUNDWATER				
CT1EFFA54	CT1EFFA54	04/18/2002	GROUNDWATER				
CT1EFFA56	CT1EFFA56	04/18/2002	GROUNDWATER				
CT1EFFA58	CT1EFFA58	04/18/2002	GROUNDWATER				
CT1EFFA6	CT1EFFA6	04/16/2002	GROUNDWATER				
CT1EFFA60	CT1EFFA60	04/18/2002	GROUNDWATER				
CT1EFFA62	CT1EFFA62	04/19/2002	GROUNDWATER				
CT1EFFA64	CT1EFFA64	04/19/2002	GROUNDWATER				
CT1EFFA66	CT1EFFA66	04/19/2002	GROUNDWATER				
CT1EFFA68	CT1EFFA68	04/19/2002	GROUNDWATER				
CT1EFFA70	CT1EFFA70	04/19/2002	GROUNDWATER				
CT1EFFA72	CT1EFFA72	04/19/2002	GROUNDWATER				
CT1EFFA72D	CT1EFFA72	04/19/2002	GROUNDWATER				
CT1EFFA8	CT1EFFA8	04/16/2002	GROUNDWATER				
CT1EFFB14	CT1EFFB14	04/17/2002	GROUNDWATER				
CT1EFFB2	CT1EFFB2	04/16/2002	GROUNDWATER				
CT1EFFB2	CT1EFFB2	04/17/2002	GROUNDWATER				
CT1EFFB26	CT1EFFB26	04/17/2002	GROUNDWATER				
CT1EFFB32	CT1EFFB32	04/17/2002	GROUNDWATER				
CT1EFFB38	CT1EFFB38	04/18/2002	GROUNDWATER				
CT1EFFB44	CT1EFFB44	04/18/2002	GROUNDWATER				
CT1EFFB50	CT1EFFB50	04/18/2002	GROUNDWATER				
CT1EFFB56	CT1EFFB56	04/18/2002	GROUNDWATER				
CT1EFFB62	CT1EFFB62	04/19/2002	GROUNDWATER				
CT1EFFB66	CT1EFFB66	04/19/2002	GROUNDWATER				
CT1EFFB68	CT1EFFB68	04/19/2002	GROUNDWATER				
CT1EFFB70	CT1EFFB70	04/19/2002	GROUNDWATER				
CT1EFFB72	CT1EFFB72	04/19/2002	GROUNDWATER				
CT2EFFA10	CT2EFFA10	04/16/2002	GROUNDWATER				
CT2EFFA14	CT2EFFA14	04/17/2002	GROUNDWATER				
CT2EFFA18	CT2EFFA18	04/17/2002	GROUNDWATER				
CT2EFFA2	CT2EFFA2	04/16/2002	GROUNDWATER				
CT2EFFA20	CT2EFFA20	04/17/2002	GROUNDWATER				
CT2EFFA22	CT2EFFA22	04/17/2002	GROUNDWATER				
CT2EFFA26	CT2EFFA26	04/17/2002	GROUNDWATER				
CT2EFFA28	CT2EFFA28	04/17/2002	GROUNDWATER				
CT2EFFA30	CT2EFFA30	04/17/2002	GROUNDWATER				

