**WEEKLY PROGRESS UPDATE**
**FOR SEPTEMBER 9 – SEPTEMBER 13, 2002**

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

The following summary of progress is for the period from September 9 through September 13, 2002.

## 1. SUMMARY OF ACTIONS TAKEN

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

**Table 1. Drilling progress as of September 13, 2002**

| Boring Number | Purpose of Boring/Well | Total Depth (ft bgs) | Saturated Depth (ft bwt) | Completed Well Screens (ft bgs) |
|---|---|---|---|---|
| MW-233 | Base WS-4 sentry well (WS4P-2) | 415 | 199 | |
| MW-237 | J-3 Range (J3P-21) | 210 | 159 | |
| MW-238 | L Range (LP-8) | 260 | 163 | |

bgs = below ground surface
bwt = below water table

Continued well installed of MW-233 (WS4P-2), and completed drilling of MW-237 (J3P-21) and MW-238 (LP-8). Well development continued for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-237 and MW-238. Groundwater samples were collected from Bourne supply, far field, test, and monitoring wells, Sandwich supply wells, as part of the Site-Wide Perchlorate sampling, and as part of the August Long Term Groundwater monitoring round. Surface water samples were collected from Snake Pond. Water samples were collected from the GAC treatment system. Post-detonation soil samples were collected from the J-3 Range.

As part of the Munitions Survey Project, soil samples were collected from excavations of J-2 and N Ranges' anomalies. Samples of a waxy substance were also collected from the Anomaly 2D excavation.

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

**Participants**

| | | |
|---|---|---|
| Ben Gregson (IAGWSPO) | MAJ Bill Myer (IAGWSPO) | Tina Dolen (IAGWSPO) |
| Karen Wilson (IAGWSPO) | Bill Gallagher (IAGWSPO) | Dave Hill (IAGWSPO) |
| LTC Bill FitzPatrick (E&RC) | Todd Borci (EPA) | Meghan Cassidy (EPA) |
| Desiree Moyer (EPA) | Len Pinaud (MADEP) | Mark Panni (MADEP) |
| Dave Williams (MDPH) | Darrel Deleppo (ACE) | Gina Tyo (ACE) |
| Ed Wise (ACE) | Heather Sullivan (ACE) | Ellen Iorio (ACE) |
| John MacPherson (ACE) | Rob Foti (ACE) | Don Wood (ACE) |
| Rob Clemens (AMEC) | Marc Grant (AMEC) | Kim Harriz (AMEC) |
| Maria Pologruto (AMEC) | John Rader (AMEC) | Ben Rice (AMEC) |
| John Rice (AMEC) | Mark Applebee (AMEC-phone) | Jay Clausen (AMEC-phone) |
| Leo Yuskus (Haley & Ward) | Larry Pannell (Jacobs) | Larry Hudgins (Tetra Tech) |
| John Webster (Tetra Tech) | Carla Buriks (Tt-phone) | Susan Stewart (Tt-phone) |
| Leo Montroy (Tt-phone) | | |

**Punchlist Items**

#4 Provide table listing items from AirMag and N-Range anomaly excavations (Corps). Provided earlier this week.

#5 Provide status of anomalies digital map for Scar Site prior to 9/19 Tech meeting (Corps). To be provided by Monday, 9/16.

#6 Provide analyses for wells 95-15a and 95-15c that are upgradient of Schooner Pass (Corps). Table of explosive and perchlorate results for 95-15 well screens distributed at meeting.

- Ellen Iorio (ACE) clarified prior statements (at 8/29 Tech meeting) regarding implementation of the new BIP sampling protocols. Tetra Tech has been sampling soil for perchlorate and PCN analysis in areas where it is known that these constituents were present in the BIPed item. Beginning today, the modifications for covering BIPs will be implemented. AMEC has recently initiated perchlorate and PCN analysis. Tetra Tech is not able to implement explosive analysis using the 8330L analytical method; therefore all future BIP sampling will be performed by AMEC. Ms. Iorio to check on prior post-detonation sampling for perchlorate for previously BIPed LITR rounds.

**MSP3 and Southeast Ranges Update**

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

AIRMAG. Pursuant to the agencies request, a Schonstedt survey was completed for a 15m section on either side of Barlow Road between Wood and Jefferson Roads. A table of findings is being prepared and will be submitted shortly.

J-2 Range Polygons. Polygon 2D was completed yesterday, 9/11. Crews will be moving to 2U. J-2 Range Polygon 2 sections B, C, E, G, H, K, N, O, P, R, V, X remain to be investigated.

SCAR Site. A digital map of the geophysical data is being completed and should be ready for presentation early next week. Cultural and surface items need further field verification.

N Range. Excavation of all original 10 anomalies and 3 additional anomalies has been completed. Anomaly 11 was a steel plate. Anomaly 12 was a burial area with 59, 3 1/2-inch Rockets with suspect fuzes; these items to be BIPed. Dr. Susan Goodfellow (E&RC) has reviewed the excavation areas and approved their backfill. Clean up of the area remains.

U Range. Grubbing is 50% complete. 20% of the surface clearance has been completed. Crews are finding 3 ½-inch rockets with suspect fuzes. Todd Borci requested a table showing the overall number of rounds found and what might need to be blown-in-place. Mr. Foti

indicated that a running tally would be kept.
Drilling – John MacPherson (ACE) indicated that drilling was being conducted on proposed locations J3P-21 (J-3 Range) and LP-8 (L Range). UXO clearance was being conducted at LP-6 and J1P-17.

**Archive Search Report Update**
Carla Buriks (Tetra Tech) presented and update on ASR activities.

- Interviews. Third round interviews are continuing. An update of the interview status will be forwarded shortly. Of potential interviewee's named on the May 8th list, 26 people have been located and contacted, 3 additional people were added by the Guard. One of the Navy representatives found living in Florida, was contacted and expressed a willingness to be interviewed, but the information packet that was forwarded was sent back marked "return to sender". The private investigator will follow-up with this Navy witness. A list of additional leads has also been compiled for Guard review and can be provided to the agencies.
- Todd Borci stated that the Guard should not be prioritizing the interview list or adding/substituting interviews without EPA input. Gina Tyo (ACE) responded that no names had been substituted/replaced on the original list, only names had been added.
- The Witness Interview Summary Table that will summarize interviewee information for witnesses 25-52 is being reviewed by the Guard this week. It will be made available for IART distribution once approved by the agencies.
- In regard to the Web site, the 2001 ASR has been posted. Interview information will be linked in. As applicable, whole sections of the ASR will be replaced on the web site as the sections are revised. Appendices, which have recently been scanned in, will be added; Appendix 53 will be the first to be added next week.
- The Witness Interview Summary Table and maps provided as a part of interviews will also be posted on the web site. The actual interview summaries will not be posted in order to offer as much anonymity to the witnesses as possible. The interview summaries provide pertinent background information on the witnesses (length/year of service, positions held, etc.) that could lead to their identification. As an MADEP submittal, this information is in the public record of the project. The concern related to posting of the witness summaries is that it might discourage other witnesses from stepping forward and providing relevant information.
- Regarding agency comments on the draft Revised ASR, Tetra Tech is still looking for additional information; overall the ASR revisions are on track with the response to EPA comments. Revised sections of the document should be completed in early November for submittal to the agencies by mid-December.
- Todd Borci expressed concern that follow-up actions relevant to information provided in the interview summaries were not being addressed. Mr. Borci cited the response to the Witness #30 interview as an example. This witness reported that in approximately 1958, Arthur D. Little disposed of hundreds of pounds of explosives at a bunker in the Impact Area near CS-19. Between the CS-19 bunker and the CS-19 site, soil samples had been collected from three grids. Based on the quantity of explosives disposed, the recommendation was that additional sampling was needed. Mr. Borci inquired as to what was being done as a follow-up action, asking the Corps to specifically review the Witness #30 interview.
- Gina Tyo (ACE) explained that the interview information is shared among the Guard, Corps and contractor technical project managers. Based on the information, the technical team decides what action to pursue and these actions are presented in scoping meetings and workplans to the agencies under the applicable investigatory program. Ms. Tyo cited as an example the Witness #9 interview where it was reported that propellant bags were buried at gun and mortar firing positions. At the technical team's request, additional witness interviews were conducted to explore the various practices of disposing of excess propellant

at firing positions. This information was used to scope a geophysical survey to identify potential burial locations. And further witness interviews were requested to determine training practices conducted prior to 1975. Bill Gallagher (IAGWSPO) added that although there was no formal mechanism for follow-up, all information is reviewed by the Guard's technical team.

- Ms. Buriks suggested that a third column could be added to the Interview Summary Tables to indicate what follow-up action was taken. Mr. Borci requested that the table provide a specific referral to a report where the information is addressed. Dave Hill (IAGWSPO) suggested, and the technical team concurred, that an after meeting be scheduled in two weeks to discuss how the witness information is handled and how the team can document how this information is considered in the groundwater and munitions investigations.
- Ms. Buriks added that with the exception of two interview summaries that would be provided next week, all witness interviews to date have been summarized and distributed to the technical team.

