MONTHLY PROGRESS REPORT #58
FOR JANUARY 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 January 1 to January 31, 2002. Scheduled actions are for the six-week period ending March 15, 2002.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress for the month of January is summarized in Table 1.

Table 1. Drilling progress for January 2002

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-188S	J-1 Range Well (J1P-13)	120	7	109-119
MW-193	J-3 Range Well (J3P-12)	85	51	31-36, 57-62
MW-194	J-3 Range Well (J3P-13)	90	33	85-90
MW-195	J-3 Range Well (J3P-14)	120	85	34-39
MW-196	J-3 Range Well (J3P-15)	140	107	32-37, 45-50
MW-197	J-3 Range Well (J3P-11)	165	145	60-65, 80-85, 120-125
MW-198	J-3 Range Well (J3P-16)	155	135	70-75, 100-105, 120-125, 150-155
MW-200	Central Impact Area Well (CIAP-8)	330	130	255-265, 294-304
MW-201	Central Impact Area Well (CIAP-10)	400	204	266-276, 286-296, 306-316
MW-202	Central Impact Area Well (CIAP-15)	150	6	

bgs = below ground surface
bwt = below water table

Completed drilling and well installation of MW-188S (J1P-13), MW-193 (J3P-12), MW-194 (J3P-13), MW-195 (J3P-14), MW-196 (J3P-15), MW-197 (J3P-11), MW-198 (J3P-16), MW-200 (CIAP-8), and MW-201 (CIAP-10). Commenced drilling of MW-202 (CIAP-15). 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-194, MW-200, and MW-201. The December Long Term Groundwater Monitoring round for IAGWSP wells and the January quarter Long Term Groundwater Monitoring round for area water supply wells were completed. Sampling of preliminary rounds for recently installed Central Impact Area, Southeast Corner of the Ranges, Phase IIb and Demo Area 1 wells continued. Water samples were collected form the GAC treatment system. Surface water samples were collected above a diffusion sampling point in Snake Pond.

Soil samples were collected from polygons in the J-2 Range and the J-3 Range. Post-excavation soil samples from BIP crater excavations were collected in J-1 Range, J-3 Range, the Gravity Range, at Target 9 and in the Central Impact Area.

As part of the Munitions Survey project, pre-detonation and post-detonation soil samples were collected from the J-2 Range and Transects 2, 4 and 5 in the HUTA2. Soil samples were collected from Target areas along Transects 1, 2, 3, 4 and 5. Soil samples were collected from polygons in the J-2 Range. Soil samples were also collected from blowholes in Transects 1 and 4. Wipe, soil and soil brushing samples were collected from UXO in Transect 2. A wipe sample was collected from the inside of an electron tube found in Training Area BA-1.

The Guard, EPA, and MADEP had a meeting on January 3 to discuss technical issues, including the following:

Punchlist Items

#2 Access 90PZ208 (MADEP). Mark Panni (DEP) attempted to contact homeowner, however phone number is not listed. Mr. Panni seeking information on obtaining a notice of responsibility to obtain property access.
#3 Provide comments on PCN and MDL sampling approach (EPA). EPA to provide comment week of 1/10.
#5 Provide recommendation on how to handle remaining lifts for 1200 CY soil (Corps). Corps is evaluating options; this issue will not be resolved in the short term. In the interim, the three soil stockpiles are being/will be maintained.
#9 Provide soil results from ASP (Corps). Results emailed 12/17.
#13 Provide update on interview schedule for Witness #19 (IAGWSPO). Private investigator has attempted to contact Witness #19's attorney. Waiting on a response.
#15 Provide additional comments on MW-181 profile sample RAD analyses (EPA). Agenda item.
#16 Provide comments on AirMag Workplan (EPA/DEP). EPA to provide comments next week. DEP may not comment; Mark Panni to let Darrell Deleppo know,
#17 Provide comments on Dec 10 Letter outlining protocol for use of SIM Method (EPA/DEP). EPA indicated that the approach is OK, but clearer documentation of process to use method is needed. Comments to be provided in letter next week.
#18 Provide comments on Dec 17 LTM Plan (EPA/DEP). Comments received from EPA; agenda item to discuss.
#19 Provide comments on December 10 Letter regarding Perchlorate sampling (EPA/DEP). EPA has no comment on proposal. Written response will be provided next week.
#20 Provide proposal to discontinue surface water testing of Snake Pond (AMEC). Proposal emailed 01/02. Last sampling 12/17/01.
#21 Provide F&T Study Report by the University of Texas (Corps). Report is under review. UT is revising. Goal is to have report finalized to distribute at January IART meeting.
#22 Provide ASR witness summaries (Corps). Summaries to be provided by next week for review by EPA/DEP/Guard.

Munitions Survey Project Update

Rob Foti (Corps) provided an update on the MSP3 and HUTA tasks.
HUTA2. Transect 1 - All initial work is completed. Intrusive investigation of EM61 picks is being finished up. QA survey, sampling of targets, and transect restoration is coming up. Site visit with Karen Wilson (IAGWSPO) is scheduled for 1/11 to review restoration issues. Transect 2 - Initial survey is completed, EM survey was completed on 12/22. Working on dig map. Transect 3 - Initial survey completed, access road has been cleared, 5 BIPS were completed, chipping

completed. Surveyors are scheduled to complete the GPS survey of the transect next week. Waiting on EPA approval to continue work. Transect 4 - Initial survey completed. No work is currently being conducted in this area. Surveyors are scheduled for next week. Transect 5 - Final EM61 picks are being made. 3 BIPS are scheduled for Friday (two 81mm Mortar HE and one 37mm projectile TP fuzed). Sampling at target locations, QA survey, and site walk with Karen Wilson are upcoming. Awaiting final Workplan approval prior to continuing fieldwork.
AirMag. No new work. Anticipating comments from EPA on AirMag Workplan, submitted 12/11, next week.
BA-1 Disposal Site. Investigation completed. Waiting on analytical results to backfill. Still pursuing additional information to identify excavated materials.
J Range Polygons. Investigation completed for polygons where no surface soil sampling is required and which are not in areas effected by Sandwich notification. One burial site has been uncovered to date: J-1 Polygon 9 (materials stored in J-2 Range magazine). There is evidence that there are three other burial sites: J-1 Polygons 10 and 14 and J-2 Polygon 4. Next week will be looking at an approach to addressing the burial areas. A site walk will be conducted with the agencies to review other sites. As requested by Jane Dolan (EPA) materials found in J-1 Range Polygons 11, 12, and 13 can be reviewed during the site walk.
Scar Site. Completed site walk scheduled with EPA. Grids were shifted and an updated site map is being prepared that shows location changes. Sampling of Target 49 is being coordinated with AMEC. Scoping meeting set for 1/10.
Eastern MSP sites. Completed site walk scheduled with EPA. Sampling grids were added to investigate trenches observed in old ERI photographs. Awaiting ROA approval. Scoping meeting set for 1/10.
U Range. Completed site walk scheduled with EPA of 3.5-inch rocket area. Have map of investigation area to be discussed in 1/10 scoping meeting.

- **SUMMARY of Action Items:**
  1) EPA to provide final (written) approval if no MOR required to resolve comments on MSP letter reports.
  2) Final MSP reports (inclusive of data) will be submitted to entire IART Team.
  3) Corps to provide comment on MSP scope.
  4) EPA to provide approval of Workplan for HUTA2 next week.

MSP Scope and Workplan Revisions

Ellen Iorio (ACE) distributed a one-page summary of the proposed process for implementing scope changes for the Munitions Survey Project.

- The proposed process includes establishing a scooping meeting for scope changes, time line for contractual process, etc. The Corps would like to get “buy-in” from agencies on the proposed process.
- Comments on proposed process should be provided to Ms. Iorio. Ms. Iorio to revise in accordance with comments and distribute final procedure. Looking for feedback by next week.

Snake Pond Update

Dave Hill (IAGWSPO) provided an update on activities ongoing at Snake Pond.

- Explosives results (unvalidated) for drive point samples collected by the USGS beneath pond were all non-detect. Mr. Hill to forward explosive results to interested parties. Perchlorate results are not yet available.
- Mike Jasinski (EPA) requested that proposal to discontinue surface water sampling at Snake Pond be sent to Dave Williams (DPH).

- AFCEE and DPH have discontinued surface water sampling at Snake Pond for the winter. Last surface water samples collected by AMEC on 12/17/01.

MW-181 Profile Sample

Heather Sullivan (ACE) reviewed status of information on the MW-181 profile sample.

- Todd Borci (EPA) had requested that an alpha spectroscopy and total uranium analysis be performed on remaining fraction of profile sample sent to Ceimic that had the high gross alpha detection. These analyses are being completed and results are due on Wednesday 1/09. Approximately 1.5 liters of another portion of the profile sample is still being stored at the Severn Trent lab in Vermont.
- Update on MW-181 analytical results to be provided 1/10.
- Waiting on this additional data before acting on the Guard's proposal of additional analysis of residual sample volume stored in Vermont.

Additions to LTM Program

Heather Sullivan and Marc Grant (AMEC) reviewed EPA's request for additional monitoring parameters for wells in the LTM Program. Resolution on additions to the LTM program were as follows:

- 116S - Perchlorate to be added to annual sampling in 2002 LTM plan.
- 120S - Guard proposed sampling annually for herbicides. No other detections seen in 3 rounds of sampling. EPA requested that well also be sampled 3X per year for perchlorate, explosives, and dyes. Discussion on how often to sample a well beneath a disposal area ensued, without resolution. Jane Dolan (EPA) to review comments on J-2 Range Workplan and provide final request in follow-up email.
- 130S - 3rd round sampling for dyes will be completed (Feb, same as other dye wells); well then to be considered for future dyes sampling in 2002 LTM plan (May if possible).
- 130M1/130D - Wells never sampled for dyes. Wells to be considered for dyes (based on other dye well results) in 2002 LTM plan (May if possible).
- 136S; 136M1 - Perchlorate to be added for 3 rounds in 2002 LTM plan.
- 131S - Perchlorate to be added for 3 rounds in 2002 LTM plan.
- 90MW0022 - Perchlorate to collected as part of December 2001 LTM round. 4 rounds of data for perchlorate currently available; 2 rounds show detections. This well to be considered for perchlorate analysis in all 3 rounds in 2002 LTM plan.
- 58S - Perchlorate to be included for annual sampling in 2002 LTM plan.
- Jane Dolan to provide email regarding MW-120S and remaining wells as listed in Ms. Sullivan's January 02 email (Subject: EPA Revisions to the LTGM Plan).

IART Agenda/Action Items

Tina Dolen (IAGWSPO) reviewed Action Items for January IART.

1) Request that Other Issues continue to be a regular Agenda item - Item will be added, however Guard requests that team members provide email requests to Ben Gregson/ Tina Dolen by the Wednesday preceding the meeting so that Guard can prepare response or plan for the attendance of appropriate personnel to provide input.
2) Guard to provide update on radioactivity detected at MW-181 and sampling completed in surrounding wells for radioactivity - To be discussed during Investigations Update. Multiple downgradient wells have been analyzed for radioactivity.
3) Is 2,6-DNT detection in MW-84 in the ZOC of the Bourne wells - AMEC preparing a ZOC x-section map for Bourne wells. To be available for Tech Team review by 1/10. To be provided as a handout at January IART meeting.

4) Provide cost and engineering impacts pursuant to Alternative 5 in the Demo 1 FS. - Guard to provide estimate of cost impact. Engineering impacts will be summarized in revised FS.
5) Provide update on the status of wells to be installed between Frank Perkins and Pew Roads. Update to be provided at January IART meeting.
6) Provide review of list of comments that have been made on IART maps. Internal review for Guard on 1/07. Tech team review on 1/10. Agenda item for January IART meeting.
7) Provide UT Fate and Transport Study to MIT representatives. Report is being reviewed/revised for distribution at the January IART meeting.
8) Provide additional information on the Pueblo, Colorado in-situ study. AMEC to provide copy of report.

Miscellaneous

- Jane Dolan (EPA) requested that the Corps provide an update on the Former H Range as an agenda item at the 1/10 Tech meeting. Gina Tyo (ACE) responded that the Guard/Corps do not view the IAGWSP technical meeting as the appropriate forum for this update. The Former H Range is a FUDS project and is administered in accordance with established FUDS Program Protocol. The New England District Corps of Engineers Project Manager and FUDS Program Manager will coordinate with appropriate regulatory agencies for the purpose of providing updates and/or instituting regular meetings. Further, the NGB has requested that the Former H Range not be included on the agenda for regularly scheduled IAGWSP technical meetings.

The Guard, EPA, and MADEP had a meeting on January 10 to discuss technical issues, including the following:

Punchlist Items

#2 Access 90PZ208 (MADEP). Ray Cottengaim (ACE) discovered that the property has changed hands again among family members. The present owner had previously signed a right-of-entry, permitting the Guard access to the property. The Corps is drafting a letter (to be sent certified mail) documenting this information and stating that the property will be entered the week of 1/21/02.
#3 Provide comments on PCN and MDL sampling approach (EPA). EPA provided a verbal OK, accepting the approach for PCN's as stated in the J-2 Additional Delineation Workplan. This approval will be documented in a letter to be sent by 01/14/02.
#4 Provide PCN proposal (AMEC). No additional proposal needed per #3.
#5 Provide recommendation on how to handle remaining lifts for 1200 CY soil (Corps). Corps is evaluating options; this issue will not be resolved in the short term. Removed from punchlist. Tetra Tech to monitor soil piles when in staging area.
#7 Provide update on interview schedule for Witness #19 (IAGWSPO). Private investigator has attempted to contact Witness #19's attorney. Waiting on a response. Guard attorney will contact Textron attorney to discuss arranging an interview.
#9 Provide AirMag Workplan comments (EPA/DEP). Comments received from EPA on 01/07/02.
#10 Provide comments on Method 8270 SIM protocol (EPA/DEP). Comments received from EPA; awaiting Guard acceptance letter regarding procedure identified by EPA for future well sampling. SIM data okayed for prior well results. Procedure to be followed for well sampling but not profile sampling.
#14 Provide F&T Study Report by the University of Texas (Corps). Report being revised by UT, expect revised draft next week. Agencies to be forwarded a copy prior to distribution at January IART.
#15 Provide ASR witness summaries (Corps). Summaries to be provided shortly via email.