Profiling methods include: Volatiles, Explosives and Perchlorate

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OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
CT2EFFA32	CT2EFFA32	04/17/2002	GROUNDWATER				
CT2EFFA34	CT2EFFA34	04/17/2002	GROUNDWATER				
CT2EFFA36	CT2EFFA36	04/17/2002	GROUNDWATER				
CT2EFFA38	CT2EFFA38	04/18/2002	GROUNDWATER				
CT2EFFA40	CT2EFFA40	04/18/2002	GROUNDWATER				
CT2EFFA42	CT2EFFA42	04/18/2002	GROUNDWATER				
CT2EFFA44	CT2EFFA44	04/18/2002	GROUNDWATER				
CT2EFFA46	CT2EFFA46	04/18/2002	GROUNDWATER				
CT2EFFA48	CT2EFFA48	04/18/2002	GROUNDWATER				
CT2EFFA50	CT2EFFA50	04/18/2002	GROUNDWATER				
CT2EFFA52	CT2EFFA52	04/18/2002	GROUNDWATER				
CT2EFFA54	CT2EFFA54	04/18/2002	GROUNDWATER				
CT2EFFA56	CT2EFFA56	04/18/2002	GROUNDWATER				
CT2EFFA58	CT2EFFA58	04/18/2002	GROUNDWATER				
CT2EFFA6	CT2EFFA6	04/16/2002	GROUNDWATER				
CT2EFFA60	CT2EFFA60	04/18/2002	GROUNDWATER				
CT2EFFA62	CT2EFFA62	04/19/2002	GROUNDWATER				
CT2EFFA64	CT2EFFA64	04/19/2002	GROUNDWATER				
CT2EFFA66	CT2EFFA66	04/19/2002	GROUNDWATER				
CT2EFFA68	CT2EFFA68	04/19/2002	GROUNDWATER				
CT2EFFA70	CT2EFFA70	04/19/2002	GROUNDWATER				
CT2EFFA72	CT2EFFA72	04/19/2002	GROUNDWATER				
CT2EFFA8	CT2EFFA8	04/16/2002	GROUNDWATER				
CT2EFFB14	CT2EFFB14	04/17/2002	GROUNDWATER				
CT2EFFB2	CT2EFFB2	04/17/2002	GROUNDWATER				
CT2EFFB26	CT2EFFB26	04/17/2002	GROUNDWATER				
CT2EFFB38	CT2EFFB38	04/18/2002	GROUNDWATER				
CT2EFFB50	CT2EFFB50	04/18/2002	GROUNDWATER				
CT2EFFB56	CT2EFFB56	04/18/2002	GROUNDWATER				
CT2EFFB62	CT2EFFB62	04/19/2002	GROUNDWATER				
CT2EFFB68	CT2EFFB68	04/19/2002	GROUNDWATER				
CT2EFFB72	CT2EFFB72	04/19/2002	GROUNDWATER				
CTPW1INF0	CTPW1INF0	04/16/2002	GROUNDWATER				
CTPW1INF0D	CTPW1INF0	04/16/2002	GROUNDWATER				
CTPW1INF26	CTPW1INF26	04/17/2002	GROUNDWATER				
CTPW1INF50	CTPW1INF50	04/18/2002	GROUNDWATER				
CTPW1INF50D	CTPW1INF50	04/18/2002	GROUNDWATER				
CTPW1INF50D	CTPW1INF50D	04/18/2002	GROUNDWATER				
CTPW1INF72	CTPW1INF72	04/19/2002	GROUNDWATER				
LKSNK0005AAA	LKSNK0005AAA	04/17/2002	GROUNDWATER				
LKSNK0006AAA	LKSNK0005AAA	04/17/2002	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 2  
 SAMPLING PROGRESS  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
LKSNK0007AAA	LKSNK0007AAA	04/17/2002	GROUNDWATER				
LKSNK0007AAD	LKSNK0007AAA	04/17/2002	GROUNDWATER				
RS09HERSEY	RS09	04/17/2002	GROUNDWATER				
RS15HERSEY	RS15	04/17/2002	GROUNDWATER				
RS15HERSEYD	RS15	04/17/2002	GROUNDWATER				
RS1HERSEY	RS1	04/17/2002	GROUNDWATER				
TW1-88AA	1-88	04/13/2002	GROUNDWATER				
TW1-88BA	1-88	04/13/2002	GROUNDWATER				
TW1-88BD	1-88	04/13/2002	GROUNDWATER				
W02-03M1A	02-03	04/17/2002	GROUNDWATER	130.00	140.00	86.10	96.10
W02-03M2A	02-03	04/17/2002	GROUNDWATER	92.00	102.00	48.15	58.15
W02-03M3A	02-03	04/17/2002	GROUNDWATER	75.00	85.00	31.05	41.05
W02-05M1A	02-05	04/19/2002	GROUNDWATER	110.00	120.00	81.44	91.44
W02-05M2A	02-05	04/19/2002	GROUNDWATER	92.00	102.00	63.41	73.41
W129M3A	MW-129	04/15/2002	GROUNDWATER	96.00	106.00	26.00	36.00
W139M1A	MW-139	04/17/2002	GROUNDWATER	194.00	204.00	110.00	120.00
W139M2A	MW-139	04/17/2002	GROUNDWATER	154.00	164.00	70.00	80.00
W139M3A	MW-139	04/17/2002	GROUNDWATER	119.00	129.00	35.00	45.00
W142M1A	MW-142	04/16/2002	GROUNDWATER	225.00	235.00	185.00	195.00
W142M2A	MW-142	04/16/2002	GROUNDWATER	225.00	235.00	185.00	195.00
W143M1A	MW-143	04/15/2002	GROUNDWATER	144.00	154.00	114.00	124.00
W143M2A	MW-143	04/16/2002	GROUNDWATER	117.00	122.00	87.00	92.00
W143M3A	MW-143	04/16/2002	GROUNDWATER	107.00	112.00	77.00	82.00
W148M1A	MW-148	04/15/2002	GROUNDWATER	90.00	100.00	29.00	39.00
W162M1A	MW-162	04/17/2002	GROUNDWATER	85.50	95.50	117.70	124.70
W162M2A	MW-162	04/18/2002	GROUNDWATER	125.00	135.00	49.70	59.70
W162M2A	MW-162	04/18/2002	GROUNDWATER	125.50	135.50	49.70	59.70
W162M3A	MW-162	04/18/2002	GROUNDWATER	85.50	95.50	9.70	19.70
W165M1A	MW-165	04/18/2002	GROUNDWATER	184.50	194.50	106.00	116.00
W165M2A	MW-165	04/18/2002	GROUNDWATER	124.50	134.50	46.00	56.00
W165M3A	MW-165	04/19/2002	GROUNDWATER	94.50	104.50	16.00	0.26
W165M3A	MW-165	04/19/2002	GROUNDWATER	94.50	104.50	16.00	26.00
W173M1A	MW-173	04/18/2002	GROUNDWATER	243.00	253.00	72.20	82.20
W173M2A	MW-173	04/19/2002	GROUNDWATER	208.00	218.00	72.20	82.20
W173M3A	MW-173	04/19/2002	GROUNDWATER	188.00	198.00	52.20	62.20
W175M1A	MW-175	04/18/2002	GROUNDWATER	264.00	274.00	136.40	146.40
W175M2A	MW-175	04/18/2002	GROUNDWATER	199.00	209.00	71.66	81.66
W175M3A	MW-175	04/18/2002	GROUNDWATER	162.00	167.00	34.65	39.65
W175M3D	MW-175	04/18/2002	GROUNDWATER	162.00	167.00	34.65	39.65
W179DDA	MW-179	04/15/2002	GROUNDWATER	329.00	339.00	188.10	198.10
W179M1A	MW-179	04/15/2002	GROUNDWATER	187.00	197.00	46.10	56.10

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

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BWTS = Depth below water table, start depth, measured in feet