**Demo 1 Area Groundwater**

Heather Sullivan (ACE) provided on update on Demo 1 Area Groundwater and pertinent issues.

- D1P-15 drilling will likely commence next Thursday; drilling on this location has been delayed because of problems with the installation at WS4P-2. ROAs are being processed for two proposed locations (D1P-16, D1P-17) at the power lines.
- New groundwater sampling results were received for MW-231. Perchlorate was detected in the M2 screen at 1.5 ppb and in the M1 screen at 0.5 ppb (unvalidated).
- Mark Applebee (ACE) asked if MADEP was comfortable that with the installation of wells at P15, P16 and P17 locations and assuming results below 1.5 ppb for Perchlorate, the plume would be adequately delineated. Mr. Applebee asked the agencies consideration of this matter, particularly in light of the detection of perchlorate at 1.5 ppb in MW-231, which was the furthest well to the south along this transect of wells. Len Pinaud (MADEP) stated that considering that non detect for perchlorate had been achieved at the MW-221 location, directly to the east of MW-231 (furthest well south on Pew Rd), that it would be prudent to have a non detect for perchlorate at a southern-most well location along the line of wells to be installed at the power lines rather than south of MW-231. This would provide a clean boundary line for the west end of the plume.
- The Corps/Guard agreed to add this third "power-line" well into the schedule. Mr. Applebee to adjust the schedule for completion of plume delineation, which is in the critical path for completion of other RRA/RAM activities.
- To Mr. Borci's inquiry, Mr. Applebee and Jay Clausen (AMEC) indicated that the Demo 1 Area groundwater model is still being revised.

**Central Impact Area Additional Wells**

Bill Gallagher (IAGWSPO) led the discussion regarding Central Impact Area issues.

- The proposed location for CIAP-14 is in a moderately sensitive cultural resource area. Therefore, Dr. Goodfellow has asked that the well proposed to be installed at this location be drilled without disturbing the soil or that the location be moved.
- John MacPherson (ACE) explained that an embankment along the roadway where the well is being installed needed to be cut into to provide the minimum-allowable 40-foot wide drill pad. Therefore, the Corps proposed that the well be moved back to its original location, 100 feet to the west along the road.
- Todd Borci asked that the Guard/Corps explore what would be required for a cultural resources survey as opposed to moving the location. Karen Wilson (IAGWSPO) to coordinate with Dr. Goodfellow to provide input at the 9/19 Tech meeting.
- Maria Pologruto (AMEC) indicated that drilling of this well was currently scheduled to begin

on 12/01.

- The Aquifer Test Report will be forwarded to the agencies for review shortly.
- A description of the Target Sampling and results (hits only table) will be provided to the agencies within two weeks. Complete information will be provided in the report.
- Regarding the EcoRisk Assessment for the Central Impact Area, Len Pinaud (MADEP) proposed that the agencies/Guard/Corps and the technical support team have a "summit" with a goal of placing boundaries on the Central Impact Area Soil Operable Unit. Should the operable unit include the entire impact area (2200 acres), or be limited to the areas of the intersection of Tank Alley and Turpentine Roads and the targets, or (more likely) something in-between? Definition of the boundaries is critical for making decisions regarding data gaps and Eco Risk needs. Meeting targeted for 9/26.
- For this meeting, EPA/MADEP requested that the Guard compile all pertinent information from the HUTA1 Report, revised HUTAll Reports, Central Impact Area Soil Report, Archive Search Report, AirMag and information regarding Mortar Target 9.

**Schooner Pass**

Bill Gallagher (IAGWSPO) led a discussion on the Schooner Pass well.

- Information on the well had been distributed to the Tech team last week. Results for resampling of the well were non detect for explosives and perchlorate. However, peaks on the chromatographs were noted at levels below the reporting limit (RL) in the retention time window for RDX. AMEC also reviewed all previous results of samples from this well and it was determined that a peak below the RL for RDX is also present in the results from prior sampling events. Based on this review, the Guard concludes that RDX is likely present in groundwater at Schooner Pass in a concentration that fluctuates above and below the RL.
- All 95-15 well screens are and have historically been non detect for explosives.
- Ben Gregson (IAGWSPO) indicated that he had relayed the resampling results to the Schooner Pass water superintendent via an answering machine message. Monthly monitoring of the well for explosives and perchlorate had also been offered via this meesage. This offer was also relayed to Jeff Rose (MADEP Water Supply) who felt that this was a reasonable course of action. MADEP to initiate further contact with the Schooner Pass condominiums, if needed.
- A figure was distributed showing particle backtracks from the Schooner Pass well originating from 10, 20, 30, and 40 ft below the water table. The backtracks which tracked between GP-19 to the south and GP-16, GP-14 and L-3 Range to the north, as far back into the northwest corner of the base as Orchard Road, pointed to no obvious sources of any explosives compounds.
- Todd Borci requested that soil data for surrounding areas (especially GP-19) be checked for explosive detections. Mr. Borci also asked how confident the Guard was of the groundwater flow direction at the Former A Range, requesting that the Guard check on the last time groundwater elevations had been measured in the surrounding area. It was also suggested that the Guard investigate how the leaching beds at the wastewater treatment plant southwest of Schooner Pass affected groundwater flow and identify wells associated with the leaching beds. The 102$^{nd}$ FW engineering group should have information on monitoring wells and local groundwater effects.

**IART Maps**

Tina Dolen (IAGWSPO) led the discussion on IART map revisions.

- Two example IART figures were distributed. Figure 5 depicted the Central Impact Area plume map overlain with red/yellow/green circles to indicate available validated perchlorate data at the monitoring wells. Figure 6 depicted the Southeast Ranges Perchlorate plume overlain with red/yellow/green circles to indicate available validated perchlorate data. At

each well location, the color of circle represented the highest detection of perchlorate ever reported for any well screen at the location.

- Todd Borci indicated that these figures looked liked what the IART team had requested.
- John Rader (AMEC) stated that all residential well locations had been removed from the GIS "all points" data set. Residential wells would no longer be displayed on any map, without a specific request.
- Tech team agreed to schedule the 9/19 IART Dry Run for 9 am. The 9/19 Tech meeting was rescheduled for 12 pm, noon.

**Phase IIb Update**

Ben Rice (AMEC) led a discussion on status and upcoming actions for the Phase IIb sites. Phase IIb comprises 50 sites that have been placed into 5 groups based on similarities in use, stage of investigation or anticipated follow on actions as follows:

1) Small Arms Ranges – inactive and active.
2) Demo Area 2
3) Former A&K Ranges
4) Other Sites
5) Training Areas

Small Arms Ranges. Draft Report has been submitted. 28 Ranges were investigated. 14 Ranges were recommended for additional actions. The Guard is awaiting agency comment. EPA/MADEP comments to be forwarded at end of the week of 9/16.

Demo Area 2. Draft Workplan was submitted for additional delineation of soil and groundwater and to identify a source. Todd Borci indicated that the Workplan looked good. EPA/MADEP comments to be submitted on/around 9/18.

Former A/K Ranges. Workplans for these areas have been on hold because they involve additional OE characterization work. The site-wide OE characterization Workplan is funded for FY03 to be completed by ECC. Former A Range will likely be identified as an operable unit. EPA suggested that while OE characterization is being completed, Interim Reports can be generated for the proposed soil and groundwater investigations and MSP3 recommendations, modeled after the approach used at the Southeast Ranges. A Final Report can be generated when the OE characterization work is complete. Former K Range investigatory work involves both firing point and down range targets; anomalies have been identified in the target areas. EPA and MADEP suggested that the munitions work should go forward prior to further soil characterization at the targets and that investigation of the firing point should be conducted with the target characterization work.

Other Sites. Includes Succonsette Pond, U Range, Inactive Demo Sites, etc. Additional data collection is scoped for these sites, but implementation of this work awaits the results of the geophysical surveys. Mr. Borci preferred that the geophysical surveys be conducted prior to the soil characterization. Bill Gallagher indicated that the Guard would like to finalize the Phase IIb report, segregating out specific sites as Operable Units for additional actions. Mr. Borci to consider, requesting that the Guard provide a list of how the sites would be addressed prior to submission of the Draft Final Phase IIb Report. Phase IIB further action list to be provided week of 9/16.

Training Ranges. Workplan submitted to the agencies is approximately 2 years old. No comments received to date. Tech team agreed to have scoping meeting for Training Ranges Workplan revision in late October (10/17).

**Bourne Update**

Bill Gallagher (IAGWSPO) led the discussion regarding the Bourne area investigations. Figures showing particle backtracks from well screens upgradient of Bourne where perchlorate was detected in groundwater or profile samples and a preliminary plume map were distributed.