#16 Provide comments on HUTA2 Workplan (EPA/DEP). Verbal approval to proceed was provided by EPA. Several minor comments were discussed that will be documented in a letter to be sent out by next week. ACE to provide addendum to sampling plan for changes to sampling approach at Transect 2,3,4. Revised Workplan will incorporate changes documented in the comment letter.

#17 Provide written approval or MOR for MSP letter reports (EPA). EPA to provide feedback on figures with letter reports on 01/14/02. Will decide next week if letter approval can be substituted for MOR.

#18 Provide comment on Corps 12/12 email regarding SOWs and Workplans (EPA/DEP). Comments received from DEP. Verbal comment provided by EPA. Next step will be to review and approve project note by next week.

#19 Provide status of dye results for MW-114 and MW-31 (AMEC). Data to be provided next week. Corps agreed to provide periodic update of dye results with TIC summary update.

Munitions Survey Project Update

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

AirMag. Received approval to continue on 1/08/02. Working on scheduling of fieldwork. EPA to be notified of areas that are suspected to be investigated in weekly updates.

HUTA2. Transect 1 – All initial work is completed. Intrusive investigation of EM61 picks will be completed next week. Transect 2 – Verbal approval to continue work received earlier at Tech meeting. Sampling is next step at Site 2. Transect 3 – Verbal approval received to continue work. Surveyors are scheduled to complete the GPS survey of the transect on 1/14/02. Transect 4 –Surveyors are scheduled for 01/14/02. Transect 5 – Will be completed next week. 1 BIP scheduled for today 1/10 (one 81mm Mortar HE, M43 Series with an unknown Point Detonating Fuze). Site walk with Karen Wilson (IAGWSPO) scheduled for next week.

J Range Polygons. Investigation completed at J-1 Range polygons except for burial sites and areas effected by Sandwich notification. Remaining areas include Polygons 9, 10, 14 and 15 on the J-1 Range. Next scheduled work is to complete investigation at J-1 Polygons 6-15 which are outside the Sandwich buffer zone and don't effect AMEC work. After completing these polygons, polygons within buffer zone will be addressed, then burials areas, and then J-3 Range Polygons. Last week areas for additional polygons were reviewed; working on SOW for these areas. J-2 Polygon 1, which was investigated this week will be on next Weekly Update. Updates include data collected at the end of the previous week.

- Tina Dolen (IAGWSPO) indicated that notification to Sandwich will be made regarding the J-2 Polygon sampling even though it is outside of the buffer zone, as a matter of courtesy.
- Press Release for J-1 Polygon 9 discoveries and notice that information on other burial area discoveries will follow, will be drafted for review prior to 1/17 Tech meeting.

Scar Site/U Range. Completed scoping meeting on 1/09. Site walk scheduled with Karen Wilson tomorrow 1/11, for ROA approval.

BA-1 Disposal Site. Investigation completed. Waiting on analytical results to backfill (expected next week). Excavated materials secure. No new information found regarding excavated materials.

- **SUMMARY of Action Items:**
  1) Corps to schedule HUTA2, AIRMAG, MSP tasks.
  2) Corps to notify Tina Dolen when J-2 Range Polygon work to commence.
  3) Tetra Tech to add J-2 Range Polygon 1 summary to next weekly update.
  4) Corps to expand grids for potential addition of polygons.

MW-181 Profile Sample

Heather Sullivan (ACE) reviewed status of information on the MW-181 profile sample.

- Total Uranium and alpha spectroscopy for the uranium series were analyzed. No detections above background were identified.
- Mike Jasinski (EPA) requested that a definition of what background means with references be provided.
- Approximately 1.5 liters of profile sample remains. AMEC recommends that the Severn Trent Vermont lab separate the liquid and solid fractions of the sample, transfer the volumes to the Severn Trent, St. Louis lab where the samples (water and solid) can be analyzed separately for additional alpha emitters, such as Radium and Thorium (solid) and Radon and Radium (water). AMEC's proposal and Uranium alpha spectroscopy results to be forwarded by 1/14/02.
- Marc Grant (AMEC) to check with lab to see if quicker than 2 wk turn around time can be achieved so that sample results may be available for January IART presentation.
- Add item to Punchlist and next week's agenda.

Snake Pond Update

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

- Explosives results (unvalidated) for drive point samples collected by the USGS beneath pond (all non detect) were included in biweekly explosives update.
- Perchlorate results are expected next week.
- Dave Williams (MDPH) requested that the Guard commit to collecting splits of surface water samples with MDPH during the recreational season. Ideally sampling should be initiated in April/May so that results can be obtained prior to the Memorial Day Weekend. Ben Gregson (IAGWSPO) agreed that the Guard would continue sampling during the recreational season.

Schedule and Documents

Marc Grant (AMEC) reviewed scheduling and document issues with the following highlights.

Documents Having Comments

June 2000 BIP Report **-** MOR was approved on 12/13/01.
TM 01-14 (Gun and Mortar Draft Final Report) – Todd Borci and Mike Jasinski to discuss MOR approval by next week.
MSP2 J-1 Vehicle Removal Letter Report – Final Report submitted 1/09/01.
CDC Test Results Report - Resolution Meeting to be rescheduled for 02/14/02.

Documents Needing Comments

TM 01-13 (Central Impact Area Soil Report) EPA comments expected to be sent next week.
HUTA1 Report EPA comments expected to be sent in 3 weeks.
Revised TM-10 (Demo 1 Soil Report) EPA waiting on perchlorate, PCN and dye results for soil. EPA/DEP comments expected to be sent end of next week. Delay in comment resolution likely to impact schedule for FS Screening Report.
Demo 1 Ecological Risk Assessment Workplan DEP comments received. EPA to determine whether to send letter of concurrence with DEP comments or separate comment letter.

Documents to be Submitted

Revised Gun and Mortar Workplan. EPA granted extension to 2/21/02.
ASR Meeting Minutes. Relating to ASR Scope of Work comments resolved during meeting. Corps to submit on 12/23/02

IART Map Strategies

Tina Dolen (IAGWSPO) reviewed actions taken by Guard in response to IART Team's comments to improve the IART maps.

- A new map has been developed (unveiled at December IART) to highlight new detections and monitoring wells each month. This map is tied in to the New Detects presentation and the IART Handout.
- IART maps provided at the table are proposed to be phased out in favor of the Monthly maps in response to the team's request not just to see a lot of detections and to reduce the glut of paper distributed at the meeting. The monthly maps take validated data and distinguish between detections above health advisories (red), below health advisories (yellow) and non detects (green). Todd Borci indicated that it would be good to include the unvalidated data. Marc Grant pointed out that the unvalidated data presented on the IART maps was becoming less important as the historical database has grown larger with respect to new data coming in. In addition, historically, unvalidated data has not been segregated into above and below the health advisory because it is still "draft" data. Although the explosive data is PDA-confirmed and usually all eventually validated, unvalidated detections of other parameters (e.g. metals) are not as reliable. Consolidation of the Monthly and the IART maps will also enable the maps being distributed to the IART Team to be synonymous with the maps being distributed to the public, as the concentrations of the unvalidated data are not published officially. Unvalidated explosive detections, as they are received each month, will still be discussed in the Monthly Report and in the "New Detects" portion of the IART presentation.
- Todd Borci pointed out that an additional issue was removing the Phthalate detects from the SVOC map and the Chloroform detects from the VOC map. Elimination of these constituents will enable these maps to have more meaning, as these constituents are often lab contaminants. It was proposed that separate SVOC and Chloroform maps should be generated and distributed every 6 months to track any changes in these detections.
- Todd Borci also indicated that the data tables distributed at the IART meeting should only show the new months data (since the last meeting). Cumulative results can be presented either every 6 months or at the end of the year.
- More minor revisions that will be implemented include enlarging legends and scale bars on the maps, spelling the acronyms out.
- It had been proposed that areas of concern would also be added to the monthly maps with shading and labels. Discussion ensued on what areas should be added so that other more important information wouldn't be obscured on the map. There was general agreement that the major operable units should be labeled and shaded (Demo 1, SE Corner of the Ranges, and Central Impact Area) other less distinct operable units (Gun and Mortar Firing Positions, etc.) could be indicated by shading/colors. A base-wide range map, showing all the operable units or potential operable units (with all areas labeled) color coded to the Monthly maps could be distributed for use as a reference tool. This reference map would then be retained by the IART Team members for future use and comparison to the monthly maps.
- Todd Borci requested that in the Weekly and Monthly Updates New Detects be referred to as Recent Detects.
- IART agenda was set with a portion shown as follows:

630 pm	Late Breaking News
635 pm	Investigations Update (Recent Detects, SE Corner of the Ranges Excavation, Demo 1 Plume Delineation Strategy, MW-181)
735 pm	Thermal Neutron Analysis
750 pm	Break
800pm	IART Map Revisions

Central Impact Area Plume Delineation/Pump Test

Heather Sullivan reviewed location of proposed wells with new location map to obtain approval on the locations from EPA/DEP. The locations were resolved/approved as follows:

CIAP-11 – As previously proposed. Jane Dolan to review site with respect to J1P-1 location which it is close to; site visit on 1/16 or 1/17. AMEC to provide particle track map presented in J-1, J-3 L Range plan with CIAP-11 marked, for reference. Location approved by all parties.

CIAP-12 – Moved south onto particle track from MW-107. ROA to be resubmitted. Location approved by all parties.

CIAP-13 – Location eliminated.

CIAP-24 – Location to be moved to a point on the RDX 2-10 ppb contour line directly down from the center of the HUTA base line. Location, as moved, approved by all parties.

CIAP-16 – Location moved to particle track from MW-164. Location approved by all parties.

CIAP-23 – Location to be moved to Wood Rd between Five Corners and CIAP-16. Final location to be selected after results from CIAP-16 are collected.

CIAP-22 – Location to be placed on particle track to MW-113. Currently well located off of Wood Rd at intersection with the particle track. EPA would prefer a location off of MW-3 access road but only if it can be located along MW-113 particle track. Guard to review terrain to see if this is possible, if not EPA approves the current location as the 2nd best option. Location approved by all parties either way.

CIAP-21 – Location on particle track from MW-86. Location approved by all parties.

CIAP-14 – Location pending results from MW-185. HUTA exclusion zone Transect 5 is preventing development of this well. Well development will be coordinated by the Corps since Transect 5 work should be completed next week.

CIAP-20 – Location remains as originally proposed downgradient of MW-185. Location approved by all parties.

CIAP-18 – Location could only be moved 50 feet off road, not 100 feet as requested. Access to be double-checked with site visit.

CIAP-15 – Location previously approved by all agencies. Need final written confirmation that location is acceptable to Wampanoags.

New CIAP-13 – On Avery Road, final location will be based on results from CIAP-15.

CIAP-8 – Well is completed.

CIAP-10 – Well is currently being drilled.

CIAP-17 and CIAP-25 – Cross sections will be provided to assist in locating these wells to define the plume between Spruce Swamp and Burgoyne Roads. EPA suggested coming in from the back of the ranges near MW-123 to access this very dense area. Site visit scheduled for 1/24/02.

CIAP-19 – Location is pending Former A Range soil data. Site visit scheduled for 1/17 at 1pm.

- Ben Gregson (IAGWSPO) indicated that per his recent letter requesting a schedule extension, a new schedule would need to be developed for the Central Impact Area Groundwater FS, originally proposed to be submitted May 24, since wells will just be installed by May. Todd Borci requested that the Guard propose a new schedule.
- Len Pinaud (MADEP) pointed out that although the Groundwater Report had been finalized, plume delineation is not complete. In MADEP's opinion this was not the best way for the project to have proceeded. Mike Jasinski (EPA) suggested that all parties consider having an Addendum drafted for the Groundwater Report with the additional results and plume configuration, and have this draft Addedum submitted together with the Draft FS.
- Gina Tyo (ACE) to provide new schedule. Heather Sullivan (ACE) to provide project note outlining additional delineation activities based on proposed wells and stating that once these wells are completed, characterization of plume will be complete.

- Len Pinaud to review schedule to make sure MCP Phase 2 tasks (primarily Ecological Risk Assessment) are to be completed prior to completion of the FS. Following this review, Mr. Pinaud to provide approval of schedule/approach toward completion of the FS phase.
- Jay Clausen (AMEC) indicated that Penn State test data on use of GAC to treat perchlorate had been received. The data indicated that the amount of GAC to be used during pump test should have been more than adequate to remove perchlorate from effluent. Still awaiting receipt of Calgon data. Calgon also has data on an ion exchange resin for treating perchlorate, however it is not known if this technology can be used at the high flow rates proposed for the pump test. Once all data is received, Mr. Clausen to summarize and forward to agencies.
- If column studies are required, Mr. Clausen to discuss ability of Calgon to perform appropriate studies. If this can not be done by Calgon, AMEC could do field column study in March 2002.
- Because of HUTA exclusion zone, and need for 2.5-3 week window, pump test can probably not be conducted before March 2002.
- Mike Jasinski set as a goal 01/31/02 as date for discussion of use of GAC alone for pump test effluent treatment.
- Fate and Transport Study should be received from Univ of Texas by 01/14 or 01/15. Copies to be provided 3 days prior to IART meeting to agencies. 30 copies for distribution at IART.

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

Punchlist Items

#2 Access 90PZ208 (MADEP). The property will be entered on 1/21/02 to sample the piezometer for explosives/perchlorate (Marc Grant to verify analyses). EPA/DEP requested copy of letter sent to property owner.

#3 Provide comments on PCN and MDL sampling approach (EPA). EPA comments received.

#6 Provide update on interview schedule for Witness #19 (IAGWSPO). Guard's attorney contacted Textron's attorney to discuss arranging an interview with Witness #19. Textron's attorney will contact Witness #19 and/or Witness #19's attorney to set up interview. Private investigator is continuing attempts to contact Witness #19. Change punchlist item to: Schedule interview with Witness #19.