BWTE = Depth below water table, end depth, measured in feet

TABLE 2  
 SAMPLING PROGRESS  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W207M1A	MW-207	04/16/2002	GROUNDWATER	245.00	264.00	100.52	119.52
W207M2A	MW-207	04/16/2002	GROUNDWATER	224.00	234.00	79.33	89.33
W208M1A	MW-208	04/16/2002	GROUNDWATER	195.00	205.00	51.18	66.18
W208M2A	MW-208	04/16/2002	GROUNDWATER	158.00	168.00	18.41	28.41
W208M2D	MW-208	04/16/2002	GROUNDWATER	158.00	168.00	18.41	28.41
W71M1A	MW-71	04/15/2002	GROUNDWATER	180.00	190.00	22.00	32.00
W71SSA	MW-71	04/15/2002	GROUNDWATER	158.00	168.00	0.00	10.00
DW041502	GAC WATER	04/15/2002	IDW	0.00	0.00		
DW041602	GAC WATER	04/16/2002	IDW	0.00	0.00		
DW041802	GAC WATER	04/18/2002	IDW	0.00	0.00		
G02-10DHA	02-10	04/15/2002	PROFILE	120.00	120.00	80.50	80.50
G02-10DHD	02-10	04/15/2002	PROFILE	120.00	120.00	80.50	80.50
G02-10DIA	02-10	04/15/2002	PROFILE	130.00	130.00	90.50	90.50
G02-10DJA	02-10	04/15/2002	PROFILE	140.00	140.00	100.00	100.00
G02-10DJA	02-10	04/15/2002	PROFILE	140.00	140.00	100.50	100.50
G02-10DKA	02-10	04/15/2002	PROFILE	150.00	150.00	110.50	110.50
G02-10DLA	02-10	04/15/2002	PROFILE	159.30	159.30	119.80	119.80
G02-10DLA	02-10	04/15/2002	PROFILE	159.30	159.30	120.50	120.50
G211DLA	MW-211	04/15/2002	PROFILE	260.00	260.00	117.00	117.00
G211DNA	MW-211	04/15/2002	PROFILE	280.00	280.00	127.00	127.00
G211DNA	MW-211	04/15/2002	PROFILE	280.00	280.00	137.00	137.00
G211DND	MW-211	04/15/2002	PROFILE	280.00	280.00	137.00	137.00
G211DOA	MW-211	04/15/2002	PROFILE	290.00	290.00	147.00	147.00
G211DPA	MW-211	04/15/2002	PROFILE	300.00	300.00	157.00	157.00
G211DQA	MW-211	04/16/2002	PROFILE	310.00	310.00	167.00	167.00
G211DRA	MW-211	04/16/2002	PROFILE	320.00	320.00	177.00	177.00
G211DSA	MW-211	04/16/2002	PROFILE	320.00	320.00	187.00	187.00
G211DSA	MW-211	04/16/2002	PROFILE	330.00	330.00	187.00	187.00
G212DAA	MW-212	04/18/2002	PROFILE	220.00	220.00	11.70	11.70
G212DBA	MW-212	04/18/2002	PROFILE	230.00	230.00	21.70	21.70
G212DCA	MW-212	04/18/2002	PROFILE	240.00	240.00	31.70	31.70
G212DDA	MW-212	04/18/2002	PROFILE	250.00	250.00	41.70	41.70
G212DEA	MW-212	04/18/2002	PROFILE	260.00	260.00	51.70	51.70
G212DFA	MW-212	04/19/2002	PROFILE	270.00	270.00	61.70	61.70
G212DGA	MW-212	04/19/2002	PROFILE	280.00	280.00	71.70	71.70
G212DHA	MW-212	04/19/2002	PROFILE	290.00	290.00	81.70	81.70
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47
G213DBA	MW-213	04/17/2002	PROFILE	60.00	60.00	11.47	11.47
G213DCA	MW-213	04/17/2002	PROFILE	70.00	70.00	21.47	21.47
G213DDA	MW-213	04/17/2002	PROFILE	80.00	80.00	31.47	31.47
G213DDA	MW-213	04/17/2002	PROFILE	810.00	80.00	31.47	31.47