- The Guard has agreed to provide well head treatment for Bourne Production Well 1. Currently, pilot testing of technologies is being conducted. The Guard's intent is to move forward quickly.
- Problems with installation of the last well screen at the WS4P-2 location (MW-233) have delayed development and sampling of the other two well screens at this location. Data from this location is viewed as critical in assessing the location of additional sentry wells upgradient of WS-4. The Guard has proposed to submit ROAs for three well locations, two between WS-4 and WS4P-2 (MW-233) and one between WS-4 and WS4P-1 (MW-219). The Guard's proposed approach is to drill one well 1/3 of the distance from WS-4 to WS4P-2. Once data from this well is received, the approach for additional well installation would be reevaluated. Leo Yuskus (Haley and Ward) stated that it was the Bourne Water District's preference that all 3 wells upgradient of WS-4 would be installed immediately in an effort to achieve two "clean" wells upgradient of WS-4. This would facilitate obtaining the MADEP Water Supply's approval for use of WS-4 for an emergency water source. With MADEP's approval this well could potentially be on-line in approximately 2-3 weeks. Len Pinaud (MADEP) requested that the one proposed well that had been agreed to be placed on the maps.
- An extended discussion among the Guard, MADEP, MDPH, EPA, and Haley and Ward ensued on the Bourne-area perchlorate plume map. Among the opinions expressed were the following:

  Mark Panni (MADEP) – area between contour line for non detect and 1 ppb should not be shaded.

  Todd Borci (EPA) – The plume area seemed to depict an area of detections rather than a defined plume. Monitoring wells where perchlorate had been sporadically detected were included within the plume. This was not the case for plume delineation in other areas. Plume should be cut off to the east at MW-70 where there have been no detections of perchlorate. Mr. Borci also questioned how the contour line had been drawn between MW-80 and 97-5.

  Len Pinaud (MADEP) – drawing of the plume should be consistent with criteria for drawing plumes in other areas of the base. A solid contour line should be used north of MW-213 and south of MW-80, only the leading edge should be dashed. How the plume map was to be used should be a consideration as to how it should be drawn – if the use was for the IART distribution, it should be drawn similarly to other maps for IART distribution.

  Ben Gregson (IAGWSPO) – indicated that the map was being produced at the request of the IART team. Differences in this map could be attributed to the Guard's sensitivity to the uniqueness of the Bourne investigation.

  Dave Williams (MDPH) – plume should probably only include wells with consistent detections.

  Leo Yuskus (Haley and Ward) – maximum concentrations for wells where the detections have been between 1 and 0.35 ppb should not be used. Averaged values seem more appropriate. The plume should be contoured with different intervals such as 1.5, 1, 0.5 and 0.35 ppb.
- The Guard to evaluate input and refine Bourne Perchlorate plume map.

**Scrap Contract Update**

John MacPherson (ACE) led a discussion on the scrap contract.

- Water that had collected on the pad and in the surrounding sumps had been sent for off-site disposal. It is assumed that this wastewater was of similar composition to other wastewater on the pad that had been previously collected in drums. Confirmatory sampling will be completed of water in sumps as the sumps collect water run-off from the pad, to ensure that the containment pad is clean.

- Desiree Moyer (EPA) reviewed the issue that had elicited EPA's concern regarding wastewater management practices at the scrap yard. Six or seven 55-gallon drums containing pad run-off had been staged at the containment pad. Analysis of the wastewater showed detections of 1,3,5-trinitrobenzene and 2,6-DNT. In a recent inspection of the scrap yard, the drums could not be located.
- Ms. Moyer noted as an additional concern that the sumps were observed not to be properly sealed off from pond water that had recently collected on the pad. It appeared that the sump water and ponded rainwater had been combined and disposed off-site.
- Mr. MacPherson indicated that USA Environmental (scrap contractor) had reported that the drums of this wastewater had been left opened and the water in the drums had been allowed to evaporate over a period of 3-4 weeks. This practice was not at the direction of the Corps, which had intended for the wastewater to be shipped off-site for disposal. Nor had the open containers been specifically inspected during the Corps routine inspections of the scrap yard. The drums had since been reused for containment of soil and were staged at the pad. It was not known if the drums were cleaned prior to reuse. Gina Tyo (ACE) indicated that in response to this activity, the Corps intended to pursue the following actions:
  - address improper management practice with contractor.
  - issue a Corrective Action Report.
  - prepare an Action Plan providing clear direction on how wastewater is to be handled (including description of proposed additional sump and pad water sampling).
  - transition to a Scrap contractor who has an environmental background.
- Ms. Moyer requested the following information as a follow-up:
  - waste profiles and waste manifests
  - descriptions of actions
  - Corrective Action Report
  - Action Plan to outline way forward
  - information on whether the former wastewater drums were cleaned prior to reuse
  - identification of individual/office responsible for inspection of waste satellite accumulation areas on base,
  - a proposal from the Corps for alternative scrap yard sites (preferably in the Central Impact Area target areas) and procedures
  - and a date by the next technical meeting when the alternative scrap yard sites and operation descriptions will be provided.

**Documents and Schedules**

Marc Grant (AMEC) reviewed document and schedule issues.
Dave Hill (IAGWSPO) indicated that the MOR for the J1/J3/L Ranges Additional Delineation Report would be revised and forwarded to the agencies.
Demo 1 Biota Field Sampling Workplan is the 1st priority for the Guard. MADEP comment to be forwarded by 9/13.
Small Arms Ranges Report – 2nd priority.
Demo 2 Additional Delineation Workplan – 3rd priority.
J1/J3/L Ranges Report request for extension was granted but required identification of a submittal date by 9/23.
Bourne Perchlorate Response Workplan – draft to be issued on 10/25.
J-2 Range Report – EPA requested that date for report be provided by 9/23.
MSP1 Report MOR – Corps to reissue MOR for EPA review.
Draft Final MSP2 ASP Report – Mr. Borci questioned text which stated that at the direction of EPA, ash contained in drum was returned to the excavation and backfilled. Drum was wrapped in plastic and staged. Ms. Iorio explained that the text was incorrect. The drum with ash was wrapped in plastic and staged at scrap yard. Ash had not been returned to excavation. Drum to

be identified on pad and explanation to be provided to EPA in writing. To be tracked as punchlist item.

## 2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and explosive and volatile organic compound (VOC) analyses for groundwater profile samples, are conducted in this timeframe, as well as any analyses pursuant to a special request. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 3 summarizes only detects, and does not show samples with non-detects.

The status of the explosive detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 3. PDA is a procedure that has been implemented for the explosive analysis, to reduce the likelihood of false positive identifications. Where the PDA status is "YES" in Table 3, the detected compound is verified as properly identified. Where the status is "NO", the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC or perchlorate. Most explosive detections verified by PDA are confirmed to be present upon completion of validation.

Table 3 includes detections from the following areas:

Bourne Wellfield

- Groundwater samples from supply well 4036000-06G had a detection of perchlorate. This is the first detection of perchlorate since March.

- Groundwater samples from Far Field wells MW-213M2, M3; MW-226M2 and duplicate; MW-80M2 and duplicate; and wells 97-2; 02-02M1, M2, S; and 02-13M2, M3 had detections of perchlorate. The results were similar to the previous sampling rounds.

- Ten groundwater samples and duplicate samples had detections of chloroform.

Central Impact Area and CS-19

- Groundwater samples from 58MW0020B and OW-1 had detections of explosives that were confirmed by PDA spectra. The results were similar to the previous sampling rounds. This is the first analysis with the explosives method 8330NX at OW-1.

Southeast of the Ranges

- Groundwater samples from MW-142M2 and duplicate, MW-143M2, MW-147M1, M2, MW-164M2 and duplicate had detections of explosives that were confirmed by PDA spectra. The results were similar to the previous sampling rounds.

- Groundwater samples from MW-143M1 had detections of RDX and HMX that were confirmed by PDA spectra. This is the first analysis with the explosives method 8330NX for this well and the first time HMX has been detected in samples.

- Groundwater samples from MW-228S had a detection of HMX. This is the first sampling event at this well. Profile samples were not collected at the corresponding interval, but HMX was detected in profile samples from deeper intervals.

- Profile samples from MW-237 (J3P-21) had detections of explosives, VOCs and perchlorate. 2,6-DNT was detected and confirmed by PDA spectra in three intervals between 7 and 29 feet below the water table. There were also two intervals each with detections of 2,6-DNT and nitrobenzene that were confirmed by PDA spectra but had interference. Perchlorate was detected in two intervals between 29 and 39 feet below the water table. Well screens for MW-237 were set at the water table to monitor groundwater directly upgradient of the J-3 Range detonation pit (-2-8 ft bwt) and at the interval of the perchlorate detections (29-39 ft bwt).

