MONTHLY PROGRESS REPORT #32 FOR NOVEMBER 1999

EPA REGION I ADMINISTRATIVE ORDER SDWA I-97-1019 MASSACHUSETTS MILITARY RESERVATION TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from November 1 to November 30, 1999. Scheduled actions are for the six-week period ending January 7, 1999.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of November 26 is summarized in Table 1.

| Boring Number | Purpose of Boring/Well | Total Depth (ft BGS) | Saturated Depth (ft BWT) | Completed Well Screens (ft BGS) |
|------------------|-------------------------|----------------------|--------------------------------|---------------------------------------|
| MW-48 | Re-drill of MW-48S | 111 | 10 | 99-109 |
| MW-56b | J Well far field well | 188 | 117 | 131-141 156-166 176-186 |
| MW-57 | Sandwich far field well | 327 | 240 | 85-95 117-127 |
| MW-57b | Sandwich far field well | 225 | 137 | |
| MW-75 | Demo 1 response well | 200 | 117 | 81-91 115-125 140-150 |
| MW-77 | Demo 1 response well | 190 | 105 | 83-93 120-130 180-190 |
| MW-79 | Demo 1 response well | 200 | 110 | 89-99 116-126 156-166 |

Samples collected during the month are summarized in Table 2. Groundwater sampling was completed for round 2 of the supplemental IRP wells, round 2 of the base water supply wells, round 2 of the off-base water supply wells, round 3 of the Priority Group 1 far field wells, round 3 of the Phase I wells, and round 3 of the Phase II (a) wells (except MW-37, -40, -44). Groundwater sampling began for round 1 of the new Priority Group 2 far field wells. Groundwater profile samples were collected from MW-57, MW-75, MW-77, and MW-79; locations and drilling status for these wells are indicated in Table 1. Soil samples were collected from areas 3 (near MW-1), 11 (MW-25), and 46 (90WT0013) in accordance with the Final Workplan for Phase II (a) Activities (7/27/99). Soil samples were collected from areas 59 (GP-8) and 60 (GP-10) in accordance with the Draft Phase II (a) Field Sampling Plan for Gun and Mortar Positions (7/2/99). Post-excavation soil samples were collected from Demo 2 and the J Range location where explosives were detected previously. A field reconnaissance was conducted on the potential targets along Turpentine Road, the trench along Turpentine Road, the cleared area south of the CS-19 bunker, the cleared area north of Herbert Road, and the mortar targets. There were no technical meetings during the weeks of November 8th and November 22nd due to holidays.

The Guard, EPA, and MADEP had a meeting on November 4 to discuss technical issues, including the following:

- Jacobs Engineering gave an update on the future CS-19 investigation. The UXO survey will commence on November 18th. Surface soil sampling will commence on December 6th. They are awaiting funding for the deep soil sampling and well installation. Ogden stated that they received the agency comments on the Trenches FSP and will include the cleared area and the bunker in the investigation. UXO avoidance will be performed the week of December 6th. Ogden will check with the UXO contractor about a safety zone while performing avoidance work_since Jacobs is scheduled to be sampling in the vicinity at that time.
- Screen depths were selected for two locations. The draft boring log and profile data for MW-56 was faxed on Tuesday and the draft boring log and profile data for MW-57 was distributed at the meeting. It was agreed to set the remaining three screens for MW-56 at 60' to 70' BWT, 85' to 95' BWT, and 105' to 115' BWT. Tetrachloroethene was detected in the preliminary results for shallow profile samples from MW-57. It was agreed to set the first two screens in MW-57 at the water table and at 30' to 40' BWT. The EPA requested a backward particle track from the affected profile samples at MW-57, and a travel time for the previous particle track from MW-18M1.
- The status of the detonation craters at Demo 2 and the J Range were discussed. Approximately 55 gallons of soil has been excavated and containerized at Demo 2 and approximately 1 gallon of soil at the J Range D crater was excavated and containerized. The soil is awaiting characterization and off site disposal. Ogden will collect post excavation samples from these locations (done 11/5).
- The Demo 2 groundwater in relation to the LRWS 1 ZOC was discussed. It did not appear that the ZOC for LRWS 1 intersected Demo 2. Ogden will identify the ZOC that passes closest to Demo 2.
- A six-page handout of the forward and reverse particle tracks of DP-8 and DP-9 was provided. The data for DP-8 suggest a fairly large source area for RDX extending from near the center of the J-3 Range to the south to Greenway Road. An alternative explanation would be that a small source area existed along Greenway Road, and the drilling process inadvertently dragged down the resulting shallow RDX detection at DP-8. The EPA asked what the Guard was proposing to do for these detections. The Guard stated that they would like to wait for Textron's response because the detections back track to the J-3 Range and that the groundwater is currently being captured by the FS-12 treatment system. The Guard stated that the draft letter to Textron would be ready for Agency review tomorrow (sent 11/5). EPA asked for a cross section of this area to show all the well screen depths. The Guard distributed a 1-page figure of a cross section that had been done previously.
- The Guard's request to reduce the analytes for the third round of Phase II (a) wells was discussed. The EPA will review and have an answer by Tuesday (11/9). The proposal to delay sampling these wells in order to include the perchlorate analysis was also discussed. EPA indicated that this delay is unlikely.
- Selected EPA and DEP comments to the Mortar Targets FSP, Trenches FSP, and Tech Memo 99-2 were discussed, as summarized below

Mortar Targets

General Comment 2 - EPA clarified that suspected targets were observed west of Turpentine Road and north of Wheelock Road during the recent flyover. The EPA requested that the suspected targets west of Turpentine be included in the investigation and get the same level of reconnaissance detail as the other targets. Ogden stated that the reconnaissance may be performed next week when the UXO contractor is onsite, but in any case this will be added to the plan.

Specific Comment 1 - Ogden indicated that targets will be sampled as proposed if UXO clearance indicates that the 40mm rounds are inert. If these are live rounds, access for sampling would likely be denied. The Guard will provide additional information on the training with these rounds, from Range Control records.

Specific Comment 6 - EPA questioned why proposed monitoring well PMT-1 is located so close to existing monitoring well MW-9. Ogden stated that PMT-1 location was chosen to be downgradient of a majority of the targets. EPA requested that the Guard review the profile data from MW-15.

Trenches

General Comment 2 - EPA partially approved the workplan under the condition that this work provides a first phase to the requirement, with additional investigations to be included at a later date. Ogden asked what would trigger the additional investigation. EPA stated that the geophysical survey or sampling results could trigger the additional investigations.

General Comment 3 - EPA stated that the plan does not address the location of former buildings. Ogden stated that the former buildings outside the Impact Area will be included in the Phase II (b) workplan or the J Range workplan. EPA agreed that this would be acceptable provided a section is added to the FSP explaining this. EPA noted that the ASR contains a 1949 map (Appendix L-3) showing building locations.

Specific Comment 4 - EPA indicated that a trench was observed during the flyover west of Turpentine Road and should be included in the investigation. Ogden agreed to include a recon of this trench next week if possible, otherwise the recon will be discussed in the workplan.

DEP asked what was BK-2 used for. The Guard stated that it could have been used to view historic targets that no longer exit in that area or it could have been used to provide a side view of the J-1 Range.

Tech Memo 99-2

The Guard will prepare responses to the EPA comments on TM 99-2 and 99-3.

- The response to comments on the Response Plan for RDX Detections was discussed briefly. There appears to be general agreement on the approach, and EPA expects to approve the plan. If a different drilling technique is going to be used then a new approval will be required. A trial of an alternative drilling method is expected at the end of November or early December, using the Sonic rig that is currently completing far field wells.
- Ogden gave a summary of the current and future field activities which include continued Sonic
 drilling on MW-57 (Sandwich far field) and MW-56 (J Well far field) later next week, Barber drilling
 on MW-79 (upgradient Demo 1 well) which will move to MW-77 (Demo 1downgradient center line

of particle track), continued groundwater development and sampling, and soil sampling at the targets at MW-1 and MW-25 (explosive source area investigation).

The Guard, EPA, and MADEP had a meeting on November 18 to discuss technical issues, including the following:

- Jacobs provided an update on the activities at CS-19. Their UXO subcontractor commenced work today and should finish by Wednesday (11/24). Soil sampling is scheduled to start on December 6th.
- A 2-page handout of the data and a map showing the locations of the post excavation samples from the UXO detonation at Demo 2 were provided. Explosives have been detected but concentrations have been reduced from the original sampling. The Guard proposes to use a backhoe to remove an additional 6 inches of soil over the same area and re-sample. TRC asked if SVOC were sampled. The Guard stated that SVOC samples were collected on the first sampling round but not on this current round of sampling. The Guard stated that the final closure sampling will have SVOC samples collected if they are a constituent of concern in the initial samples. The Guard hopes to conduct the additional excavation during the week of 11/29/99 but needs to coordinate the schedule with Range Control because there is hunting that week. The detonation area will be covered to reduce infiltration prior to excavation.
- A 1-page handout of the soil sample locations from the APC was distributed. The analytical results from these samples were faxed out on November 11th and had explosives detected. The Guard proposed to collect more samples in the area to find the extent of contamination. The Guard will prepare a sampling plan by Tuesday. EPA asked if this APC may have been a target. The Guard stated that it may have been. EPA agreed that the proposed sampling should be performed in grids.
- A 2-page handout of the document status was distributed. Ogden stated that the table has been modified to show more detail on document revision status. The table will be updated periodically. The Guard requested that Tetra Tech format their table in the same format. The status of the various documents was discussed. It was agreed to conduct comment resolution for the Mortar Target FSP via a conference call at 0800 on 11/29, in order to meet the deadline of completing the FSP by 12/6/99. The timing of the Interim Longterm Monitoring Report and the Phase II CWR were explained as being dependent on the results of 3rd round sampling of Group 1 and Group 2 (original) wells, respectively.
- The e-mail between EPA and Ogden on the differences between compositions of Gun and Mortar
 propellant was discussed. EPA will contact Mr. Feigenbaum to determine what he was requesting in
 the last IART meeting. The Guard will have a propellant expert available to answer questions at the
 next IART meeting.
- The field activity update was given by Ogden and Tetra Tech. The Tetra Tech crew is performing work at the calibration area and is awaiting a shipment of additional inert rounds. They are about to award the geophysical contract and are preparing bids to go to the surveyor. Tetra Tech requested any bench marks that Ogden's surveyor has installed. Ogden is continuing to drill at MW-75 and MW-57, groundwater sample, and collect soil samples at GP-8. EPA will e-mail the approval to discharge water from the decon pad per Ogden's request. Ogden stated that the EPA method 8321 laboratory will be online in January and will need EPA comments in the next few weeks on locations to sample. DEP requested that Don Muldoon be included on all correspondence relating to the PEP comments.

- A 2-page handout of Mortar Target FSP change pages was distributed. The reconnaissance of potential targets along Turpentine Road was discussed. These scrap piles don't appear to be targets, and sampling is not proposed for these areas. The 1997 profile data from MW-15 were discussed along with the need to install an additional well downgradient of the mortar targets. It was agreed to include two wells in this plan and that their locations would depend on soil sampling results. Ogden indicated that the comment response and additional change pages would be sent on Friday (11/19).
- A 4-page handout of Trench FSP change pages was distributed. The reconnaissance of the CS-19 bunker cleared area and the trench along Turpentine Road were discussed. The comment response and additional change pages will be sent on Friday (11/19).
- A 1-page figure depicting the Former H Range was distributed. Ogden indicated that the locations of the soil grids were revised because of a problem with the historic aerial photo. EPA requested that the monitoring well locations for the CS-1 area be checked.
- A 5-page handout of the preliminary results for the first round of sampling base water supply wells was provided. There was one result above the MCL for lead at the ASP. The Guard indicated that the well was not used for drinking water. Additional monitoring is continuing in accordance with the Workplan for Completion of Phase I Activities.
- A 1-page handout of the letter that was distributed to the Raccoon Lane and Snake Pond area residences on the results of the well sampling was provided. There were no detections of explosives in any of the residential well samples.
- The status of the groundwater sampling of the supplemental IRP well 90MW0004 was discussed because it could not be sampled due to an obstruction. Ogden indicated that there were no other wells in the area that are not already being sampled.
- An 8-page handout of the MP-8 Range Packet was distributed for review. The packet includes information on what activities were authorized at that range.
- An 8-page handout of the non-explosive results from the August 1999 UXO detonation soil samples
 was provided. These samples were collected from the areas around MW-37, MW-40, Avery Road,
 and J-Range. There were no exceedances of MCP Reportable Concentrations (RCS1) for these
 samples. The Guard indicated that they would prepare a report summarizing all results for these
 samples.
- The EPA requested that the sampling of the MW-57 wells be rushed and that the VOC samples be submitted on a quick turn around. The agency would like VOC results before the 12/15 IART meeting. A response plan may be needed if the PCE detects in profile samples are confirmed.
- EPA mentioned potential NFA decisions by AFCEE for CS-22 and CS-8 (USCG).
- The EPA requested an update on the 95-14 sample results. Ogden will look into it.
- EPA requested an update on the status of the Gun and Mortar wells. Ogden indicated that all have been sampled and an update on results will be provided Friday (11/19).
- EPA requested that MW-16 and the LRWS 1 ZOC be discussed at the next technical meeting.

- Ogden asked whether the Phase II CWR should include risk assessment where there are three rounds
 of groundwater monitoring results. EPA will discuss internally and with DEP, to consider how to
 factor in the MCP approach.
- EPA requested that the Guard be present at any of the JPAT meetings when CS-19 or CS-18 are discussed. The next meeting is 1/12/00 and it is likely that CS-18 and CS-19 will be discussed.
- Ogden received the EPA comments to comment responses for the Gun and Mortar FSP; change pages will be prepared showing the additional F Range grids, and the composite sampling approach.
- Paper copies of a 11/3/99 emailed letter describing the groundwater sampling plans were distributed for agency review.
- EPA asked the Guard to check out the grid on the northern section of the Old H range which is located close to Greenway Road. EPA does not want the samples collected from road construction materials.
- The Draft KD and U Range Tech Memo was distributed for agency review.
- Ogden stated that the J-3 Wetland Tech Memo will be provided to the Agencies by next week
- Ogden stated that they are currently working on the Background Groundwater Tech Memo and the Supplement to the Interim Results Report.

2. SUMMARY OF DATA RECEIVED

Validated Data

Validated data were received during November for Sample Delivery Groups (SDGs) 120, 174, 175, 176, 177, 180, 182, 184, 185, 186, 188, 189, 190, and 191. These SDGs contain results for 14 soil samples from the August 1999 detonation craters, 23 deep soil samples from the borings at the KD and U Ranges, 103 profile samples from DP-11, MW-63, MW-81, MW-82, MW-83, and MW-84, and 100 groundwater samples from monitoring and supply wells.

Figures 1 through 5 depict the cumulative results of groundwater analyses for the period from the start of the IAGS (July 1997) to the present. Each figure depicts results for a different analyte class:

- Figure 1 shows the results of explosive analyses by EPA Method 8330
- Figure 2 shows the results of inorganic analyses (collectively referred to as "metals", though some analytes are not true metals) by methods 300.0, 350.2M, 353M, 365.2, CYAN, IM40/MB, and IM40HG
- Figure 3 shows the results of Volatile Organic Compound (VOC) analyses by methods OC21V, 504, and 8021W
- Figure 4 shows the results of Semi-Volatile Organic Compound (SVOC) analyses by method OC21B
- Figure 5 shows the results of Pesticide (method OL21P) and Herbicide (method 8151) analyses

The concentrations from these analyses are depicted in Figures 1-5 compared to Maximum Contaminant Levels (MCLs) or Health Advisories (HAs) published by EPA for drinking water. A red circle is used to depict a well where the concentration of one or more analytes is greater than or equal to (GTE) the lowest MCL or HA for the analyte(s). A yellow circle is used to depict a well where the concentration of all

analytes is less than (LT) the lowest MCL or HA. A green circle is used to depict a well where the given analytes were not detected. An open circle is used to depict an existing well where the analytes in question (for example, Explosives in Figure 1) have not yet been measured. Table 3 summarizes the detections that exceeded a MCL or HA, sorted by analytical method and analyte.

There are multiple labels listed for some wells in Figures 1-5, which indicate multiple well screens at different depths throughout the aquifer. The aquifer is approximately 200-300 feet thick in the study area. Well screens are positioned throughout this thickness based on various factors, including the results of groundwater profile samples, the geology, and projected locations of contaminants estimated by groundwater modeling. The screen labels are colored to indicate which of the depths had the chemical detected above MCLs/HAs. Generally, groundwater entering the top of the aquifer will move deeper into the aquifer as it moves radially outward from the top of the water table mound. Light blue dashed lines in Figures 1-5 depict water table contours. Groundwater generally moves perpendicular to these contours. The rate of vertical groundwater flow deeper into the aquifer slows as groundwater moves away from the mound.

The results presented in Figures 1-5 are cumulative, which provides a historical perspective on the data rather than a depiction of current conditions. Any detection at a well that equals or exceeds the MCL/HA results in the well having a red symbol, regardless of later detections at lower concentrations, or later non-detects. The difference between historical and current conditions varies according to the type of analytes. There are little or no differences between historical and current exceedances of drinking water criteria for Explosives, VOCs, Pesticides, and Herbicides. There are significant differences between historical and current exceedances of drinking water criteria for Metals and SVOCs, as described further below.

Figure 1: Explosives in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for explosive compounds are indicated in three general areas: Demo Area 1 (wells 19, 31, 34, and 73); the Impact Area and CS-19 (wells 58MW0002, 58MW0009E, 1, 2, 23, 25, and 38); and southeast of the J Ranges (wells 90MW0022, 90WT0013). CS-19 is a site located in the Impact Area that is currently under investigation by the Air Force Center for Environmental Excellence (AFCEE) under the Superfund program. A bunker and cleared area on the north side of CS-19 is under investigation under the IAGS. Studies are currently underway to delineate the extent of contaminants in the Impact Area, which may include several separate sources. Exceedances of drinking water criteria were measured for 2,4,6-trinitrotoluene (TNT) at Demo Area 1 (well 19S), and for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) at the other locations. One of the exceedance wells, 90WT0013, has had no detectable explosives in the last two sample rounds (January and October 1999).

Figure 2: Metals in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for metals are scattered throughout the study area, and where two or more rounds of sampling data are available, generally have not been replicated in consecutive sampling rounds. The exceedances have been measured for antimony, lead, molybdenum, sodium, thallium and zinc. The one lead exceedance (well 2S) was not repeated in a subsequent sampling round. None of the 9 antimony exceedances were repeated in consecutive sampling rounds. Three of the 29 molybdenum exceedances were repeated in consecutive sampling rounds (wells 13D, 2S, and 46M2). Two of the 27 thallium exceedances were repeated in consecutive sampling rounds (wells 7M2 and 47M2). Two of the 9 sodium exceedances were repeated in consecutive sampling rounds (wells 2S and SDW261160). Zinc exceeded the HA in six wells, all of which are constructed of galvanized (zinc-coated) steel.

The distribution and lack of repeatability of the metals exceedances is not consistent with a contaminant source, nor do the detections appear to be correlated with the presence of explosives or other organic

compounds. The Guard has re-evaluated inorganic background concentrations using the expanded groundwater quality database of 1999, and has submitted a draft report describing background conditions. This draft report indicates that of the six metals exceeding drinking water criteria, only molybdenum is potentially associated with the site. The population characteristics of the remaining five metals were determined to be consistent with background.

Figure 3: VOCs in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for VOCs are indicated in two general areas: CS-10 (wells 03MW0007A, 03MW0014A, and 03MW0020), and LF-1 (well 27MW0017B). CS-10 and LF-1 are sites located near the southern extent of the Training Ranges that are currently under investigation by AFCEE under the Superfund program. Exceedances of drinking water criteria were measured for tetrachloroethylene (PCE) at CS-10, and for vinyl chloride at LF-1. These compounds are believed to be associated with the sites under investigation by AFCEE.