#9 Provide F&T Study Report by the University of Texas (Corps). Report distributed to agencies at Tech meeting. 30 copies to be provided at January IART meeting.

#10 Provide ASR witness summaries (Corps). Some redactated summaries provided by Corps on CD earlier in week. Remaining redacted summaries provided in hard copy at Tech meeting.

#12 Provide written approval or MOR for MSP letter reports (EPA). All MSP reports to be discussed in comment resolution meeting by conference call on 1/23 at 3pm.

#13 Provide comment on Corps 12/12 email regarding SOWs and Workplans (EPA/DEP). Internal Corps comment indicated that time should be added to the process for contract award following scoping meetings when the scope (prior to the meeting) is ill defined. EPA commented that Project Notes should consist of (1.0) Statement of Problem and (5.0) Corrective Action only. An additional disclaimer to be added is "signing of this project note does not modify the requirements of the Administrative Orders (*enumerate*) or modify the scope of work required under the Administrative Orders (*enumerate*)." Ellen Iorio to email revised Project Note for signature by all parties.

#14 Provide status of dye results for November samples and MW-114 and MW-31 (AMEC). Data emailed yesterday. Dye data update to be combined with TICs update for distribution by email, monthly.
#15 Respond to EPA comment letter re: Method 8270-SIM for DNTs (AMEC). Response to be provided on 01/18/02.
#16 MW-181 Results and Recommendations (AMEC). Provided prior to meeting. Agenda item.
#17 Provide Demo 1 Soil PCN, Dye and Perchlorate results (AMEC). Results emailed. Response will be provided to EPA comments.
#18 Provide comments/approval on ASR SOW meeting minutes (EPA/DEP). EPA approval provided. DEP to provide comment/approval today. With addition of disclaimer, Project Note to be drafted for signature next week.

Munitions Survey Project Update

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

AirMag. AirMag work will be used in the coming weeks as fill-in work. Corps to notify EPA/DEP of start date/schedule. Todd Borci (EPA) requested that scheduled activities be referenced by anomaly including a reference to the Workplan figure that shows the anomaly being investigated.

HUTA2. Transects 1&5 - Anomaly excavation completed. Karen Wilson (IAGWSPO) approved restoration activities as a result of last week's site walk. QA magnetometer survey to be scheduled with Nick Iaiennaro (ACE). Tetra Tech will compile list of anomalies with Figure reference to be provided at 01/24 Tech meeting. Transect 2 - Soil sampling completed on 01/15. High-resolution sampling still on hold pending signature of Project Note. Todd Borci to review Project Note with Corps after Tech meeting. Copy of Project Note to be provided to DEP. EM61 survey is completed. Next step is excavation, which is planned to commence on 1/18 pending signing of Project Note. Transect 3 - EM61 survey completed 01/15. Soil sampling to commence next week. Transect 4 - EM61 survey completed 01/16. Soil sampling to commence today.

J Range Polygons. Investigation of J-2 Range Polygons 6-15 which are outside the Sandwich buffer zone is being conducted this week. After completing these polygons, J-1 Range polygons within buffer zone will be addressed. Schedule to be finalized today. A site visit to the J-1 Range was conducted with EPA on 1/16 to review other potential polygon areas for investigation. Summary of results to date show disposal as evidenced by debris, burn residue, and stained soil has been encountered in at least three areas: J-1 polygon #9; J-1 polygon #16; and J-2 polygon #1. A burial location was uncovered at J-2 polygon #13. In this location, 73 mortar rounds (81 mm), which were clearly marked inert, were uncovered. Finally, work will commence shortly on several polygons which are suspected to contain additional disposed munitions items, including suspected high explosive rounds.

Scar Site/U Range. ROA for these sites was submitted on 1/16.

BA-1 Disposal Site. Some of the analytical data has been received. Corps is recommending that fluid in tubes be sampled for PCBs and SVOCs. Todd Borci indicated that if no releases of these constituents are noted in underlying soil samples, the sampling of the water in the tube should be completed for waste characterization pursuant to disposal. Debris from site has been drummed and staged.

- Ellen Iorio (ACE) requested that enforceable milestones not be set for completion of fieldwork for HUTA2 of AirMag tasks. Schedules need to be somewhat flexible due to logistics of coordinating with AMEC field activities.
- Todd Borci requested that future modifications to the MSP schedules be made in one request.

- Ellen Iorio responded to specific questions Mr. Borci had regarding HUTA2 analytical data tables. Mr. Borci requested that tables and maps of HUTA2 Transect 1 and 5 data be cross-referenced for ease in review.
- Mr. Borci further requested that future tables of HUTA2 data include a "PDA" column with a "YES" or "NO" for each detection.
- Jane Dolan requested that the Corps provide EPA an idea of what the AirMag Tech memos would look like.

Snake Pond Update

Dave Hill (IAGWSPO)/ Denis LeBlanc (USGS) provided an update on results of drive point sampling at Snake Pond.

- Perchlorate was detected at a concentration below the EPA limit in Drive Point Sample 5, which corresponds to Diffusion sample location #38. This is a location just north of the east end of the spit. These results will be included in the Investigation Update at the January IART meeting. The detection of Perchlorate was above the MDL of 0.35 ppb, but below the reporting limit, so it is a J value.
- Tech team decided that a press release for this detection would not be needed because detection was below EPA Limit of 1.5 ppb. Tina Dolen to notify Dave Mason (Sandwich Health Department) and Dick Judge (Sandwich Selectman).
- Guard has requested that AMEC collect a sample of the surface water at this location. Surface water sampling is being completed today.
- Denis LeBlanc explained that sampling at location #38 was done because sampling at location #37 (where explosive detections was noted in diffusion sample) could not be completed. The substrate at the #37 location was too fine-grained. The water depth was only about 1 foot at the #38 location. The drive point was driven in 2.2 feet below the base of the pond, so the drive point had a 3.2-foot head of water. Purging and sampling of the drive points was done through a 1/8" tube. Approximately 1 Liter of water was purged at a rate of 1 Liter/320 seconds, prior to sampling. During purging, the specific conductance of the purge water was monitored. The initial measurement was 57.1, the final measurement was 56.6. The hydrogeologic dynamics (recharge/discharge) in the vicinity of the spit and the Pond in general are not well understood. The conductivity results suggest that the drive point sample water may be groundwater recharge from the Pond, but it is unlikely that it is Pond water.
- The good news is that by collecting drive point samples, all interferences that had been seen from organic material at the base of the pond were eliminated. This was the original purpose of the sampling. However, collectively the groundwater data around the Pond, diffusion sampling results, and drive point sample results do not show a pattern of contamination or suggest an obvious next step.
- Guard and agencies decided that follow-on work for Snake Pond would be addressed in the Final J-1, J-3, L Range Additional Delineation Workplan #2. EPA would provide a general comment to this Draft Workplan that a follow-on scope of work at Snake Pond was needed. Scoping meeting for follow-on work scheduled after Tech meeting 1/24.

J Range Polygon Press Release

Tina Dolen (IAGWSPO) distributed a draft press release for review regarding munition burial sites found at the J Ranges, as part of the MSP Polygon investigations. Comments were provided by Tech team at the meeting. It was suggested that the release be more general to cover all burial/disposal sites. A revised draft was reviewed by interested parties following the Tech meeting.

MW-181 Profile Sample

Jay Clausen (ACE) reviewed status of information on the MW-181 profile sample.

- Saga of MW-181 was detailed in an email summary with recommendation prepared by AMEC. COL Bleakley (JPO) and Mike Jasinski (EPA) complimented the clarity of the written summary.
- AMEC's summary suggests that uranium is not responsible for high gross alpha detections and there is no depleted uranium present. It is possible that the radioactive decay of uranium or other radioactive isotope is producing other isotopes that are responsible for the elevated gross alpha. A particular suspect is radon 222 because an alpha/gamma and beta handheld scintillation counter (that was used by the laboratory) registered a spike in alpha activity upon opening the sample jar, and then the alpha activity quickly subsided. This observation suggests that radon-222 gas accumulated in the sample bottle and was released when the bottle was opened. It seems possible that the elevated alpha is from radon that is growing-in from either radium or thorium.
- AMEC recommends that the solid fraction of the profile sample be analyzed for radium and thorium and the liquid fraction of the profile sample be analyzed for radon and radium.
- Todd Borci to review results and recommendation with Idaho National Engineering Laboratory (INEL) and provide feedback on further action by Tuesday 1/22, prior to January IART meeting.

DEMO 1 Area Groundwater Feasibility Study

Heather Sullivan (ACE) reviewed the status of the schedule.

- The schedule for completing the Demo 1 Groundwater Feasibility Study is under development. Completion of the Demo 1 GW FS schedule is planned for the end of January.
- An email has been forwarded to Hanni Dinkeloo (Natural Heritage) explaining the plume delineation strategy. This strategy will require revision of the existing ROAs. Approval of these ROAs is complicated by Ms. Dinkeloo's leaving her position at the agency in 2 weeks.
- AMEC is currently revising the ROAs for road building and new well locations. The plan is to have these submitted by 1/25 for Ms. Dinkeloo's review and approval prior to her departure. In particular, areas where fill will have to be added and remain for a period of time are being identified for the ROAs.

Background Soil Sampling Update

- Heather Sullivan (ACE) reviewed the status of the background soil sampling.
- All background sampling was completed by December 2001. Off-site background data for MCPP/MCPA analysis, completed in December has been received. The off-site data is being validated; on-site data is validated
- PCN sampling was completed in October; this data is being validated.
- Dioxin/furan sampling was completed in October; this data is being validated. Toxic Equivalents (TEQ) for this data have not yet been calculated. Draft TEQ to be provided to the agencies will be based on the unvalidated results.
- Copies of all data were provided to the agencies at the Tech meeting upon request.

ASR Update

Gina Tyo provided monthly update of ASR activities.

- Recent interviews were provided - some in hard copy at meeting and some by CD prior to meeting. Third Witness #24 interview provided by email.
- Ben Gregson (IAGWSPO) indicated that a letter discussing next steps in addressing

Osborne Pond, which was referenced as a disposal area by Witness #32, will be sent by 1/18.

Significant Accomplishments

- Mr. Blake conducted additional interviews to include site visits with Witness #24 (third interview), Witness #25 (third interview), Witness # 26, Witness #30 (second interview), Witness #32 and Witness #33. Mr. Blake and Tetra Tech also received information from EPA regarding the E Range and a prioritized list of additional individuals to be interviewed.
- NGB submitted a sensitive information letter (dated December 21, 2001) based on input from Witness #32.
- As directed by USACE-NE, Tetra Tech placed an ad in the *Army Times* and *Air Force Times*. This ad will be posted in the journals for four consecutive weeks.
- USACE-NE, USACE-RI, EPA, MADEP, NGB, and Tetra Tech met on December 6, 2001, to discuss finalization of the ASR. NRC summary will be reissued. Marine/Navy historical findings will be added to revised Military History Report.
- USACE-NE approved and Tetra Tech distributed a project note regarding above meeting to address ASR Finalization (December 23, 2001). USACE-NE and NGB request input or concurrence from EPA and MADEP by January 10, 2002. EPA approval was received on January 15, 2002. Awaiting DEP approval. Len Pinaud (MADEP) requested that finalizing the Project Note for the ASR be discussed in a brief after meeting.
- A meeting (December 19, 2001) with ASR team members and others was held to discuss GIS formats and issues related to data from various ongoing investigations. Outcomes from this meeting will be incorporated into the ASR GIS archive task, as appropriate.

Upcoming Actions

- Continue interviews.
- Compile data obtained through *Army Times* and *Air Force Times* ads and provide to ASR team for review
- Proceed with coordination regarding ASR documents.
- Issue data call for data related to ASR and input on ongoing investigations to be summarized in ASR.
- Prepare for finalization of the ASR pending receipt of all comments.

Central Impact Area Wells

Heather Sullivan revisited locations of 5 proposed Central Impact Area wells with new location map to obtain approval on the locations from EPA/DEP. The locations were resolved/approved as follows:

CIAP-22 - Location EPA proposed off of MW-3 access road was reviewed at a site visit earlier in the week. This well can be located along MW-113 particle track on even terrain. Location approved by all parties.

CIAP-17 and CIAP-25 - Cross sections were provided to assist in reviewing new proposed locations of these wells to define the plume between Spruce Swamp and Burgoyne Roads. Based on a site visit, the Guard rescoped the CIAP-17 and CIAP-25 locations. However, the Guard would prefer to hold on installation of CIAP-25 pending CIAP-17 results, because of logistics of entering the heavily vegetated area. Between the two locations, CIAP-17 allows easier access. All parties agreed on the CIAP-17 location.

CIAP-11 - Guard would like to move this well further south than the previous proposed location. Todd Borci suggested that the Guard review this well in conjunction with particle tracks from the J Ranges as it may be better to move this well to the east.

CIAP-12 - 740 foot road cutting is been identified as an issue for Hanni Dinkeloo as this particular part of the Central Impact Area is characterized by prime sensitive species habitat. Jay Clausen feels that additional data is needed to define the upgradient edge of the plume in

the vicinity. AMEC to provide additional backtracks from monitor wells MW-1 and MW-90 toward MW-118 and MW-126 to see if proposed location for CIAP-12 can be moved closer to these wells located on a road to the southeast.
CIAP-15 - Karen Wilson indicated that discussion with the Wampanoags suggests that email approval for this location will be received by 1/18.

Miscellaneous

- Todd Borci provided a copy of an article called The Perchlorate Story published in Pollution Engineering August 2001. The article indicated that perchlorate is a component of Minuteman rocket propellant. A recent witness interview reported that Minuteman rocket propellant was detonated at the J-3 Range detonation pit.
- Jane Dolan requested dye results for J-2 Range soils.
- Ms. Dolan pointed out that recent groundwater results from AFCEE showed that groundwater samples from MW-45 at L Range had a PCE concentration of 5.6 ug/L.
- Darrell Deleppo (ACE), noting the proliferation of Project Notes, recommended that the Corps start tracking these notes using the Punchlist.
- Len Pinaud (MADEP) indicated that DEP is close to finalizing the permit for MMR's prescribed burn. A meeting is scheduled with Mike Ciaranca (MAARNG) for 1/23. Mr. Pinaud offered to provide information on the permit to the Tech team after this meeting.