- Profile samples from MW-238 (LP-8) had detections of explosives and VOCs. 2,6-DNT was detected and confirmed by PDA spectra in three intervals between 33 and 73 feet below the water table. HMX was detected and confirmed by PDA spectra in one interval at 33 feet below the water table. Well screens for MW-238 were set at the interval of the HMX detection (27-37 ft bwt) and at the depth (85-95 ft bwt) corresponding to particle backtracks from downgradient wells MW-153 and MW-147.

## 3. DELIVERABLES SUBMITTED

| | |
|---|---|
| Monthly Progress Update for August 2002 | 09/09/2002 |
| Final IAGWSP Site-Wide Perchlorate Characterization Workplan | 09/10/2002 |
| Weekly Progress Update September 2 – September 6, 2002 | 09/13/2002 |

## 4. SCHEDULED ACTIONS

Scheduled actions for the week of September 16 include complete well installation of MW-233 (WS4P-2), MW-237 (J3P-21), and MW-238 (LP-8), and commence drilling of D1P-15, LP-5 and LP-6.

## 5. SUMMARY OF ACTIVITIES FOR DEMO 1

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

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



| OGDEN_ID | LOCID OR WELL ID | DATE SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|---|---|---|---|---|---|---|---|
| 58MW0018-E | FIELDQC | 09/12/2002 | FIELDQC | 0.00 | 0.00 | | |
| 90MW0005-E | FIELDQC | 09/13/2002 | FIELDQC | 0.00 | 0.00 | | |
| 90MW0070-E | FIELDQC | 09/09/2002 | FIELDQC | 0.00 | 0.00 | | |
| 90WT0003-E | FIELDQC | 09/11/2002 | FIELDQC | 0.00 | 0.00 | | |
| G237DAE | FIELDQC | 09/09/2002 | FIELDQC | 0.00 | 0.00 | | |
| G237DJE | FIELDQC | 09/10/2002 | FIELDQC | 0.00 | 0.00 | | |
| G237DKT | FIELDQC | 09/10/2002 | FIELDQC | 0.00 | 0.00 | | |
| G238DDE | FIELDQC | 09/11/2002 | FIELDQC | 0.00 | 0.00 | | |
| G238DDT | FIELDQC | 09/11/2002 | FIELDQC | 0.00 | 0.00 | | |
| G238DLT | FIELDQC | 09/12/2002 | FIELDQC | 0.00 | 0.00 | | |
| G238DPE | FIELDQC | 09/12/2002 | FIELDQC | 0.00 | 0.00 | | |
| W102M1E | FIELDQC | 09/11/2002 | FIELDQC | 0.00 | 0.00 | | |
| W108M3T | FIELDQC | 09/13/2002 | FIELDQC | 0.00 | 0.00 | | |
| W213M1T | FIELDQC | 09/09/2002 | FIELDQC | 0.00 | 0.00 | | |
| 11MW0001-A | 11MW0001 | 09/09/2002 | GROUNDWATER | | | | |
| 11MW0003-A | 11MW0003 | 09/09/2002 | GROUNDWATER | | | | |
| 11MW0004-A | 11MW0004 | 09/09/2002 | GROUNDWATER | | | | |
| 11MW0004-D | 11MW0004 | 09/09/2002 | GROUNDWATER | | | | |
| 4036000-01G | 4036000-01G | 09/10/2002 | GROUNDWATER | | | | |
| 4036000-01GD | 4036000-01G | 09/10/2002 | GROUNDWATER | | | | |
| 4036000-03G | 4036000-03G | 09/11/2002 | GROUNDWATER | | | | |
| 4036000-04G | 4036000-04G | 09/11/2002 | GROUNDWATER | | | | |
| 4036000-06G | 4036000-06G | 09/11/2002 | GROUNDWATER | | | | |
| 4261000-02G | 4261000-02G | 09/10/2002 | GROUNDWATER | | | | |
| 4261000-03G | 4261000-03G | 09/10/2002 | GROUNDWATER | | | | |
| 4261000-06G | 4261000-06G | 09/10/2002 | GROUNDWATER | | | | |
| 4261000-07G | 4261000-07G | 09/10/2002 | GROUNDWATER | | | | |
| 4261000-08G | 4261000-08G | 09/10/2002 | GROUNDWATER | | | | |
| 4261000-09G | 4261000-09G | 09/10/2002 | GROUNDWATER | | | | |
| 4261000-10G | 4261000-10G | 09/10/2002 | GROUNDWATER | | | | |
| 4261000-11G | 4261000-11G | 09/10/2002 | GROUNDWATER | | | | |
| 58MW0001-A | 58MW0001 | 09/13/2002 | GROUNDWATER | 121.80 | 126.80 | 0.91 | 5.91 |
| 58MW0002-A | 58MW0002 | 09/11/2002 | GROUNDWATER | 121.20 | 126.20 | 0.17 | 5.17 |
| 58MW0003-A | 58MW0003 | 09/13/2002 | GROUNDWATER | 119.00 | 124.00 | 0.00 | 10.00 |
| 58MW0018A-A | 58MW0018A | 09/12/2002 | GROUNDWATER | 202.70 | 211.70 | 57.13 | 66.13 |
| 58MW0018B-A | 58MW0018B | 09/12/2002 | GROUNDWATER | 175.90 | 185.58 | 30.62 | 40.30 |
| 58MW0018C-A | 58MW0018C | 09/12/2002 | GROUNDWATER | 149.92 | 159.60 | 4.97 | 14.65 |
| 90MP0060C-A | 90MP0060C | 09/11/2002 | GROUNDWATER | 126.52 | 129.02 | | |
| 90MP0060D-A | 90MP0060D | 09/12/2002 | GROUNDWATER | 102.02 | 104.52 | | |
| 90MW0003-A | 90MW0003 | 09/09/2002 | GROUNDWATER | 144.00 | 149.00 | 49.10 | 54.10 |
| 90MW0005-A | 90MW0005 | 09/13/2002 | GROUNDWATER | 184.00 | 189.00 | 89.03 | 94.03 |
| 90MW0005-D | 90MW0005 | 09/13/2002 | GROUNDWATER | 184.00 | 189.00 | 89.03 | 94.03 |
| 90MW0006-A | 90MW0006 | 09/11/2002 | GROUNDWATER | 129.00 | 134.00 | 47.47 | 52.47 |
| 90MW0054-A | 90MW0054 | 09/12/2002 | GROUNDWATER | 107.00 | 112.00 | 88.12 | 93.12 |

Profiling methods include: Volatiles, Explosives and Perchlorate
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