Figure 4: SVOCs in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for SVOCs are scattered throughout the study area. All exceedances of drinking water criteria for SVOCs were measured for bis (2-ethylhexyl) phthalate (BEHP), except for one location (well 45S, see Inset B) which had an exceedance for naphthalene, and well 41M1 which had an estimated level of 2,6-dinitrotoluene (DNT) that is equal to the HA. BEHP is believed to be largely an artifact of the investigation methods, introduced to the samples during collection or analysis. A detailed discussion of the presence of BEHP is provided in the Draft Completion of Work Report (7/97) and subsequent responses to comments. The theory that BEHP occurs as an artifact, and is not really present in the aquifer, is supported by the results of the latest sampling round that show much lower levels of the chemical after additional precautions were taken to prevent cross-contamination. Only three locations showed BEHP exceedances in consecutive sampling rounds: 28MW0106 (located near SD-5, a site under investigation by AFCEE), 58MW0006E (located at CS-19), and 90WT0013 (located at FS-12, a site under investigation by AFCEE). The naphthalene exceedance at well 45S is also located in FS-12.

The 2,6-DNT detected at well 41M1 is interesting in that the explosive analysis of this sample by EPA Method 8330 did not detect this compound. The reporting limit under Method 8330 is much lower than the limit for the SVOC method. Well 41M1 was installed along the groundwater flow path downgradient from well 2M2, which has had RDX detected above the HA in the explosive analysis as indicated above. This was the second sampling round for this well, which did not have 2,6-DNT detected by either the SVOC method or the explosive method in the first round.

Figure 5: Herbicides and Pesticides in Groundwater Compared to MCLs/HAs

There was one exceedance of drinking water criteria for herbicides or pesticides, at well PPAWSMW-1. A contractor to the United States Air Force installed this monitoring well at the PAVE PAWS radar station in accordance with the Massachusetts Contingency Plan (MCP), in order to evaluate contamination from a fuel spill. The exceedance was for the pesticide dieldrin in a sample collected in June 1999. This well was sampled again in November 1999. The results of the November sample indicate no detectable pesticides although hydrocarbon interference was noted. It appears from the November sample that pesticides identified in the June sample were false positives. However, the June sample results cannot be changed when following the EPA functional guidelines for data validation. The text of the validation report for the June sample will be revised to include an explanation of the hydrocarbon interference and the potential for false positives.

Rush (Non-Validated) Data

Rush data are summarized in Table 4. 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 VOC analyses for profile samples, are conducted in this timeframe. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 4 summarizes only detects, and does not show samples with non-detects.

The status of the detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 4. 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 4, 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. Most explosive detections verified by PDA are confirmed to be present upon completion of validation.

Table 4 indicates PDA-verified explosive detections in a number of wells where they have been previously detected. Monitoring well samples are indicated in the "SAMP_TYPE" column as "GROUNDWATER". The explosive detections were verified at wells 38M3, 38M4, 39M2, 43M2, 59S, and 73S. All these wells had previous detections of the same compounds, except for 73S where 2-amino-4,6-DNT was detected for the first time. Well 73S is located in Demo 1 and had detections of 4-amino-2,6-DNT, RDX, and HMX in all three sampling rounds.

Table 4 also indicates PDA-verified explosive detections in some groundwater profile samples from the current round of drilling. Profile samples are indicated in the "SAMP_TYPE" column as "PROFILE". RDX and 2,6-DNT were detected in profile samples from MW-75, which was installed downgradient from Demo Area 1. RDX, HMX, and 4-amino-2,6-DNT were detected in profile samples from MW-77, which was installed downgradient from Demo Area 1. Profile samples from MW-57 (the Sandwich far field well cluster) contained the VOCs chloroform (which appears to be naturally occurring), toluene, tetrachloroethylene, 1,1,1-trichloroethane, trichloroethylene, and bromochloromethane.

Table 4 lists PDA-verified explosive detections for three soil samples. These consist of RDX and HMX detected in post-excavation samples at Demo Area 2 where artillery simulators were detonated on October 2. The samples were collected following removal of soil containing explosives from one of the craters.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

| Draft Interim Results Report | 11/1/99 |
|--|----------|
| Weekly Progress Update (Oct 18-22) | 11/3/99 |
| Draft Technical Memo 99-1 for KD and U Ranges | 11/3/99 |
| Draft Technical Memo 99-4 for J-3 Wetland | 11/4/99 |
| Weekly Progress Update (Oct 25-29) | 11/5/99 |
| Monthly Progress Report #31 (October1999) | 11/10/99 |
| Correction to 10/28/99 Public Meeting Map for Metals | 11/11/99 |
| Weekly Progress Report (November 1-5) | 11/17/99 |
| Weekly Progress Report (November 8-12) | 11/21/99 |

4. SCHEDULED ACTIONS

Figure 6 provides a Gantt chart based on the Final Action Plan, updated to reflected progress and proposed work. Activities scheduled for December and early January include: development and sampling of MW-57 wells; development of other newly installed wells; second round of sampling for the Group 2 far field wells; start soil sampling at mortar targets, trenches, and the APC grids; continue soil sampling for gun/mortar positions; and the continued drilling of Demo 1 response wells. The next meeting of the Impact Area Groundwater Study Review Team has been scheduled for December 15, 1999.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Drilling was completed at the upgradient well (MW-79). The groundwater profile data for MW-79 had no detections of explosives that were verified by PDA spectra. Groundwater profiling was completed at the downgradient well MW-77 located directly on the flow path from Demo 1. The groundwater profile data for MW-77 had detections of explosives that were verified by PDA spectra. These detections are consistent with upgradient detections at MW-31 and –19, crossgradient detections at MW-76 to the south, and downgradient detections at MW-34. The magnitude of detections is consistent with the modeled flow path, higher at MW-77 located on the flow path than at MW-76 located south of the flow path. Well screens were selected for MW-77 based on the profile data, and installed for future sampling. Groundwater profiling was completed at the downgradient well MW-75 located north of the flow path from Demo 1. Profile results from the upper portion of MW-75 indicate that RDX and HMX are present at depths consistent with migration from Demo 1. Profile results from MW-75 had detections of explosives that were verified by PDA spectra. Well installation was completed in MW-75. The Guard and regulatory agencies will discuss the profile results to date and determine where the final two downgradient response well nests should be located. Drilling to install these well nests is scheduled to commence during the week of January 3, 2000.

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|-------------|------------------|-------------------------|-------------|------|------|-------|-------|
| 03MW0007A-E | FIELDQC | 11/2/1999 | FIELDQC | 0.00 | 0.00 | | |
| 15MW0005-E | FIELDQC | 11/4/1999 | FIELDQC | 0.00 | 0.00 | | |
| 90LWA0007-E | FIELDQC | 11/5/1999 | FIELDQC | 0.00 | 0.00 | | |
| 90LWA0007-E | FIELDQC | 11/15/1999 | FIELDQC | 0.00 | 0.00 | | |
| 95-6A-E | FIELDQC | 11/10/1999 | FIELDQC | 0.00 | 0.00 | | |
| 95ES-E | FIELDQC | 11/17/1999 | FIELDQC | 0.00 | 0.00 | | |
| 95ES-T | FIELDQC | 11/16/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DCE | FIELDQC | 11/1/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DCT | FIELDQC | 11/1/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DIE | FIELDQC | 11/2/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DIT | FIELDQC | 11/2/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DNE | FIELDQC | 11/3/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DNT | FIELDQC | 11/3/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DTE | FIELDQC | 11/4/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DTT | FIELDQC | 11/4/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DWE | FIELDQC | 11/5/1999 | FIELDQC | 0.00 | 0.00 | | |
| G57DWT | FIELDQC | 11/5/1999 | FIELDQC | 0.00 | 0.00 | | |
| G75MAE | FIELDQC | 11/18/1999 | FIELDQC | 0.00 | 0.00 | | |
| G75MKE | FIELDQC | 11/19/1999 | FIELDQC | 0.00 | 0.00 | | |
| G77MBE | FIELDQC | 11/8/1999 | FIELDQC | 0.00 | 0.00 | | |
| G77MDE | FIELDQC | 11/9/1999 | FIELDQC | 0.00 | 0.00 | | |
| G79MEE | FIELDQC | 11/1/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC03P1AAE | FIELDQC | 11/10/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC03P1AAT | FIELDQC | 11/10/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC03Q1BAE | FIELDQC | 11/11/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC03Q1BAT | FIELDQC | 11/11/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC03T1AAE | FIELDQC | 11/4/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC03U1CAT | FIELDQC | 11/4/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC11F1AAE | FIELDQC | 11/5/1999 | FIELDQC | 0.00 | 0.00 | | |
| | FIELDQC | | FIELDQC | 0.00 | 0.00 | | |
| HC11GAAE | FIELDQC | 11/4/1999 11/12/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC46B1AAE | FIELDQC | | FIELDQC | 0.00 | | | |
| HC59A1AAE | | 11/17/1999 | | | 0.00 | | |
| HC59A1AAT | FIELDQC | 11/17/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC59D1AAE | FIELDQC | 11/18/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC59D1AAT | FIELDQC | 11/18/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC60E1BAE | FIELDQC | 11/24/1999 | FIELDQC | 0.00 | 0.00 | | |
| HC60E1BAT | FIELDQC | 11/24/1999 | FIELDQC | 0.00 | 0.00 | | |
| | FIELDQC | | FIELDQC | 0.00 | | | |
| W42M1T | FIELDQC | 11/12/1999 | FIELDQC | 0.00 | 0.00 | | |
| W43SST | FIELDQC | 11/15/1999 | FIELDQC | 0.00 | 0.00 | | |
| W46SST | FIELDQC | 11/19/1999 | FIELDQC | 0.00 | 0.00 | | |
| W54M2T | FIELDQC | 11/9/1999 | FIELDQC | 0.00 | 0.00 | | |
| W54SST | FIELDQC | 11/8/1999 | FIELDQC | 0.00 | 0.00 | | |
| W58SST | FIELDQC | 11/23/1999 | FIELDQC | 0.00 | 0.00 | | |
| W59SST | FIELDQC | 11/22/1999 | FIELDQC | 0.00 | 0.00 | | |
| 03MW0007A | 03MW0007A | 11/2/1999 | GROUNDWATER | | | 21.00 | 26.00 |
| 03MW0014A | 03MW0014A | 11/4/1999 | GROUNDWATER | | | 38.00 | 43.00 |
| 03MW0020 | 03MW0020 | 11/2/1999 | GROUNDWATER | | | 36.00 | 41.00 |
| 15MW0005 | 15MW0005 | 11/4/1999 | GROUNDWATER | | | 3.00 | 13.00 |

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

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|------------------|------------------|------------|-------------|-----|-----|--------|--------|
| 4261000-02G | 4261000-02G | 11/3/1999 | GROUNDWATER | | | | |
| 4261000-03G | 4261000-03G | 11/3/1999 | GROUNDWATER | | | | |
| 4261000-04G | 4261000-04G | 11/3/1999 | GROUNDWATER | | | | |
| 4261000-06G | 4261000-06G | 11/3/1999 | GROUNDWATER | | | | |
| 4261000-09G | 4261000-09G | 11/3/1999 | GROUNDWATER | | | | |
| 4261000-10G | 4261000-10G | 11/3/1999 | GROUNDWATER | | | | |
| 4261000-11G | 4261000-11G | 11/3/1999 | GROUNDWATER | | | | |
| 90LWA0007 | 90LWA0007 | 11/15/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| 95-15A | 95-15A | 11/10/1999 | GROUNDWATER | | | 138.00 | 148.00 |
| 95-6A | 95-6A | 11/9/1999 | GROUNDWATER | | | 142.00 | 152.00 |
| 95ES | 95ES | 11/16/1999 | GROUNDWATER | | | -5.38 | 4.62 |
| ECMWSP02D | DP-2 | 11/30/1999 | GROUNDWATER | | | 79.90 | 84.90 |
| ECMWSP02S | DP-2 | 11/30/1999 | GROUNDWATER | | | 40.00 | 45.00 |
| ECMWSP03D | DP-3 | 11/30/1999 | GROUNDWATER | | | 79.90 | 84.90 |
| ECMWSP03S | DP-3 | 11/29/1999 | GROUNDWATER | | | 40.00 | 45.00 |
| PPAWSMW-1 | PPAWSMW-1 | 11/3/1999 | GROUNDWATER | | | 10.00 | 20.00 |
| PPAWSMW-3 | PPAWSMW-3 | 11/3/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| USCGANTST | USCGANTST | 11/3/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W21M2A | MW-21 | 11/1/1999 | GROUNDWATER | | | 58.00 | 68.00 |
| W21M3A | MW-21 | 11/1/1999 | GROUNDWATER | | | 28.00 | 38.00 |
| W38DDA | MW-38 | 11/11/1999 | GROUNDWATER | | | 125.00 | 135.00 |
| W38M1A | MW-38 | 11/9/1999 | GROUNDWATER | | | 100.00 | 110.00 |
| W38M2A | MW-38 | 11/9/1999 | GROUNDWATER | | | 70.00 | 80.00 |
| W38M3A | MW-38 | 11/10/1999 | GROUNDWATER | | | 53.00 | 63.00 |
| W38M4A | MW-38 | 11/11/1999 | GROUNDWATER | | | 15.00 | 25.00 |
| W38SSA | MW-38 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W38SSD | MW-38 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W39M1A | MW-39 | 11/11/1999 | GROUNDWATER | | | 87.00 | 97.00 |
| W39M2A | MW-39 | 11/10/1999 | GROUNDWATER | | | 42.00 | 52.00 |
| W39SSA | MW-39 | 11/17/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W41M1A | MW-41 | 11/12/1999 | GROUNDWATER | | | 110.00 | 120.00 |
| W41M1A W41M2A | MW-41 | 11/12/1999 | GROUNDWATER | | | 119.00 | 129.00 |
| W41M2D | MW-41 | 11/12/1999 | GROUNDWATER | | | 119.00 | 129.00 |
| W41M3A | MW-41 | 11/12/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W42M1A | MW-42 | 11/11/1999 | GROUNDWATER | | | 139.00 | 149.00 |
| W42M1A W42M2A | MW-42 | 11/12/1999 | GROUNDWATER | | | 119.00 | 129.00 |
| W42M3A | MW-42 | 11/12/1999 | GROUNDWATER | | | 99.00 | |
| | MW-43 | | | | | 93.00 | 109.00 |
| W43M1A | n e | 11/15/1999 | | | | | |
| W43M1D | MW-43 | 11/15/1999 | GROUNDWATER | | | 93.00 | 103.00 |
| W43M2A | MW-43 | 11/18/1999 | 1 | | | 70.00 | 80.00 |
| W43SSA | MW-43 | 11/15/1999 | 1 | | | 0.00 | 10.00 |
| W45M1A | MW-45 | 11/15/1999 | 11 1 | | | 98.00 | 108.00 |
| W45M1D | MW-45 | 11/15/1999 | GROUNDWATER | | | 98.00 | 108.00 |
| W45M2A | MW-45 | 11/15/1999 | GROUNDWATER | | | 18.00 | 28.00 |
| W45SSA | MW-45 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W46DDA | MW-46 | 11/2/1999 | GROUNDWATER | | | 135.00 | 145.00 |
| W46M1A | MW-46 | 11/1/1999 | GROUNDWATER | | | 102.00 | 112.00 |
| W46M2A | MW-46 | 11/1/1999 | GROUNDWATER | | | 55.00 | 65.00 |
| W46M3A | MW-46 | 11/1/1999 | GROUNDWATER | | | 22.00 | 32.00 |

Profiling methods include: Volatiles and Explosives

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SED = Sample End Depth, measured in feet bgs

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

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|----------|------------------|------------|-------------|-----|-----|--------|--------|
| W46SSA | MW-46 | 11/19/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W47DDA | MW-47 | 11/2/1999 | GROUNDWATER | | | 100.00 | 110.00 |
| W47M1A | MW-47 | 11/2/1999 | GROUNDWATER | | | 75.00 | 85.00 |
| W47M1D | MW-47 | 11/2/1999 | GROUNDWATER | | | 75.00 | 85.00 |
| W47M2A | MW-47 | 11/2/1999 | GROUNDWATER | | | 38.00 | 48.00 |
| W47M3A | MW-47 | 11/2/1999 | GROUNDWATER | | | 21.00 | 31.00 |
| W47SSA | MW-47 | 11/17/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W47SSD | MW-47 | 11/17/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W48DDA | MW-48 | 11/23/1999 | GROUNDWATER | | | 118.87 | 128.87 |
| W48M1A | MW-48 | 11/23/1999 | GROUNDWATER | | | 89.59 | 99.59 |
| W48M2A | MW-48 | 11/23/1999 | GROUNDWATER | | | 59.69 | 69.69 |
| W48M2D | MW-48 | 11/23/1999 | GROUNDWATER | | | 59.69 | 69.69 |
| W48M3A | MW-48 | 11/19/1999 | GROUNDWATER | | | 29.73 | 39.73 |
| W49DDA | MW-49 | 11/22/1999 | GROUNDWATER | | | 113.77 | 123.77 |
| W49M1A | MW-49 | 11/22/1999 | GROUNDWATER | | | 88.75 | 98.75 |
| W49M2A | MW-49 | 11/22/1999 | GROUNDWATER | | | 58.73 | 68.73 |
| W49M3A | MW-49 | 11/19/1999 | GROUNDWATER | | | 29.48 | 39.48 |
| W49SSA | MW-49 | 11/19/1999 | GROUNDWATER | | | -2.52 | 7.48 |
| W50DDA | MW-50 | 11/4/1999 | GROUNDWATER | | | 120.50 | 130.50 |
| W50M1A | MW-50 | 11/4/1999 | GROUNDWATER | | | 90.00 | 100.00 |
| W50M2A | MW-50 | 11/4/1999 | GROUNDWATER | | | 59.00 | 69.00 |
| W50M3A | MW-50 | 11/5/1999 | GROUNDWATER | | | 29.00 | 39.00 |
| W50SSA | MW-50 | 11/2/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W51DDA | MW-51 | 11/3/1999 | GROUNDWATER | | | 130.00 | 140.00 |
| W51M1A | MW-51 | 11/3/1999 | GROUNDWATER | | | 90.00 | 100.00 |
| W51M2A | MW-51 | 11/3/1999 | GROUNDWATER | | | 60.50 | 70.50 |
| W51M3A | MW-51 | 11/4/1999 | GROUNDWATER | | | 29.00 | 39.00 |
| W51SSA | MW-51 | 11/3/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W52DDA | MW-52 | 11/9/1999 | GROUNDWATER | | | 120.00 | 130.00 |
| W52M1A | MW-52 | 11/8/1999 | GROUNDWATER | | | 139.00 | 149.00 |
| W52M2A | MW-52 | 11/8/1999 | GROUNDWATER | | | 74.00 | 84.00 |
| W52M2D | MW-52 | 11/8/1999 | GROUNDWATER | | | 74.00 | 84.00 |
| W52M3A | MW-52 | 11/9/1999 | GROUNDWATER | | | 26.00 | 36.00 |
| W52M3L | MW-52 | 11/8/1999 | GROUNDWATER | | | 26.00 | 36.00 |
| W52SSA | MW-52 | 11/18/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W53DDA | MW-53 | 11/5/1999 | GROUNDWATER | | | 157.00 | 167.00 |
| W53M1A | MW-53 | 11/5/1999 | GROUNDWATER | | | 100.00 | 110.00 |
| W53M1L | MW-53 | 11/5/1999 | GROUNDWATER | | | 100.00 | 110.00 |
| W53M2A | MW-53 | 11/4/1999 | GROUNDWATER | | | 70.00 | 80.00 |
| W53M2D | MW-53 | 11/4/1999 | GROUNDWATER | | | 70.00 | 80.00 |
| W53M3A | MW-53 | 11/4/1999 | GROUNDWATER | | | 40.00 | 50.00 |
| W53SSA | MW-53 | 11/22/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W54DDA | MW-54 | 11/5/1999 | GROUNDWATER | | | 126.00 | 136.00 |
| W54M1A | MW-54 | 11/5/1999 | GROUNDWATER | | | 80.00 | 90.00 |
| W54M2A | MW-54 | 11/8/1999 | GROUNDWATER | | | 58.00 | 68.00 |
| W54M3A | MW-54 | 11/9/1999 | GROUNDWATER | | | 28.00 | 38.00 |
| W54SSA | MW-54 | 11/8/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W55DDA | MW-55 | 11/8/1999 | GROUNDWATER | | | 120.00 | 130.00 |
| W55M1A | MW-55 | 11/8/1999 | GROUNDWATER | | | 90.00 | 100.00 |