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  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G213DEA	MW-213	04/17/2002	PROFILE	90.00	90.00	41.47	41.47
G213DFA	MW-213	04/18/2002	PROFILE	100.00	100.00	51.47	51.47
G213DGA	MW-213	04/18/2002	PROFILE	110.00	110.00	61.47	61.47
G213DHA	MW-213	04/18/2002	PROFILE	120.00	120.00	71.47	71.47
G213DIA	MW-213	04/18/2002	PROFILE	130.00	130.00	81.47	81.47
G213DJA	MW-213	04/18/2002	PROFILE	140.00	140.00	91.47	91.47
G213DKA	MW-213	04/18/2002	PROFILE	150.00	150.00	101.47	101.47
G213DLA	MW-213	04/18/2002	PROFILE	160.00	160.00	111.47	111.47
G213DLA	MW-213	04/19/2002	PROFILE	160.00	160.00	111.47	111.47
G213DMA	MW-213	04/19/2002	PROFILE	170.00	170.00	121.47	121.47
G213DNA	MW-213	04/19/2002	PROFILE	180.00	180.00	131.47	131.47
G213DOA	MW-213	04/19/2002	PROFILE	190.00	190.00	141.47	141.47
G213DPA	MW-213	04/19/2002	PROFILE	200.00	200.00	151.47	151.47
G213DPD	MW-213	04/19/2002	PROFILE	200.00	200.00	151.47	151.47
G213DQA	MW-213	04/19/2002	PROFILE	210.00	210.00	161.47	161.47
G213DRA	MW-213	04/19/2002	PROFILE	220.00	220.00	171.47	171.47
G213DSA	MW-213	04/19/2002	PROFILE	230.00	230.00	181.47	181.47
G213DTA	MW-213	04/19/2002	PROFILE	240.00	240.00	191.47	191.47
G213DUA	MW-213	04/19/2002	PROFILE	246.00	246.00	197.47	197.47
HC174A1AAA	174A	04/17/2002	SOIL GRID	0.00	0.25		
HC174A1BAA	174A	04/17/2002	SOIL GRID	0.25	0.50		
HC174A1CAA	174A	04/17/2002	SOIL GRID	0.50	1.00		
HC174B1AAA	174B	04/18/2002	SOIL GRID	0.00	0.25		
HC174B1BAA	174B	04/18/2002	SOIL GRID	0.25	0.50		
HC174B1CAA	174B	04/18/2002	SOIL GRID	0.50	1.00		
HC175A1AAA	175A	04/18/2002	SOIL GRID	0.00	0.25		
HC175A1BAA	175A	04/18/2002	SOIL GRID	0.25	0.50		
HC175A1CAA	175A	04/18/2002	SOIL GRID	0.50	1.00		
HC175B1AAA	175B	04/18/2002	SOIL GRID	0.00	0.25		
HC175B1BAA	175B	04/18/2002	SOIL GRID	0.25	0.50		
HC175B1CAA	175B	04/18/2002	SOIL GRID	0.50	1.00		
HC176A1AAA	176A	04/19/2002	SOIL GRID	0.00	0.25		
HC176A1CAA	176A	04/19/2002	SOIL GRID	0.50	1.00		
HC176B1AAA	176B	04/19/2002	SOIL GRID	0.00	0.25		
HC176B1BAA	176B	04/19/2002	SOIL GRID	0.25	0.50		
HC176B1CAA	176B	04/19/2002	SOIL GRID	0.50	1.00		
HD135I1AAA	135I	04/16/2002	SOIL GRID	0.00	0.50		
HD135I1BAA	135I	04/16/2002	SOIL GRID	1.50	2.00		
HD135J1AAA	135J	04/16/2002	SOIL GRID	0.00	0.50		
HD135J1BAA	135J	04/16/2002	SOIL GRID	1.50	2.00		
HD135K1AAA	135K	04/16/2002	SOIL GRID	0.00	0.50		

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

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TABLE 2  
 SAMPLING PROGRESS  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD135K1BAA	135K	04/16/2002	SOIL GRID	1.50	2.00		
HD135L1AAA	135L	04/16/2002	SOIL GRID	0.00	0.50		
HD135L1BAA	135L	04/16/2002	SOIL GRID	1.50	2.00		
HD135M1AAA	135M	04/16/2002	SOIL GRID	0.00	0.50		
HD135M1BAA	135M	04/16/2002	SOIL GRID	1.50	2.00		
HD135N1AAA	135N	04/16/2002	SOIL GRID	0.00	0.50		
HD135N1BAA	135N	04/16/2002	SOIL GRID	1.50	2.00		
HD135O1AAA	135O	04/16/2002	SOIL GRID	0.00	0.50		
HD135O1BAA	135O	04/16/2002	SOIL GRID	1.50	2.00		
HD135P1AAA	135P	04/16/2002	SOIL GRID	0.00	0.50		
HD135P1BAA	135P	04/16/2002	SOIL GRID	1.50	2.00		
HD135Q1AAA	135Q	04/16/2002	SOIL GRID	0.00	0.50		
HD135Q1BAA	135Q	04/16/2002	SOIL GRID	1.50	2.00		
HD135R1AAA	135R	04/16/2002	SOIL GRID	0.00	0.50		
HD135R1BAA	135R	04/16/2002	SOIL GRID	1.50	2.00		
HD135S1AAA	135S	04/16/2002	SOIL GRID	0.00	0.50		
HD135S1BAA	135S	04/16/2002	SOIL GRID	1.50	2.00		
HD135T1AAA	135T	04/16/2002	SOIL GRID	0.00	0.50		
HD135T1BAA	135T	04/16/2002	SOIL GRID	1.50	2.00		
HD135U1AAA	135U	04/16/2002	SOIL GRID	0.00	0.50		
HD135U1BAA	135U	04/16/2002	SOIL GRID	1.50	2.00		
HD135V1AAA	135V	04/16/2002	SOIL GRID	0.00	0.50		
HD135V1BAA	135V	04/16/2002	SOIL GRID	1.50	2.00		
HD135W1AAA	135W	04/16/2002	SOIL GRID	0.00	0.50		
HD135W1BAA	135W	04/16/2002	SOIL GRID	1.50	2.00		
HD136AA1AAA	136AA	04/15/2002	SOIL GRID	0.00	0.50		
HD136AA1BAA	136AA	04/15/2002	SOIL GRID	1.50	2.00		
HD136AB1AAA	136AB	04/15/2002	SOIL GRID	0.00	0.50		
HD136AB1BAA	136AB	04/15/2002	SOIL GRID	1.50	2.00		
HD136AC1AAA	136AC	04/15/2002	SOIL GRID	0.00	0.50		
HD136AC1BAA	136AC	04/15/2002	SOIL GRID	1.50	2.00		
HD136AD1AAA	136AD	04/15/2002	SOIL GRID	0.00	0.50		
HD136AD1BAA	136AD	04/15/2002	SOIL GRID	1.50	2.00		
HD136S1AAA	136S	04/16/2002	SOIL GRID	0.00	0.50		
HD136S1BAA	136S	04/16/2002	SOIL GRID	1.50	2.00		
HD136T1AAA	136T	04/16/2002	SOIL GRID	0.00	0.50		
HD136T1BAA	136T	04/16/2002	SOIL GRID	1.50	2.00		
HD136U1AAA	136U	04/16/2002	SOIL GRID	0.00	0.50		
HD136U1BAA	136U	04/16/2002	SOIL GRID	1.50	2.00		
HD136V1AAA	136V	04/16/2002	SOIL GRID	0.00	0.50		
HD136V1BAA	136V	04/16/2002	SOIL GRID	1.50	2.00		