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

| OGDEN_ID | LOCID OR WELL ID | DATE SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|---|---|---|---|---|---|---|---|
| 90MW0070-A | 90MW0070 | 09/09/2002 | GROUNDWATER | 132.50 | 137.50 | 72.78 | 77.78 |
| 90MW0071-A | 90MW0071 | 09/09/2002 | GROUNDWATER | 150.00 | 155.00 | 76.49 | 81.49 |
| 90MW0080-A | 90MW0080 | 09/10/2002 | GROUNDWATER | 133.00 | 144.00 | 78.44 | 89.44 |
| 90WT0003-A | 90WT0003 | 09/10/2002 | GROUNDWATER | 87.50 | 97.50 | 0.00 | 0.00 |
| 90WT0004-A | 90WT0004 | 09/11/2002 | GROUNDWATER | 35.00 | 45.00 | 0.00 | 10.00 |
| 90WT0004-D | 90WT0004 | 09/11/2002 | GROUNDWATER | 35.00 | 45.00 | 0.00 | 10.00 |
| 90WT0019-A | 90WT0019 | 09/13/2002 | GROUNDWATER | | | | |
| 90WT0019-D | 90WT0019 | 09/13/2002 | GROUNDWATER | | | | |
| LKSNK0005AAA | LKSNK0005 | 09/11/2002 | SURFACEWATE | | | | |
| LKSNK0005AAD | LKSNK0005 | 09/11/2002 | SURFACEWATE | | | | |
| LKSNK0006AAA | LKSNK0006 | 09/11/2002 | SURFACEWATE | | | | |
| LKSNK0007AAA | LKSNK0007 | 09/11/2002 | SURFACEWATE | | | | |
| LRMW0003-A | LRMW0003 | 09/10/2002 | GROUNDWATER | | | | |
| LRWS1-4-A | LRWS1-4 | 09/10/2002 | GROUNDWATER | | | | |
| TW1-88AA | 1-88 | 09/11/2002 | GROUNDWATER | | | | |
| TW1-88AD | 1-88 | 09/11/2002 | GROUNDWATER | | | | |
| W02-12M1A | 02-12 | 09/11/2002 | GROUNDWATER | 109.00 | 119.00 | 58.35 | 68.35 |
| W02-12M2A | 02-12 | 09/11/2002 | GROUNDWATER | 94.00 | 105.00 | 43.21 | 53.21 |
| W02-12M3A | 02-12 | 09/11/2002 | GROUNDWATER | 79.00 | 89.00 | 28.22 | 38.22 |
| W02-13M1A | 02-13 | 09/11/2002 | GROUNDWATER | 98.00 | 108.00 | 58.33 | 68.33 |
| W02-13M2A | 02-13 | 09/11/2002 | GROUNDWATER | 83.00 | 93.00 | 44.20 | 54.20 |
| W02-13M2D | 02-13 | 09/11/2002 | GROUNDWATER | 83.00 | 93.00 | 44.20 | 54.20 |
| W02-13M3A | 02-13 | 09/11/2002 | GROUNDWATER | 68.00 | 78.00 | 28.30 | 38.30 |
| W02-15M2A | 02-15 | 09/09/2002 | GROUNDWATER | 101.00 | 111.00 | 51.50 | 61.50 |
| W02-15M3A | 02-15 | 09/09/2002 | GROUNDWATER | 81.00 | 91.00 | 31.40 | 41.40 |
| W100M1A | MW-100 | 09/10/2002 | GROUNDWATER | 179.00 | 189.00 | 45.00 | 55.00 |
| W100M2A | MW-100 | 09/10/2002 | GROUNDWATER | 164.00 | 174.00 | 30.00 | 40.00 |
| W102M1A | MW-102 | 09/11/2002 | GROUNDWATER | 267.00 | 277.00 | 123.00 | 133.00 |
| W102M2A | MW-102 | 09/12/2002 | GROUNDWATER | 237.00 | 247.00 | 93.00 | 103.00 |
| W102SSA | MW-102 | 09/12/2002 | GROUNDWATER | 145.00 | 155.00 | 1.00 | 11.00 |
| W104M1A | MW-104 | 09/11/2002 | GROUNDWATER | 155.00 | 165.00 | 37.00 | 47.00 |
| W104M2A | MW-104 | 09/12/2002 | GROUNDWATER | 237.00 | 247.00 | 17.00 | 27.00 |
| W104M2D | MW-104 | 09/12/2002 | GROUNDWATER | 237.00 | 247.00 | 17.00 | 27.00 |
| W107M1A | MW-107 | 09/12/2002 | GROUNDWATER | 155.00 | 165.00 | 35.00 | 45.00 |
| W107M2A | MW-107 | 09/12/2002 | GROUNDWATER | 125.00 | 135.00 | 5.00 | 15.00 |
| W108DDA | MW-108 | 09/13/2002 | GROUNDWATER | 317.00 | 327.00 | 153.00 | 163.00 |
| W108DDD | MW-108 | 09/13/2002 | GROUNDWATER | 317.00 | 327.00 | 153.00 | 163.00 |
| W108M3A | MW-108 | 09/13/2002 | GROUNDWATER | 262.00 | 272.00 | 98.00 | 108.00 |
| W108M4A | MW-108 | 09/13/2002 | GROUNDWATER | 240.00 | 250.00 | 76.00 | 86.00 |
| W115M1A | MW-115 | 09/12/2002 | GROUNDWATER | 138.00 | 148.00 | 22.00 | 32.00 |
| W115SSA | MW-115 | 09/11/2002 | GROUNDWATER | 116.00 | 126.00 | 0.00 | 10.00 |
| W136M1A | MW-136 | 09/13/2002 | GROUNDWATER | 124.00 | 134.00 | 17.00 | 27.00 |
| W136M1D | MW-136 | 09/13/2002 | GROUNDWATER | 124.00 | 134.00 | 17.00 | 27.00 |
| W136SSA | MW-136 | 09/13/2002 | GROUNDWATER | 107.00 | 117.00 | 0.00 | 10.00 |

Profiling methods include: Volatiles, Explosives and Perchlorate
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

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

| OGDEN_ID | LOCID OR WELL ID | DATE SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|---|---|---|---|---|---|---|---|
| W155M1A | MW-155 | 09/12/2002 | GROUNDWATER | 124.00 | 134.00 | 99.00 | 109.00 |
| W155M1D | MW-155 | 09/12/2002 | GROUNDWATER | 124.00 | 134.00 | 99.00 | 109.00 |
| W155M2A | MW-155 | 09/12/2002 | GROUNDWATER | 45.00 | 55.00 | 20.00 | 30.00 |
| W166M1A | MW-166 | 09/10/2002 | GROUNDWATER | 218.00 | 223.00 | 112.00 | 117.00 |
| W168M1A | MW-168 | 09/13/2002 | GROUNDWATER | 256.00 | 266.00 | 174.00 | 184.00 |
| W168M2A | MW-168 | 09/13/2002 | GROUNDWATER | 198.00 | 208.00 | 116.00 | 126.00 |
| W168M3A | MW-168 | 09/13/2002 | GROUNDWATER | 103.00 | 113.00 | 21.00 | 31.00 |
| W213M1A | MW-213 | 09/09/2002 | GROUNDWATER | 133.00 | 143.00 | 85.01 | 95.01 |
| W213M2A | MW-213 | 09/09/2002 | GROUNDWATER | 89.00 | 99.00 | 40.53 | 50.53 |
| W213M3A | MW-213 | 09/09/2002 | GROUNDWATER | 77.00 | 82.00 | 28.70 | 38.70 |
| W80DDA | MW-80 | 09/09/2002 | GROUNDWATER | 158.00 | 168.00 | 114.00 | 124.00 |
| W80M1A | MW-80 | 09/09/2002 | GROUNDWATER | 130.00 | 140.00 | 86.00 | 96.00 |
| W80M2A | MW-80 | 09/10/2002 | GROUNDWATER | 110.00 | 110.00 | 56.00 | 66.00 |
| W80M2D | MW-80 | 09/10/2002 | GROUNDWATER | 110.00 | 110.00 | 56.00 | 66.00 |
| W80M3A | MW-80 | 09/10/2002 | GROUNDWATER | 70.00 | 80.00 | 26.00 | 36.00 |
| W85M1A | MW-85 | 09/12/2002 | GROUNDWATER | 137.50 | 147.50 | 22.00 | 32.00 |
| W90M1A | MW-90 | 09/12/2002 | GROUNDWATER | 145.00 | 155.00 | 27.00 | 37.00 |
| W90SSA | MW-90 | 09/12/2002 | GROUNDWATER | 118.00 | 128.00 | 0.00 | 10.00 |
| XXM971-A | 97-1 | 09/09/2002 | GROUNDWATER | 83.00 | 93.00 | 59.95 | 69.95 |
| XXM972-A | 97-2 | 09/09/2002 | GROUNDWATER | 75.00 | 85.00 | 50.66 | 60.66 |
| DW091002-NV | GAC WATER | 09/10/2002 | IDW | | | | |
| DW091202-NV | GAC WATER | 09/12/2002 | IDW | | | | |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 130.00 | 130.00 | 79.00 | 79.00 |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 |
| G237DKA | MW-237 | 09/10/2002 | PROFILE | 150.00 | 150.00 | 99.00 | 99.00 |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 |
| G237DNA | MW-237 | 09/10/2002 | PROFILE | 180.00 | 180.00 | 129.00 | 129.00 |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 |
| G237DPA | MW-237 | 09/10/2002 | PROFILE | 200.00 | 200.00 | 149.00 | 149.00 |
| G237DQA | MW-237 | 09/10/2002 | PROFILE | 210.00 | 210.00 | 159.00 | 159.00 |
| G238DAA | MW-238 | 09/11/2002 | PROFILE | 105.00 | 105.00 | 7.50 | 7.50 |
| G238DBA | MW-238 | 09/11/2002 | PROFILE | 110.00 | 110.00 | 12.50 | 12.50 |
| G238DCA | MW-238 | 09/11/2002 | PROFILE | 120.00 | 120.00 | 22.50 | 22.50 |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 |

Profiling methods include: Volatiles, Explosives and Perchlorate
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