Profiling methods include: Volatiles and Explosives

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

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|----------|------------------|------------|-------------|--------|--------|--------|--------|
| W55M2A | MW-55 | 11/8/1999 | GROUNDWATER | | | 60.00 | 70.00 |
| W55M3A | MW-55 | 11/8/1999 | GROUNDWATER | | | 29.50 | 39.50 |
| W55SSA | MW-55 | 11/9/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W58SSA | MW-58 | 11/23/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W59M1A | MW-59 | 11/16/1999 | GROUNDWATER | | | 35.00 | 45.00 |
| W59M1D | MW-59 | 11/16/1999 | GROUNDWATER | | | 35.00 | 45.00 |
| W59M2A | MW-59 | 11/18/1999 | GROUNDWATER | | | 20.00 | 30.00 |
| W59SSA | MW-59 | 11/22/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W72SSA | MW-72 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W73SSA | MW-73 | 11/2/1999 | GROUNDWATER | | | 0.00 | 10.00 |
| W84DDA | MW-84 | 11/10/1999 | GROUNDWATER | | | 151.00 | 161.00 |
| W84M1A | MW-84 | 11/9/1999 | GROUNDWATER | | | 101.00 | 111.00 |
| W84M2A | MW-84 | 11/9/1999 | GROUNDWATER | | | 65.00 | 75.00 |
| W84M3A | MW-84 | 11/9/1999 | GROUNDWATER | | | 40.00 | 50.00 |
| DW1101 | GAC WATER | 11/1/1999 | IDW | 0.00 | 0.00 | | |
| DW1102 | GAC WATER | 11/2/1999 | IDW | 0.00 | 0.00 | | |
| DW1103 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| DW1104 | GAC WATER | 11/4/1999 | IDW | 0.00 | 0.00 | | |
| DW1108 | GAC WATER | 11/8/1999 | IDW | 0.00 | 0.00 | | |
| DW1109 | GAC WATER | 11/9/1999 | IDW | 0.00 | 0.00 | | |
| DW1110 | GAC WATER | 11/10/1999 | IDW | 0.00 | 0.00 | | |
| DW1116 | GAC WATER | 11/16/1999 | IDW | 0.00 | 0.00 | | |
| SC4801 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC4802 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC4901 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC4902 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC5601 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC5602 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC5801 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC5802 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC6701 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC6702 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7001 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7002 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7101 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7102 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7601 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7602 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7901 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| SC7902 | GAC WATER | 11/3/1999 | IDW | 0.00 | 0.00 | | |
| G57DCA | MW-57 | 11/1/1999 | PROFILE | 110.00 | 115.00 | 22.50 | 27.50 |
| G57DDA | MW-57 | 11/1/1999 | PROFILE | 120.00 | 125.00 | 32.50 | 37.50 |
| G57DEA | MW-57 | 11/1/1999 | PROFILE | 130.00 | 135.00 | 42.50 | 47.50 |
| G57DFA | MW-57 | 11/1/1999 | PROFILE | 140.00 | 145.00 | 52.50 | 57.50 |
| G57DGA | MW-57 | 11/1/1999 | PROFILE | 150.00 | 155.00 | 62.50 | 67.50 |
| G57DHA | MW-57 | 11/1/1999 | PROFILE | 160.00 | 165.00 | 72.50 | 77.50 |
| G57DHD | MW-57 | 11/1/1999 | PROFILE | 160.00 | 165.00 | 72.50 | 77.50 |
| G57DIA | MW-57 | 11/2/1999 | PROFILE | 170.00 | 175.00 | 82.50 | |
| G57DJA | MW-57 | 11/2/1999 | PROFILE | 180.00 | 185.00 | 92.50 | 97.50 |

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| OODEN ID | LOOID OD WELL ID | OAMBI ED | OAMBLE TYPE | | OED | DW/TO | DWTE |
|----------|------------------|------------|-------------|--------|--------|----------|----------|
| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
| G57DKA | MW-57 | 11/2/1999 | PROFILE | 190.00 | 195.00 | 102.50 | 107.50 |
| G57DLA | MW-57 | 11/2/1999 | PROFILE | 200.00 | 205.00 | 112.50 | 117.50 |
| G57DMA | MW-57 | 11/2/1999 | PROFILE | 210.00 | 215.00 | 122.50 | 127.50 |
| G57DNA | MW-57 | 11/3/1999 | PROFILE | 220.00 | 225.00 | 132.50 | 137.50 |
| G57DOA | MW-57 | 11/3/1999 | PROFILE | 230.00 | 235.00 | 142.50 | 147.50 |
| G57DPA | MW-57 | 11/3/1999 | PROFILE | 240.00 | 245.00 | 152.50 | 157.50 |
| G57DQA | MW-57 | 11/3/1999 | PROFILE | 250.00 | 255.00 | 162.50 | 167.50 |
| G57DQD | MW-57 | 11/3/1999 | PROFILE | 250.00 | 255.00 | 162.50 | 167.50 |
| G57DRA | MW-57 | 11/3/1999 | PROFILE | 260.00 | 265.00 | 172.50 | 177.50 |
| G57DSA | MW-57 | 11/3/1999 | PROFILE | 270.00 | 275.00 | 182.50 | 187.50 |
| G57DTA | MW-57 | 11/4/1999 | PROFILE | 280.00 | 285.00 | 192.50 | 197.50 |
| G57DUA | MW-57 | 11/4/1999 | PROFILE | 290.00 | 295.00 | 202.50 | 207.50 |
| G57DVA | MW-57 | 11/4/1999 | PROFILE | 300.00 | 305.00 | 212.50 | 217.50 |
| G57DWA | MW-57 | 11/5/1999 | PROFILE | 310.00 | 315.00 | 222.50 | 227.50 |
| G57DXA | MW-57 | 11/5/1999 | PROFILE | 317.00 | 322.00 | 229.50 | 234.50 |
| G75MAA | MW-75 | 11/18/1999 | PROFILE | 100.00 | 100.00 | 17.00 | 17.00 |
| G75MBA | MW-75 | 11/18/1999 | PROFILE | 110.00 | 110.00 | 27.00 | 27.00 |
| G75MBD | MW-75 | 11/18/1999 | PROFILE | 110.00 | 110.00 | 27.00 | 27.00 |
| G75MCA | MW-75 | 11/18/1999 | PROFILE | 120.00 | 120.00 | 37.00 | 37.00 |
| G75MDA | MW-75 | 11/18/1999 | PROFILE | 130.00 | 130.00 | 47.00 | 47.00 |
| G75MEA | MW-75 | 11/18/1999 | PROFILE | 140.00 | 140.00 | 57.00 | 57.00 |
| G75MFA | MW-75 | 11/18/1999 | PROFILE | 150.00 | 150.00 | 67.00 | 67.00 |
| G75MGA | MW-75 | 11/18/1999 | PROFILE | 160.00 | 160.00 | 77.00 | 77.00 |
| G75MHA | MW-75 | 11/18/1999 | PROFILE | 170.00 | 170.00 | 87.00 | 87.00 |
| G75MIA | MW-75 | 11/18/1999 | PROFILE | 180.00 | 180.00 | 97.00 | 97.00 |
| G75MID | MW-75 | 11/18/1999 | PROFILE | 180.00 | 180.00 | 97.00 | 97.00 |
| G75MJA | MW-75 | 11/18/1999 | PROFILE | 190.00 | 190.00 | 107.00 | 107.00 |
| G75MKA | MW-75 | 11/19/1999 | PROFILE | 200.00 | 200.00 | 117.00 | 117.00 |
| G77MAA | MW-77 | 11/8/1999 | PROFILE | 90.00 | 90.00 | 5.50 | 5.50 |
| G77MBA | MW-77 | 11/8/1999 | PROFILE | 100.00 | 100.00 | 15.50 | 15.50 |
| G77MCA | MW-77 | 11/8/1999 | PROFILE | 110.00 | 110.00 | 25.50 | 25.50 |
| G77MDA | MW-77 | 11/9/1999 | PROFILE | 120.00 | 120.00 | 35.50 | 35.50 |
| G77MDD | MW-77 | 11/9/1999 | PROFILE | 120.00 | 120.00 | 35.50 | 35.50 |
| G77MEA | MW-77 | 11/9/1999 | PROFILE | 130.00 | 130.00 | 45.50 | 45.50 |
| G77MFA | MW-77 | 11/9/1999 | PROFILE | 140.00 | 140.00 | 55.50 | 55.50 |
| G77MGA | MW-77 | 11/9/1999 | PROFILE | 150.00 | 150.00 | 65.50 | 65.50 |
| G77MHA | MW-77 | 11/9/1999 | PROFILE | 160.00 | 160.00 | 75.50 | 75.50 |
| G77MIA | MW-77 | | PROFILE | 170.00 | 170.00 | 85.50 | 85.50 |
| G77MJA | MW-77 | 11/9/1999 | PROFILE | 180.00 | 180.00 | 95.50 | 95.50 |
| G77MKA | MW-77 | 11/9/1999 | PROFILE | 190.00 | 190.00 | 105.50 | 105.50 |
| G79MEA | MW-79 | 11/1/1999 | PROFILE | 140.00 | 140.00 | 49.70 | 49.70 |
| G79MED | MW-79 | 11/1/1999 | PROFILE | 140.00 | 140.00 | 49.70 | 49.70 |
| G79MFA | MW-79 | 11/1/1999 | PROFILE | 150.00 | 150.00 | 59.70 | 59.70 |
| G79MGA | MW-79 | 11/1/1999 | PROFILE | 160.00 | 160.00 | 69.70 | 69.70 |
| G79MHA | MW-79 | 11/1/1999 | PROFILE | 170.00 | 170.00 | 79.70 | 79.70 |
| G79MIA | MW-79 | 11/1/1999 | PROFILE | 180.00 | 180.00 | 89.70 | 89.70 |
| G79MJA | MW-79 | 11/1/1999 | PROFILE | 190.00 | 190.00 | 99.70 | 99.70 |
| G79MKA | MW-79 | 11/1/1999 | PROFILE | 200.00 | 200.00 | 109.70 | 109.70 |
| DEMO2PE1 | DEMO2PE1 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | . 55.7 0 | . 55.7 0 |
| | | , 5, | | 0.00 | 0.20 | | |

Profiling methods include: Volatiles and Explosives

Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry Other Sample Types methods are variable

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SED = Sample End Depth, measured in feet bgs

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

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|-----------|------------------|------------|-------------|------|------|------|------|
| DEMO2PE2 | DEMO2PE2 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| DEMO2PE3 | DEMO2PE3 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03P1AAA | 03P | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03P1BAA | 03P | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC03P1CAA | 03P | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC03Q1AAA | 03Q | 11/11/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03Q1BAA | 03Q | 11/11/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC03Q1CAA | 03Q | 11/11/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC03R1AAA | 03R | 11/11/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03R1BAA | 03R | 11/11/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC03R1CAA | 03R | 11/11/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC03S1AAA | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03S1AAD | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03S1BAA | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC03S1BAD | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC03S1CAA | 03S | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC03T1AAA | 03T | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03T1BAA | 03T | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC03T1CAA | 03T | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC03U1AAA | 03U | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC03U1BAA | 03U | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC03U1CAA | 03U | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC11F1AAA | 11F | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC11F1BAA | 11F | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC11F1CAA | 11F | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC11G1AAA | 11G | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC11G1BAA | 11G | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC11G1CAA | 11G | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC46A1AAA | 46A | 11/11/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC46A1BAA | 46A | 11/11/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC46A1CAA | 46A | 11/11/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC46B1AAA | 46B | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC46B1BAA | 46B | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC46B1CAA | 46B | 11/12/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC46C1AAA | 46C | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC46C1BAA | 46C | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC46C1CAA | 46C | 11/12/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HC46D1AAA | 46D | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HC46D1BAA | 46D | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HC46D1CAA | 46D | 11/12/1999 | | 0.50 | 1.00 | | |
| HC59A1AAA | 59A | 11/17/1999 | | 0.00 | 0.50 | | |
| HC59A1AAD | 59A | 11/17/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC59A1BAA | 59A | 11/17/1999 | | 1.50 | 2.00 | | |
| HC59B1AAA | 59B | 11/17/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC59B1BAA | 59B | 11/17/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC59C1AAA | 59C | 11/18/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC59C1BAA | 59C | 11/18/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC59D1AAA | 59D | 11/18/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC59D1BAA | 59D | 11/18/1999 | SOIL GRID | 1.50 | 2.00 | | |

Profiling methods include: Volatiles and Explosives

Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry Other Sample Types methods are variable

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SED = Sample End Depth, measured in feet bgs

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

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|-----------|------------------|------------|-------------|------|------|------|------|
| HC59D1BAD | 59D | 11/18/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC59E1AAA | 59E | 11/17/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC59E1BAA | 59E | 11/17/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC59F1AAA | 59F | 11/17/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC59F1BAA | 59F | 11/17/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC59G1AAA | 59G | 11/18/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC59G1BAA | 59G | 11/18/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60A1AAA | 60A | 11/18/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60A1BAA | 60A | 11/18/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60B1AAA | 60B | 11/18/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60B1BAA | 60B | 11/18/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60C1AAA | 60C | 11/18/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60C1BAA | 60C | 11/18/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60D1AAA | 60D | 11/24/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60D1AAD | 60D | 11/24/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60D1BAA | 60D | 11/24/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60D1BAD | 60D | 11/24/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60E1AAA | 60E | 11/24/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60E1AAD | 60E | 11/24/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60E1BAA | 60E | 11/24/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60F1AAA | 60F | 11/24/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60F1BAA | 60F | 11/24/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HC60I1AAA | 60I | 11/24/1999 | SOIL GRID | 0.00 | 0.50 | | |
| HC60I1BAA | 60I | 11/24/1999 | SOIL GRID | 1.50 | 2.00 | | |
| HD03S1AAA | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03S1BAA | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03S1CAA | 03S | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03S2AAA | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03S2BAA | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03S2CAA | 03S | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03S3AAA | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03S3AAD | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03S3BAA | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03S3BAD | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03S3CAA | 03S | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03S3CAD | 03S | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03S4AAA | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03S4BAA | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03S4CAA | 03S | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03S5AAA | 03S | 11/10/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03S5BAA | 03S | 11/10/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03S5CAA | 03S | 11/10/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03T1AAA | 03T | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03T1BAA | 03T | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03T1CAA | 03T | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03T3AAA | 03T | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03T3BAA | 03T | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03T3CAA | 03T | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03T5AAA | 03T | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |

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| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|-----------|------------------|------------|-------------|------|------|------|------|
| HD03T5BAA | 03T | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03T5CAA | 03T | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03T7AAA | 03T | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03T7BAA | 03T | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03T7CAA | 03T | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03U1AAA | 03U | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03U1BAA | 03U | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03U1CAA | 03U | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03U3AAA | 03U | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03U3BAA | 03U | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03U3CAA | 03U | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03U5AAA | 03U | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03U5BAA | 03U | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03U5CAA | 03U | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD03U7AAA | 03U | 11/4/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD03U7BAA | 03U | 11/4/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD03U7CAA | 03U | 11/4/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11F1AAA | 11F | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11F1BAA | 11F | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11F1CAA | 11F | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11F3AAA | 11F | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11F3BAA | 11F | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11F3CAA | 11F | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11F5AAA | 11F | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11F5BAA | 11F | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11F5CAA | 11F | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11F7AAA | 11F | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11F7BAA | 11F | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11F7CAA | 11F | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11G1AAA | 11G | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11G1BAA | 11G | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11G1CAA | 11G | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11G3AAA | 11G | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11G3BAA | 11G | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11G3CAA | 11G | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11G5AAA | 11G | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11G5BAA | 11G | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11G5CAA | 11G | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD11G7AAA | 11G | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD11G7BAA | 11G | 11/5/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD11G7CAA | 11G | 11/5/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD46B1AAA | 46B | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD46B1BAA | 46B | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD46B1CAA | 46B | 11/12/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD46B2AAA | 46B | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD46B2BAA | 46B | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD46B2CAA | 46B | 11/12/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD46B3AAA | 46B | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD46B3BAA | 46B | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |

Profiling methods include: Volatiles and Explosives

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

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|------------|------------------|------------|-------------|------|------|------|------|
| HD46B3CAA | 46B | 11/12/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD46B4AAA | 46B | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD46B4BAA | 46B | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD46B4CAA | 46B | 11/12/1999 | SOIL GRID | 0.50 | 1.00 | | |
| HD46B5AAA | 46B | 11/12/1999 | SOIL GRID | 0.00 | 0.25 | | |
| HD46B5BAA | 46B | 11/12/1999 | SOIL GRID | 0.25 | 0.50 | | |
| HD46B5CAA | 46B | 11/12/1999 | SOIL GRID | 0.50 | 1.00 | | |
| JRANGEDPE1 | JRANGEDPE1 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | |

Profiling methods include: Volatiles and Explosives

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

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SED = Sample End Depth, measured in feet bgs