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TABLE 2  
 SAMPLING PROGRESS  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD136W1AAA	136W	04/15/2002	SOIL GRID	0.00	0.50		
HD136W1BAA	136W	04/15/2002	SOIL GRID	1.50	2.00		
HD136X1AAA	136X	04/15/2002	SOIL GRID	0.00	0.50		
HD136X1BAA	136X	04/15/2002	SOIL GRID	1.50	2.00		
HD136Y1AAA	136Y	04/15/2002	SOIL GRID	0.00	0.50		
HD136Y1BAA	136Y	04/15/2002	SOIL GRID	1.50	2.00		
HD136Z1AAA	136Z	04/15/2002	SOIL GRID	0.00	0.50		
HD136Z1BAA	136Z	04/15/2002	SOIL GRID	1.50	2.00		
HD140K1AAA	140K	04/15/2002	SOIL GRID	0.00	0.50		
HD140K1BAA	140K	04/15/2002	SOIL GRID	1.50	2.00		
HD140L1AAA	140L	04/15/2002	SOIL GRID	0.00	0.50		
HD140L1BAA	140L	04/15/2002	SOIL GRID	1.50	2.00		
HD140M1AAA	140M	04/15/2002	SOIL GRID	0.00	0.00		
HD140M1BAA	140M	04/15/2002	SOIL GRID	1.50	2.00		
HD140N1AAA	140N	04/15/2002	SOIL GRID	0.00	0.50		
HD140N1BAA	140N	04/15/2002	SOIL GRID	1.50	2.00		
HD140O1AAA	140O	04/15/2002	SOIL GRID	0.00	0.50		
HD140O1BAA	140O	04/15/2002	SOIL GRID	1.50	2.00		
HD140P1AAA	140P	04/15/2002	SOIL GRID	0.00	0.50		
HD140P1BAA	140P	04/15/2002	SOIL GRID	1.50	2.00		
HD140Q1AAA	140Q	04/15/2002	SOIL GRID	0.00	0.50		
HD140Q1BAA	140Q	04/15/2002	SOIL GRID	1.50	2.00		
HD140Q1BAD	140Q	04/15/2002	SOIL GRID	1.50	2.00		
HD140R1AAA	140R	04/15/2002	SOIL GRID	0.00	0.50		
HD140R1BAA	140R	04/15/2002	SOIL GRID	1.50	2.00		
HD174A1BAA	174A	04/17/2002	SOIL GRID	0.25	0.50		
HD174A1CAA	174A	04/17/2002	SOIL GRID	0.50	1.00		
HD174A1CAD	174A	04/17/2002	SOIL GRID	0.50	1.00		
HD174A3AAA	174A	04/17/2002	SOIL GRID	0.00	0.25		
HD174A3BAA	174A	04/17/2002	SOIL GRID	0.25	0.50		
HD174A3CAA	174A	04/17/2002	SOIL GRID	0.50	1.00		
HD174A5AAA	174A	04/17/2002	SOIL GRID	0.00	0.25		
HD174A5BAA	174A	04/17/2002	SOIL GRID	0.25	0.50		
HD174A5CAA	174A	04/17/2002	SOIL GRID	0.50	1.00		
HD174A7AAA	174A	04/17/2002	SOIL GRID	0.00	0.25		
HD174A7BAA	174A	04/17/2002	SOIL GRID	0.25	0.50		
HD174A7CAA	174A	04/17/2002	SOIL GRID	0.50	1.00		
HD174B1AAA	174B	04/18/2002	SOIL GRID	0.00	0.25		
HD174B1BAA	174B	04/18/2002	SOIL GRID	0.25	0.50		
HD174B1CAA	174B	04/18/2002	SOIL GRID	0.50	1.00		
HD174B1CAD	174B	04/18/2002	SOIL GRID	0.50	1.00		