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

| OGDEN_ID | LOCID OR WELL ID | DATE SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|---|---|---|---|---|---|---|---|
| G238DEA | MW-238 | 09/11/2002 | PROFILE | 140.00 | 140.00 | 42.50 | 42.50 |
| G238DFA | MW-238 | 09/11/2002 | PROFILE | 150.00 | 150.00 | 52.50 | 52.50 |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 |
| G238DIA | MW-238 | 09/12/2002 | PROFILE | 180.00 | 180.00 | 82.50 | 82.50 |
| G238DJA | MW-238 | 09/12/2002 | PROFILE | 190.00 | 190.00 | 92.50 | 92.50 |
| G238DKA | MW-238 | 09/12/2002 | PROFILE | 200.00 | 200.00 | 102.50 | 102.50 |
| G238DLA | MW-238 | 09/12/2002 | PROFILE | 210.00 | 210.00 | 112.50 | 112.50 |
| G238DLD | MW-238 | 09/12/2002 | PROFILE | 210.00 | 210.00 | 112.50 | 112.50 |
| G238DMA | MW-238 | 09/12/2002 | PROFILE | 220.00 | 220.00 | 122.50 | 122.50 |
| G238DNA | MW-238 | 09/12/2002 | PROFILE | 230.00 | 230.00 | 132.50 | 132.50 |
| G238DOA | MW-238 | 09/12/2002 | PROFILE | 240.00 | 240.00 | 142.50 | 142.50 |
| G238DPA | MW-238 | 09/12/2002 | PROFILE | 250.00 | 250.00 | 152.50 | 152.50 |
| G238DQA | MW-238 | 09/12/2002 | PROFILE | 260.00 | 260.00 | 162.50 | 162.50 |
| HDA08290202AA | A08290202 | 09/13/2002 | CRATER GRAB | 0.00 | 0.25 | | |
| J2.F.T2D.XC1.1.0 | J2 Target 2D Excavati | 09/12/2002 | SOIL GRID | 0.00 | 7.00 | | |
| J2.F.T2D.XC1.1.D | J2 Target 2D Excavati | 09/12/2002 | SOIL GRID | 0.00 | 7.00 | | |
| J2.F.T2D.XC1.2.0 | J2 Target 2D Excavati | 09/12/2002 | SOIL GRID | 7.00 | 7.17 | | |
| J2.F.T2D.XC1.3.0 | J2 Target 2D Excavati | 09/12/2002 | SOIL GRID | 2.25 | 2.50 | | |
| J2.M.T2D.XC1.1.0 | J2 Target 2D Excavati | 09/12/2002 | OTHER | | | | |
| NR.F.T12.XC1.1.0 | N Range Target 12 Ex | 09/11/2002 | SOIL GRID | 0.00 | 2.67 | | |
| NR.F.T12.XC1.2.0 | N Range Target 12 Ex | 09/11/2002 | SOIL GRID | 2.50 | 2.67 | | |
| NR.F.T13.XC1.2.0 | N Range Target 13 Ex | 09/12/2002 | SOIL GRID | 0.50 | 0.67 | | |
| NR.F.T3.XC1.1.0 | N Range Target 3 Exc | 09/11/2002 | SOIL GRID | 0.00 | 3.00 | | |
| NR.F.T3.XC1.2.0 | N Range Target 3 Exc | 09/11/2002 | SOIL GRID | 2.83 | 3.00 | | |
| NR.F.T6.XC1.1.0 | N Range Target 6 Exc | 09/10/2002 | SOIL GRID | 0.00 | 2.17 | | |
| NR.F.T6.XC1.2.0 | N Range Target 6 Exc | 09/10/2002 | SOIL GRID | 2.00 | 2.10 | | |
| NR.F.T7.XC1.1.0 | N Range Target 7 Exc | 09/10/2002 | SOIL GRID | 0.00 | 2.17 | | |
| NR.F.T7.XC1.1.D | N Range Target 7 Exc | 09/10/2002 | SOIL GRID | 0.00 | 3.17 | | |
| NR.F.T7.XC1.2.0 | N Range Target 7 Exc | 09/10/2002 | SOIL GRID | 3.00 | 3.17 | | |

Profiling methods include: Volatiles, Explosives and Perchlorate
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| 4036000-06G | 4036000-06G | 08/28/2002 | GROUNDWATEF | | | | | E314.0 | PERCHLORATE | |
| 58MW0020B-A | 58MW0020B | 09/03/2002 | GROUNDWATEF | | | | | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| OW-1-A | OW-1 | 09/04/2002 | GROUNDWATEF | 126.00 | 136.00 | 0.00 | 10.00 | 8330NX | 2-AMINO-4,6-DINITROTOLUENE | YES |
| OW-1-A | OW-1 | 09/04/2002 | GROUNDWATEF | 126.00 | 136.00 | 0.00 | 10.00 | 8330NX | 4-AMINO-2,6-DINITROTOLUENE | YES |
| OW-1-A | OW-1 | 09/04/2002 | GROUNDWATEF | 126.00 | 136.00 | 0.00 | 10.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| OW-1-A | OW-1 | 09/04/2002 | GROUNDWATEF | 126.00 | 136.00 | 0.00 | 10.00 | 8330NX | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W02-02M1A | 02-02 | 09/07/2002 | GROUNDWATEF | 114.50 | 124.50 | 63.50 | 73.50 | E314.0 | PERCHLORATE | |
| W02-02M2A | 02-02 | 09/07/2002 | GROUNDWATEF | 94.50 | 104.50 | 42.65 | 52.65 | E314.0 | PERCHLORATE | |
| W02-02SSA | 02-02 | 09/07/2002 | GROUNDWATEF | 49.50 | 59.50 | 0.00 | 10.00 | E314.0 | PERCHLORATE | |
| W02-13M2A | 02-13 | 09/04/2002 | GROUNDWATEF | 83.00 | 93.00 | 44.20 | 54.20 | E314.0 | PERCHLORATE | |
| W02-13M3A | 02-13 | 09/04/2002 | GROUNDWATEF | 68.00 | 78.00 | 28.30 | 38.30 | E314.0 | PERCHLORATE | |
| W02-15M1A | 02-15 | 09/07/2002 | GROUNDWATEF | 125.00 | 135.00 | 75.63 | 85.63 | OC21V | CHLOROFORM | |
| W02-15M2A | 02-15 | 09/09/2002 | GROUNDWATEF | 101.00 | 111.00 | 51.50 | 61.50 | OC21V | CHLOROFORM | |
| W02-15M3A | 02-15 | 09/09/2002 | GROUNDWATEF | 81.00 | 91.00 | 31.40 | 41.40 | OC21V | CHLOROFORM | |
| W142M2A | MW-142 | 09/03/2002 | GROUNDWATEF | 140.00 | 150.00 | 100.00 | 110.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W142M2D | MW-142 | 09/03/2002 | GROUNDWATEF | 140.00 | 150.00 | 100.00 | 110.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W143M1A | MW-143 | 09/03/2002 | GROUNDWATEF | 144.00 | 154.00 | 114.00 | 124.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W143M1A | MW-143 | 09/03/2002 | GROUNDWATEF | 144.00 | 154.00 | 114.00 | 124.00 | 8330NX | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W143M2A | MW-143 | 09/03/2002 | GROUNDWATEF | 117.00 | 122.00 | 87.00 | 92.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W143M2A | MW-143 | 09/03/2002 | GROUNDWATEF | 117.00 | 122.00 | 87.00 | 92.00 | 8330NX | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W147M1A | MW-147 | 09/05/2002 | GROUNDWATEF | 166.00 | 176.00 | 94.00 | 104.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W147M1A | MW-147 | 09/05/2002 | GROUNDWATEF | 166.00 | 176.00 | 94.00 | 104.00 | 8330NX | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W147M2A | MW-147 | 09/05/2002 | GROUNDWATEF | 150.00 | 160.00 | 70.87 | 80.87 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W147M2A | MW-147 | 09/05/2002 | GROUNDWATEF | 150.00 | 160.00 | 70.87 | 80.87 | 8330NX | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W164M2A | MW-164 | 09/05/2002 | GROUNDWATEF | 157.00 | 167.00 | 119.00 | 129.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W164M2A | MW-164 | 09/05/2002 | GROUNDWATEF | 157.00 | 167.00 | 119.00 | 129.00 | 8330NX | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W164M2D | MW-164 | 09/05/2002 | GROUNDWATEF | 157.00 | 167.00 | 119.00 | 129.00 | 8330NX | HEXAHYDRO-1,3,5-TRINITRO-1, | YES |
| W164M2D | MW-164 | 09/05/2002 | GROUNDWATEF | 157.00 | 167.00 | 119.00 | 129.00 | 8330NX | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W213M1A | MW-213 | 09/09/2002 | GROUNDWATEF | 133.00 | 143.00 | 85.01 | 95.01 | OC21V | CHLOROFORM | |
| W213M2A | MW-213 | 09/09/2002 | GROUNDWATEF | 89.00 | 99.00 | 40.53 | 50.53 | E314.0 | PERCHLORATE | |
| W213M2A | MW-213 | 09/09/2002 | GROUNDWATEF | 89.00 | 99.00 | 40.53 | 50.53 | OC21V | CHLOROFORM | |
| W213M3A | MW-213 | 09/09/2002 | GROUNDWATEF | 77.00 | 82.00 | 28.70 | 38.70 | E314.0 | PERCHLORATE | |

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PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed
* = Interference in sample