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

Wednesday, December 08, 1999

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| LOCID/WELL ID | OGDEN_ID | SAMPLED | METHOD | OGDEN_ANALYTE | CONC. | FLAG | UNITS | BWTS | BWTE | MCL/HA | >MCL/HA |
|---------------|----------|------------|--------|----------------------------|--------|------|-------|-------|--------|--------|---------|
| MW-19 | W19SSA | 3/5/1998 | 8330N | 2,4,6-TRINITROTOLUENE | 10.00 | J | UG/L | 0.00 | 10.00 | 2.00 | X |
| MW-19 | W19S2A | 7/20/1998 | 8330N | 2,4,6-TRINITROTOLUENE | 16.00 | | UG/L | 0.00 | 10.00 | 2.00 | X |
| MW-19 | W19S2D | 7/20/1998 | 8330N | 2,4,6-TRINITROTOLUENE | 16.00 | | UG/L | 0.00 | 10.00 | 2.00 | X |
| MW-19 | W19SSA | 2/12/1999 | 8330N | 2,4,6-TRINITROTOLUENE | 7.20 | J | UG/L | 0.00 | 10.00 | 2.00 | X |
| 58MW0002 | WC2XXA | 2/26/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 19.00 | | UG/L | 0.00 | 0.00 | 2.00 | X |
| 58MW0002 | WC2XXA | 1/14/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 20.00 | | UG/L | 25.00 | 30.00 | 2.00 | |
| 58MW0009E | WC9EXA | 10/2/1997 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 7.70 | | UG/L | 21.00 | 26.00 | 2.00 | X |
| 58MW0009E | WC9EXA | 1/26/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 17.00 | | UG/L | 21.00 | 26.00 | 2.00 | X |
| 90MW0022 | WF22XA | 1/26/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 3.80 | | UG/L | 80.00 | 85.00 | 2.00 | |
| 90MW0022 | WF22XA | 2/16/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 5.40 | | UG/L | 80.00 | 85.00 | 2.00 | |
| 90WT0013 | WF13XA | 1/16/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 5.20 | J | UG/L | 2.00 | 12.00 | 2.00 | X |
| MW-1 | W01SSA | 9/30/1997 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.50 | | UG/L | 0.00 | 10.00 | 2.00 | Χ |
| MW-1 | W01SSD | 9/30/1997 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.40 | | UG/L | 0.00 | 10.00 | 2.00 | Χ |
| MW-1 | W01SSA | 2/22/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.80 | | UG/L | 0.00 | 10.00 | 2.00 | X |
| MW-1 | W01MMA | 9/29/1997 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 4.60 | | UG/L | 40.00 | 45.00 | 2.00 | X |
| MW-1 | W01M2A | 3/1/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.20 | | UG/L | 40.00 | 45.00 | 2.00 | X |
| MW-19 | W19SSA | 3/5/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 190.00 | | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-19 | W19S2A | 7/20/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 260.00 | | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-19 | W19S2D | 7/20/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 260.00 | | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-19 | W19SSA | 2/12/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 250.00 | | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-2 | W02M2A | 1/20/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 13.00 | | UG/L | 31.00 | 36.00 | 2.00 | |
| MW-2 | W02M2A | 2/3/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 6.80 | | UG/L | 31.00 | 36.00 | 2.00 | |
| MW-23 | W23M1A | 11/7/1997 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.30 | J | UG/L | 99.00 | 109.00 | 2.00 | X |
| MW-23 | W23M1A | 3/18/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 4.40 | | UG/L | 99.00 | 109.00 | 2.00 | |
| MW-23 | W23M1D | 3/18/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 4.70 | | UG/L | 99.00 | 109.00 | 2.00 | |
| MW-25 | W25SSA | 10/16/1997 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.00 | | UG/L | 0.00 | 10.00 | 2.00 | X |
| MW-25 | W25SSA | 3/17/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 4.10 | | UG/L | 0.00 | 10.00 | 2.00 | X |
| MW-31 | W31SSA | 7/15/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 64.00 | | UG/L | 14.00 | 19.00 | 2.00 | |
| MW-31 | W31SSA | 2/1/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 210.00 | | UG/L | 14.00 | 19.00 | 2.00 | |
| MW-31 | W31MMA | 7/15/1998 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 280.00 | | UG/L | 29.00 | 39.00 | 2.00 | |
| MW-31 | W31MMA | 2/2/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 370.00 | | UG/L | 29.00 | 39.00 | 2.00 | |
| MW-34 | W34M2A | 2/19/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 6.20 | | UG/L | 55.00 | 65.00 | 2.00 | |
| MW-38 | W38M3A | 5/6/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.50 | | UG/L | 53.00 | 63.00 | 2.00 | |
| MW-38 | W38M3A | 8/18/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 2.60 | | UG/L | 53.00 | 63.00 | 2.00 | |
| MW-73 | W73SSA | 7/9/1999 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1 | 50.00 | J | UG/L | 0.00 | 10.00 | 2.00 | X |

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET

BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET

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| LOCID/WELL ID | OGDEN_ID | SAMPLED | METHOD | OGDEN_ANALYTE | CONC. | FLAG | UNITS | BWTS | BWTE | MCL/HA | >MCL/HA |
|---------------|-----------|-----------|--------|---------------|-------|------|-------|--------|--------|--------|---------|
| MW-3 | W03DDL | 3/6/1998 | IM40MB | ANTIMONY | 13.80 | J | UG/L | 218.00 | 223.00 | 6.00 | X |
| MW-34 | W34M2A | 8/16/1999 | IM40MB | ANTIMONY | 6.60 | J | UG/L | 55.00 | 65.00 | 6.00 | X |
| MW-35 | W35SSA | 8/19/1999 | IM40MB | ANTIMONY | 6.90 | J | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-35 | W35SSD | 8/19/1999 | IM40MB | ANTIMONY | 13.80 | J | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-36 | W36SSA | 8/17/1999 | IM40MB | ANTIMONY | 6.70 | J | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-38 | W38SSA | 8/18/1999 | IM40MB | ANTIMONY | 7.40 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-38 | W38M3A | 8/18/1999 | IM40MB | ANTIMONY | 6.60 | J | UG/L | 53.00 | 63.00 | 6.00 | |
| MW-38 | W38DDA | 8/17/1999 | IM40MB | ANTIMONY | 6.90 | 7 | UG/L | 125.00 | 135.00 | 6.00 | |
| MW-39 | W39M1A | 8/18/1999 | IM40MB | ANTIMONY | 7.50 | | UG/L | 87.00 | 97.00 | 6.00 | |
| PPAWSMW-3 | PPAWSMW-3 | 8/12/1999 | IM40MB | ANTIMONY | 6.00 | J | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-2 | W02SSA | 2/23/1998 | IM40MB | LEAD | 20.10 | | UG/L | 0.00 | 10.00 | 15.00 | |
| MW-13 | W13SSA | 1/27/1998 | IM40MB | MOLYBDENUM | 11.20 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-13 | W13SSL | 1/27/1998 | IM40MB | MOLYBDENUM | 10.40 | J | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-13 | W13DDA | 1/26/1998 | IM40MB | MOLYBDENUM | 26.60 | | UG/L | 140.00 | 145.00 | 10.00 | X |
| MW-13 | W13DDL | 1/26/1998 | IM40MB | MOLYBDENUM | 30.40 | | UG/L | 140.00 | 145.00 | 10.00 | |
| MW-13 | W13DDA | 3/11/1999 | IM40MB | MOLYBDENUM | 11.00 | | UG/L | 140.00 | 145.00 | 10.00 | |
| MW-13 | W13DDD | 3/11/1999 | IM40MB | MOLYBDENUM | 12.10 | J | UG/L | 140.00 | 145.00 | 10.00 | |
| MW-16 | W16SSA | 3/10/1999 | IM40MB | MOLYBDENUM | 21.00 | J | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-16 | W16DDA | 3/9/1999 | IM40MB | MOLYBDENUM | 22.20 | | UG/L | 222.00 | 227.00 | 10.00 | |
| MW-16 | W16DDD | 3/9/1999 | IM40MB | MOLYBDENUM | 23.20 | | UG/L | 222.00 | 227.00 | 10.00 | |
| MW-17 | W17M1L | 5/18/1999 | IM40MB | MOLYBDENUM | 12.60 | | UG/L | 97.00 | 107.00 | 10.00 | |
| MW-2 | W02SSA | 2/23/1998 | IM40MB | MOLYBDENUM | 72.10 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-2 | W02SSL | 2/23/1998 | IM40MB | MOLYBDENUM | 63.30 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-2 | W02SSA | 2/1/1999 | IM40MB | MOLYBDENUM | 26.10 | J | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-2 | W02SSL | 2/1/1999 | IM40MB | MOLYBDENUM | 34.00 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-2 | W02DDA | 2/2/1999 | IM40MB | MOLYBDENUM | 25.60 | | UG/L | 287.00 | 295.00 | 10.00 | |
| MW-2 | W02DDL | 2/2/1999 | IM40MB | MOLYBDENUM | 26.30 | J | UG/L | 287.00 | 295.00 | 10.00 | |
| MW-46 | W46M2A | 3/30/1999 | IM40MB | MOLYBDENUM | 48.90 | | UG/L | 55.00 | 65.00 | 10.00 | |
| MW-46 | W46M2L | 3/30/1999 | IM40MB | MOLYBDENUM | 51.00 | | UG/L | 55.00 | 65.00 | 10.00 | |
| MW-46 | W46M2A | 8/24/1999 | IM40MB | MOLYBDENUM | 17.40 | | UG/L | 55.00 | 65.00 | 10.00 | |
| MW-46 | W46M1A | 3/29/1999 | IM40MB | MOLYBDENUM | 32.80 | | UG/L | 102.00 | 112.00 | 10.00 | |
| MW-46 | W46DDA | 4/1/1999 | IM40MB | MOLYBDENUM | 17.20 | | UG/L | 135.00 | 145.00 | 10.00 | |
| MW-47 | W47M3A | 3/29/1999 | IM40MB | MOLYBDENUM | 43.10 | | UG/L | 21.00 | 31.00 | 10.00 | |
| MW-47 | W47M3L | 3/29/1999 | IM40MB | MOLYBDENUM | 40.50 | | UG/L | 21.00 | 31.00 | 10.00 | |
| MW-47 | W47M2A | 3/26/1999 | IM40MB | MOLYBDENUM | 11.00 | | UG/L | 38.00 | 48.00 | 10.00 | X |

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| LOCID/WELL ID | OGDEN_ID | SAMPLED | METHOD | OGDEN_ANALYTE | CONC. | FLAG | UNITS | BWTS | BWTE | MCL/HA | >MCL/HA |
|---------------|----------|------------|--------|---------------|-----------|------|-------|--------|--------|-----------|---------|
| MW-5 | W05DDA | 2/13/1998 | IM40MB | MOLYBDENUM | 28.30 | | UG/L | 220.00 | 225.00 | 10.00 | X |
| MW-5 | W05DDL | 2/13/1998 | IM40MB | MOLYBDENUM | 26.60 | | UG/L | 220.00 | 225.00 | 10.00 | X |
| MW-50 | W50M2A | 4/26/1999 | IM40MB | MOLYBDENUM | 20.60 | | UG/L | 59.00 | 69.00 | 10.00 | X |
| MW-50 | W50M1A | 4/27/1999 | IM40MB | MOLYBDENUM | 11.80 | | UG/L | 90.00 | 100.00 | 10.00 | X |
| MW-52 | W52M3A | 4/7/1999 | IM40MB | MOLYBDENUM | 72.60 | | UG/L | 26.00 | 36.00 | 10.00 | X |
| MW-52 | W52M3L | 4/7/1999 | IM40MB | MOLYBDENUM | 67.60 | | UG/L | 26.00 | 36.00 | 10.00 | X |
| MW-52 | W52M2A | 4/29/1999 | IM40MB | MOLYBDENUM | 15.30 | | UG/L | 74.00 | 84.00 | 10.00 | X |
| MW-52 | W52M2L | 4/29/1999 | IM40MB | MOLYBDENUM | 18.50 | | UG/L | 74.00 | 84.00 | 10.00 | X |
| MW-52 | W52DDA | 4/2/1999 | IM40MB | MOLYBDENUM | 51.10 | | UG/L | 219.00 | 229.00 | 10.00 | X |
| MW-52 | W52DDL | 4/2/1999 | IM40MB | MOLYBDENUM | 48.90 | | UG/L | 219.00 | 229.00 | 10.00 | Χ |
| MW-53 | W53SSA | 2/17/1999 | IM40MB | MOLYBDENUM | 24.90 | | UG/L | 0.00 | 10.00 | | |
| MW-53 | W53SSL | 2/17/1999 | IM40MB | MOLYBDENUM | 27.60 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-53 | W53M1A | 5/3/1999 | IM40MB | MOLYBDENUM | 122.00 | | UG/L | 100.00 | 110.00 | 10.00 | |
| MW-53 | W53M1L | 5/3/1999 | IM40MB | MOLYBDENUM | 132.00 | | UG/L | 100.00 | 110.00 | 10.00 | Χ |
| MW-53 | W53DDA | 2/18/1999 | IM40MB | MOLYBDENUM | 15.90 | | UG/L | 157.00 | 167.00 | 10.00 | Χ |
| MW-53 | W53DDL | 2/18/1999 | IM40MB | MOLYBDENUM | 17.40 | | UG/L | 157.00 | 167.00 | 10.00 | X |
| MW-54 | W54SSA | 4/30/1999 | IM40MB | MOLYBDENUM | 56.70 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-54 | W54SSL | 4/30/1999 | IM40MB | MOLYBDENUM | 66.20 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-54 | W54M2A | 5/4/1999 | IM40MB | MOLYBDENUM | 11.20 | | UG/L | 58.00 | 68.00 | 10.00 | |
| MW-54 | W54M2L | 5/4/1999 | IM40MB | MOLYBDENUM | 13.10 | | UG/L | 58.00 | 68.00 | 10.00 | |
| MW-54 | W54M1A | 4/30/1999 | IM40MB | MOLYBDENUM | 11.80 | | UG/L | 80.00 | 90.00 | 10.00 | |
| MW-54 | W54DDA | 5/5/1999 | IM40MB | MOLYBDENUM | 17.50 | | UG/L | 126.00 | 136.00 | 10.00 | |
| MW-55 | W55SSA | 5/17/1999 | IM40MB | MOLYBDENUM | 15.90 | | UG/L | 0.00 | 10.00 | 10.00 | |
| MW-55 | W55M2A | 5/14/1999 | IM40MB | MOLYBDENUM | 21.80 | | UG/L | 60.00 | 70.00 | 10.00 | |
| MW-55 | W55M1A | 5/13/1999 | IM40MB | MOLYBDENUM | 12.50 | | UG/L | 90.00 | 100.00 | 10.00 | |
| MW-55 | W55DDA | 5/13/1999 | IM40MB | MOLYBDENUM | 22.60 | | UG/L | 120.00 | 130.00 | 10.00 | |
| 15MW0002 | 15MW0002 | 4/8/1999 | IM40MB | SODIUM | 37,600.00 | | UG/L | 0.00 | 10.00 | | |
| 90WT0015 | 90WT0015 | 4/23/1999 | IM40MB | SODIUM | 34,300.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | |
| MW-16 | W16SSA | 11/17/1997 | IM40MB | SODIUM | 20,900.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | |
| MW-16 | W16SSL | 11/17/1997 | IM40MB | SODIUM | 20,400.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | |
| MW-2 | W02SSA | 2/23/1998 | IM40MB | SODIUM | 27,200.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | |
| MW-2 | W02SSL | 2/23/1998 | IM40MB | SODIUM | 26,300.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | |
| MW-2 | W02SSA | 2/1/1999 | IM40MB | SODIUM | 20,300.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | |
| MW-2 | W02SSL | 2/1/1999 | IM40MB | SODIUM | 20,100.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | |
| MW-2 | W02DDA | 11/19/1997 | IM40MB | SODIUM | 21,500.00 | | UG/L | 287.00 | 295.00 | 20,000.00 | X |

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| LOCID/WELL ID | OGDEN_ID | SAMPLED | METHOD | OGDEN_ANALYTE | CONC. | FLAG | UNITS | BWTS | BWTE | MCL/HA | >MCL/HA |
|---------------|-----------|------------|--------|---------------|-----------|------|-------|--------|--------|-----------|---------|
| MW-2 | W02DDL | 11/19/1997 | IM40MB | SODIUM | 22,600.00 | | UG/L | 287.00 | 295.00 | 20,000.00 | X |
| MW-21 | W21SSA | 10/24/1997 | IM40MB | SODIUM | 24,000.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | X |
| MW-21 | W21SSL | 10/24/1997 | IM40MB | SODIUM | 24,200.00 | | UG/L | 0.00 | 10.00 | 20,000.00 | Х |
| MW-46 | W46SSA | 8/25/1999 | IM40MB | SODIUM | 20,600.00 | | UG/L | 22.00 | 32.00 | 20,000.00 | X |
| MW-46 | W46M2A | 3/30/1999 | IM40MB | SODIUM | 23,300.00 | | UG/L | 55.00 | 65.00 | 20,000.00 | Χ |
| MW-46 | W46M2L | 3/30/1999 | IM40MB | SODIUM | 24,400.00 | | UG/L | 55.00 | 65.00 | 20,000.00 | Χ |
| SDW261160 | WG160L | 1/7/1998 | IM40MB | SODIUM | 20,600.00 | | UG/L | 0.00 | 0.00 | 20,000.00 | Χ |
| SDW261160 | WG160A | 1/13/1999 | IM40MB | SODIUM | 27,200.00 | | UG/L | 0.00 | 0.00 | 20,000.00 | Χ |
| SDW261160 | WG160L | 1/13/1999 | IM40MB | SODIUM | 28,200.00 | | UG/L | 0.00 | 0.00 | | |
| 03MW0006 | 03MW0006 | 4/15/1999 | IM40MB | THALLIUM | 2.60 | J | UG/L | 0.00 | 10.00 | 2.00 | Χ |
| 03MW0022A | 03MW0022A | 4/16/1999 | IM40MB | THALLIUM | 3.90 | | UG/L | 71.00 | 76.00 | 2.00 | |
| 03MW0027A | 03MW0027A | 4/14/1999 | IM40MB | THALLIUM | 2.00 | J | UG/L | 64.00 | 69.00 | 2.00 | |
| 11MW0004 | 11MW0004 | 4/16/1999 | IM40MB | THALLIUM | 2.30 | | UG/L | 0.00 | 10.00 | 2.00 | |
| 27MW0020Z | 27MW0020Z | 4/16/1999 | IM40MB | THALLIUM | 2.70 | J | UG/L | 98.00 | 103.00 | 2.00 | |
| 90MW0038 | 90MW0038 | 4/21/1999 | IM40MB | THALLIUM | 4.40 | J | UG/L | 29.00 | 34.00 | 2.00 | |
| 90WT0010 | WF10XA | 1/16/1998 | IM40MB | THALLIUM | 6.50 | J | UG/L | 2.00 | 12.00 | 2.00 | Χ |
| LRWS1-4 | WL14XA | 1/7/1999 | IM40MB | THALLIUM | 5.20 | J | UG/L | 107.00 | 117.00 | 2.00 | |
| MW-18 | W18SSA | 3/12/1999 | IM40MB | THALLIUM | 2.30 | | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-19 | W19DDL | 2/11/1999 | IM40MB | THALLIUM | 3.10 | | UG/L | 251.00 | 256.00 | 2.00 | |
| MW-21 | W21SSA | 10/24/1997 | IM40MB | THALLIUM | 6.90 | J | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-38 | W38M4A | 8/18/1999 | IM40MB | THALLIUM | 2.80 | J | UG/L | 15.00 | 25.00 | 2.00 | |
| MW-38 | W38M2A | 5/11/1999 | IM40MB | THALLIUM | 4.90 | | UG/L | 70.00 | 80.00 | 2.00 | |
| MW-41 | W41M2A | 4/2/1999 | IM40MB | THALLIUM | 2.50 | | UG/L | 69.00 | 79.00 | 2.00 | |
| MW-45 | W45SSA | 5/26/1999 | IM40MB | THALLIUM | 3.00 | | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-47 | W47M3A | 8/25/1999 | IM40MB | THALLIUM | 3.20 | | UG/L | 21.00 | 31.00 | 2.00 | |
| MW-47 | W47M2A | 3/26/1999 | IM40MB | THALLIUM | 3.20 | J | UG/L | 38.00 | 48.00 | 2.00 | |
| MW-47 | W47M2A | 8/25/1999 | IM40MB | THALLIUM | 4.00 | J | UG/L | 38.00 | 48.00 | 2.00 | |
| MW-47 | W47M1A | 8/24/1999 | IM40MB | THALLIUM | 2.60 | | UG/L | 75.00 | 85.00 | 2.00 | |
| MW-51 | W51M3A | 8/25/1999 | IM40MB | THALLIUM | 4.30 | | UG/L | 29.00 | 39.00 | 2.00 | |
| MW-52 | W52SSA | 8/26/1999 | IM40MB | THALLIUM | 3.60 | | UG/L | 0.00 | 10.00 | 2.00 | |
| MW-52 | W52M3L | 4/7/1999 | IM40MB | THALLIUM | 3.60 | | UG/L | 26.00 | 36.00 | 2.00 | |
| MW-52 | W52DDA | 4/2/1999 | IM40MB | THALLIUM | 2.80 | | UG/L | 219.00 | 229.00 | 2.00 | |
| MW-52 | W52DDL | 4/2/1999 | IM40MB | THALLIUM | 2.60 | J | UG/L | 219.00 | 229.00 | 2.00 | |
| MW-7 | W07MMA | 2/23/1999 | IM40MB | THALLIUM | 4.10 | J | UG/L | 67.00 | 72.00 | 2.00 | |
| MW-7 | W07M2L | 2/5/1998 | IM40MB | THALLIUM | 6.60 | J | UG/L | 137.00 | 142.00 | 2.00 | X |