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  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD174B3AAA	174B	04/18/2002	SOIL GRID	0.00	0.25		
HD174B3BAA	174B	04/18/2002	SOIL GRID	0.25	0.50		
HD174B3CAA	174B	04/18/2002	SOIL GRID	0.50	1.00		
HD174B5AAA	174B	04/18/2002	SOIL GRID	0.00	0.25		
HD174B5BAA	174B	04/18/2002	SOIL GRID	0.25	0.50		
HD174B5CAA	174B	04/18/2002	SOIL GRID	0.50	1.00		
HD174B7AAA	174B	04/18/2002	SOIL GRID	0.00	0.25		
HD174B7BAA	174B	04/18/2002	SOIL GRID	0.25	0.50		
HD174B7CAA	174B	04/18/2002	SOIL GRID	0.50	1.00		
HD175A1AAA	175A	04/18/2002	SOIL GRID	0.00	0.25		
HD175A1BAA	175A	04/18/2002	SOIL GRID	0.25	0.50		
HD175A1CAA	175A	04/18/2002	SOIL GRID	0.50	1.00		
HD175A1CAD	175A	04/18/2002	SOIL GRID	0.50	1.00		
HD175A3AAA	175A	04/18/2002	SOIL GRID	0.00	0.25		
HD175A3BAA	175A	04/18/2002	SOIL GRID	0.25	0.50		
HD175A3CAA	175A	04/18/2002	SOIL GRID	0.50	1.00		
HD175A5AAA	175A	04/18/2002	SOIL GRID	0.00	0.25		
HD175A5BAA	175A	04/18/2002	SOIL GRID	0.25	0.50		
HD175A5CAA	175A	04/18/2002	SOIL GRID	0.50	1.00		
HD175A7AAA	175A	04/18/2002	SOIL GRID	0.00	0.25		
HD175A7BAA	175A	04/18/2002	SOIL GRID	0.25	0.50		
HD175A7CAA	175A	04/18/2002	SOIL GRID	0.50	1.00		
HD175B1AAA	175B	04/18/2002	SOIL GRID	0.00	0.25		
HD175B1BAA	175B	04/18/2002	SOIL GRID	0.25	0.50		
HD175B1CAA	175B	04/18/2002	SOIL GRID	0.50	1.00		
HD175B1CAD	175B	04/18/2002	SOIL GRID	0.50	1.00		
HD175B3AAA	175B	04/18/2002	SOIL GRID	0.00	0.25		
HD175B3BAA	175B	04/18/2002	SOIL GRID	0.25	0.50		
HD175B3CAA	175B	04/18/2002	SOIL GRID	0.50	1.00		
HD175B5AAA	175B	04/18/2002	SOIL GRID	0.00	0.25		
HD175B5BAA	175B	04/18/2002	SOIL GRID	0.25	0.50		
HD175B5CAA	175B	04/18/2002	SOIL GRID	0.50	1.00		
HD175B7AAA	175B	04/18/2002	SOIL GRID	0.00	0.25		
HD175B7BAA	175B	04/18/2002	SOIL GRID	0.25	0.50		
HD175B7CAA	175B	04/18/2002	SOIL GRID	0.50	1.00		
HD176A1AAA	176A	04/19/2002	SOIL GRID	0.00	0.25		
HD176A1CAA	176A	04/19/2002	SOIL GRID	0.50	1.00		
HD176A1CAD	176A	04/19/2002	SOIL GRID	0.50	1.00		
HD176A3AAA	176A	04/19/2002	SOIL GRID	0.00	0.25		
HD176A3CAA	176A	04/19/2002	SOIL GRID	0.50	1.00		
HD176A5AAA	176A	04/19/2002	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles, Explosives and Perchlorate

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

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TABLE 2  
 SAMPLING PROGRESS  
 04/13/2002 - 04/19/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD176A5CAA	176A	04/19/2002	SOIL GRID	0.50	1.00		
HD176A7AAA	176A	04/19/2002	SOIL GRID	0.00	0.25		
HD176A7CAA	176A	04/19/2002	SOIL GRID	0.50	1.00		
HD176B1AAA	176B	04/19/2002	SOIL GRID	0.00	0.25		
HD176B1BAA	176B	04/19/2002	SOIL GRID	0.25	0.50		
HD176B1CAA	176B	04/19/2002	SOIL GRID	0.50	1.00		
HD176B1CAD	176B	04/19/2002	SOIL GRID	0.50	1.00		
HD176B3AAA	176B	04/19/2002	SOIL GRID	0.00	0.25		
HD176B3BAA	176B	04/19/2002	SOIL GRID	0.25	0.50		
HD176B3CAA	176B	04/19/2002	SOIL GRID	0.50	1.00		
HD176B5AAA	176B	04/19/2002	SOIL GRID	0.00	0.25		
HD176B5BAA	176B	04/19/2002	SOIL GRID	0.25	0.50		
HD176B5CAA	176B	04/19/2002	SOIL GRID	0.50	1.00		
HD176B7AAA	176B	04/19/2002	SOIL GRID	0.00	0.25		
HD176B7BAA	176B	04/19/2002	SOIL GRID	0.25	0.50		
HD176B7CAA	176B	04/19/2002	SOIL GRID	0.50	1.00		
J2.F.T2A.XC1.1.0		04/17/2002	SOIL GRID	0.00	2.92		
J2.F.T2A.XC1.2.0		04/17/2002	SOIL GRID	2.67	2.92		
J2.F.T2E.001.3.0		04/15/2002	SOIL GRID	1.75	2.00		

Profiling methods include: Volatiles, Explosives and Perchlorate

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

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SBD = Sample Begin Depth, measured in feet bgs