The EPA convened a meeting of the Impact Area Review Team on January 22, 2002. The issues discussed included: an Investigations Update, Snake Pond diffusion sampling, SE Corner of the Ranges Polygon excavations, Demo 1 Plume delineation strategy, MW-181 test results, Thermal Neutron Analysis technology and IART Map Revisions.

The Guard, EPA, and MADEP had a meeting on January 24 to discuss technical issues, including the following:

Punchlist Items

#1 Snake Pond area well verification (AFCEE). AFCEE unlikely to complete verification before spring. Jane Dolan (EPA) requested that the location of 90MW0054 be verified by GPS.
#2 Access 90PZ208 (Corps). Copy of certified letter sent to the homeowner was provided to the EPA. Piezometer 90PZ208 was sampled on 1/21/02. Samples to be analyzed for Perchlorate and explosives.
#5 Provide update on interview schedule for Witness #19 (IAGWSPO). Witness #19's attorney responded to the interview request. Witness #19 will be available for an interview after the Department of Justice has completed their investigation.
#7 Provide ASR witness summaries (Corps). Completed last week.
#9 Provide Project Note on SOW/WP Process (Corps). Project note provided at Tech meeting.
#11 Respond to EPA comment letter re: Method 8270-SIM for DNTs (AMEC). Response faxed 01/18/02.
#14 Provide response to EPA comments on Demo 1 Soil PCN, Dye and Perchlorate results (AMEC). Response emailed 01/18/02.
#15 Provide date J-2 Range soil dye results available (AMEC). Results provided by email 01/23/02.
#17 Provide feedback on recommendation for MW-181 RAD analyses (EPA). Feedback to be provided by 01/31/02.

HUTA2 Dig Maps

John Webster (Tetra Tech) reviewed the EM61 survey data compiled for the HUTA2 Transects

via overhead projector. Two EM61 surveys are to be completed at each transect. Electromagnetic conductivity data collected in the initial, baseline survey is utilized to develop a list of anomalies for excavation. After excavation of all targeted anomalies, a final EM61 survey is conducted to compare to the baseline survey. The survey is conducted on two or three (Transect 5 only) legs for each transect along a grid comprised of 7 m X 7 m cells.
Transect 1 - Both initial and final EM61 surveys have been completed. The background electromagnetic signal strength was approximately 0 mv as shown by the gray color code on the figure. This transect had a low saturation of anomalies that resulted in only 280 picks, and a few "hot rocks". All picks were excavated. The majority of the anomalies were 75mm and 155mm shrapnel - pre-WW II. The final EM61 survey showed that the excavated material had contributed significantly to the elevated EM readings along the transect.
Transect 2 - Only the initial EM61 survey has been completed. The background electromagnetic signal was approximately 32 mv. There was a relatively high saturation of anomalies in this Transect and Transects 3 and 4 when compared to Transects 1 and 5.
Transect 3 - Only the initial EM61 survey has been completed. The background electromagnetic signal was approximately 32 mv.
Transect 4 - Only the initial EM61 survey has been completed. The background electromagnetic signal was approximately 36 -40 mv. The terrain in this area is hummocky.
Transect 5 - Both EM61 surveys were completed. The background EM signal strength was approximately 0-4 mv in this area. "Hot rocks" were seen on the southern leg. A third leg was added for this transect to cross particle backtracks and be oriented across a ridge. Excavation of anomalies revealed mostly old-style mortar rounds to a depth of 3 ft.

- Todd Borci (EPA) requested that information on #picks, #UXO, and UXO type be provided as the excavations in Transects 2,3, and 4 are completed. Ellen Iorio (ACE) indicated that similar to the J Range Polygons, this information could be provided in the weekly update.
- HUTA2 work will proceed until 02/11/02 at which time there will be a break to allow for well installations in the Central Impact Area. The work will not be completed by this date.
- Ms. Iorio indicated that sampling results received to date for the HUTA2 project would be provided at the end of the meeting. A PDA-column was listed in the table. All results provided are PDA-confirmed yes, since PDA confirmation is performed immediately.

Munitions Survey Project Update
Rob Foti (Corps) provided an update on the MSP3 and HUTA tasks.
AirMag. AirMag work will start on February 11.
HUTA2. Transects 1&5 -QA magnetometer survey, to be completed with Nick Iaiennaro (ACE), is pending. Transect 2 - Excavation of anomalies is the next step. Two BIPs are scheduled for Friday 01/25 for a 105 HE MI with M51 series PD fuze and 155mm HE M107 with M51 Series PD Fuze. Transect 3 - Soil sampling to commence today. Transect 4 - Next step is intrusive investigation of anomalies.
J Range Polygons. Investigation of J-2 Range Polygons 6-15 which are outside the Sandwich buffer zone are being conducted this week. Mortars discovered at J-1 Range Polygon 9 previously reported to have been buried, have been re-assessed to have been fired and landed as discovered. Excavation of J-1 Range Polygons 1-5 that require notification to the town of Sandwich will commence Monday (01/28), pending notification approval. The Corps is coordinating activities with AMEC so that sampling can proceed at J-2 Range Polygons 17, 23-25, since the intrusive investigation is being moved to J-1 Range. Polygons in J-1 and J-2 Ranges requiring notification will be investigated consecutively so that only one notification will be required. Excavation of other J-2 Range potential burial sites will then follow and finally excavations at J-3 Range.

- Todd Borci indicated that he thought the map showing the Polygon locations that was distributed at the IART meeting was an effective (good) map.

Eastern MSP. ROA awaiting approval.

Scar Site/U Range. ROA for these sites was submitted on 1/21.

BA-1 Disposal Site. No activity. Fluid in electron tubes will be sampled for characterization pursuant to disposal.

- Ellen Iorio (ACE) indicated that Workplans for the Eastern MSP, Scar Site and U Range will be provided at the end of the meeting. A Project Note with review schedule was prepared for signature.

Summary of Action Items

- Total Picks, #UXO, UXO type will be compiled in a HUTA2 Update - to provided with MSP Update distributed each week.
- Per Jane Dolan's request, potential Polygons that are being evaluated for investigation will be numbered consecutively in accordance with current scope of work. Numbering will be completed after the new scope of work is developed.

Scrap Contract Update

John MacPherson (ACE) provided an update for the Scrap Contract and proposed activities.

- USA Environmental sub-contracted with FENN-VAC for recycling scrap. OE scrap will be sent to Stateline Scrap, South Attleboro, MA for processing (crushing, shredding, melting) to lose identity. Targets and non-military scrap will be sent to Prolerized New England, Everett, MA.
- Targets, which are known to have some contamination, will be sampled with swipes. If the swipes show no contamination, the targets will be cut in 1 ft by 3 ft sections. These pieces will be transported to Prolerized recycler facility for remelting.
- Targets 17-24, which are located on roads, will be removed beginning 02/11. Prior to their removal, the targets will be cleared of UXO and every effort will be made to disturb the soil as little as possible during the removal process (by crane). Targets included in the Targets Sampling Plan will either not be removed or the soil not disturbed upon Target removal.
- Bill Gallagher (IAGWSPO) indicated that the contractors would be looking for fluid leaks or leaked during target removal to perform limited soil removals in response to leaks.
- Todd Borci requested that a stake with Target number be placed at any Target locations from which Targets are removed. In response, the Corps pledged to develop some type of more permanent marker for former Target locations.
- The Corps is compiling data regarding the areas around the Targets that will require road building as part of the removal process. The Corps is discussing what the plan will likely be for these Target areas and discussing the plan with Karen Wilson (IAGWSPO) in terms of natural resource impacts. At the conclusions of these discussions, a plan will be presented to EPA/MADEP.
- In response to Mike Jasinski's (EPA) inquiry, Mr. MacPherson stated that UXO discoveries, as part of the Target removal (within Targets not necessarily the area surrounding), will be reported and tracked as part of the Incident Report process. Information on UXO discoveries documented in Incident Reports is maintained in a Corps database.
- EPA/MADEP advised that based on information regarding the scrap contract provided to date by the Corps Project Engineer, they approve of the recommended process and the Corps and Guard may move forward.

Demo 1 Area Additional Delineation

- Karen Wilson (IAGWSPO) summarized her discussions with Hanni Dinkeloo (Natural Heritage) regarding the Demo 1 Additional Delineation Plan and natural resources

considerations. Ms. Dinkeloo approved installation of the D1P-9 and two wing wells. However, data from these wells and further justification will have to be made in the event that the Guard wants to install the additional downgradient wells (DC1-3 and/or D1C-4, D1C-5). The Guard will not be able to go ahead with the second phase of well installation without resubmitting a ROA.

- Ms. Dinkeloo's formal approval of the ROA for the first three wells is pending receipt of Road Construction Plan and Exotic's Plan, both will be completed Monday 01/28 for Ms. Dinkeloo's review. Approval of ROA is expected prior to Ms. Dinkeloo's departure from her position on 02/01.
- Mike Jasinski (EPA) stressed that the road building and well installation should be conducted as expeditiously as possible. Preferably, road building should be scheduled to start on 02/01, immediately upon receipt of Ms. Dinkeloo's ROA approval.
- Len Pinaud (MADEP) and Mike Jasinski (EPA) requested an updated schedule for plume delineation - discussion to be included as an agenda item for 01/31 Tech Team Meeting. Ms. Wilson suggested that one-week be allowed for the natural resource review, if a second phase of well installation is required. Revised FS is currently scheduled to be submitted in August.

Documents and Schedule

Marc Grant (AMEC) reviewed the document and schedule status. Important outstanding items were addressed as follows:

- Len Pinaud (MADEP) requested the resolution on procedure for finalizing long outstanding documents including: IAGS 1999 Interim Results Report, IAGS Phase I COWR Comment Response, Tech Memo 99-5 (Background Groundwater), TM 01-4 (Soil Distribution Report), TM 01-1 Soil Background Proposal.
- 1999 Interim Results Reports - Tech team agreed that to close the Administrative Record on this report, a letter should be drafted stating that outstanding comments for this report and the conclusions of the report have been "Overcome by Events," the information and conclusions in the document have been superceded by subsequent documents. Guard to draft letter for review by Tech team to concur on specific language.
- Phase I COWR Comment Response - *Ibid*.
- Tech Memo 99-5 (Background Groundwater) - No resolution achieved. Tech team to revisit at later date. Ben Gregson (IAGWSPO) noted that under the MCP, the Guard had submitted a Response Action Outcome (RAO) for metals in groundwater at Camp Edwards to be considered background. No follow-up by the agencies is required.
- TM 01-1 Soil Background Proposal - Tech team agreed that this document should be revised with new background data currently being evaluated for PCNs, dioxin/furans, MCPA, MCPP. Agreement has already been reached on soil background concentrations for SVOCs, VOCs, DDT, and DDE. The new data will be available in approximately one month. MADEP to comment within that time frame so that comments can be incorporated into the draft revised document.
- TM 01-4 Soil Distribution Report - EPA stated that no comment will be provided on this report since EPA did not agree with the conclusion of the report and did not request that this report be prepared. Gina Tyo (ACE) stated that AMEC will reissue the letter stating the value of the report. EPA declined to comment on whether or not they would provide a response to this letter.
- Demo 1 GW FS - Further comment to be provided by EPA on 02/04.
- Central Impact Area Soil Report (TM 01-13) - DEP expects to provide comments shortly. Draft comments expected Monday or Tuesday. Comment resolution meeting should wait for DEP comment. Response to Comment Letter submittal date changed to 02/06.

- Draft FSP for Remaining Central Impact Area Targets – Resolution meeting for EPA comments remains scheduled for 1/31 to avoid delay in the deadline to start this work. DEP to provide comments before then if possible, so that they can be considered at the meeting.
- Demo 1 Ecological Risk Assessment Workplan. - Comment resolution meeting will be scheduled for week of February 4. DEP Eco Risk group to attend, EPA and DEP comment resolution to be combined in one meeting.
- RRA1 COWR and RRA 2 COWR - DEP considers these reports RAM Status Reports and therefore will not provide comment. EPA to provide comment on RRA2 COWR in two weeks.
- MSP2 Demo 2 Letter Report - Another copy (email) to be forwarded to EPA. EPA to check on comment status.
- J1J3L Range Additional Delineation Workplan #2 - EPA comments to be provided by 02/04. Mr. Grant mentioned that these comments are in the critical path for several enforceable milestones, and that the delay from the 1/15 date will result in changes to the schedule.
- TM 01-7 UXO Interim Screening Report - EPA comments in February. Mr. Grant mentioned that these comments are in the critical path for the 4/11 enforceable milestone for the final document and that the delay from the 1/17 date may result in changes to the schedule.
- Revised TM 01-10 (Demo 1 Soil Report) - EPA comments to be provided 01/28. DEP comments to be provided 02/08.
- Demo 1 Soil PSI Workplan - EPA comments expected to be provided 01/28. DEP comments to be provided 02/08.

Miscellaneous

- EPA provided specific comments on the ASR Interview summaries.
- Two Project Notes were distributed for signature at the beginning of the meeting. 1) Scopes of Work and Workplan Process and 2) HUTA2 Low-Level Explosives Sampling Workplan Addendum. For Project Note 1, Todd Borci (EPA) objected to the statement clarifying that time needed to be allowed to put the contract in process prior to asking a contractor to perform work, stating that this was understood. Statement to be crossed out for EPA/DEP signature. Project Note 2 signed as drafted.

The Guard, EPA, and MADEP had a meeting on January 31 to discuss technical issues, including the following:

Punchlist Items

#1 Snake Pond area well verification (AFCEE). Mike Jasinski to discuss with AFCEE.
#8 Sign Project Note on HUTA2 Scoping Meeting (EPA/DEP). Project note signed by MADEP. EPA did not sign, discussed further on agenda.
#9 Sign Project Note on Additional Wells in Central Impact Area (EPA/DEP). Note revised at meeting and signed by all parties.
#13 Verify location of 90MW0054 (AMEC) Location of 90MW0054 was verified by GPS. Location is accurate as portrayed on maps.
#14 Provide feedback on recommendation for MW-181 RAD analyses (EPA). AMEC to provide information on remaining sample volume and how many analyses for various alpha emitters using alpha spectroscopy can be conducted based on remaining sample volume. EPA to obtain prioritized list of alpha emitters from Idaho National Engineering Laboratory.