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| LOCID/WELL ID | OGDEN_ID | SAMPLED | METHOD | OGDEN_ANALYTE | CONC. | FLAG | UNITS | BWTS | BWTE | MCL/HA | >MCL/HA |
|---------------|-----------|------------|--------|----------------------------|----------|--------------|-------|--------|--------|----------|---------|
| MW-7 | W07M2A | 2/24/1999 | IM40MB | THALLIUM | 4.40 | J | UG/L | 137.00 | 142.00 | 2.00 | X |
| MW-72 | W72SSA | 5/27/1999 | IM40MB | THALLIUM | 4.00 | | UG/L | 0.00 | 10.00 | 2.00 | |
| | PPAWSMW-1 | 6/22/1999 | IM40MB | THALLIUM | 3.10 | | UG/L | 10.00 | 20.00 | 2.00 | |
| SMR-2 | WSMR2A | 3/25/1999 | IM40MB | THALLIUM | 2.00 | | UG/L | 0.00 | 10.00 | 2.00 | |
| 95-15 | W9515A | 10/17/1997 | IM40MB | ZINC | 7,210.00 | | UG/L | 80.00 | 92.00 | 2,000.00 | |
| 95-15 | W9515L | 10/17/1997 | IM40MB | ZINC | 4,620.00 | | UG/L | 80.00 | 92.00 | 2,000.00 | X |
| LRWS3-1 | WL31XA | 10/21/1997 | IM40MB | ZINC | 2,480.00 | | UG/L | 102.00 | 117.00 | 2,000.00 | X |
| LRWS3-1 | WL31XL | 10/21/1997 | IM40MB | ZINC | 2,410.00 | | UG/L | 102.00 | 117.00 | 2,000.00 | X |
| LRWS4-1 | WL41XA | 11/24/1997 | IM40MB | ZINC | 3,220.00 | | UG/L | 66.00 | 91.00 | 2,000.00 | X |
| LRWS4-1 | WL41XL | 11/24/1997 | IM40MB | ZINC | 3,060.00 | | UG/L | 66.00 | 91.00 | 2,000.00 | Х |
| LRWS5-1 | WL51DL | 11/25/1997 | IM40MB | ZINC | 4,410.00 | | UG/L | 66.00 | 91.00 | 2,000.00 | |
| LRWS5-1 | WL51XA | 11/25/1997 | IM40MB | ZINC | 4,510.00 | | UG/L | 187.00 | 202.00 | 2,000.00 | X |
| LRWS5-1 | WL51XD | 11/25/1997 | IM40MB | ZINC | 4,390.00 | | UG/L | 187.00 | 202.00 | 2,000.00 | X |
| LRWS5-1 | WL51XL | 11/25/1997 | IM40MB | ZINC | 3,900.00 | | UG/L | 187.00 | 202.00 | 2,000.00 | Х |
| LRWS5-1 | WL51XA | 1/25/1999 | IM40MB | ZINC | 3,980.00 | | UG/L | 187.00 | 202.00 | 2,000.00 | X |
| LRWS5-1 | WL51XL | 1/25/1999 | IM40MB | ZINC | 3,770.00 | | UG/L | 187.00 | 202.00 | 2,000.00 | X |
| LRWS6-1 | WL61XA | 11/17/1997 | IM40MB | ZINC | 3,480.00 | | UG/L | 184.00 | 199.00 | 2,000.00 | X |
| LRWS6-1 | WL61XL | 11/17/1997 | IM40MB | ZINC | 2,600.00 | | UG/L | 184.00 | 199.00 | 2,000.00 | X |
| LRWS6-1 | WL61XA | 1/28/1999 | IM40MB | ZINC | 2,240.00 | | UG/L | 184.00 | 199.00 | 2,000.00 | X |
| LRWS6-1 | WL61XL | 1/28/1999 | IM40MB | ZINC | 2,200.00 | | UG/L | 184.00 | 199.00 | 2,000.00 | X |
| LRWS7-1 | WL71XA | 11/21/1997 | IM40MB | ZINC | 4,320.00 | | UG/L | 186.00 | 201.00 | 2,000.00 | X |
| LRWS7-1 | WL71XL | 11/21/1997 | IM40MB | ZINC | 3,750.00 | | UG/L | 186.00 | 201.00 | 2,000.00 | X |
| LRWS7-1 | WL71XA | 1/22/1999 | IM40MB | ZINC | 4,160.00 | | UG/L | 186.00 | 201.00 | 2,000.00 | X |
| LRWS7-1 | WL71XL | 1/22/1999 | IM40MB | ZINC | 4,100.00 | | UG/L | 186.00 | 201.00 | 2,000.00 | |
| MW-41 | W41M1A | 8/19/1999 | OC21B | 2,6-DINITROTOLUENE | 5.00 | J | UG/L | 110.00 | 120.00 | 5.00 | X |
| 11MW0003 | WF143A | 2/25/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 9.00 | | UG/L | 0.00 | 0.00 | 6.00 | X |
| 15MW0004 | 15MW0004 | 4/9/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 6.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| 15MW0008 | 15MW0008D | 4/12/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 25.00 | J | UG/L | 0.00 | 0.00 | 6.00 | X |
| 28MW0106 | WL28XA | 2/19/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 18.00 | J | UG/L | 0.00 | 10.00 | 6.00 | X |
| 28MW0106 | WL28XA | 3/23/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 26.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| 58MW0002 | WC2XXA | 2/26/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 36.00 | | UG/L | 0.00 | 0.00 | 6.00 | Х |
| | WC6EXA | 10/3/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 59.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| | WC6EXD | 10/3/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 57.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| 58MW0006E | WC6EXA | 1/29/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 6.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| 90WT0005 | WF05XA | 1/13/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 47.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |

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| LOCID/WELL ID | OGDEN_ID | SAMPLED | METHOD | OGDEN_ANALYTE | CONC. | FLAG | UNITS | BWTS | BWTE | MCL/HA | >MCL/HA |
|---------------|----------|------------|--------|----------------------------|--------|------|-------|--------|--------|--------|---------|
| 90WT0013 | WF13XA | 1/16/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 34.00 | | UG/L | 2.00 | 12.00 | 6.00 | X |
| 90WT0013 | WF13XA | 1/14/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 16.00 | | UG/L | 2.00 | 12.00 | 6.00 | X |
| 97-1 | W9701A | 11/19/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 54.00 | | UG/L | 62.00 | 72.00 | 6.00 | |
| 97-1 | W9701D | 11/19/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 28.00 | J | UG/L | 62.00 | 72.00 | 6.00 | |
| 97-2 | W9702A | 11/20/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 7.00 | | UG/L | 53.00 | 63.00 | 6.00 | X |
| 97-3 | W9703A | 11/21/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 73.00 | J | UG/L | 36.00 | 46.00 | 6.00 | Χ |
| 97-5 | W9705A | 11/20/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 15.00 | | UG/L | 76.00 | 86.00 | 6.00 | X |
| BHW215083 | WG083A | 11/26/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 13.00 | | UG/L | 0.00 | 0.00 | 6.00 | X |
| LRWS2-3 | WL23XA | 11/21/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 20.00 | J | UG/L | 68.00 | 83.00 | 6.00 | X |
| LRWS2-6 | WL26XA | 10/20/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 21.00 | | UG/L | 75.00 | 90.00 | 6.00 | X |
| LRWS4-1 | WL41XA | 11/24/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 100.00 | | UG/L | 66.00 | 91.00 | 6.00 | X |
| LRWS5-1 | WL51XA | 11/25/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 7.00 | | UG/L | 187.00 | 202.00 | 6.00 | X |
| MW-11 | W11SSA | 11/6/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 33.00 | J | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-11 | W11SSD | 11/6/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 23.00 | J | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-12 | W12SSA | 11/6/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 28.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-14 | W14SSA | 11/4/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 14.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-16 | W16SSA | 11/17/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 28.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-16 | W16DDA | 11/17/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 43.00 | | UG/L | 108.00 | 113.00 | 6.00 | |
| MW-17 | W17SSD | 11/10/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 120.00 | J | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-17 | W17DDA | 11/11/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 42.00 | | UG/L | 197.00 | 207.00 | 6.00 | |
| MW-18 | W18SSA | 10/10/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 36.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-19 | W19DDA | 3/4/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 7.00 | | UG/L | 251.00 | 256.00 | 6.00 | |
| MW-2 | W02M2A | 1/20/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 24.00 | | UG/L | 31.00 | 36.00 | 6.00 | |
| MW-2 | W02M1A | 1/21/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 10.00 | J | UG/L | 73.00 | 78.00 | 6.00 | |
| MW-2 | W02DDA | 2/2/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 9.00 | | UG/L | 287.00 | 295.00 | 6.00 | |
| MW-20 | W20SSA | 11/7/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 280.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-21 | W21M2A | 4/1/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 8.00 | | UG/L | 58.00 | 68.00 | 6.00 | |
| MW-22 | W22SSA | 11/24/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 96.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-23 | W23SSA | 10/27/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 24.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-23 | W23M3A | 11/13/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 10.00 | | UG/L | 153.00 | 163.00 | 6.00 | |
| MW-23 | W23M3D | 11/13/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 13.00 | | UG/L | 153.00 | 163.00 | 6.00 | |
| MW-24 | W24SSA | 11/14/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 8.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-28 | W28SSA | 11/3/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 11.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-29 | W29SSA | 11/3/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 16.00 | | UG/L | 0.00 | 10.00 | 6.00 | |
| MW-36 | W36M2A | 8/17/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 8.00 | | UG/L | 59.00 | 69.00 | 6.00 | X |

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| LOCID/WELL ID | OGDEN_ID | SAMPLED | METHOD | OGDEN_ANALYTE | CONC. | FLAG | UNITS | BWTS | BWTE | MCL/HA | >MCL/HA |
|---------------|-----------|------------|--------|----------------------------|-------|------|-------|--------|--------|--------|---------|
| MW-38 | W38M3A | 5/6/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 15.00 | | UG/L | 53.00 | 63.00 | 6.00 | Χ |
| MW-4 | W04SSA | 11/4/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 30.00 | | UG/L | 0.00 | 10.00 | 6.00 | X |
| MW-43 | W43M1A | 5/26/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 6.00 | | UG/L | 93.00 | 103.00 | 6.00 | X |
| MW-45 | W45M1A | 5/24/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 37.00 | | UG/L | 98.00 | 108.00 | 6.00 | X |
| MW-47 | W47M1A | 8/24/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 14.00 | | UG/L | 75.00 | 85.00 | 6.00 | X |
| MW-47 | W47DDA | 8/24/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 16.00 | | UG/L | 100.00 | 110.00 | 6.00 | X |
| MW-5 | W05DDA | 2/13/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 9.00 | J | UG/L | 220.00 | 225.00 | 6.00 | X |
| MW-53 | W53DDA | 2/18/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 18.00 | | UG/L | 157.00 | 167.00 | 6.00 | X |
| MW-55 | W55DDA | 5/13/1999 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 8.00 | | UG/L | 120.00 | 130.00 | 6.00 | X |
| MW-7 | W07SSA | 10/31/1997 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 10.00 | | UG/L | 0.00 | 10.00 | 6.00 | Χ |
| RW-1 | WRW1XA | 2/18/1998 | OC21B | BIS(2-ETHYLHEXYL) PHTHALAT | 59.00 | | UG/L | 0.00 | 9.00 | 6.00 | X |
| MW-45 | W45SSA | 5/26/1999 | OC21B | NAPHTHALENE | 24.00 | | UG/L | 0.00 | 10.00 | 20.00 | X |
| 03MW0007A | 03MW0007A | 4/13/1999 | OC21V | TETRACHLOROETHYLENE(PCE | 6.00 | | UG/L | 21.00 | 26.00 | 5.00 | X |
| 03MW0014A | 03MW0014A | 4/13/1999 | OC21V | TETRACHLOROETHYLENE(PCI | 8.00 | | UG/L | 38.00 | 43.00 | 5.00 | Χ |
| 03MW0020 | 03MW0020 | 4/14/1999 | OC21V | TETRACHLOROETHYLENE(PCI | 12.00 | | UG/L | 36.00 | 41.00 | 5.00 | X |
| 27MW0017B | 27MW0017B | 4/30/1999 | OC21V | VINYL CHLORIDE | 2.00 | | UG/L | 21.00 | 26.00 | 2.00 | X |
| PPAWSMW-1 | PPAWSMW-1 | 6/22/1999 | OL21P | DIELDRIN | 3.00 | | UG/L | 10.00 | 20.00 | 0.50 | Χ |

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|------------|------------------|------------|-------------|------|------|--------|--------|--------|------------------------------|-----|
| G57DCE | FIELDQC | 11/1/1999 | FIELDQC | 0.00 | 0.00 | | | 8330N | 1,3,5-TRINITROBENZENE | NO |
| 27MW0017B | 27MW0017B | 11/5/1999 | GROUNDWATER | | | 21.00 | 26.00 | 8330N | PICRIC ACID | NO |
| 90LWA0007 | 90LWA0007 | 11/15/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 2-NITROTOLUENE | NO |
| 90LWA0007 | 90LWA0007 | 11/15/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 3-NITROTOLUENE | NO |
| 90LWA0007 | 90LWA0007 | 11/15/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 4-NITROTOLUENE | NO |
| 90LWA0007 | 90LWA0007 | 11/15/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | NITROGLYCERIN | NO |
| 90LWA0007 | 90LWA0007 | 11/15/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | PICRIC ACID | ОИ |
| PPAWSMW-1 | PPAWSMW-1 | 10/28/1999 | GROUNDWATER | | | 10.00 | 20.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| PPAWSMW-2 | PPAWSMW-2 | 10/28/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| PPAWSPW-1 | PPAWSPW-1 | 10/28/1999 | GROUNDWATER | | | 158.00 | 178.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| PPAWSPW-2 | PPAWSPW-2 | 10/28/1999 | GROUNDWATER | | | 85.00 | 105.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| PPAWSPW-2D | PPAWSPW-2 | 10/28/1999 | GROUNDWATER | | | 85.00 | 105.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| W35M2A | MW-35 | 10/28/1999 | GROUNDWATER | | | 14.00 | 24.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| W38M3A | MW-38 | 11/10/1999 | GROUNDWATER | | | 53.00 | 63.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W38M4A | MW-38 | 11/11/1999 | GROUNDWATER | | | 15.00 | 25.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W39M2A | MW-39 | 11/10/1999 | GROUNDWATER | | | 42.00 | 52.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W43M2A | MW-43 | 11/18/1999 | GROUNDWATER | | | 70.00 | | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W45SSA | MW-45 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 3-NITROTOLUENE | NO |
| W45SSA | MW-45 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 4-NITROTOLUENE | NO |
| W45SSA | MW-45 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | NITROGLYCERIN | NO |
| W45SSA | MW-45 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | PENTAERYTHRITOL TETRANITRA | NO |
| W45SSA | MW-45 | 11/16/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | PICRIC ACID | NO |
| W53DDA | MW-53 | 11/5/1999 | GROUNDWATER | | | 157.00 | 167.00 | 8330N | PENTAERYTHRITOL TETRANITRA | NO |
| W54DDA | MW-54 | 11/5/1999 | GROUNDWATER | | | 126.00 | 136.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| W59SSA | MW-59 | 11/22/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W59SSA | MW-59 | 11/22/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W65M2A | MW-65 | 10/28/1999 | GROUNDWATER | | | 8.00 | 13.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| W70M2A | MW-70 | 10/28/1999 | GROUNDWATER | | | 5.00 | 15.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| W73SSA | MW-73 | 11/2/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | YES |
| W73SSA | MW-73 | 11/2/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | 4-AMINO-2,6-DINITROTOLUENE | YES |
| W73SSA | MW-73 | 11/2/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W73SSA | MW-73 | 11/2/1999 | GROUNDWATER | | | 0.00 | 10.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |

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PDA/YES = Photo Diode Array, Detect Confirmed

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|----------|------------------|------------|-----------|--------|--------|--------|--------|--------|------------------------------|-----|
| G57DCA | MW-57 | 11/1/1999 | PROFILE | 110.00 | 115.00 | 22.50 | 27.50 | OC21V | CHLOROFORM | |
| G57DDA | MW-57 | 11/1/1999 | PROFILE | 120.00 | 125.00 | 32.50 | 37.50 | OC21V | CHLOROFORM | |
| G57DDA | MW-57 | 11/1/1999 | PROFILE | 120.00 | 125.00 | 32.50 | 37.50 | OC21V | TETRACHLOROETHYLENE(PCE) | |
| G57DEA | MW-57 | 11/1/1999 | PROFILE | 130.00 | 135.00 | 42.50 | 47.50 | OC21V | CHLOROFORM | |
| G57DEA | MW-57 | 11/1/1999 | PROFILE | 130.00 | 135.00 | 42.50 | 47.50 | OC21V | TETRACHLOROETHYLENE(PCE) | |
| G57DEA | MW-57 | 11/1/1999 | PROFILE | 130.00 | 135.00 | 42.50 | 47.50 | OC21V | TOLUENE | |
| G57DFA | MW-57 | 11/1/1999 | PROFILE | 140.00 | 145.00 | 52.50 | 57.50 | OC21V | CHLOROFORM | |
| G57DFA | MW-57 | 11/1/1999 | PROFILE | 140.00 | 145.00 | 52.50 | 57.50 | OC21V | TETRACHLOROETHYLENE(PCE) | |
| G57DGA | MW-57 | 11/1/1999 | PROFILE | 150.00 | 155.00 | 62.50 | 67.50 | OC21V | 1,1,1-TRICHLOROETHANE | |
| G57DGA | MW-57 | 11/1/1999 | PROFILE | 150.00 | 155.00 | 62.50 | 67.50 | OC21V | CHLOROFORM | |
| G57DGA | MW-57 | 11/1/1999 | PROFILE | 150.00 | 155.00 | 62.50 | 67.50 | OC21V | TETRACHLOROETHYLENE(PCE) | |
| G57DHA | MW-57 | 11/1/1999 | PROFILE | 160.00 | 165.00 | 72.50 | 77.50 | OC21V | CHLOROFORM | |
| G57DHA | MW-57 | 11/1/1999 | PROFILE | 160.00 | 165.00 | 72.50 | 77.50 | OC21V | TETRACHLOROETHYLENE(PCE) | |
| G57DIA | MW-57 | 11/2/1999 | PROFILE | 170.00 | 175.00 | 82.50 | 87.50 | OC21V | CHLOROFORM | |
| G57DIA | MW-57 | 11/2/1999 | PROFILE | 170.00 | 175.00 | 82.50 | 87.50 | OC21V | TETRACHLOROETHYLENE(PCE) | |
| G57DJA | MW-57 | 11/2/1999 | PROFILE | 180.00 | 185.00 | 92.50 | 97.50 | OC21V | CHLOROFORM | |
| G57DKA | MW-57 | 11/2/1999 | PROFILE | 190.00 | 195.00 | 102.50 | 107.50 | OC21V | CHLOROFORM | |
| G57DKA | MW-57 | 11/2/1999 | PROFILE | 190.00 | 195.00 | 102.50 | 107.50 | OC21V | TRICHLOROETHYLENE (TCE) | |
| G57DLA | MW-57 | 11/2/1999 | PROFILE | 200.00 | 205.00 | 112.50 | 117.50 | OC21V | CHLOROFORM | |
| G57DMA | MW-57 | 11/2/1999 | PROFILE | 210.00 | 215.00 | 122.50 | 127.50 | OC21V | CHLOROFORM | |
| G57DNA | MW-57 | 11/3/1999 | PROFILE | 220.00 | 225.00 | 132.50 | 137.50 | OC21V | CHLOROFORM | |
| G57DOA | MW-57 | 11/3/1999 | PROFILE | 230.00 | 235.00 | 142.50 | 147.50 | OC21V | CHLOROFORM | |
| G57DSA | MW-57 | 11/3/1999 | PROFILE | 270.00 | 275.00 | 182.50 | 187.50 | OC21V | CHLOROFORM | |
| G57DTA | MW-57 | 11/4/1999 | PROFILE | 280.00 | 285.00 | 192.50 | 197.50 | OC21V | BROMOCHLOROMETHANE | |
| G57DUA | MW-57 | 11/4/1999 | PROFILE | 290.00 | 295.00 | 202.50 | 207.50 | OC21V | CHLOROFORM | |
| G75MAA | MW-75 | 11/18/1999 | PROFILE | 100.00 | 100.00 | 17.00 | 17.00 | 8330N | 3-NITROTOLUENE | NO |
| G75MAA | MW-75 | 11/18/1999 | PROFILE | 100.00 | 100.00 | 17.00 | 17.00 | 8330N | NITROGLYCERIN | NO |
| G75MAA | MW-75 | 11/18/1999 | PROFILE | 100.00 | 100.00 | | 17.00 | 8330N | PICRIC ACID | NO |
| G75MBA | MW-75 | 11/18/1999 | PROFILE | 110.00 | 110.00 | 27.00 | 27.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G75MBD | MW-75 | 11/18/1999 | PROFILE | 110.00 | 110.00 | 27.00 | 27.00 | 8330N | 3-NITROTOLUENE | NO |
| G75MBD | MW-75 | 11/18/1999 | PROFILE | 110.00 | 110.00 | 27.00 | 27.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G75MCA | MW-75 | 11/18/1999 | PROFILE | 120.00 | 120.00 | 37.00 | 37.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |

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PDA/YES = Photo Diode Array, Detect Confirmed

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|----------|------------------|------------|-----------|--------|--------|--------|--------|--------|------------------------------|-----|
| G75MDA | MW-75 | 11/18/1999 | PROFILE | 130.00 | 130.00 | 47.00 | 47.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G75MJA | MW-75 | 11/18/1999 | PROFILE | 190.00 | 190.00 | 107.00 | 107.00 | 8330N | 3-NITROTOLUENE | NO |
| G77MAA | MW-77 | 11/8/1999 | PROFILE | 90.00 | 90.00 | 5.50 | 5.50 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G77MAA | MW-77 | 11/8/1999 | PROFILE | 90.00 | 90.00 | 5.50 | 5.50 | 8330N | 1,3-DINITROBENZENE | NO |
| G77MAA | MW-77 | 11/8/1999 | PROFILE | 90.00 | 90.00 | 5.50 | 5.50 | 8330N | 2,6-DINITROTOLUENE | YES |
| G77MAA | MW-77 | 11/8/1999 | PROFILE | 90.00 | 90.00 | 5.50 | 5.50 | 8330N | NITROGLYCERIN | NO |
| G77MAA | MW-77 | 11/8/1999 | PROFILE | 90.00 | 90.00 | 5.50 | 5.50 | 8330N | PENTAERYTHRITOL TETRANITRA | NO |
| G77MAA | MW-77 | 11/8/1999 | PROFILE | 90.00 | 90.00 | 5.50 | 5.50 | 8330N | PICRIC ACID | NO |
| G77MBA | MW-77 | 11/8/1999 | PROFILE | 100.00 | 100.00 | 15.50 | 15.50 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G77MBA | MW-77 | 11/8/1999 | PROFILE | 100.00 | 100.00 | 15.50 | 15.50 | 8330N | 1,3-DINITROBENZENE | NO |
| G77MBA | MW-77 | 11/8/1999 | PROFILE | 100.00 | 100.00 | 15.50 | 15.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | NO |
| G77MBA | MW-77 | 11/8/1999 | PROFILE | 100.00 | 100.00 | 15.50 | 15.50 | 8330N | NITROGLYCERIN | NO |
| G77MCA | MW-77 | 11/8/1999 | PROFILE | 110.00 | 110.00 | 25.50 | 25.50 | 8330N | 1,3-DINITROBENZENE | NO |
| G77MCA | MW-77 | 11/8/1999 | PROFILE | 110.00 | 110.00 | 25.50 | 25.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G77MCA | MW-77 | 11/8/1999 | PROFILE | 110.00 | 110.00 | 25.50 | 25.50 | 8330N | NITROGLYCERIN | NO |
| G77MCA | MW-77 | 11/8/1999 | PROFILE | 110.00 | 110.00 | 25.50 | 25.50 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| G77MCA | MW-77 | 11/8/1999 | PROFILE | 110.00 | 110.00 | 25.50 | 25.50 | 8330N | PICRIC ACID | NO |
| G77MDA | MW-77 | 11/9/1999 | PROFILE | 120.00 | 120.00 | 35.50 | 35.50 | 8330N | 4-AMINO-2,6-DINITROTOLUENE | YES |
| G77MDA | MW-77 | 11/9/1999 | PROFILE | 120.00 | 120.00 | 35.50 | 35.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G77MDA | MW-77 | 11/9/1999 | PROFILE | 120.00 | 120.00 | 35.50 | 35.50 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| G77MDD | MW-77 | 11/9/1999 | PROFILE | 120.00 | 120.00 | 35.50 | 35.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G77MDD | MW-77 | 11/9/1999 | PROFILE | 120.00 | 120.00 | 35.50 | | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| G77MEA | MW-77 | 11/9/1999 | PROFILE | 130.00 | 130.00 | 45.50 | 45.50 | 8330N | 4-AMINO-2,6-DINITROTOLUENE | YES |
| G77MEA | MW-77 | 11/9/1999 | PROFILE | 130.00 | 130.00 | 45.50 | 45.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G77MEA | MW-77 | 11/9/1999 | PROFILE | 130.00 | 130.00 | 45.50 | 45.50 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| G77MFA | MW-77 | 11/9/1999 | PROFILE | 140.00 | 140.00 | 55.50 | 55.50 | 8330N | 4-AMINO-2,6-DINITROTOLUENE | YES |
| G77MGA | MW-77 | 11/9/1999 | PROFILE | 150.00 | 150.00 | 65.50 | 65.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G77MGA | MW-77 | 11/9/1999 | PROFILE | 150.00 | 150.00 | 65.50 | 65.50 | 8330N | NITROGLYCERIN | NO |
| G77MGA | MW-77 | 11/9/1999 | PROFILE | 150.00 | 150.00 | 65.50 | 65.50 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| G77MHA | MW-77 | 11/9/1999 | PROFILE | 160.00 | 160.00 | 75.50 | 75.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G77MHA | MW-77 | 11/9/1999 | PROFILE | | 160.00 | 75.50 | | 8330N | NITROGLYCERIN | NO |
| G77MIA | MW-77 | 11/9/1999 | PROFILE | 170.00 | 170.00 | 85.50 | 85.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |

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

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|----------|------------------|-----------|-----------|--------|--------|--------|--------|--------|------------------------------|-----|
| G77MIA | MW-77 | 11/9/1999 | PROFILE | 170.00 | 170.00 | 85.50 | 85.50 | 8330N | NITROGLYCERIN | NO |
| G77MKA | MW-77 | 11/9/1999 | PROFILE | 190.00 | 190.00 | 105.50 | 105.50 | 8330N | NITROGLYCERIN | NO |
| G77MKA | MW-77 | 11/9/1999 | PROFILE | 190.00 | 190.00 | 105.50 | 105.50 | 8330N | PICRIC ACID | NO |
| DEMO2PE1 | DEMO2PE1 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| DEMO2PE1 | DEMO2PE1 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| DEMO2PE2 | DEMO2PE2 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| DEMO2PE3 | DEMO2PE3 | 11/5/1999 | SOIL GRID | 0.00 | 0.25 | | | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

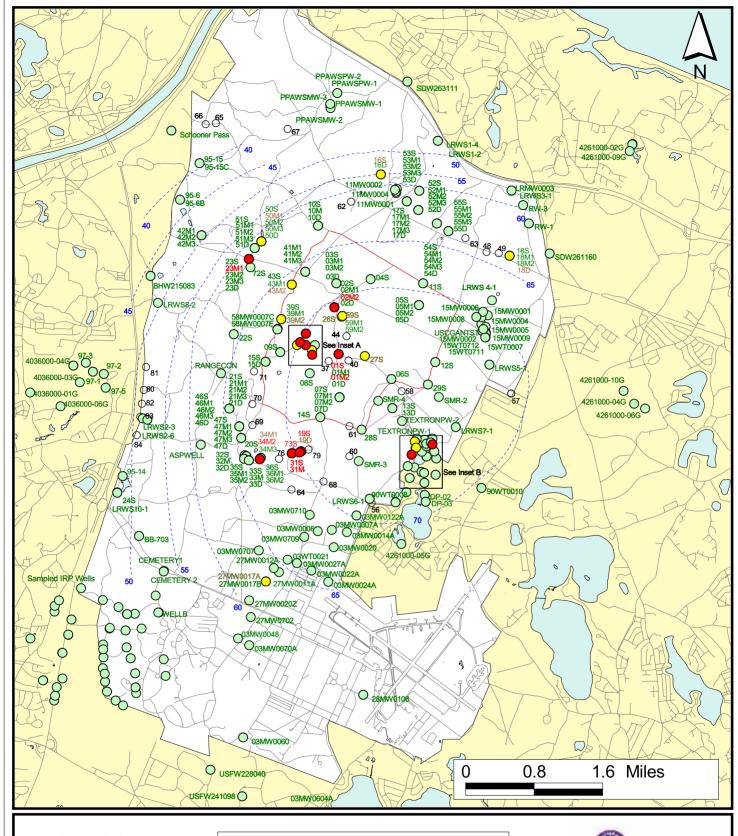
SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS

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



Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters Source: MASSGIS

Legend

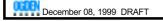
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- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

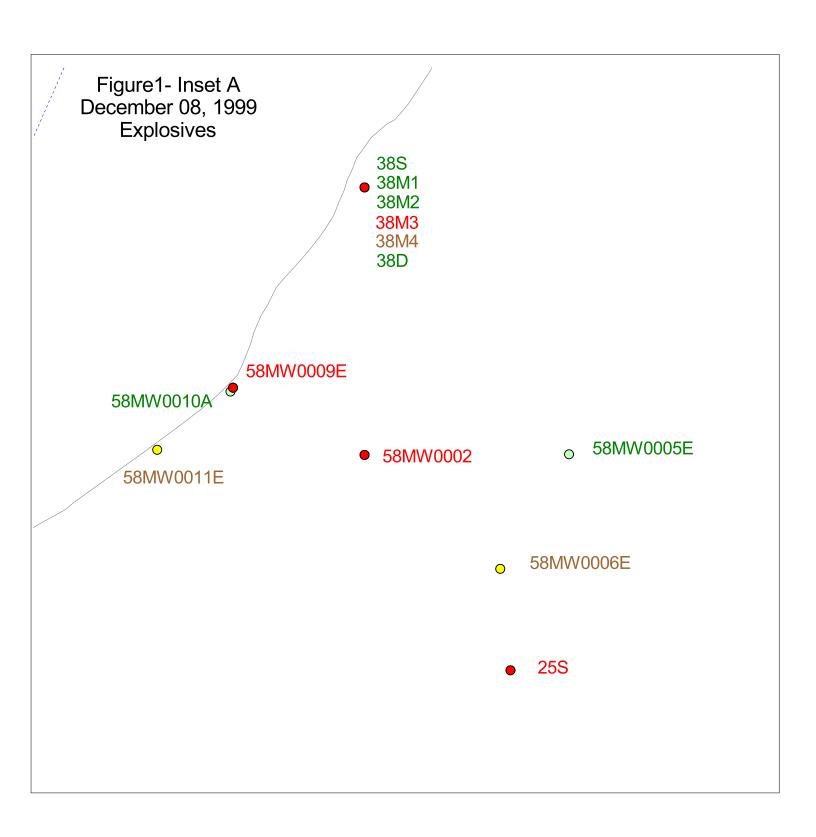


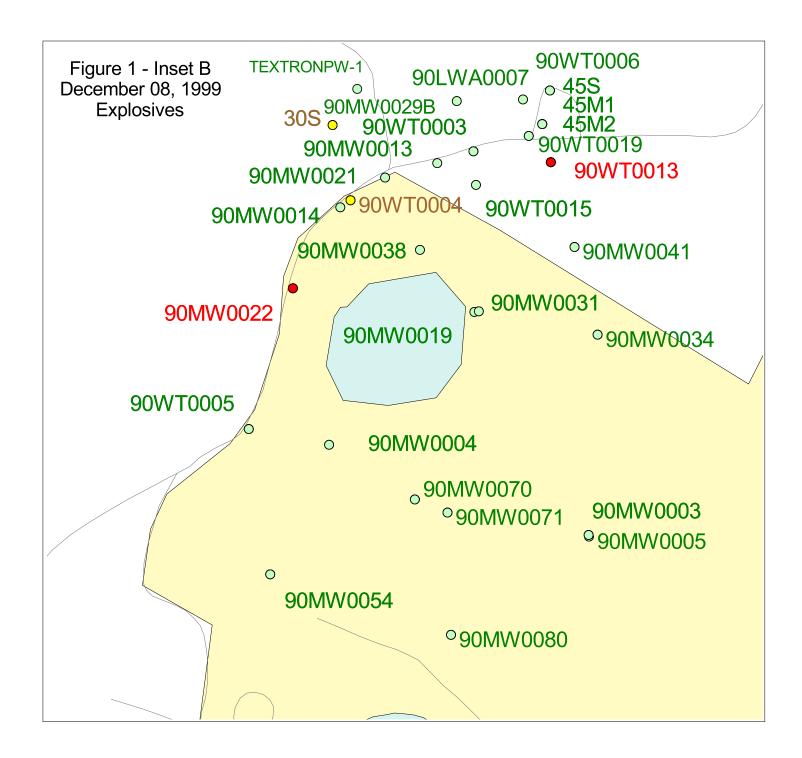
Figure 1
Explosives in Groundwater
Compared to MCL/HAs
Validated Data As Of 12/02/99

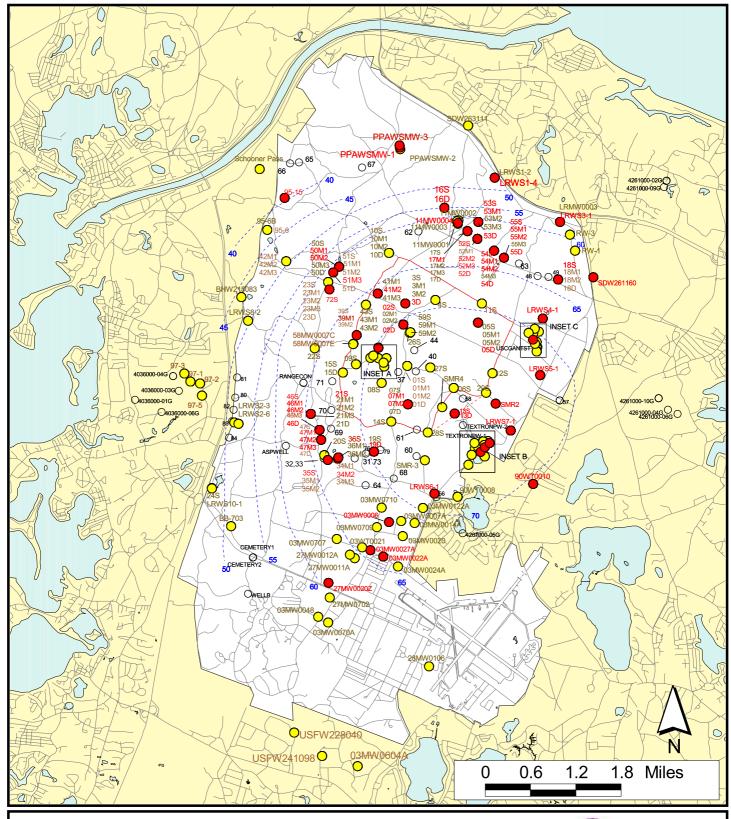
Analyte Group

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Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters Source: MASSGIS

Legend

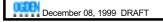
- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

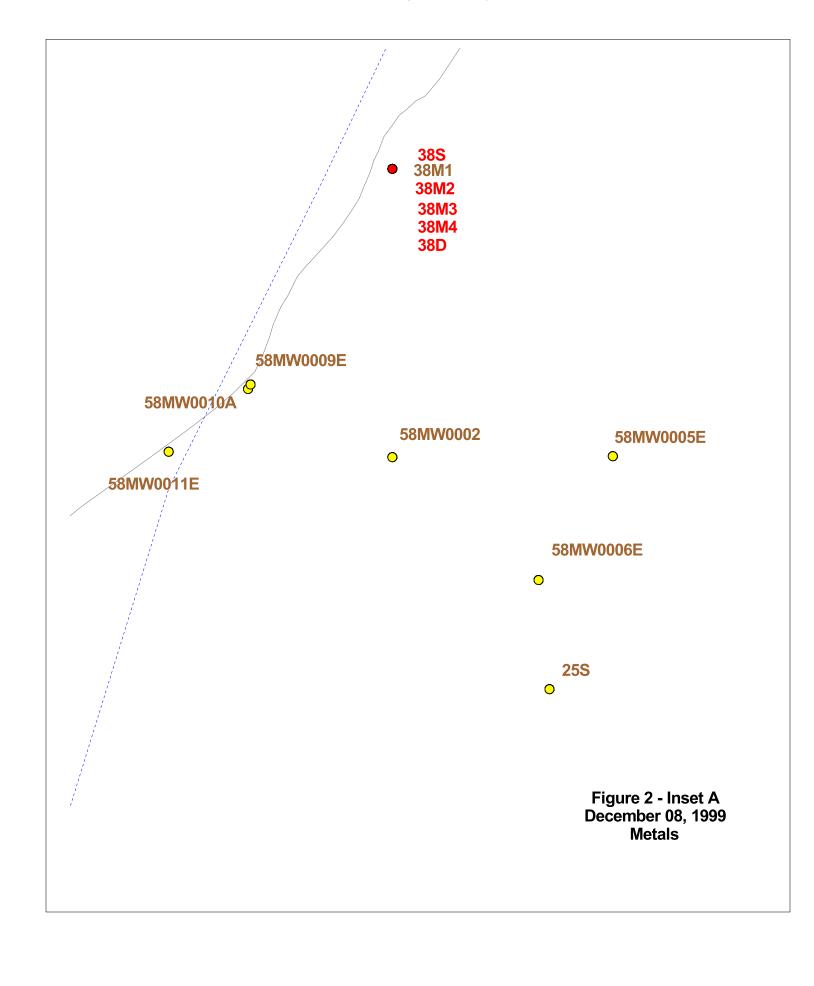


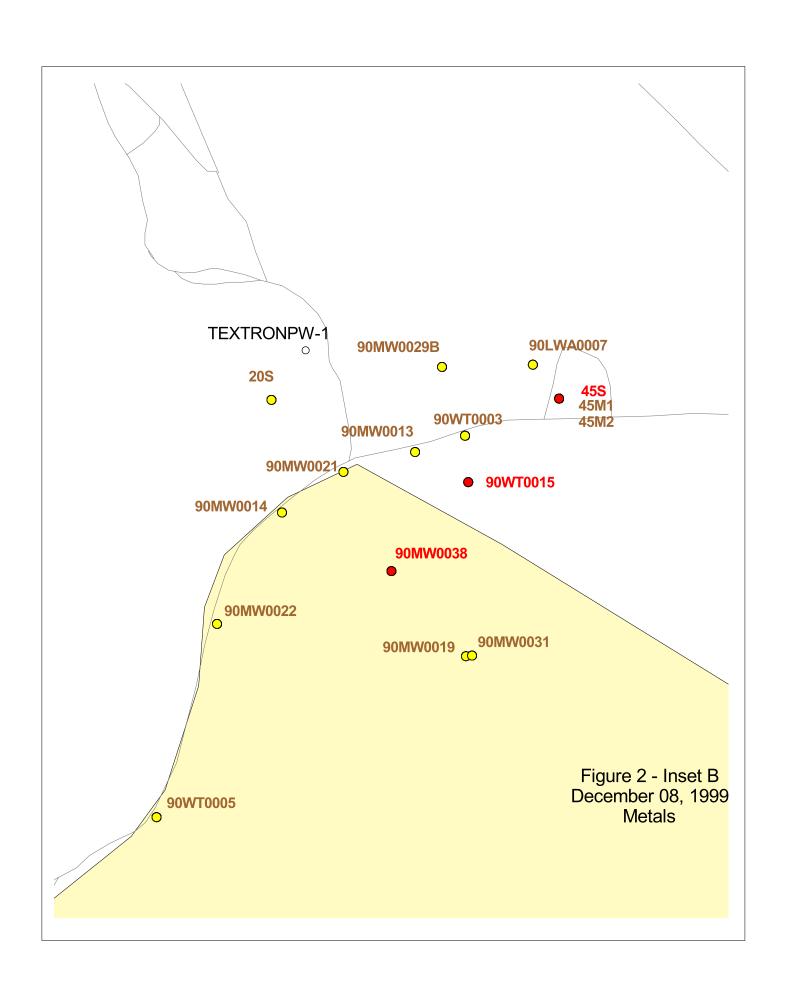
Figure 2
Metals in Groundwater
Compared to MCL/HAs
Validated Data As Of 12/02/99