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TABLE 3  
 DETECTED COMPOUNDS-UNVALIDATED  
 SAMPLES COLLECTED 03/30/02 - 04/19/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
4036000-01G	4036000-01G	04/17/2002	GROUNDWATER					OC21V	CHLOROFORM	
4036000-03G	4036000-03G	04/17/2002	GROUNDWATER					OC21V	CHLOROFORM	
4036000-04G	4036000-04G	04/17/2002	GROUNDWATER					OC21V	CHLOROFORM	
4036000-06G	4036000-06G	04/17/2002	GROUNDWATER					OC21V	CHLOROFORM	
90MP0059B	90MP0059B	04/12/2002	GROUNDWATER	116.00	119.00	110.00	113.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
90MW0014	90MW0014	04/15/2002	GROUNDWATER	103.00	108.00	78.00	83.00	E314.0	PERCHLORATE	
90MW0022	90MW0022	04/15/2002	GROUNDWATER	112.00	117.00	72.79	77.79	E314.0	PERCHLORATE	
90MW0022	90MW0022	04/15/2002	GROUNDWATER	112.00	117.00	72.79	77.79	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
97-2BA	97-2B	04/17/2002	GROUNDWATER		121.70		75.40	OC21V	CHLOROFORM	
97-2CA	97-2C	04/18/2002	GROUNDWATER		132.00		68.00	OC21V	CHLOROFORM	
TW01-1A	01-1	04/12/2002	GROUNDWATER	62.00	67.00	55.21	60.21	OC21V	CHLOROFORM	
TW01-2A	01-2	04/12/2002	GROUNDWATER	50.00	56.00	24.50	30.50	E314.0	PERCHLORATE	
TW01-2A	01-2	04/12/2002	GROUNDWATER	50.00	56.00	24.50	30.50	OC21V	CHLOROFORM	
TW1-88AA	1-88	04/13/2002	GROUNDWATER					E314.0	PERCHLORATE	
TW1-88AA	1-88	04/13/2002	GROUNDWATER		102.90		67.40	OC21V	ACETONE	
TW1-88AA	1-88	04/13/2002	GROUNDWATER		102.90		67.40	OC21V	CHLOROFORM	
TW1-88AA	1-88	04/13/2002	GROUNDWATER		102.90		67.40	OC21V	TOLUENE	
TW1-88BA	1-88	04/13/2002	GROUNDWATER		105.50		69.60	8330N	NITROGLYCERIN	NO
TW1-88BA	1-88	04/13/2002	GROUNDWATER		105.50		69.60	OC21V	ACETONE	
TW1-88BA	1-88	04/13/2002	GROUNDWATER		105.50		69.60	OC21V	CHLOROFORM	
TW1-88BA	1-88	04/13/2002	GROUNDWATER		105.50		69.60	OC21V	TOLUENE	
TW1-88BD	1-88	04/13/2002	GROUNDWATER					8330N	PICRIC ACID	NO
TW1-88BD	1-88	04/13/2002	GROUNDWATER					OC21V	ACETONE	
TW1-88BD	1-88	04/13/2002	GROUNDWATER					OC21V	CHLOROFORM	
TW1-88BD	1-88	04/13/2002	GROUNDWATER					OC21V	TOLUENE	
W02-03M1A	02-03	04/17/2002	GROUNDWATER	130.00	140.00	86.10	96.10	OC21V	CHLOROFORM	
W02-03M2A	02-03	04/17/2002	GROUNDWATER	92.00	102.00	48.15	58.15	OC21V	CHLOROFORM	
W02-03M3A	02-03	04/17/2002	GROUNDWATER	75.00	85.00	31.05	41.05	OC21V	CHLOROFORM	
W129M1A	MW-129	04/12/2002	GROUNDWATER	136.00	146.00	66.00	76.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES

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TABLE 3  
 DETECTED COMPOUNDS-UNVALIDATED  
 SAMPLES COLLECTED 03/30/02 - 04/19/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W129M1A	MW-129	04/12/2002	GROUNDWATER	136.00	146.00	66.00	76.00	E314.0	PERCHLORATE	
W129M2A	MW-129	04/12/2002	GROUNDWATER	116.00	126.00	46.00	56.00	E314.0	PERCHLORATE	
W129M3A	MW-129	04/15/2002	GROUNDWATER	96.00	106.00	26.00	36.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W129M3A	MW-129	04/15/2002	GROUNDWATER	96.00	106.00	26.00	36.00	E314.0	PERCHLORATE	
W143M1A	MW-143	04/15/2002	GROUNDWATER	144.00	154.00	114.00	124.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W171M2A	MW-171	04/11/2002	GROUNDWATER	81.00	86.00	83.00	88.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W204M1A	MW-204	04/10/2002	GROUNDWATER	141.00	151.00	0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W204M2A	MW-204	04/10/2002	GROUNDWATER	76.00	86.00	17.20	27.20	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W205M1A	MW-205	04/10/2002	GROUNDWATER	166.00	176.00	67.60	77.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
WS4-AAA	WS-4	04/12/2002	GROUNDWATER		210.00		139.85	OC21V	CHLOROFORM	
WS4-BAA	WS-4	04/12/2002	GROUNDWATER		210.00		139.85	OC21V	CHLOROFORM	
G02-10DDA	02-10	04/12/2002	PROFILE	80.00	80.00	40.50	40.50	8330N	NITROGLYCERIN	NO
G02-10DEA	02-10	04/12/2002	PROFILE	90.00	90.00	50.50	50.50	8330N	NITROGLYCERIN	NO
G02-10DEA	02-10	04/12/2002	PROFILE	90.00	90.00	50.50	50.50	E314.0	PERCHLORATE	
G02-10DFA	02-10	04/12/2002	PROFILE	100.00	100.00	60.50	60.50	8330N	NITROGLYCERIN	NO
G02-10DGA	02-10	04/12/2002	PROFILE	110.00	110.00	70.50	70.50	8330N	NITROGLYCERIN	NO
G02-10DGA	02-10	04/12/2002	PROFILE	110.00	110.00	70.50	70.50	8330N	PICRIC ACID	NO
G02-10DHA	02-10	04/15/2002	PROFILE	120.00	120.00	80.50	80.50	8330N	NITROGLYCERIN	NO
G02-10DHA	02-10	04/15/2002	PROFILE	120.00	120.00	80.50	80.50	OC21V	CHLOROFORM	
G02-10DHD	02-10	04/15/2002	PROFILE	120.00	120.00	80.50	80.50	OC21V	ACETONE	
G02-10DHD	02-10	04/15/2002	PROFILE	120.00	120.00	80.50	80.50	OC21V	CHLOROFORM	
G02-10DIA	02-10	04/15/2002	PROFILE	130.00	130.00	90.50	90.50	8330N	NITROGLYCERIN	NO
G02-10DIA	02-10	04/15/2002	PROFILE	130.00	130.00	90.50	90.50	8330N	PICRIC ACID	NO
G02-10DIA	02-10	04/15/2002	PROFILE	130.00	130.00	90.50	90.50	OC21V	ACETONE	
G02-10DIA	02-10	04/15/2002	PROFILE	130.00	130.00	90.50	90.50	OC21V	CHLOROFORM	
G02-10DJA	02-10	04/15/2002	PROFILE	140.00	140.00	100.00	100.00	OC21V	ACETONE	
G02-10DJA	02-10	04/15/2002	PROFILE	140.00	140.00	100.00	100.00	OC21V	CHLOROFORM	
G02-10DJA	02-10	04/15/2002	PROFILE	140.00	140.00	100.50	100.50	E314.0	PERCHLORATE	
G02-10DKA	02-10	04/15/2002	PROFILE	150.00	150.00	110.50	110.50	8330N	NITROGLYCERIN	NO