Munitions Survey Project Update

Ellen Iorio (Corps) provided an update on the MSP3 and HUTA tasks.

Last Week's Action Items. 1) HUTA2 Update was completed and emailed with other updates. 2) J Range Polygon scheduling update was emailed. 3) Working on write-up regarding potential additional areas of investigation on the J Ranges. To provide summary, revised grid maps and numbering system next week.
AirMag. AirMag Workplan conditionally approved. Comment resolution scheduled for 2/7. Excavation of anomalies to begin on 2/11. Order of excavation will be discussed with agencies prior to beginning work.
HUTA2. Transects 1&5 -QA magnetometer survey, to be completed with Nick Iaiennaro (ACE), is pending. Transect 2 - Continuing excavation of anomalies - 14 grids completed. BIP of low order 4.2" mortar scheduled for today. Transect 3 - Continuing excavation of anomalies - 3 grids completed. Transect 4 - Continuing excavation of anomalies - 8 grids completed. 66mm Mortar and low impact training round are scheduled to be BIPed.
J Range Polygons. Excavation of J-1 Range Polygons 1-5 that require notification to the town of Sandwich will commence Monday (02/04). J-2 Range Polygons 17-35 investigation will follow. Tetra Tech is building blast shields to utilize during excavations to increase safety. BIPs of 12 items are scheduled today, including 9 - 30MM Projectiles HEI, 1 - 3.5" Rocket HEAT M28, 1 - 66MM HEAT Rocket Motor, 1 - 60MM Mortar HE M49. Known burials at the polygons include J-1 Range Polygons 10, 14, 15; J-2 Polygons 1, 4, 6 (A,B,C,D,E) and 14-15. The "burial" polygons to be investigated further after polygons which required the notification.

- Tina Dolen (IAGWSPO) to talk to Sandwich Town Administrator to clarify if he would prefer to be notified of BIPs in the SE Ranges even when the frag radius from the BIP does not extend into the buffer zone (as a courtesy).

Eastern MSP. ROA approved 1/28. Todd Borci to review Workplan and provide approval to begin grubbing and establishing grids, potentially today. Work tentatively scheduled to begin 2/11, pending receipt of approval.
Scar Site. ROA submitted on 1/21.
U Range. ROA submitted on 1/21. Waiting on ROA and Workplan approval.
BA-1 Disposal Site. No activity. Electron tube formerly observed to have an oily liquid was found empty. A wipe sample (using hexane as a solvent) was collected of the inside of the tube. Wipe sample to be analyzed for PCBs; results expected 02/06.
Contained Detonation Chamber. Gina Tyo (ACE) indicated that repairs had been made to the door of the CDC. Contractors were scheduled to dispense of the stockpiled ordnance in the CDC on 2/11-2/26. Nick Iaiennaro is compiling a list of items that were designated to be too big to put in the chamber, to see if either by splitting or other means some of the items could be detonated in the chamber. List to be provided to Todd Borci.

Summary of Action Items

- Provide List of Items too large to be placed in CDC to Todd Borci.
- EPA to provide approval for clearing and grubbing at Eastern MSP and U Range sites.

Demo 1 Area Additional Delineation

- Karen Wilson (IAGWSPO) indicated that Hanni Dinkeloo (Natural Heritage) had provided written approval for installation of the D1P-9 and two wing wells. The ROA for the other wells has been prepared; it can be submitted pending results of first wells and any adjustments in the well locations.
- UXO clearance for the road is expected to commence by 2/11; currently resources are focused on clearing wells pads in the Central Impact Area.
- A revised schedule for the Demo 1 plume has been sent out. To be discussed in a 2/04 chorus call at 3 pm.
- Mike Nelson to replace Hanni Dinkeloo for approval of 2nd ROA.

Bourne ZOCs and MW-84

Marc Grant led discussion on Bourne ZOCs relative to MW-84.

- AMEC's plan was to develop particle tracks from MW-80 and MW-84 to determine if detections at these wells track into the Bourne wells. Modeling would be done using the AMEC model (a modified version of the USGS model based on site-specific water levels) under pumping scenarios for both YR2000 and YR2020. As a result, the "ZOC" developed by the AMEC model would be slightly different than the approved ZOCs for the wells as modeled by USGS.
- Len Pinaud (MADEP) pointed out that the Zone II is a specific zone (180 days at maximum pumping rate) approved for the wells. The ZOC for the wells is based on a zone of contribution using the approved pumping rate. It would be important to model the backtracks using the official Zone II parameters. Ben Gregson (IAGWSPO) pointed out that there were no officially approved ZOCs just Zone IIs.
- AMEC to develop particle tracks based on USGS model used to develop approved Zone IIs with both the 2000 and 2020 pumping rates. Also to perform modeling with AMEC model for both pumping rates. Plan view and vertical sections to be presented.
- Todd Borci (EPA) pointed out that for the IART presentation, it should be emphasized that analyses to date show no detections of perchlorate or explosives in Bourne supply and sentry wells. The Guard is relying on the analytical data (quarterly sampling for explosives and perchlorate), not the modeling, to determine that there is not impact to the Bourne wells.
- Marc Grant (AMEC) pointed out that quarterly sampling for perchlorate is being performed for the Bourne supply wells but not for the Bourne sentry wells. Mr. Borci recommended that Sentry well 97-5, at least, should be on the quarterly sampling schedule, as this was the well downgradient of MW-84.
- Ben Gregson to talk to Hap Gonser (JPO) to determine if perchlorate is included in parameter list for the water supply wells. Area Water Districts to be included in discussions relative to routine sampling for perchlorate, as requested by Dave Williams (MDPH).

Project Notes

Two Project Notes prepared by the Corps were drafted for approval by the agencies:

- The Central Impact Area Additional Delineation Wells - This note was prepared to document agreed on locations for additional delineation wells being installed beginning 2/11 at locations in and downgradient of the Central Impact Area. EPA requested that only the wells with set locations be documented in the project note. MADEP/Corps requested that the following wells CIAP-11, -12, -13, -14, -18, -20 be included to show the agreed upon logic that would be used to finalize the well location (CIAP-13, -14, -18, -20) and to show the evolution of locations for CIAP-11 and -12. Len Pinaud (MADEP) also requested that a rough schedule be included. Heather Sullivan (ACE) to make revisions in accordance with specific comments provided by EPA/DEP for the agencies/Guard to sign at the meeting conclusion.
- MSP3 SOW for Eastern areas, Scar Site, U Range - This Project Note was prepared to document the scope of the Workplan for the referenced MSP3 sites, as discussed in a recent scoping meeting. The Corps drafted this note so that the agencies and Guard/Corps could "be on the same page" regarding the expected scope for these sites. The Corps envisioned this as a streamlining process such that less draft revisions would be needed if the scope was formerly agreed upon by the agencies and Guard. EPA contended that a project note was not the appropriate vehicle for documenting the scoping meeting, that agreement on the work scope between the Guard and the agencies was achieved with the approval of the Workplan. In addition, the necessary time taken to review these notes was a

burden on the agencies and did not make the process more efficient from their viewpoint. The EPA maintained that Project Notes should be limited for use to document agreements between the Guard and the agencies, not to document the process. Emailed meeting minutes were the more appropriate vehicle to address interim steps within the process. Therefore, the EPA would not sign this Project Note. MADEP was in agreement that documentation of the decision making process was a useful exercise and signed the Project Note. Considerable discussion ensued among the Guard, the Corps, MADEP and EPA regarding the function and utility of a Project Note. Agreement was not reached. At the conclusion of the discussion, CPT Meyer (IAGWSPO) reiterated the Guard's position, stating that it is important to document the thought process along the development of the project, because months can be (have been) spent "going in the wrong direction" based on misperceptions of the EPA's requests. The Guard would like to make sure that the project "goes in the right direction" (the EPAs intention and the Guard's direction are aligned) such that funds are utilized cost-effectively. An after meeting was scheduled for the 2/07 Tech meeting to resolve ground rules for the Project Note.

Miscellaneous

- Todd Borci (EPA) informed the Corps that his 12/20/01 email had provided approval to develop detailed Workplans for Barrage Rocket and other MSP3 sites.
- Ellen Iorio (ACE) stressed that comments on MSP3 and Scar Workplans were needed ASAP in order that enforceable milestones for these projects be met. Mr. Borci indicated that appropriately documented extension requests should be provided in writing to EPA and would be considered. Comments on Workplans expected to be provided 2/06. Approval letter for HUTA2 Workplan and AirMag Report MORs would be emailed.
- EPA to respond to letter from Guard regarding pesticide/PCB results in groundwater; wherein the Guard is proposing to forego further routine analysis of pesticides and PCBs in groundwater. Response from EPA to be added as a punchlist item for 2/14.
- Len Pinaud requested that documents listed on the schedule match the name provided on the cover of the document.
- Tech Memo 99-5 (Background Groundwater). No decision offered by EPA regarding way to proceed in finalizing/addressing.
- TM 01-14 Gun and Mortar Firing Positions Report. Based on after meeting on Gun and Mortar Workplan, DEP to provide comment on Revised Draft Report.
- TM 01-16 J1J3L Additional Delineation Report - MADEP will draft letter stating that comment will be held on this report pending revision or superceding comprehensive report.
- J-2 Range Draft Report - DEP to evaluate whether to provide comment on this combined Report/Workplan.

2. SUMMARY OF DATA RECEIVED

Validated data were received during December for Sample Delivery Groups (SDGs) 107057, 107097, 107144, 107151, AO3011, AO3012, AO3013, AO3014, AO3015, AO3018, AO3018, AO3019, AO3020, AO3021, AO3022, AO3024, AO3025, AO3026, AO3028, AO3029, AO3030, AO3036, AO3051, AO3071, AO3072, AO3073, AO3074, AO3075, AO3076, AO3087, AO3088, AO3089, AO3090, AO3091, CA3002, CA3003, CA3004, CA3005, CA3008, CA3010, CA3011, CA3012, CA3013, CA3014, CA3015, CEI029, CEI030, CEI032, CEI034, CEI035, and CEI036. These SDGs contain results for 156 groundwater samples from municipal wells, monitoring wells and drive points beneath Snake Pond; 52 groundwater profile samples from Jacob's well 90MW0105, MW-131, MW-173, MW-176, MW-177, and MW-178; 6 soil boring samples from B-

29; 302 soil grid samples from J-1 Range, J-2 Range, J-3 Range, L Range, KD Range, Former H Range, GA/GB Range, Demo Area 1, Falmouth Water Tower, John's Pond, Crane Management Area #1 and #2, Central Impact Area sites; 21 crater grab samples from Demo Area 1 sites; 32 crater grid samples from J-1 Range and J-2 Range sites; 4 surface water samples from Snake Pond; 2 process water samples from the FS-12 treatment system influent and effluent; 2 filler samples; 5 gauze wipe samples and 6 rock samples from the KD Range; and 43 soil samples from soil washing piles at the RRA containment pad.

Validated Data

Figures 1 through 8 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 E200.8, 300.0, 350.2M, 353M, 365.2, CYAN, IM40MB, and IM40HG
- Figure 3 shows the results of Volatile Organic Compound (VOC) analyses by methods OC21V, 504, and 8021W, exclusive of chloroform detections
- Figure 4 shows the results of Volatile Organic Compound (VOC) analyses by method OC21V, only detections of chloroform
- Figure 5 shows the results of Semi-Volatile Organic Compound (SVOC) analyses by methods OC21B and SW8270, exclusive of detections of bis (2-ethylhexyl) phthalate (BEHP)
- Figure 6 shows the results of Semi-Volatile Organic Compound (SVOC) analyses by methods OC21B and SW8270, only detections of BEHP
- Figure 7 shows the results of Pesticide (method OL21P) and Herbicide (method 8151) analyses
- Figure 8 shows the results of Perchlorate analysis by method E314.0

The concentrations from these analyses are depicted in Figures 1-7 compared to Maximum Contaminant Levels (MCLs) or Health Advisories (HAs) published by EPA for drinking water. The concentrations from Perchlorate analyses are depicted in Figure 8 compared to an EPA Limit. A red circle is used to depict a well where the concentration of one or more analytes was greater than or equal to (GTE) the lowest MCL, HA, or EPA Limit for the analyte(s). A yellow circle is used to depict a well where the concentration of all analytes was less than (LT) the lowest MCL, HA, or EPA Limit. 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, HA, or EPA Limit, sorted by analytical method and analyte, since 1997.

There are multiple labels listed for some wells in Figures 1-8, 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/EPA Limit. 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 1-8 depict water table contours. Groundwater generally moves perpendicular to these contours, starting at the center of the 70-foot contour (the top of the mound) and moving radially outward. The rate of vertical groundwater flow deeper into the aquifer slows as groundwater moves away from the mound.

The results presented in Figures 1-8 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/EPA Limit 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; the minor differences are mentioned in the following paragraphs. There are significant differences between historical and current exceedances of drinking water criteria for Metals and SVOCs, as described further below. There is no historical data available for Perchlorate.

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, 73, 76, 77, and 114);
- the Impact Area and CS-19 (wells 58MW0001, 0002, 0009E, 0011D, 0016B, 0016C, 0018A and 0018B; and wells 1, 2, 23, 25, 37, 38, 40, 85, 86, 87, 88, 89, 90, 91, 93, 95, 98, 99, 100, 101, 105, 107, 111, and 113); and
- J Ranges and southeast of the J Ranges (wells 58, 132, 147, 153, 163, 164, 165, 166, 171 and wells 90MW0022 and 90WT0013).

Exceedances of drinking water criteria were measured for 2,4,6-trinitrotoluene (TNT) at Demo Area 1 (wells 19S, 31S, 31M, and 31D), and for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) at all of the locations listed above. One of the exceedance wells, 90WT0013, has had no detectable RDX in the last seven sample rounds (1/99 to 09/01).