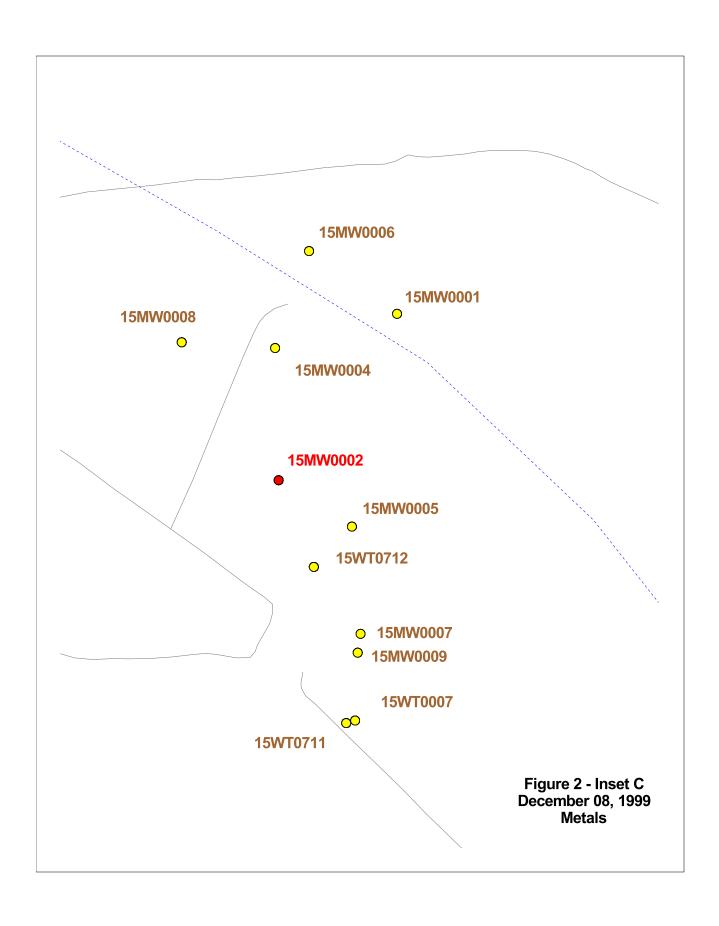
Analyte Group

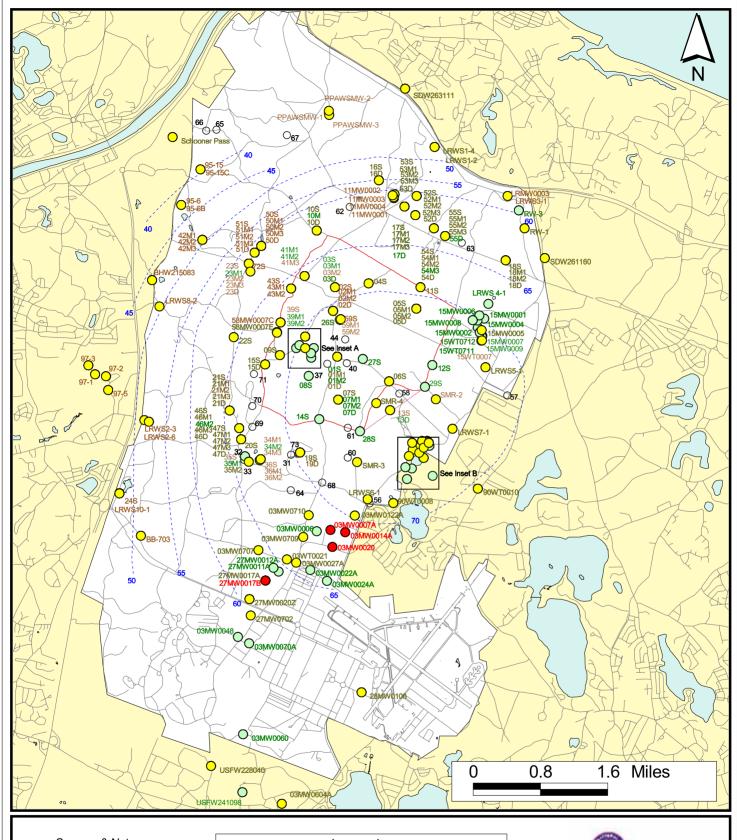
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Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters Source: MASSGIS

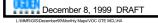
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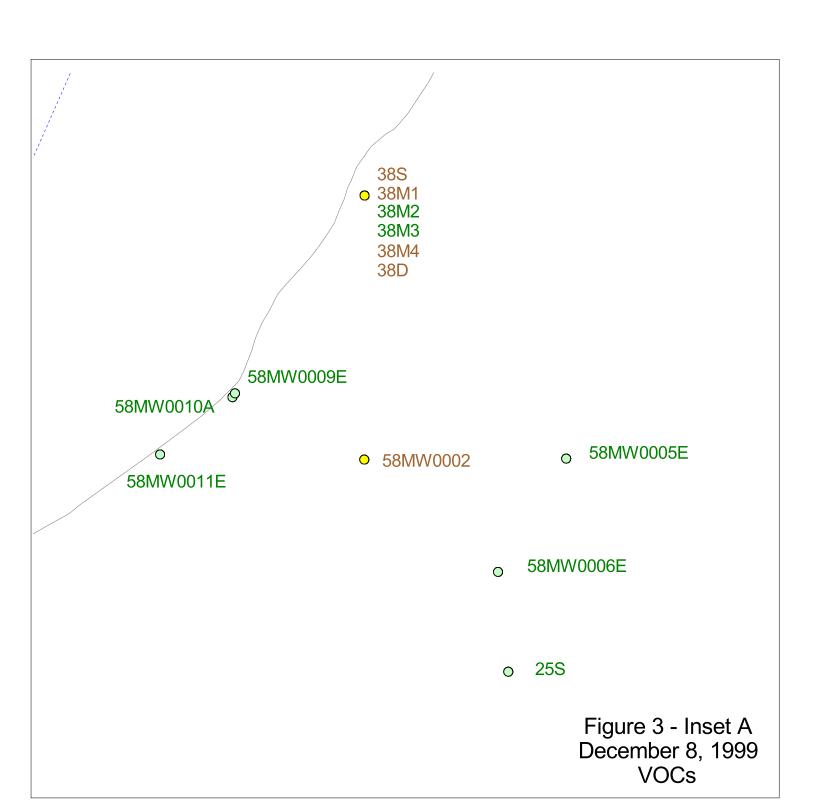
- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

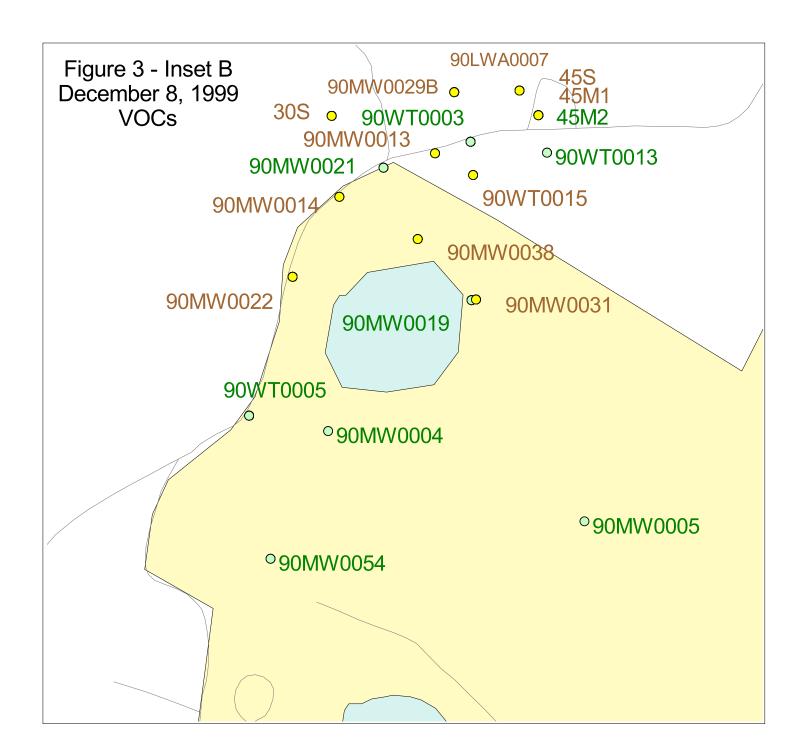


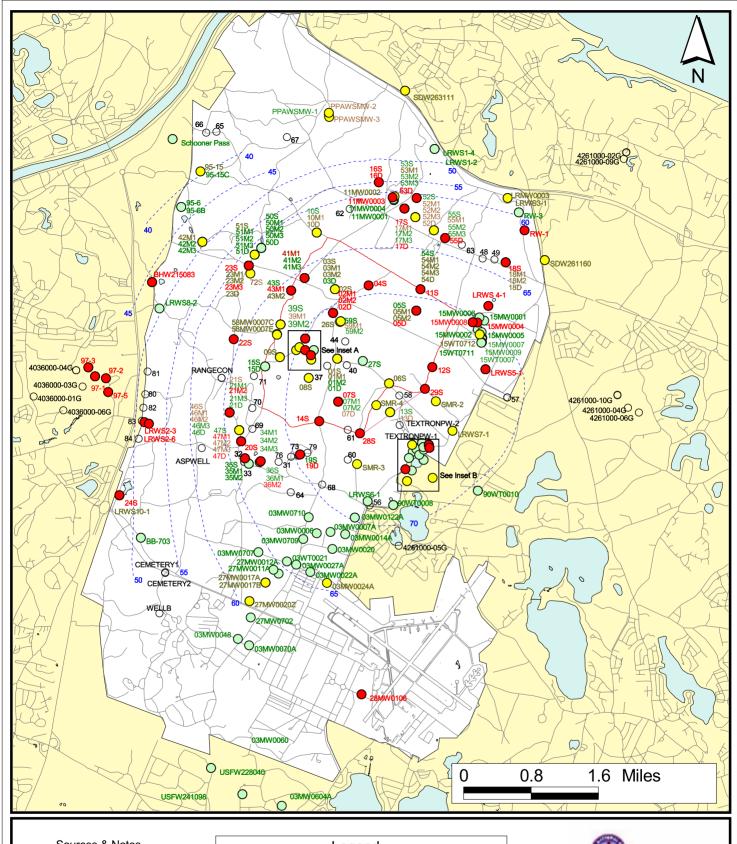
Figure 3 VOCs in Groundwater Compared To MCL/HAs Validated Data As Of 12/02/99

Analyte Group









Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters Source: MASSGIS

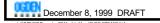
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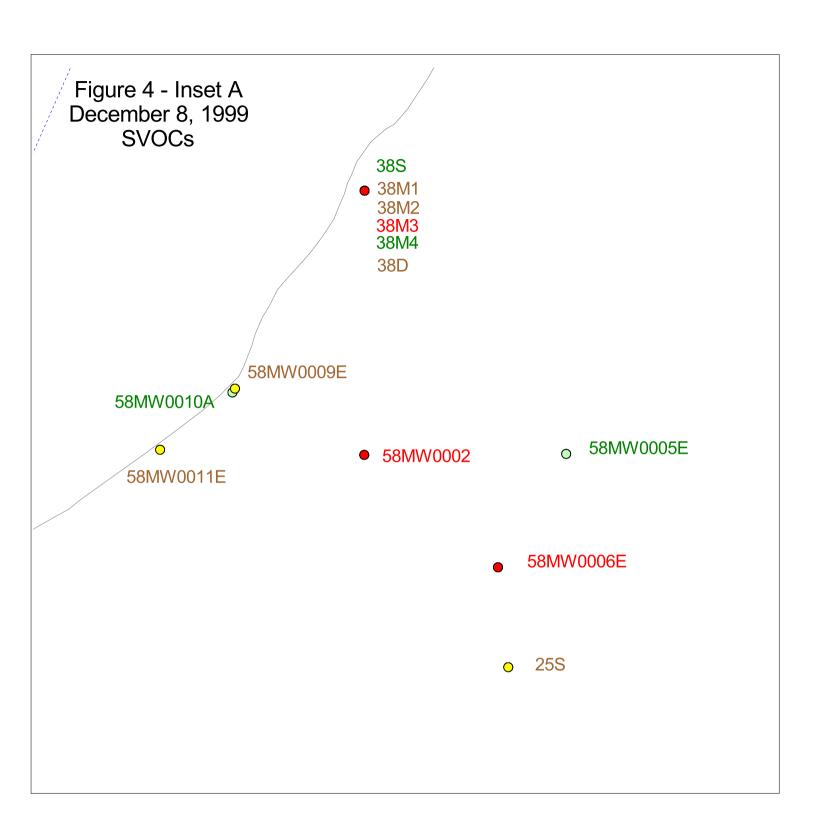
- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect 0
- No Data Available

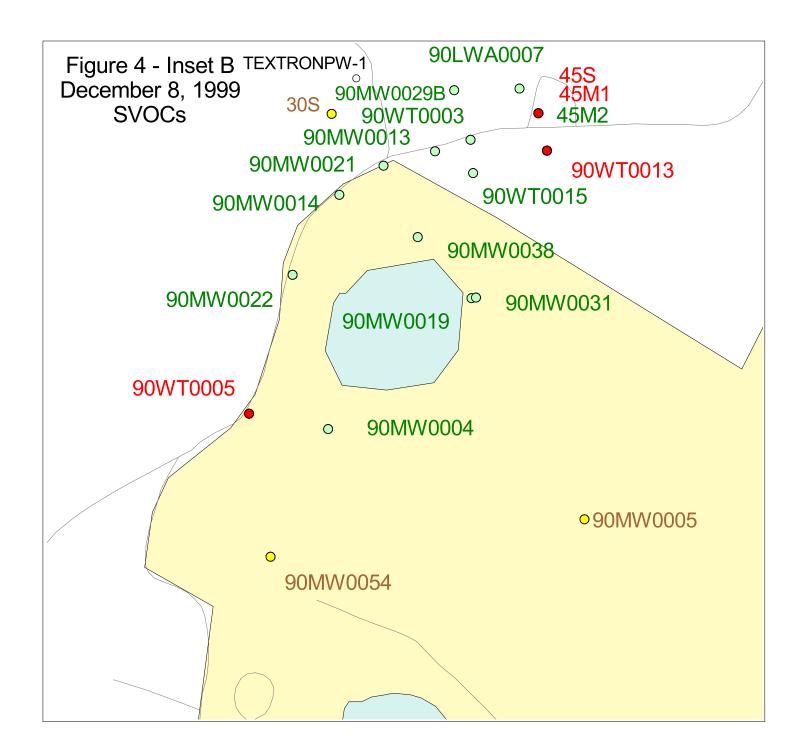


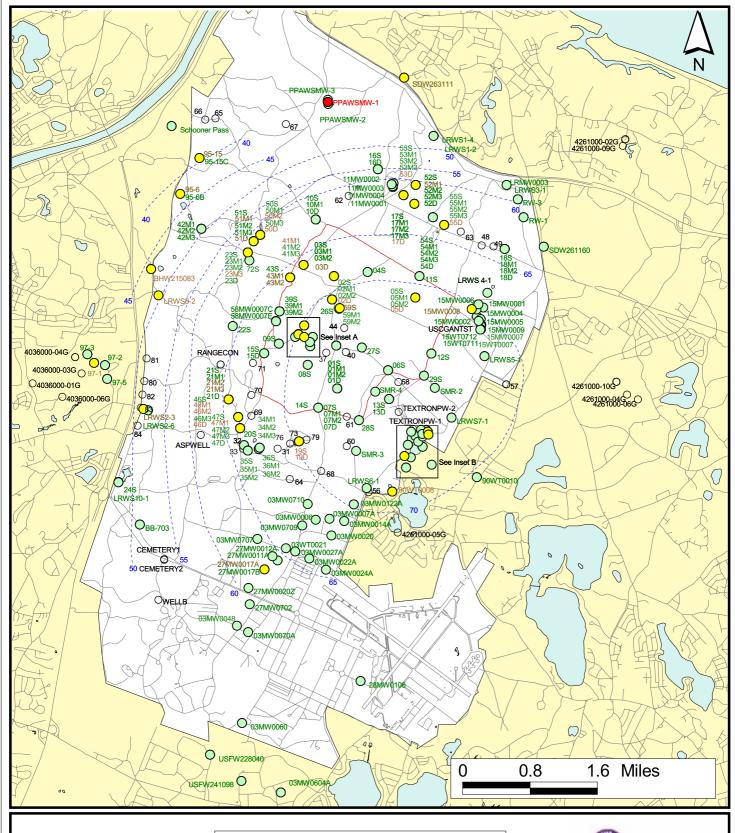
Figure 4 SVOCs in Groundwater Compared To MCL/HAs Validated Data As Of 12/02/99