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TABLE 3  
DETECTED COMPOUNDS-UNVALIDATED  
SAMPLES COLLECTED 03/30/02 - 04/19/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G02-10DLA	02-10	04/15/2002	PROFILE	159.30	159.30	120.50	120.50	OC21V	CHLOROFORM	
G211DCA	MW-211	04/10/2002	PROFILE	170.00	170.00	27.00	27.00	E314.0	PERCHLORATE	
G211DDA	MW-211	04/10/2002	PROFILE	180.00	180.00	37.00	37.00	E314.0	PERCHLORATE	
G211DEA	MW-211	04/10/2002	PROFILE	190.00	190.00	47.00	47.00	E314.0	PERCHLORATE	
G211DFA	MW-211	04/11/2002	PROFILE	200.00	200.00	57.00	57.00	E314.0	PERCHLORATE	
G211DGA	MW-211	04/11/2002	PROFILE	210.00	210.00	67.00	67.00	E314.0	PERCHLORATE	
G211DJA	MW-211	04/12/2002	PROFILE	240.00	240.00	97.00	97.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G211DJA	MW-211	04/12/2002	PROFILE	240.00	240.00	97.00	97.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G211DJA	MW-211	04/12/2002	PROFILE	240.00	240.00	97.00	97.00	8330N	PICRIC ACID	NO
G211DKA	MW-211	04/12/2002	PROFILE	250.00	250.00	107.00	107.00	8330N	3-NITROTOLUENE	YES
G211DKA	MW-211	04/12/2002	PROFILE	250.00	250.00	107.00	107.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G211DKA	MW-211	04/12/2002	PROFILE	250.00	250.00	107.00	107.00	8330N	PICRIC ACID	NO
G211DNA	MW-211	04/15/2002	PROFILE	280.00	280.00	137.00	137.00	8330N	NITROGLYCERIN	NO
G211DND	MW-211	04/15/2002	PROFILE	280.00	280.00	137.00	137.00	8330N	NITROGLYCERIN	NO
G211DQA	MW-211	04/16/2002	PROFILE	310.00	310.00	167.00	167.00	8330N	3-NITROTOLUENE	NO
G211DQA	MW-211	04/16/2002	PROFILE	310.00	310.00	167.00	167.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G211DQA	MW-211	04/16/2002	PROFILE	310.00	310.00	167.00	167.00	8330N	NITROGLYCERIN	NO
G211DQA	MW-211	04/16/2002	PROFILE	310.00	310.00	167.00	167.00	8330N	PICRIC ACID	NO
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47	8330N	2,4,6-TRINITROTOLUENE	NO
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47	8330N	2,6-DINITROTOLUENE	NO*
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-	NO
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47	8330N	NITROGLYCERIN	NO
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47	OC21V	ACETONE	
G213DAA	MW-213	04/17/2002	PROFILE	50.00	50.00	1.47	1.47	OC21V	BENZENE	
G213DBA	MW-213	04/17/2002	PROFILE	60.00	60.00	11.47	11.47	8330N	NITROGLYCERIN	NO
G213DBA	MW-213	04/17/2002	PROFILE	60.00	60.00	11.47	11.47	OC21V	ACETONE	
G213DBA	MW-213	04/17/2002	PROFILE	60.00	60.00	11.47	11.47	OC21V	CHLOROFORM	
G213DCA	MW-213	04/17/2002	PROFILE	70.00	70.00	21.47	21.47	8330N	NITROGLYCERIN	NO

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 SAMPLES COLLECTED 03/30/02 - 04/19/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G213DCA	MW-213	04/17/2002	PROFILE	70.00	70.00	21.47	21.47	OC21V	CHLOROFORM	
G213DDA	MW-213	04/17/2002	PROFILE	810.00	80.00	31.47	31.47	OC21V	ACETONE	
G213DDA	MW-213	04/17/2002	PROFILE	810.00	80.00	31.47	31.47	OC21V	CHLOROFORM	
G213DDA	MW-213	04/17/2002	PROFILE	810.00	80.00	31.47	31.47	OC21V	METHYL ETHYL KETONE (2-BUT,	
G213DEA	MW-213	04/17/2002	PROFILE	90.00	90.00	41.47	41.47	OC21V	ACETONE	
G213DEA	MW-213	04/17/2002	PROFILE	90.00	90.00	41.47	41.47	OC21V	CHLOROFORM	
G213DEA	MW-213	04/17/2002	PROFILE	90.00	90.00	41.47	41.47	OC21V	METHYL ETHYL KETONE (2-BUT,	
G213DFA	MW-213	04/18/2002	PROFILE	100.00	100.00	51.47	51.47	OC21V	ACETONE	
G213DGA	MW-213	04/18/2002	PROFILE	110.00	110.00	61.47	61.47	OC21V	ACETONE	
G213DGA	MW-213	04/18/2002	PROFILE	110.00	110.00	61.47	61.47	OC21V	CHLOROFORM	
G213DHA	MW-213	04/18/2002	PROFILE	120.00	120.00	71.47	71.47	OC21V	CHLOROFORM	

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