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| W213M3A | MW-213 | 09/09/2002 | GROUNDWATEF | 77.00 | 82.00 | 28.70 | 38.70 | OC21V | CHLOROFORM | |
| W226M1A | MW-226 | 09/07/2002 | GROUNDWATEF | 285.00 | 295.00 | 0.00 | 7.73 | OC21V | CHLOROFORM | |
| W226M2A | MW-226 | 09/07/2002 | GROUNDWATEF | 175.00 | 185.00 | 61.70 | 71.70 | E314.0 | PERCHLORATE | |
| W226M2A | MW-226 | 09/07/2002 | GROUNDWATEF | 175.00 | 185.00 | 61.70 | 71.70 | OC21V | CHLOROFORM | |
| W226M2D | MW-226 | 09/07/2002 | GROUNDWATEF | 175.00 | 185.00 | 61.70 | 71.70 | E314.0 | PERCHLORATE | |
| W226M2D | MW-226 | 09/07/2002 | GROUNDWATEF | 175.00 | 185.00 | 61.70 | 71.70 | OC21V | CHLOROFORM | |
| W226M3A | MW-226 | 09/07/2002 | GROUNDWATEF | 135.00 | 145.00 | 21.53 | 31.53 | OC21V | CHLOROFORM | |
| W228SSA | MW-228 | 09/05/2002 | GROUNDWATEF | 104.00 | 114.00 | 0.00 | 10.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| W80M2A | MW-80 | 09/10/2002 | GROUNDWATEF | 110.00 | 110.00 | 56.00 | 66.00 | E314.0 | PERCHLORATE | |
| W80M2D | MW-80 | 09/10/2002 | GROUNDWATEF | 110.00 | 110.00 | 56.00 | 66.00 | E314.0 | PERCHLORATE | |
| XXM972-A | 97-2 | 09/09/2002 | GROUNDWATEF | 75.00 | 85.00 | 50.66 | 60.66 | E314.0 | PERCHLORATE | |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | 2,4,6-TRINITROTOLUENE | NO |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | 2,6-DINITROTOLUENE | YES |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | 3-NITROTOLUENE | NO* |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | 4-NITROTOLUENE | NO |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | NITROBENZENE | NO |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | NITROGLYCERIN | NO |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | 8330N | PICRIC ACID | NO |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | OC21V | 2-HEXANONE | |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | OC21V | ACETONE | |
| G237DAA | MW-237 | 09/09/2002 | PROFILE | 58.00 | 58.00 | 7.00 | 7.00 | OC21V | CHLOROFORM | |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | 8330N | 2,4,6-TRINITROTOLUENE | NO |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | 8330N | 2,6-DINITROTOLUENE | YES* |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | 8330N | NITROBENZENE | NO |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | 8330N | NITROGLYCERIN | NO |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | 8330N | PICRIC ACID | NO |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | OC21V | 2-HEXANONE | |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | OC21V | ACETONE | |
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | OC21V | METHYL ETHYL KETONE (2-BUT | |

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SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed
* = Interference in sample

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G237DBA | MW-237 | 09/09/2002 | PROFILE | 60.00 | 60.00 | 9.00 | 9.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2,4,6-TRINITROTOLUENE | NO |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2,6-DINITROTOLUENE | YES* |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2-NITROTOLUENE | NO |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 4-NITROTOLUENE | NO |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | NITROBENZENE | NO |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | NITROGLYCERIN | NO |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | PICRIC ACID | NO |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | 2-HEXANONE | |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | ACETONE | |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | METHYL ETHYL KETONE (2-BUT | |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | TOLUENE | |
| G237DCA | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | XYLENES, TOTAL | |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2,4,6-TRINITROTOLUENE | NO |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2,6-DINITROTOLUENE | YES |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 2-NITROTOLUENE | NO |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | 4-NITROTOLUENE | NO |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | NITROBENZENE | YES* |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | NITROGLYCERIN | NO |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | 8330N | PICRIC ACID | NO |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | 2-HEXANONE | |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | ACETONE | |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | METHYL ETHYL KETONE (2-BUT | |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | TOLUENE | |
| G237DCD | MW-237 | 09/09/2002 | PROFILE | 70.00 | 70.00 | 19.00 | 19.00 | OC21V | XYLENES, TOTAL | |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | 2,4,6-TRINITROTOLUENE | NO |

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TABLE 3
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SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | 2,6-DINITROTOLUENE | YES |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | 2-NITROTOLUENE | NO |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | 4-NITROTOLUENE | NO |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | NITROBENZENE | YES* |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | NITROGLYCERIN | NO |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | 8330N | PICRIC ACID | NO |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | E314.0 | PERCHLORATE | |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | OC21V | 2-HEXANONE | |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | OC21V | ACETONE | |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | OC21V | BENZENE | |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DDA | MW-237 | 09/09/2002 | PROFILE | 80.00 | 80.00 | 29.00 | 29.00 | OC21V | TOLUENE | |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | 8330N | NITROGLYCERIN | NO |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | 8330N | PICRIC ACID | NO |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | E314.0 | PERCHLORATE | |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | OC21V | 2-HEXANONE | |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | OC21V | ACETONE | |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DEA | MW-237 | 09/09/2002 | PROFILE | 90.00 | 90.00 | 39.00 | 39.00 | OC21V | TOLUENE | |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | 8330N | NITROGLYCERIN | NO |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | 8330N | PICRIC ACID | NO |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | 2-HEXANONE | |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | ACETONE | |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | BENZENE | |

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SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | CHLOROFORM | |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | TOLUENE | |
| G237DFA | MW-237 | 09/09/2002 | PROFILE | 100.00 | 100.00 | 49.00 | 49.00 | OC21V | XYLENES, TOTAL | |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | 8330N | NITROGLYCERIN | NO |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | 8330N | PICRIC ACID | NO |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | OC21V | 2-HEXANONE | |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | OC21V | ACETONE | |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | OC21V | CHLOROETHANE | |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DGA | MW-237 | 09/09/2002 | PROFILE | 110.00 | 110.00 | 59.00 | 59.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | 8330N | NITROGLYCERIN | NO |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | 8330N | PICRIC ACID | NO |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | OC21V | 2-HEXANONE | |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | OC21V | ACETONE | |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | OC21V | CHLOROETHANE | |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | OC21V | CHLOROFORM | |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DHA | MW-237 | 09/09/2002 | PROFILE | 120.00 | 120.00 | 69.00 | 69.00 | OC21V | TOLUENE | |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | 8330N | NITROGLYCERIN | NO |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | 8330N | PICRIC ACID | NO |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | OC21V | 2-HEXANONE | |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | OC21V | ACETONE | |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | OC21V | CHLOROFORM | |
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | OC21V | METHYL ETHYL KETONE (2-BU | |

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G237DIA | MW-237 | 09/09/2002 | PROFILE | 13.00 | 130.00 | 79.00 | 79.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | 8330N | NITROGLYCERIN | NO |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | 8330N | PICRIC ACID | NO |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | OC21V | 2-HEXANONE | |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | OC21V | ACETONE | |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | OC21V | CARBON DISULFIDE | |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | OC21V | CHLOROFORM | |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DJA | MW-237 | 09/10/2002 | PROFILE | 140.00 | 140.00 | 89.00 | 89.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DKA | MW-237 | 09/10/2002 | PROFILE | 150.00 | 150.00 | 99.00 | 99.00 | 8330N | NITROGLYCERIN | NO |
| G237DKA | MW-237 | 09/10/2002 | PROFILE | 150.00 | 150.00 | 99.00 | 99.00 | OC21V | 2-HEXANONE | |
| G237DKA | MW-237 | 09/10/2002 | PROFILE | 150.00 | 150.00 | 99.00 | 99.00 | OC21V | ACETONE | |
| G237DKA | MW-237 | 09/10/2002 | PROFILE | 150.00 | 150.00 | 99.00 | 99.00 | OC21V | CHLOROFORM | |
| G237DKA | MW-237 | 09/10/2002 | PROFILE | 150.00 | 150.00 | 99.00 | 99.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | 8330N | 2-NITROTOLUENE | NO |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | 8330N | 4-AMINO-2,6-DINITROTOLUENE | NO |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | 8330N | NITROGLYCERIN | NO |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | 8330N | PICRIC ACID | NO |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | OC21V | 2-HEXANONE | |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | OC21V | ACETONE | |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | OC21V | CARBON DISULFIDE | |
| G237DLA | MW-237 | 09/10/2002 | PROFILE | 160.00 | 160.00 | 109.00 | 109.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | 8330N | 4-NITROTOLUENE | NO |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | 8330N | NITROGLYCERIN | NO |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | 8330N | PICRIC ACID | NO |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | OC21V | 1,1,2-TRICHLOROETHANE | |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | OC21V | 2-HEXANONE | |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | OC21V | ACETONE | |
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | OC21V | METHYL ETHYL KETONE (2-BU | |