Analyte Group









Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters Source: MASSGIS

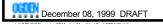
Legend

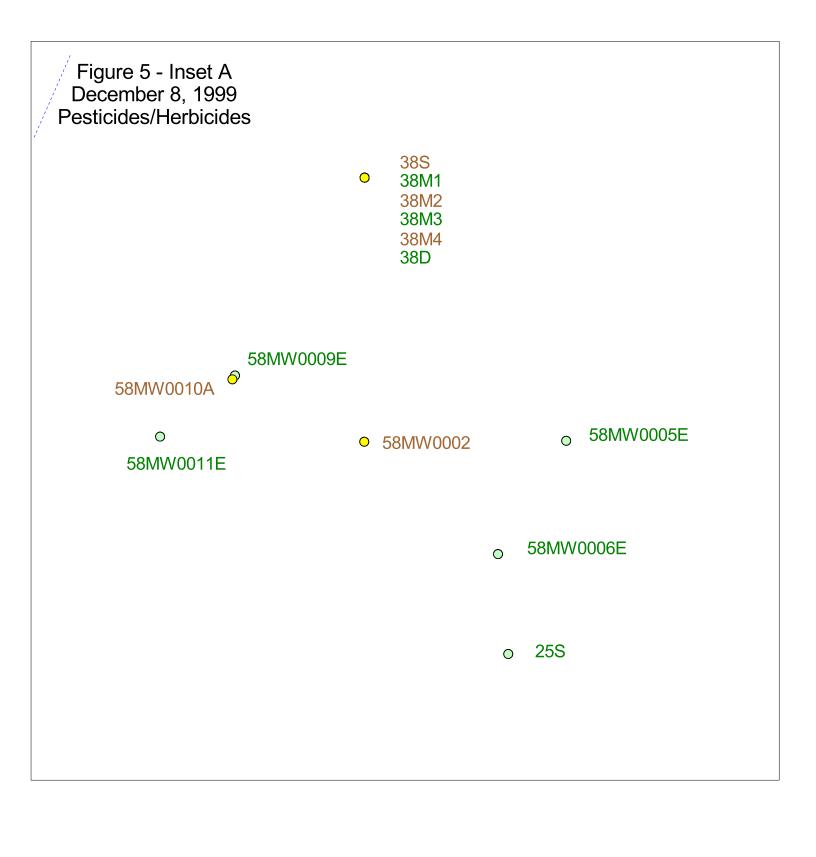
- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

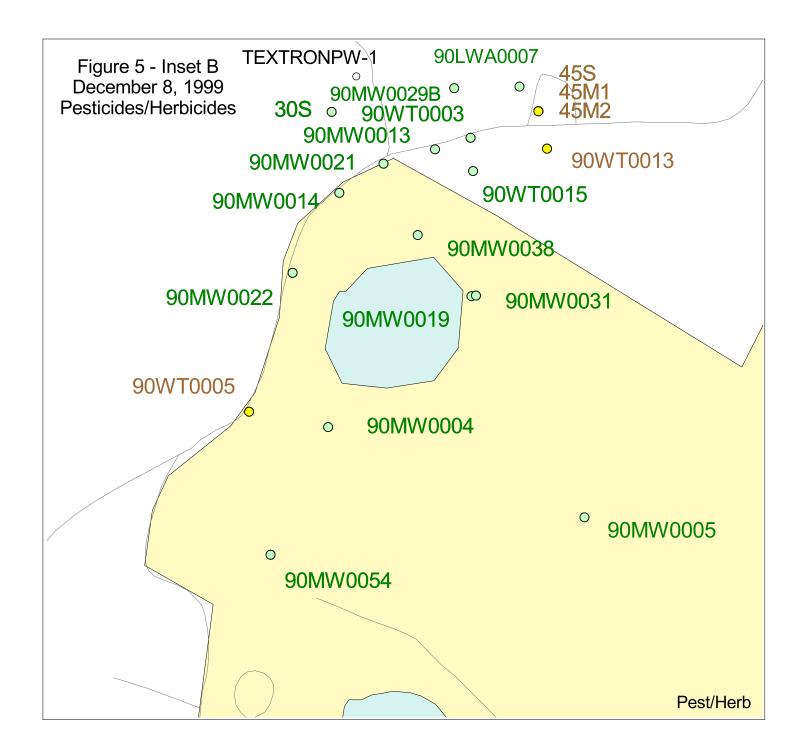


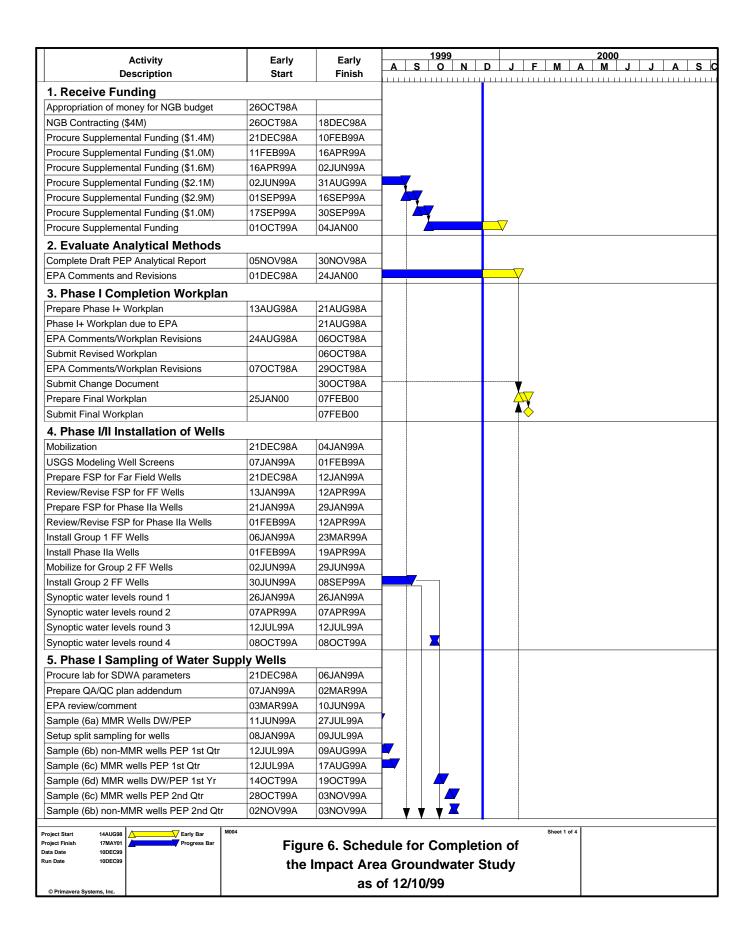
Figure 5 Herbicides and Pesticides in Groundwater Compared to MCL/HAs Validated Data As Of 12/02/99

> Analyte Group 5









| Activity | Early | Early | | | 99 N | | ١. | _ | NA - | 2000 | , . | |
|--|------------|-------------|----------|----------|---------|----------|----------------|---------------------|------|---------------------|-----|------------------------|
| Description | Start | Finish | A 3 | S (| N | | J | | M A | <u> </u> | JJ | <u> </u> |
| 5. Phase I Sampling of Water Supp | nly Wells | | | 1111 | | | A | | | | | |
| Sample (6b) non-MMR wells PEP 3rd Qtr | 27JAN00 | 09FEB00* | 1 | | | | <u> </u> | ∇ | | | | |
| Sample (6c) MMR wells PEP 3rd Qtr | 10FEB00 | 17FEB00* | - | | | | Т | $\overline{\nabla}$ | | | | |
| Sample (6b) non-MMR wells PEP 4th Qtr | 26APR00 | 09MAY00* | 1 | | | | | _ | | | | |
| Sample (6c) MMR wells PEP 4th Qtr | 11MAY00 | 17MAY00* | - | | | | | | | $\overline{\nabla}$ | | |
| Sample (6c) MMR wells PEP 5th Qtr | 11AUG00 | 17MAT00* | - | | | | | | | | | \triangle |
| Sample (6d) MMR wells DW/PEP 2nd Yr | 14AUG00 | 18AUG00* | - | | | | | | | | | $\overline{\triangle}$ |
| Sample (6c) MMR wells PEP 6th Qtr | 13NOV00 | 17NOV00* | - | | | | | | | | | V |
| Sample (6c) MMR wells PEP 7th Qtr | 12FEB01 | 16FEB01* | - | | | | | | | | | |
| Sample (6c) MMR wells PEP 8th Qtr | _ | | - | | | | | | | | | |
| 6. Phase I Sampling of Monitoring | 11MAY01 | 17MAY01* | | | | + | | | | | | |
| Review Selection of IRP wells | 05NOV98A | 30NOV98A | - | | | | | | | | | |
| Submit IRP well selection/rationale | _ | 30NOV96A | - | | | | | | | | | |
| | 30NOV98A | 10.10.100.0 | - | | | | | | | | | |
| EPA comments on IRP Wells | 01DEC98A | 19JAN99A | - | | | | | | | | | |
| Change document for IRP Wells | 20JAN99A | 29JAN99A | | | | | | | | | | |
| EPA cond. approve IRP well changes | 01FEB99A | 18FEB99A | - | | | | | | | | | |
| USGS model selected IRP wells | 01FEB99A | 11FEB99A | | | | | | | | | | |
| Changes to address MADEP comments | 19FEB99A | 09MAR99A | 4 | | | | | | | | | |
| Prepare FSP for Supplemental IRP Wells | 10MAR99A | 22APR99A | 4 | | | | | | | | | |
| Mobilization for Phase I Wells | 21DEC98A | 05JAN99A | _ | | | | | | | | | |
| Sample/Analyze Supplemental IRP Wells | 08APR99A | 22JUL99A | - | | | | | | | | | |
| Sample/Analyze Phase I Wells Round 2 | 06JAN99A | 14JUN99A | | | | | | | | | | |
| Sample/Analyze G1 FF Wells Round 1 | 17FEB99A | 27MAY99A | | | | | | | | | | |
| Sample/Analyze G1 FF Wells Round 2 | 23AUG99A | 02SEP99A | | | | | | | | | | |
| Sample/Analyze Phase I Wells Round 3 | 02SEP99A | 30NOV99A | | <u> </u> | | V | 1 | | | | | |
| Sample/Analyze G2 FF Wells Round 1 | 21SEP99A | 14OCT99A | | | / | _ | П | | | | | |
| Sample/Analyze G1 FF Wells Round 3 | 29OCT99A | 22NOV99A | | | | / | | | | | | |
| Sample/Analyze G2 FF Wells Round 2 | 27DEC99 | 14JAN00 | | | | | , \ | | | | | |
| Sample/Analyze G2 FF Wells Round 3 | 27MAR00 | 14APR00 | | | | | | | | <u>'</u> | | |
| 7. Phase I Response Actions for D | emo Area 1 | | | | | | | | | | | |
| Roadbuilding for MW34 | 28DEC98A | 04JAN99A | | | | | | | | | | |
| Install/Profile MW34 | 06JAN99A | 18JAN99A | | | | | | | | | | |
| Roadbuilding for MW35 | 18JAN99A | 18JAN99A | | | | | | | | | | |
| Install/Profile MW35 | 19JAN99A | 29JAN99A | | | | | | | | | | |
| Develop/Sample/Analyze MW34 | 11FEB99A | 19FEB99A | | | | | | | | | | |
| Develop/Sample/Analyze MW35 | 11FEB99A | 22FEB99A | | | | | | | | | | |
| Install/Profile/Develop MW36 | 09MAR99A | 20APR99A | | | | | | | | | | |
| Sample/Analyze MW36 | 05MAY99A | 14MAY99A | | | | | | | | | | |
| Evaluate Groundwater Data | 07MAY99A | 17MAY99A | | | | | | | | | | |
| Submit GW Data/Response Plan to EPA | | 17MAY99A | | | | | | | | | | |
| Review/Revise Response Plan | 18MAY99A | 15JUL99A | | | | | | | | | | |
| UXO Clearance Demo 1 | 28DEC98A | 13JAN99A | | | | | | | | | | |
| Standby for Demo 1 to dry up | 14JAN99A | 07APR99A | | | | | | | | | | |
| Mobilize ATV drill rig | 08APR99A | 03MAY99A | | | | | | | | | | |
| Demo 1 Soil Sampling to 15 ft | 03MAY99A | 07MAY99A | 1 | | | | | | | | | |
| Soil Sample Analysis/Evaluation | 04MAY99A | 27MAY99A | 1 | | | | | | | | | |
| Mobilize ATV drill rig | 28MAY99A | 04JUN99A | 1 | | | | | | | | | |
| Demo 1 Soil Sampling to 40 ft | 07JUN99A | 09JUN99A | 1 | | | | | | | | | |
| Soil Sample Analysis/Evaluation | 08JUN99A | 27JUL99A | † | | | | | | | | | |
| Submit Soil Data to EPA | 3333113371 | 27JUL99A | ∔ | | | | | | | | | |
| Evaluate Pilot Testing & Remedies | 21DEC98A | 18MAY99A | + | | | | | | | | | |
| E valuato i not resting & Nemeules | 2100000 | 10W/ CI JJA | _ | | | | 1 | | | | | |
| Submit draft remedy evaluation to EPA | | 18MAY99A | | | | | | | | | J | |

| Activity | Early | Early | 1999 2000 |
|--|----------------------|------------------------|--|
| Description | Start | Finish | A S O N D J F M A M J J A S |
| 8. Phase II (a) Workplan | | | |
| Prepare Phase II(a) Workplan | 24AUG98A | 11SEP98A | - |
| Submit Phase II(a) Workplan to EPA | 24A0G90A | 11SEP98A | - |
| EPA Review Phase II(a) Workplan | 14SEP98A | 28OCT98A | |
| Meeting to discuss Phase II(a) | 04NOV98A | 04NOV98A | |
| Revise Phase II(a) workplan | 05NOV98A | 12NOV98A | - |
| EPA review/comment | 13NOV98A | 22DEC98A | - |
| Prepare change document | 28DEC98A | 08FEB99A | - |
| EPA approve change document | 09FEB99A | 05/ EB33A 05/APR99A | - |
| Final Phase II(a) Workplan | 06APR99A | 22JUL99A | - |
| 9. Phase II Investigate Exceedance | | ZZGGZGGT | |
| Sample/Analyze Ph. II(a) Wells Round 1 | 30MAR99A | 26MAY99A | |
| Sample/Analyze Ph. II(a) Wells Round 2 | 16AUG99A | 24AUG99A | |
| Sample/Analyze Ph. II(a) Wells Round 3 | 09NOV99A | 22NOV99A | |
| Soil Sampling/Analysis for Source Areas | 04NOV99A | 12NOV99A | |
| | | 12140 V 33A | |
| 10. Phase II Characterize J Range | | 20 A D D 00 A | - |
| Sampling/Analysis for J-3 Wetland | 15APR99A | 20APR99A | _ |
| Review J-3 Wetland Results with EPA | 13MAY99A | 01JUL99A | - |
| Mobilization for Steel Pit | 10AUG99A | 13AUG99A | |
| UXO Clearance for steel pit | 16AUG99A | 13OCT99A | - |
| Soil sampling/analysis for Steel Pit | 14OCT99A | 14OCT99A | _ |
| Monitoring well installation for Steel Pit | 26OCT99A | 27OCT99A | - |
| Develop Well | 15NOV99A | 15NOV99A | |
| Sample/Analyze monitoring well Review Steel Pit Results with EPA | 23NOV99A 04JAN00 | 03JAN00 10JAN00 | _ |
| | | TOJANOO | + |
| 11. Phase II Survey for Munitions | | 20050004 | |
| Technology Meeting | 09DEC98A | 09DEC98A | |
| Prepare Survey Work Plan | 10DEC98A | 01FEB99A | |
| Review/Revise Workplan | 02FEB99A | 06AUG99A | _ |
| Excavation/Sampling of Brick-lined Pits | 19FEB99A 23FEB99A | 22FEB99A | _ |
| Analysis of Brick-lined Pit Samples | | 01JUL99A | |
| Prepare Tech Memo for Brick-lined Pit | 02JUL99A | 04AUG99A | |
| 12. Phase II Characterize Training | Areas | T | |
| Completion of Archives Search Report | | 31MAR99A | |
| Phase II (a) Workplan for Training Areas | 01APR99A | 22JUL99A | |
| EPA Review/Approve Workplan | 23JUL99A | 16DEC99 | |
| Begin Training Area Investigations | 06JAN00* | | |
| 13. Phase II Characterize KD and | | T | _ |
| MIDAS search for analytes | 27APR99A | 06MAY99A | _ |
| Soil Sampling/Analysis for KD and U | 10MAY99A | 17MAY99A | |
| UXO Clearance for Monitoring Wells | 28JUN99A | 02JUL99A | _ |
| Roadbuilding | 06JUL99A | 09JUL99A | |
| Monitoring Well installations at KD and U | 20JUL99A | 02SEP99A | |
| Sample/Analyze monitoring wells | 17SEP99A | 20SEP99A | |
| 14. Phase II Characterize Gun/Mo | rtar Positions | i | |
| Completion of Archives Search Report | | 31MAR99A | |
| Develop Field Sampling Plan | 01APR99A | 02JUL99A | |
| Agencies Review FSP | 06JUL99A | 08SEP99A | |
| Mobilize drilling equipment | 16AUG99A | 27AUG99A | |
| Install Monitoring Wells at Gun/Mortar | 30AUG99A | 13OCT99A | |
| Sample/Analyze monitoring wells | 19OCT99A | 28OCT99A | |
| Soil Sampling/Analysis at Gun/Mortar | 15OCT99A | 03MAR00 | |

| Activity Description | Early | Early | | | 2000 | | | | | | | | | |
|--|--------------|----------|-------------|---|----------|---|--------------|---------------|---------------|---|----|---|----------|----|
| | Start | Finish | AS | | N | D | J | | М | Α | М | J | JA | S |
| 15. Phase II Characterize Trnch, E | Excvtn. Bnkr | | 111111111 | | | | Т | Ш | ш | ш | шш | | 1 | шш |
| Completion of Archives Search Report | | 31MAR99A | - -₩ | | | | | | | | | | | |
| Assessment of site features | 16AUG99A | 27AUG99A | | | | | | | | | | | | |
| Review data with EPA | 19AUG99A | 26AUG99A | | | | | | | | | | | | |
| Phase II (a) Workplan for Trenches, etc. | 30AUG99A | 04OCT99A | | | | | | | | | | | | |
| EPA Review/Approve Workplan | 05OCT99A | 02DEC99A | | | | 1 | | | | | | | | |
| Begin Trenches Investigations | 06DEC99A | | | | ₹ | | | | | | | | | |
| 16. Phase II Sampling Groundwat | ter at SAR | | | | | | | | | | | | | |
| Install Monitoring Wells at SAR | 09MAR99A | 23APR99A | 1 | | | | | | | | | | | |
| Sample/Analyze Monitoring Wells | 27MAY99A | 05AUG99A | _ | | | | | | | | | | | |
| 17. Phase II Characterize Mortar 1 | Fargets | | | | | | | | | | | | | |
| Reconnaissance of Targets | 16AUG99A | 27AUG99A | | | | | | | | | | | | |
| Discuss sampling plan with EPA | 19AUG99A | 26AUG99A | | | | | | | | | | | | |
| Prepare draft FSP | 30AUG99A | 04OCT99A | | Ţ | | | | | | | | | | |
| EPA review/comment on FSP | 05OCT99A | 02NOV99A | | | 7, | | | | | | | | | |
| Prepare final FSP | 09NOV99A | 02DEC99A | | | | | | | | | | | | |
| Begin Mortar Targets Investigations | 06DEC99A | | | | \ | | | | | | | | | |
| 18. Reports and Meetings | | | | | | | | | | | | | | |
| Progress Reports | 10SEP98A | 10OCT00 | | | | | 1 | | | | | | 1 | |
| Phase II Interim Results Report | 01SEP99A | 01NOV99A | | | 7 | , | V | | | | | | | |
| Draft Interim Longterm Monitoring Report | 06JAN00 | 02MAR00 | | | | 4 | | $\overline{}$ | | | | | | |
| Review Draft ILM Report | 03MAR00 | 30MAR00 | | | | | | | $\overline{}$ | | | | | |
| Final ILM Report | 31MAR00 | 27APR00 | | | | | | | \triangle | | | | ₩ | |
| Draft Phase II Compl. Work Report | 00YAM80 | 18JUL00 | | | | | | | | 4 | | | ▽ | |
| Review Draft Phase II CWR | 19JUL00 | 15AUG00 | | | | | | | | | | | | 7 |
| Final Phase II CWR | 16AUG00 | 13SEP00 | | | | | | | | | | | | |