Demo Area 1 has a single well-defined source area and extent of contamination. The estimated extent of RDX exceeding the HA at Demo Area 1 based on the most recent groundwater measurements is indicated by a magenta concentration contour line on Figure 1 and the inset.

CS-19 is a site located in the Impact Area. Portions of CS-19 are currently under investigation by the Air Force Center for Environmental Excellence (AFCEE) under the Superfund program. Other portions of CS-19, and the remainder of the Impact Area, are under investigation by the National Guard Bureau. RDX has been measured in groundwater emanating from both CS-19 and the Impact Area. A magenta concentration contour line is used in Figure 1 and the inset to show the extent of RDX exceeding the HA in these areas. This extent is based on samples from monitoring wells and samples collected during the drilling process (“profile” samples). This extent also considers non-validated data, where the results have been confirmed using Photo Diode Array (PDA). Additional information regarding PDA is provided below under the heading “Rush (Non-Validated) Data”. Currently it appears there are multiple sources of RDX in the Impact Area, including CS-19.

Concentration contours will be prepared for other areas, and refined for the above areas, when sufficient data are available. Studies are currently underway to better delineate the extent of contaminants in the Impact Area, which may include several separate sources. Studies are also underway at Demo 1 and the J Ranges and southeast of the J Ranges to evaluate the sources and extent of contaminants.

Figure 2: Metals in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for metals are scattered throughout the study area. Where two or more rounds of sampling data are available, the exceedances generally have not been replicated in consecutive sampling rounds. The exceedances have been measured for antimony, arsenic, cadmium, chromium, lead, molybdenum, sodium, thallium and zinc. None of the 11 antimony exceedances were repeated in consecutive sampling rounds, and only one exceedance (well 50M1) was measured in year 2000 results. Arsenic (in well 7M1), cadmium (52M3), and chromium (7M1) each had one exceedance in a single sampling round in August-September 1999. One of three lead exceedances (ASP well) was repeated in another sampling round and neither of the other two lead exceedances (wells 2S and 7M1) was measured in year 2000 results. Thirteen of the 41 molybdenum exceedances were repeated in consecutive sampling rounds (wells 2S, 2D, 13D, 16D, 46M2, 52D, 52M3, 53M1, 53D, 54M2, 54S, 55D, and 57S). Molybdenum concentrations declined in 12 of these 13 wells. Eight molybdenum exceedances (wells 13D, 16D, 45S, 52D, 53M1, 57S, 57M2, and 81D) were observed in year 2000 results. Two molybdenum exceedances (well 16D and 52D) were observed in year 2001 results. Six of the 16 sodium exceedances were repeated in consecutive sampling rounds (wells 2S, 46S, 57M2, 57M1, 145S, and SDW261160). Five wells (90WT0010, 21S, 46S, 57M1, and 57M2) had sodium exceedances in the year 2000 results; three wells (144S, 145S and ASP) had exceedances in the year 2001 results. Seven of the 62 thallium exceedances were repeated in consecutive sampling rounds (wells 7M1, 7M2, 47M2, 52S, 52D, 54S, and 54M1). Twenty-two wells (2D, 3D, 35S, 39M1, 45S, 46M1, 47M3, 47M2, 48M3, 48D, 49M3, 50M1, 52S, 54S, 56S, 56M3, 57M2, 58S, 64M1, 73S, 83S, and 127S) had thallium exceedances in the year 2000 results; three wells (94M2, 132S, 150S) had thallium exceedances in the year 2001 results. Zinc exceeded the HA in seven 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 nine metals exceeding drinking water criteria, only molybdenum is potentially associated with the site. The population characteristics of the remaining eight 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 three general areas: CS-10 (wells 03MW0007A, 03MW0014A, and 03MW0020), LF-1 (well 27MW0017B), and FS-12 (wells MW-45S, 90MW0003, and ECMWSNP02D). CS-10, LF-1, and FS-12 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, for vinyl chloride at LF-1, and for toluene, 1,2-dichloroethane, and ethylene dibromide (EDB) at FS-12. These compounds are believed to be

associated with the sites under investigation by AFCEE. Detections of chloroform are presented separately in Figure 4. Figure 4 will be updated semiannually and included only in the January and July Monthly Progress Reports.

Figure 4: Chloroform in Groundwater Compared to MCLs

Chloroform has been widely detected in groundwater across the Upper Cape as stated in a joint press release from USEPA, MADEP, IRP, and the Joint Programs Office. The Cape Cod Commission (2001) in their review of public water supply wells for 1999 found greater than 75% contained chloroform with an average concentration of 4.7 ug/L. The IRP has concluded chloroform is not the result of Air Force activities. A detailed discussion of the presence of chloroform is provided in the Final Central Impact Area Groundwater Report (06/01). To date, the source of the chloroform in the Upper Cape groundwater has not been identified. This figure, presenting only chloroform detections will be updated semiannually and included only in the January and July Monthly Progress Reports.

Figure 5: 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 two locations in FS-12 (wells 45S and 90MW0003) which had exceedances for naphthalene, and well 41M1 which had an estimated level of 2,6-dinitrotoluene (DNT) that is equal to the HA. Detections of BEHP are presented separately in Figure 6. Figure 6 will be updated semiannually and included only in the January and July Monthly Progress Reports.

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. The 2,6-DNT detection at well 41M1 was in the second sampling round, and samples from this well did not have 2,6-DNT detected by either the SVOC method or the explosive method in the first, third, fourth, or fifth sampling rounds.

Figure 6: BEHP in Groundwater Compared to MCLs

Exceedances of drinking water criteria for bis (2-ethylhexyl) phthalate (BEHP) are scattered throughout the study area. BEHP is believed to be largely an artifact of the investigation methods, introduced to the samples during collection or analysis. However, the potential that some of the detections of BEHP are result of activities conducted at MMR has not been ruled out.

A detailed discussion of the presence of BEHP is provided in the Draft Completion of Work Report (7/98) and subsequent responses to comments. The theory that BEHP mostly occurs as an artifact, and is not really present in the aquifer, is supported by the results of subsequent sampling rounds that show much lower levels of the chemical after additional precautions were taken to prevent cross-contamination during sample collection and analysis. Only three locations (out of 75) 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). Subsequent sampling rounds at each of these three locations

have had results below the MCL. Three wells (49S, 57M2, and 84D) have had a BEHP exceedance in the year 2000 results. Seven wells (28M1, 142M1, 142M2, 146M1, 157D, 168M1, 168M2) have had a BEHP exceedance in the year 2001 results. This figure, presenting only BEHP detections will be updated semiannually and included only in the January and July Monthly Progress Reports.

Figure 7: Herbicides and Pesticides in Groundwater Compared to MCLs/HAs

There was one exceedance of drinking water criteria for 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 has been revised to include an explanation of the hydrocarbon interference and the potential for false positives.

There was one exceedance of drinking water criteria for herbicides, at well 41M1. This response well was installed downgradient of the Central Impact Area, as indicated above (see discussion for Figure 4). The exceedance was for the herbicide pentachlorophenol in a sample collected in May 2000. There were no detections of this compound in the three previous sampling rounds in 1999, nor in the subsequent sampling rounds in 2000.

Figure 8: Perchlorate in Groundwater Compared to EPA Limit

Sampling and analysis of groundwater for perchlorate was initiated at the end of the year 2000 as part of the groundwater study program at Camp Edwards. EPA established a limit for perchlorate of 1.5 parts per billion (ppb) specific to Camp Edwards. At present, there are 41 exceedances of the limit of 1.5 ppb for perchlorate.

Exceedances of drinking water criteria for perchlorate are indicated in five general areas:

- Demo Area 1 (wells 19, 31, 34, 35, 73, 75, 76, 77, 78, 114, 129, 139, 165, and 172);
- Central Impact Area (wells 7, 91, 93, 99, 100, 101, and 105);
- J Ranges and southeast of the J Ranges (wells 125, 127, 128, 130, 132, 158, and 163, 166, and wells 90MW0022 and 90MW0054); and
- Northwest of Impact Area (well 66).
- West of Impact Area (well 80)

<u>Rush (Non-Validated) Data</u>

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 typically conducted in this timeframe. Other types of analyses may be rushed depending on the proposed use of the data. The rush data have not

yet been 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 includes the following detections:

- Soil from BIP post-excavation grid sample HDJ3200003RPE2 had a detection of 2A-DNT that was confirmed by PDA spectra.

- Groundwater samples from MW-34M1 (Demo Area 1), MW-78M2 (Demo Area 1), MW-94M2, M1 and duplicate (Central Impact Area), MW-114M1 (Demo Area 1), MW-129M1, M2 (Demo Area 1), MW-157M2 (J-3 Range), and MW-171M2 (Snake Pond) had detections of RDX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from 58MW0007B (CS-19), 90MW0101A (FS-12) had detections of RDX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from 58MW0020B (CS-19) had a detection of RDX that was confirmed by PDA spectra. This is the first time 58MW0020B has been sampled

- Groundwater samples from MW-160S (Demo Area 2) had a detection of RDX that was confirmed by PDA spectra. This is the first time RDX has been detected in this well.

- Groundwater samples from 90MP0059C (FS-12) had a detection of HMX that was confirmed by PDA spectra. The detection was similar to previous sampling rounds.

- Groundwater samples from 58MW0001 (CS-19) had detections of RDX and HMX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds except that this is the first time method 8330NX was used for 58MW0001.

- Groundwater samples from MW-01S (Central Impact Area), MW-164M2 (J-1 Range), MW-166M2, M3 (J-1 Range) had detections of RDX and HMX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from MW-161S (Demo Area 2) and MW-166M1 (J-1 Range) had detections of RDX and HMX that were confirmed by PDA spectra. Although RDX has been detected in previous sampling rounds, this is the first time HMX has been detected in these wells.

- Groundwater samples from MW-76M1, S (Demo Area 1) had detections of RDX, HMX, and MNX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from 90WT0013 (FS-12) had detections of 2,6-DNT, 2A-DNT, 2-nitrotoluene, 4-nitrotoluene, and RDX. The detections of 2,6-DNT and RDX were confirmed by PDA spectra, but with interference. Of these five compounds, only RDX has been a valid detection in previous sampling rounds.

- Groundwater samples from MW-19S (Demo Area 1) had detections of TNT, 2A-DNT, 4A-DNT, RDX, HMX, MNX, DNX, and TNX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from MW-31S (Demo Area 1) had detections of TNT, 2,4-DNT, 2A-DNT, 4A-DNT, RDX, HMX, and MNX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from MW-31M (Demo Area 1) had detections of 2A-DNT and RDX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from MW-73S (Demo 1) had detections of 2A-DNT, 4A-DNT, RDX, HMX, and MNX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds except that this is the first time method 8330NX was used in analysis of samples from this well and the first time MNX was detected.

- Groundwater samples from MW-75M2 (Demo Area 1) had detections of 2-nitrotoluene and RDX that were confirmed by PDA spectra. The detection of 2-nitrotoluene was confirmed by PDA spectra but with interference. The detections were similar to previous sampling rounds except that 2-nitrotoluene has never been a valid detection in MW-75M2.

- Groundwater samples from MW-76M2 (Demo Area 1) had detections of 2-nitrotoluene, RDX, HMX, and MNX that were confirmed by PDA spectra. The detection of 2-nitrotoluene was confirmed by PDA spectra but with interference. The detections were similar to previous sampling rounds except that 2-nitrotoluene has never been a valid detection in MW-76M2.

- Groundwater samples from MW-77M2 (Demo Area 1) had detections of 4A-DNT, RDX, HMX, and MNX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from MW-91S (Central Impact Area) had detections of 2A-DNT, 4A-DNT, RDX, and HMX that were confirmed by PDA spectra. The detections were similar to previous sampling rounds.

- Groundwater samples from MW-114M2 (Demo Area 1) had detections of 2-nitrotoluene, 4A-DNT, RDX, and HMX. The detections were confirmed by PDA spectra but with interference in the PDA spectra of 2-nitrotoluene. These results are similar to previous rounds except that 2-nitrotoluene has never been a valid detection.

- Groundwater samples from MW-187D (J-1 Range) had detections of RDX, nitroglycerin, and picric acid. The detection of RDX was confirmed by PDA but with interference. This is the first time MW-187D has been sampled.

- Groundwater profile samples from MW-194 (J3P-13) had detections of RDX (3 intervals), picric acid (2 intervals), bromochloromethane (1 interval), chloroform (4 intervals), and toluene (4 intervals). The detections of RDX were confirmed by PDA spectra. The detections of picric acid were not confirmed by PDA spectra, but with interference.