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* = Interference in sample

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SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G237DMA | MW-237 | 09/10/2002 | PROFILE | 170.00 | 170.00 | 119.00 | 119.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DNA | MW-237 | 09/10/2002 | PROFILE | 180.00 | 180.00 | 129.00 | 129.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DNA | MW-237 | 09/10/2002 | PROFILE | 180.00 | 180.00 | 129.00 | 129.00 | 8330N | NITROGLYCERIN | NO |
| G237DNA | MW-237 | 09/10/2002 | PROFILE | 180.00 | 180.00 | 129.00 | 129.00 | 8330N | PICRIC ACID | NO |
| G237DNA | MW-237 | 09/10/2002 | PROFILE | 180.00 | 180.00 | 129.00 | 129.00 | OC21V | ACETONE | |
| G237DNA | MW-237 | 09/10/2002 | PROFILE | 180.00 | 180.00 | 129.00 | 129.00 | OC21V | CHLOROFORM | |
| G237DNA | MW-237 | 09/10/2002 | PROFILE | 180.00 | 180.00 | 129.00 | 129.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | NO* |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | 8330N | NITROGLYCERIN | NO |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | 8330N | PICRIC ACID | NO |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | OC21V | 2-HEXANONE | |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | OC21V | ACETONE | |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | OC21V | CHLOROFORM | |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DOA | MW-237 | 09/10/2002 | PROFILE | 190.00 | 190.00 | 139.00 | 139.00 | OC21V | METHYL ISOBUTYL KETONE (4- | |
| G237DPA | MW-237 | 09/10/2002 | PROFILE | 200.00 | 200.00 | 149.00 | 149.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |
| G237DPA | MW-237 | 09/10/2002 | PROFILE | 200.00 | 200.00 | 149.00 | 149.00 | 8330N | NITROGLYCERIN | NO |
| G237DPA | MW-237 | 09/10/2002 | PROFILE | 200.00 | 200.00 | 149.00 | 149.00 | OC21V | 2-HEXANONE | |
| G237DPA | MW-237 | 09/10/2002 | PROFILE | 200.00 | 200.00 | 149.00 | 149.00 | OC21V | ACETONE | |
| G237DPA | MW-237 | 09/10/2002 | PROFILE | 200.00 | 200.00 | 149.00 | 149.00 | OC21V | CHLOROFORM | |
| G237DPA | MW-237 | 09/10/2002 | PROFILE | 200.00 | 200.00 | 149.00 | 149.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G237DQA | MW-237 | 09/10/2002 | PROFILE | 210.00 | 210.00 | 159.00 | 159.00 | OC21V | ACETONE | |
| G237DQA | MW-237 | 09/10/2002 | PROFILE | 210.00 | 210.00 | 159.00 | 159.00 | OC21V | CHLOROFORM | |
| G237DQA | MW-237 | 09/10/2002 | PROFILE | 210.00 | 210.00 | 159.00 | 159.00 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G238DAA | MW-238 | 09/11/2002 | PROFILE | 105.00 | 105.00 | 7.50 | 7.50 | 8330N | 2,6-DINITROTOLUENE | NO* |
| G238DAA | MW-238 | 09/11/2002 | PROFILE | 105.00 | 105.00 | 7.50 | 7.50 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G238DAA | MW-238 | 09/11/2002 | PROFILE | 105.00 | 105.00 | 7.50 | 7.50 | 8330N | 4-AMINO-2,6-DINITROTOLUENE | NO |
| G238DAA | MW-238 | 09/11/2002 | PROFILE | 105.00 | 105.00 | 7.50 | 7.50 | 8330N | NITROGLYCERIN | NO |
| G238DAA | MW-238 | 09/11/2002 | PROFILE | 105.00 | 105.00 | 7.50 | 7.50 | OC21V | ACETONE | |
| G238DAA | MW-238 | 09/11/2002 | PROFILE | 105.00 | 105.00 | 7.50 | 7.50 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G238DBA | MW-238 | 09/11/2002 | PROFILE | 110.00 | 110.00 | 12.50 | 12.50 | 8330N | NITROGLYCERIN | NO |

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| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G238DBA | MW-238 | 09/11/2002 | PROFILE | 110.00 | 110.00 | 12.50 | 12.50 | OC21V | ACETONE | |
| G238DBA | MW-238 | 09/11/2002 | PROFILE | 110.00 | 110.00 | 12.50 | 12.50 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G238DCA | MW-238 | 09/11/2002 | PROFILE | 120.00 | 120.00 | 22.50 | 22.50 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G238DCA | MW-238 | 09/11/2002 | PROFILE | 120.00 | 120.00 | 22.50 | 22.50 | 8330N | 1,3-DINITROBENZENE | NO |
| G238DCA | MW-238 | 09/11/2002 | PROFILE | 120.00 | 120.00 | 22.50 | 22.50 | 8330N | 2,6-DINITROTOLUENE | NO* |
| G238DCA | MW-238 | 09/11/2002 | PROFILE | 120.00 | 120.00 | 22.50 | 22.50 | 8330N | NITROGLYCERIN | NO |
| G238DCA | MW-238 | 09/11/2002 | PROFILE | 120.00 | 120.00 | 22.50 | 22.50 | OC21V | ACETONE | |
| G238DCA | MW-238 | 09/11/2002 | PROFILE | 120.00 | 120.00 | 22.50 | 22.50 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 | 8330N | 1,3-DINITROBENZENE | NO |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 | 8330N | 2,6-DINITROTOLUENE | YES |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 | 8330N | NITROGLYCERIN | NO |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 | 8330N | OCTAHYDRO-1,3,5,7-TETRANIT | YES |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 | OC21V | ACETONE | |
| G238DDA | MW-238 | 09/11/2002 | PROFILE | 130.00 | 130.00 | 32.50 | 32.50 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G238DFA | MW-238 | 09/11/2002 | PROFILE | 150.00 | 150.00 | 52.50 | 52.50 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | NO* |
| G238DFA | MW-238 | 09/11/2002 | PROFILE | 150.00 | 150.00 | 52.50 | 52.50 | 8330N | 2,6-DINITROTOLUENE | YES |
| G238DFA | MW-238 | 09/11/2002 | PROFILE | 150.00 | 150.00 | 52.50 | 52.50 | 8330N | NITROGLYCERIN | NO |
| G238DFA | MW-238 | 09/11/2002 | PROFILE | 150.00 | 150.00 | 52.50 | 52.50 | OC21V | ACETONE | |
| G238DFA | MW-238 | 09/11/2002 | PROFILE | 150.00 | 150.00 | 52.50 | 52.50 | OC21V | CARBON DISULFIDE | |
| G238DFA | MW-238 | 09/11/2002 | PROFILE | 150.00 | 150.00 | 52.50 | 52.50 | OC21V | METHYL ETHYL KETONE (2-BU | |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 1,3,5-TRINITROBENZENE | |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 1,3-DINITROBENZENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 2,4-DINITROTOLUENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 2,6-DINITROTOLUENE | YES |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 2-AMINO-4,6-DINITROTOLUENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 2-NITROTOLUENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 3-NITROTOLUENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 4-AMINO-2,6-DINITROTOLUENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | 4-NITROTOLUENE | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1, | NO* |

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SAMPLES COLLECTED 08/23/02 - 09/13/02



| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | NITROGLYCERIN | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | PENTAERYTHRITOL TETRANITI | NO |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | 8330N | PICRIC ACID | |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | OC21V | ACETONE | |
| G238DHA | MW-238 | 09/11/2002 | PROFILE | 170.00 | 170.00 | 72.50 | 72.50 | OC21V | METHYL ETHYL KETONE (2-BUT | |
| G238DJA | MW-238 | 09/12/2002 | PROFILE | 190.00 | 190.00 | 92.50 | 92.50 | OC21V | ACETONE | |
| G238DJA | MW-238 | 09/12/2002 | PROFILE | 190.00 | 190.00 | 92.50 | 92.50 | OC21V | CHLOROFORM | |
| G238DKA | MW-238 | 09/12/2002 | PROFILE | 200.00 | 200.00 | 102.50 | 102.50 | OC21V | CHLOROFORM | |
| G238DLA | MW-238 | 09/12/2002 | PROFILE | 210.00 | 210.00 | 112.50 | 112.50 | OC21V | CHLOROFORM | |
| G238DLD | MW-238 | 09/12/2002 | PROFILE | 210.00 | 210.00 | 112.50 | 112.50 | OC21V | CHLOROFORM | |
| G238DMA | MW-238 | 09/12/2002 | PROFILE | 220.00 | 220.00 | 122.50 | 122.50 | OC21V | CHLOROFORM | |
| G238DNA | MW-238 | 09/12/2002 | PROFILE | 230.00 | 230.00 | 132.50 | 132.50 | OC21V | CHLOROFORM | |
| G238DOA | MW-238 | 09/12/2002 | PROFILE | 240.00 | 240.00 | 142.50 | 142.50 | 8330N | NITROGLYCERIN | NO |
| G238DOA | MW-238 | 09/12/2002 | PROFILE | 240.00 | 240.00 | 142.50 | 142.50 | OC21V | CHLOROFORM | |
| G238DPA | MW-238 | 09/12/2002 | PROFILE | 250.00 | 250.00 | 152.50 | 152.50 | OC21V | CHLOROFORM | |
| G238DQA | MW-238 | 09/12/2002 | PROFILE | 260.00 | 260.00 | 162.50 | 162.50 | OC21V | CHLOROFORM | |

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SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
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BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
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PDA/NO = Photo Diode Array, Detect Not Confirmed
* = Interference in sample