- Groundwater profile samples from MW-200 (CIAP-8) had detections of RDX (1 interval), nitroglycerin (2 intervals), and picric acid (1 interval). The detection of RDX was confirmed by PDA spectra but with interference

- Groundwater profile samples from MW-201 (CIAP-10) had detections of 2,6-DNT (2 intervals), 2-nitrotoluene (2 intervals), RDX (9 intervals), nitroglycerin (2 intervals), and picric acid (2 intervals). The detections of 2,6-DNT and four detections of RDX were confirmed by PDA spectra. The detections of 2-nitrotoluene were confirmed by PDA spectra, but with interference. Five detections of RDX were not confirmed by PDA spectra, but with interference.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

Weekly Progress Update for December 17 – December 21, 2001	01/04/02
Weekly Progress Update for December 24 – December 28, 2001	01/04/02
December 2001 Monthly Progress Report	01/10/02
Draft Post-Screening Investigation Work Plan Demo 1 Soil Operable Unit	01/10/02
Weekly Progress Update for December 31, 2001 – January 4, 2002	01/11/02
Weekly Progress Update for January 7 – January 11, 2002	01/17/02
Draft Supplemental Phase IIb Work Plan	01/17/02
Draft TM 02-1 Former A, Former K, and Demo 2 Report	01/22/02
Draft Summary Report – August 2000 UXO Detonations	01/23/02
Weekly Progress Update for January 14 – January 18, 2002	01/25/02

4. SCHEDULED ACTIONS

Figure 9 provides a Gantt chart updated to reflect progress and proposed work. Activities scheduled for February and early March include:

- Start Final Demo Area 1 Soil Report revision
- Continue Central Impact Area Draft Soil Report revision
- Finish Central Impact Area Targets Final Workplan
- Continue HUTA 1 Draft Report revision
- Continue HUTA 2 Site #1 Draft Report preparation
- Start HUTA 2 Site #2 Draft Report preparation
- Start HUTA 2 Site #3 Draft Report preparation
- Start HUTA 2 Site #4 Draft Report preparation
- Start HUTA 2 Site #5 Draft Report preparation
- Finish J-2 Range Final Report
- Finish J-1/J-3/L Range Additional Delineation Report
- Continue J-1/J-3/L Additional Delineation Workplan #2 revision
- Finish Gun/Mortar Draft Additional Characterization Workplan
- Continue Former A/K/Demo 2 Draft Report revision

- Continue Revised MSP Phase I Draft Report revision
- Finish AirMag Target Lists Final Report
- Continue Demo 1 Validation Draft Report revision
- Finish Slit Trench Validation Final Report
- Finish J-1 Range Vehicle Removal Final Report
- Continue ASP Geophysics Draft Report revision
- Continue Former K Range Draft Report revision
- Continue Former A Range Draft Report revision
- Finish Succonsette Pond Final Report
- Continue Demo Area 2 Draft Report revision
- Continue Demo 1 Area Soil Feasibility Study Screening Draft Report revision
- Continue Demo Area 1 Soil Post-Screening Investigation Draft Workplan revision
- Continue Demo 1 Area Groundwater Feasibility Study Draft Report revision
- Continue UXO Feasibility Study Screening Draft Report revision
- Start Demo Area 1 Groundwater Draft Remedy Selection Plan preparation

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume will be conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit. A comment resolution meeting for EPA and MADEP comments on the Draft Feasibility Study for the Groundwater Operable Unit was conducted on January 10, 2002. The Draft Post-Screening Investigation Work Plan for the Demo 1 Soil Operable Unit was submitted on January 9, 2002 and includes additional surface soil sampling and investigation of geophysical anomalies. Proposed monitoring well locations have been scoped by the Guard and approved by the agencies for delineation of the groundwater plume. Road building for the first proposed monitoring well, D1P-9, is scheduled to commence the second week of February. Subsequent locations have been proposed and the next location will be selected and approved based on the profile results at D1P-9.

TABLE 2
SAMPLING PROGRESS
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
J2.A.T14A.001.1.0	J2.T14A.001.R	01/30/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.001.2.0	J2.T14A.001.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.001.3.0	J2.T14A.001.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.002.1.0	J2.T14A.002.R	01/30/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.002.2.0	J2.T14A.002.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.002.3.0	J2.T14A.002.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.003.1.0	J2.T14A.003.R	01/30/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.003.2.0	J2.T14A.003.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.003.3.0	J2.T14A.003.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.004.1.0	J2.T14A.004.R	01/30/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.004.2.0	J2.T14A.004.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T14A.004.3.0	J2.T14A.004.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T16.001.1.0	J2.T16.001.R	01/30/2002	CRATER GRID	0.75	1.00		
J2.A.T16.001.2.0	J2.T16.001.R	01/31/2002	CRATER GRID	0.75	1.00		
J2.A.T16.001.3.0	J2.T16.001.R	01/31/2002	CRATER GRID	0.75	1.00		
J2.A.T16.002.1.0	J2.T16.002.R	01/30/2002	CRATER GRID	1.00	1.25		
J2.A.T16.002.2.0	J2.T16.002.R	01/31/2002	CRATER GRID	1.00	1.25		
J2.A.T16.002.3.0	J2.T16.002.R	01/31/2002	CRATER GRID	1.00	1.25		
J2.A.T16.003.1.0	J2.T16.003.R	01/30/2002	CRATER GRID	0.75	1.00		
J2.A.T16.003.2.0	J2.T16.003.R	01/31/2002	CRATER GRID	0.75	1.00		
J2.A.T16.003.3.0	J2.T16.003.R	01/31/2002	CRATER GRID	0.75	1.00		
J2.A.T16.004.1.0	J2.T16.004.R	01/30/2002	CRATER GRID	0.50	0.75		
J2.A.T16.004.2.0	J2.T16.004.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T16.004.3.0	J2.T16.004.R	01/31/2002	CRATER GRID	0.50	0.75		
J2.A.T16.005.1.0	J2.T16.005.R	01/30/2002	CRATER GRID	1.00	1.25		
J2.A.T16.005.2.0	J2.T16.005.R	01/31/2002	CRATER GRID	1.00	1.25		
J2.A.T16.005.3.0	J2.T16.005.R	01/31/2002	CRATER GRID	1.00	1.25		
J2.A.T16.006.1.0	J2.T16.006.R	01/30/2002	CRATER GRID	1.00	1.25		
J2.A.T16.006.4.0	J2.T16.006.R	01/31/2002	CRATER GRID	1.00	1.25		
J2.A.T16.007.1.0	J2.T16.007.R	01/30/2002	CRATER GRID	4.00	4.25		
J2.A.T16.007.2.0	J2.T16.007.R	01/31/2002	CRATER GRID	4.00	4.25		
J2.A.T16.007.3.0	J2.T16.007.R	01/31/2002	CRATER GRID	4.00	4.25		
T1.I.0Z.120.1.0	T1.0Z.120.O	01/11/2002	CRATER GRID	1.50	1.75		
T1.I.0Z.120.1.D	T1.0Z.120.O	01/11/2002	CRATER GRID	1.50	1.75		
T2.A.0D.008.1.0	T2.0D.008.R	01/25/2002	CRATER GRID	0.25	0.50		
T2.A.0D.008.2.0	T2.0D.008.R	01/25/2002	CRATER GRID	0.25	0.50		
T2.A.0D.008.3.0	T2.0D.008.R	01/25/2002	CRATER GRID	0.25	0.50		
T2.A.0E.002.1.0	T2.0E.002.R	01/25/2002	CRATER GRID	0.25	0.50		
T2.A.0E.002.2.0	T2.0E.002.R	01/25/2002	CRATER GRID	0.25	0.50		
T2.A.0E.002.3.0	T2.0E.002.R	01/25/2002	CRATER GRID	0.25	0.50		
T2.B.0H.005.3.0	T2.0H.005.O	01/29/2002	CRATER GRID	1.50	2.00		
T2.B.0H.005.4.0	T2.0H.005.O	01/29/2002	CRATER GRID	1.00	1.25		
T4.A.0E.010.1.0	T4.0E.010.R	01/29/2002	CRATER GRID	1.50	1.75		
T4.A.0E.010.2.0	T4.0E.010.R	01/31/2002	CRATER GRID	1.50	1.75		
T4.A.0E.010.3.0	T4.0E.010.R	01/31/2002	CRATER GRID	1.50	1.75		
T4.A.0E.010.3.D	T4.0E.010.R	01/31/2002	CRATER GRID	1.50	1.75		
T4.A.0F.001.1.0	T4.0F.001.R	01/30/2002	CRATER GRID	0.00	0.25		
T4.A.0F.001.2.0	T4.0F.001.R	01/31/2002	CRATER GRID	0.00	0.25		
T4.A.0F.001.3.0	T4.0F.001.R	01/31/2002	CRATER GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
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
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
T5.A.0S.015.1.0	T5.0S.015.R	01/10/2002	CRATER GRID	2.50	2.75		
T5.A.0S.015.2.0	T5.0S.015.R	01/10/2002	CRATER GRID	2.50	2.75		
T5.A.0S.015.3.0	T5.0S.015.R	01/10/2002	CRATER GRID	2.50	2.75		
T5.A.BB.013.1.0	T5.BB.013.R	01/04/2002	CRATER GRID	1.75	2.00		
T5.A.BB.013.2.0	T5.BB.013.R	01/04/2002	CRATER GRID	1.75	2.00		
T5.A.BB.013.3.0	T5.BB.013.R	01/04/2002	CRATER GRID	1.75	2.00		
T5.A.EE.012.1.0	T5.EE.012.R	01/04/2002	CRATER GRID	1.50	1.75		
T5.A.EE.012.2.0	T5.EE.012.R	01/04/2002	CRATER GRID	1.50	1.75		
T5.A.EE.012.3.0	T5.EE.012.R	01/04/2002	CRATER GRID	1.50	1.75		
T5.A.KK.012.1.0	T5.KK.012.R	01/04/2002	CRATER GRID	0.25	0.50		
T5.A.KK.012.2.0	T5.KK.012.R	01/04/2002	CRATER GRID	0.25	0.50		
T5.A.KK.012.3.0	T5.KK.012.R	01/04/2002	CRATER GRID	0.25	0.25		
27MW0011DE	FIELDQC	01/10/2002	FIELDQC	0.00	0.00		
27MW0015CE	FIELDQC	01/07/2002	FIELDQC	0.00	0.00		
27MW0017E	FIELDQC	01/08/2002	FIELDQC	0.00	0.00		
27MW2061E	FIELDQC	01/09/2002	FIELDQC	0.00	0.00		
27MW2083E	FIELDQC	01/11/2002	FIELDQC	0.00	0.00		
58MW0020BE	FIELDQC	01/15/2002	FIELDQC	0.00	0.00		
90MW0022E	FIELDQC	01/16/2002	FIELDQC	0.00	0.00		
90PZ0208E	FIELDQC	01/21/2002	FIELDQC	0.00	0.00		
G194DBT	FIELDQC	01/07/2002	FIELDQC	0.00	0.00		
G194DCT	FIELDQC	01/08/2002	FIELDQC	0.00	0.00		
G200DUE	FIELDQC	01/04/2002	FIELDQC	0.00	0.00		
G201DAE	FIELDQC	01/15/2002	FIELDQC	0.00	0.00		
G201DNE	FIELDQC	01/16/2002	FIELDQC	0.00	0.00		
G201DRE	FIELDQC	01/17/2002	FIELDQC	0.00	0.00		
G202DCE	FIELDQC	02/01/2002	FIELDQC	0.00	0.00		
HC101EJ1CAE	FIELDQC	01/29/2002	FIELDQC	0.00	0.00		
HC101EJ1CAT	FIELDQC	01/29/2002	FIELDQC	0.00	0.00		
HC101GN1CAE	FIELDQC	01/31/2002	FIELDQC	0.00	0.00		
HC101GP1BAE	FIELDQC	01/30/2002	FIELDQC	0.00	0.00		
HC101OU1AAE	FIELDQC	02/01/2002	FIELDQC	0.00	0.00		
HC102TI1BAE	FIELDQC	01/16/2002	FIELDQC	0.00	0.00		
HC102TI1BAT	FIELDQC	01/16/2002	FIELDQC	0.00	0.00		
HC102TJ1AAE	FIELDQC	01/15/2002	FIELDQC	0.00	0.00		
HDA01280201AE	FIELDQC	02/01/2002	FIELDQC	0.00	0.00		
HDGR37MM3PE3E	FIELDQC	01/17/2002	FIELDQC	0.00	0.00		
HDJ1200182RPE3E	FIELDQC	01/14/2002	FIELDQC	0.00	0.00		
HDJ3200001RPEE	FIELDQC	01/10/2002	FIELDQC	0.00	0.00		
HDP19105MMPE1E	FIELDQC	01/24/2002	FIELDQC	0.00	0.00		
HDT981MMPE3E	FIELDQC	01/18/2002	FIELDQC	0.00	0.00		
LRMW0003T	FIELDQC	01/14/2002	FIELDQC	0.00	0.00		
USGSDLOGE	FIELDQC	01/09/2002	FIELDQC	0.00	0.00		
USGSDLOGT	FIELDQC	01/09/2002	FIELDQC	0.00	0.00		
W167M3T	FIELDQC	01/23/2002	FIELDQC	0.00	0.00		
W170M1AT	FIELDQC	01/18/2002	FIELDQC	0.00	0.00		
W185M2T	FIELDQC	01/17/2002	FIELDQC	0.00	0.00		
W187M1T	FIELDQC	01/24/2002	FIELDQC	0.00	0.00		
W188M1T	FIELDQC	01/30/2002	FIELDQC	0.00	0.00		

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TABLE 2
SAMPLING PROGRESS
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W189ST	FIELDQC	02/01/2002	FIELDQC	0.00	0.00		
W190M1T	FIELDQC	01/31/2002	FIELDQC	0.00	0.00		
W191M1T	FIELDQC	01/25/2002	FIELDQC	0.00	0.00		
W191SST	FIELDQC	01/28/2002	FIELDQC	0.00	0.00		
W35SSF	FIELDQC	01/11/2002	FIELDQC	0.00	0.00		
W35SST	FIELDQC	01/11/2002	FIELDQC	0.00	0.00		
BA.0.0011	BA.0.0011	01/30/2002	GAUZE WIPE	0.00	0.00		
T2.B.0H.005.2.0	T2.0H.005.O	01/29/2002	GAUZE WIPE	1.00	1.00		
03MW0707	03MW0707	01/08/2002	GROUNDWATER	0.00	80.00	4.00	14.00
27MW0011C	27MW0011C	01/10/2002	GROUNDWATER	114.00	119.00	24.80	29.80
27MW0011D	27MW0011D	01/10/2002	GROUNDWATER	105.00	111.00	16.60	22.60
27MW0015A	27MW0015A	01/07/2002	GROUNDWATER	129.00	134.00	0.00	10.00
27MW0015C	27MW0015C	01/07/2002	GROUNDWATER	68.00	78.00	52.20	57.20
27MW0016B	27MW0016B	01/09/2002	GROUNDWATER	100.00	105.00	27.70	32.70
27MW0016C	27MW0016C	01/09/2002	GROUNDWATER	78.00	83.00	6.30	11.30
27MW0017A	27MW0017A	01/08/2002	GROUNDWATER	134.00	139.00	65.00	70.00
27MW0017B	27MW0017B	01/09/2002	GROUNDWATER	104.00	109.00	21.00	26.00
27MW0031B	27MW0031B	01/03/2002	GROUNDWATER				
27MW0108A	27MW0108A	01/09/2002	GROUNDWATER	222.00	227.00	80.60	85.60
27MW0705	27MW0705	01/08/2002	GROUNDWATER	74.00	84.00	0.00	0.00
27MW2061	27MW2061	01/09/2002	GROUNDWATER	66.00	76.00	0.00	2.30
27MW2071	27MW2071	01/08/2002	GROUNDWATER	72.00	82.00	0.00	3.00
27MW2082	27MW2082	01/10/2002	GROUNDWATER	131.00	136.00	49.60	54.60
27MW2083	27MW2083	01/11/2002	GROUNDWATER	123.00	128.00	42.40	47.40
27MW2084	27MW2084	01/10/2002	GROUNDWATER	133.00	138.00	47.40	52.40
27MW2085	27MW2085	01/10/2002	GROUNDWATER	152.00	157.00	53.30	58.30
4036000-01G	4036000-01G	01/30/2002	GROUNDWATER				
4036000-03G	4036000-03G	01/30/2002	GROUNDWATER				
4036000-04G	4036000-04G	01/30/2002	GROUNDWATER				
4036000-06G	4036000-06G	01/30/2002	GROUNDWATER				
4261000-02G	4261000-02G	01/29/2002	GROUNDWATER				
4261000-04G	4261000-04G	01/29/2002	GROUNDWATER				
4261000-06G	4261000-06G	01/29/2002	GROUNDWATER				
4261000-09G	4261000-09G	01/29/2002	GROUNDWATER				
4261000-10G	4261000-10G	01/29/2002	GROUNDWATER				
4261000-11G	4261000-11G	01/29/2002	GROUNDWATER				
4261000-11GD	4261000-11G	01/29/2002	GROUNDWATER				
58MW0001	58MW0001	01/11/2002	GROUNDWATER	121.00	126.00	3.60	8.60
58MW0001	58MW0001	01/11/2002	GROUNDWATER	122.00	127.00	3.60	8.60
58MW0007B	58MW0007B	01/11/2002	GROUNDWATER	187.00	192.00	49.00	54.00
58MW0007B	58MW0007B	01/11/2002	GROUNDWATER	187.00	192.00	49.00	54.00
58MW0020A	58MW0020A	01/16/2002	GROUNDWATER		248.00		88.00
58MW0020B	58MW0020B	01/15/2002	GROUNDWATER		205.00		43.00
90MP0059A	90MP0059A	01/21/2002	GROUNDWATER	145.00	148.00		
90MP0059B	90MP0059B	01/21/2002	GROUNDWATER	116.00	119.00		
90MP0059C	90MP0059C	01/21/2002	GROUNDWATER	91.00	94.00		
90MW0022	90MW0022	01/15/2002	GROUNDWATER	112.00	117.00	72.79	77.79
90MW0101A	90MW0101A	01/14/2002	GROUNDWATER	112.00	117.00	106.60	111.60
90MW0102A	90MW0102A	01/15/2002	GROUNDWATER	112.00	117.00	107.10	112.10

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TABLE 2
SAMPLING PROGRESS
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
90PZ0208	90PZ0208	01/21/2002	GROUNDWATER	90.00	95.00	72.80	77.80
90WT0013	90WT0013	01/11/2002	GROUNDWATER	92.00	102.00	0.00	10.00
BHW215083B	BHW215083B	01/11/2002	GROUNDWATER	0.00	65.00	16.95	26.95
LRMW0003	LRMW0003	01/14/2002	GROUNDWATER	100.00	110.00	74.75	84.75
PPAWSPW-1	PPAWSPW-1	01/31/2002	GROUNDWATER				
PPAWSPW-2	PPAWSPW-2	01/31/2002	GROUNDWATER				
USCGANTST	USCGANTST	01/29/2002	GROUNDWATER				
W01SSA	MW-1	01/10/2002	GROUNDWATER	114.00	124.00	1.00	10.00
W07M2A	MW-7	01/10/2002	GROUNDWATER	170.00	175.00	65.00	70.00
W114M2A	MW-114	01/07/2002	GROUNDWATER	120.00	130.00	39.00	49.00
W114M2A	MW-114	01/10/2002	GROUNDWATER	120.00	130.00	39.00	49.00
W115SSA	MW-115	01/24/2002	GROUNDWATER	116.00	126.00	0.00	10.00
W134SSA	MW-134	01/23/2002	GROUNDWATER	133.00	143.00	0.00	10.00
W156SSA	MW-156	01/23/2002	GROUNDWATER	77.00	87.00	7.00	17.00
W157DDA	MW-157	01/15/2002	GROUNDWATER	209.00	219.00	199.00	209.00
W157M1A	MW-157	01/15/2002	GROUNDWATER	154.00	164.00	144.00	154.00
W157M2A	MW-157	01/14/2002	GROUNDWATER	110.00	120.00	100.00	110.00
W158M1A	MW-158	01/16/2002	GROUNDWATER	176.00	186.00	89.00	99.00
W158M2A	MW-158	01/16/2002	GROUNDWATER	124.50	134.50	37.00	47.00
W158M2D	MW-158	01/16/2002	GROUNDWATER	124.50	134.50	37.00	47.00
W158SSA	MW-158	01/16/2002	GROUNDWATER	89.00	99.00	2.00	12.00
W160SSA	MW-160	01/23/2002	GROUNDWATER	137.50	147.50	0.00	10.00
W161SSA	MW-161	01/23/2002	GROUNDWATER	145.00	155.00	6.00	16.00
W162M1A	MW-162	01/18/2002	GROUNDWATER	190.50	200.50	9.00	19.00
W162M2A	MW-162	01/18/2002	GROUNDWATER	125.00	135.00	9.00	19.00
W162M3A	MW-162	01/22/2002	GROUNDWATER	85.00	95.00	9.00	19.00
W164M1A	MW-164	01/17/2002	GROUNDWATER	227.00	237.00	9.00	19.00
W164M1A	MW-164	01/22/2002	GROUNDWATER	227.00	237.00	9.00	19.00
W164M2A	MW-164	01/17/2002	GROUNDWATER	157.00	167.00	119.00	129.00
W164M2A	MW-164	01/22/2002	GROUNDWATER	157.00	167.00	119.00	129.00
W164M3A	MW-164	01/15/2002	GROUNDWATER	117.00	127.00	49.00	59.00
W164M3A	MW-164	01/16/2002	GROUNDWATER	117.00	127.00	49.00	59.00
W164M3A	MW-164	01/22/2002	GROUNDWATER	117.00	127.00	49.00	59.00
W164M3D	MW-164	01/16/2002	GROUNDWATER	117.00	127.00	49.00	59.00
W165M2A	MW-165	01/07/2002	GROUNDWATER	124.00	134.00	46.00	56.00
W165M2A	MW-165	01/10/2002	GROUNDWATER	124.00	134.00	46.00	56.00
W166M1A	MW-166	01/16/2002	GROUNDWATER	218.00	223.00	112.00	117.00
W166M1A	MW-166	01/22/2002	GROUNDWATER	218.00	223.00	112.00	117.00
W166M2A	MW-166	01/17/2002	GROUNDWATER	150.00	160.00	44.00	54.00
W166M2A	MW-166	01/22/2002	GROUNDWATER	150.00	160.00	44.00	54.00
W166M3A	MW-166	01/17/2002	GROUNDWATER	125.00	135.00	19.00	29.00
W166M3A	MW-166	01/22/2002	GROUNDWATER	125.00	135.00	19.00	29.00
W167M3A	MW-167	01/23/2002	GROUNDWATER	100.00	110.00	21.00	31.00
W168M1A	MW-168	01/18/2002	GROUNDWATER	256.00	266.00	174.00	184.00
W168M1A	MW-186	01/24/2002	GROUNDWATER	202.00	212.00	79.50	89.50
W168M1X	MW-168	01/18/2002	GROUNDWATER	256.00	266.00	170.00	180.00
W168M2A	MW-168	01/18/2002	GROUNDWATER	198.00	208.00	116.00	126.00
W168M3A	MW-168	01/22/2002	GROUNDWATER	103.00	113.00	21.00	31.00
W168M3A	MW-168	01/22/2002	GROUNDWATER	103.00	113.00	21.00	31.00

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TABLE 2
SAMPLING PROGRESS
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W168M3D	MW-168	01/22/2002	GROUNDWATER	103.00	113.00	21.00	31.00
W170M1A	MW-170	01/18/2002	GROUNDWATER	265.00	275.00	162.00	172.00
W170M2A	MW-170	01/18/2002	GROUNDWATER	198.00	208.00	95.00	105.00
W170M2A	MW-170	01/22/2002	GROUNDWATER	198.00	208.00	95.00	105.00
W170M3A	MW-170	01/18/2002	GROUNDWATER	123.00	133.00	20.00	30.00
W173M1A	MW-173	01/25/2002	GROUNDWATER	243.00	253.00	107.20	117.20
W173M2A	MW-173	01/25/2002	GROUNDWATER	208.00	218.00	72.40	82.40
W173M3A	MW-173	01/25/2002	GROUNDWATER	188.00	198.00	52.20	62.20
W174SSA	MW-174	01/22/2002	GROUNDWATER	190.00	200.00	0.00	7.00
W175M1A	MW-175	01/28/2002	GROUNDWATER	264.00	274.00	139.25	149.25
W175M2A	MW-175	01/28/2002	GROUNDWATER	199.00	209.00	74.45	84.45
W175M3A	MW-175	01/28/2002	GROUNDWATER	162.00	167.00	37.40	42.40
W177M1A	MW-177	01/22/2002	GROUNDWATER	375.00	385.00	186.20	196.20
W177M1D	MW-177	01/22/2002	GROUNDWATER	375.00	385.00	186.20	196.20
W177M2A	MW-177	01/22/2002	GROUNDWATER	278.00	288.00	87.30	97.30
W180M1A	MW-180	01/24/2002	GROUNDWATER	300.00	310.00	139.12	149.12
W180M1A	MW-180	01/30/2002	GROUNDWATER	300.00	310.00	139.12	149.12
W180M2A	MW-180	01/25/2002	GROUNDWATER	195.00	205.00	34.50	44.50
W180M2A	MW-180	01/30/2002	GROUNDWATER	195.00	205.00	34.50	44.50
W182M1A	MW-182	01/09/2002	GROUNDWATER	295.00	305.00	124.00	134.00
W183M1A	MW-183	01/24/2002	GROUNDWATER	286.00	296.00	103.90	113.90
W183M2A	MW-183	01/24/2002	GROUNDWATER	270.00	280.00	87.90	97.90
W184M1A	MW-184	01/24/2002	GROUNDWATER	186.00	196.00	58.20	68.20
W184M2A	MW-184	01/24/2002	GROUNDWATER	126.00	136.00	0.00	10.00
W185M1A	MW-185	01/18/2002	GROUNDWATER	247.00	257.00	110.90	120.90
W185M2A	MW-185	01/17/2002	GROUNDWATER	156.00	166.00	19.50	29.50
W186M1A	MW-186	01/24/2002	GROUNDWATER	202.00	212.00	79.50	89.50
W186M2A	MW-186	01/23/2002	GROUNDWATER	182.00	192.00	59.60	69.60
W187DDA	MW-187	01/23/2002	GROUNDWATER	306.00	316.00	199.50	209.50
W187DDX	MW-187	01/23/2002	GROUNDWATER	306.00	316.00	199.50	209.50
W187M1A	MW-187	01/24/2002	GROUNDWATER	160.00	170.00	51.30	61.30
W187SSA	MW-187	01/23/2002	GROUNDWATER	103.00	113.00	0.00	10.00
W187SSA	MW-187	01/25/2002	GROUNDWATER	103.00	113.00	0.00	10.00
W188M1A	MW-188	01/30/2002	GROUNDWATER	155.00	165.00	41.10	51.10
W189SSA	MW-189	02/01/2002	GROUNDWATER	94.00	104.00	0.00	7.16
W190M1A	MW-190	01/31/2002	GROUNDWATER	145.00	155.00	44.32	54.32
W190M2A	MW-190	01/31/2002	GROUNDWATER	110.00	120.00	9.30	19.30
W191M1A	MW-191	01/25/2002	GROUNDWATER	137.00	142.00	25.20	30.20
W191M2A	MW-191	01/25/2002	GROUNDWATER	120.00	130.00	8.40	18.40
W191SSA	MW-191	01/28/2002	GROUNDWATER	106.00	116.00	0.00	10.00
W192M1A	MW-192	01/29/2002	GROUNDWATER	195.00	205.00	84.19	94.19
W192M2A	MW-192	01/29/2002	GROUNDWATER	135.00	145.00	24.20	34.20
W192M3A	MW-192	01/29/2002	GROUNDWATER	115.00	125.00	4.20	14.20
W192M3D	MW-192	01/29/2002	GROUNDWATER	115.00	125.00	4.20	14.20
W31DDA	MW-31	01/04/2002	GROUNDWATER	133.00	138.00	48.00	53.00
W31MMA	MW-31	01/04/2002	GROUNDWATER	113.00	123.00	28.00	38.00
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00
W35SSA	MW-35	01/14/2002	GROUNDWATER	84.00	94.00	0.00	10.00
W36M1A	MW-36	01/08/2002	GROUNDWATER	151.00	161.00	74.00	84.00

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OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W36M2A	MW-36	01/08/2002	GROUNDWATER	131.00	141.00	54.00	64.00
W36M2D	MW-36	01/08/2002	GROUNDWATER	131.00	141.00	54.00	64.00
W52SSA	MW-52	01/09/2002	GROUNDWATER	150.00	160.00	0.00	10.00
W70SSA	MW-70	01/02/2002	GROUNDWATER	132.00	142.00	4.00	14.00
W73SSA	MW-73	01/11/2002	GROUNDWATER	38.00	48.00	1.00	10.00
W74M1A	MW-74	01/03/2002	GROUNDWATER	170.00	180.00	76.00	86.00
W74M2A	MW-74	01/03/2002	GROUNDWATER	124.50	134.50	31.00	41.00
W74M3A	MW-74	01/03/2002	GROUNDWATER	100.00	110.00	6.00	16.00
W75M1A	MW-75	01/04/2002	GROUNDWATER	140.00	150.00	59.00	69.00
W75M2A	MW-75	01/07/2002	GROUNDWATER	115.00	125.00	34.00	44.00
W75SSA	MW-75	01/03/2002	GROUNDWATER	81.00	91.00	0.00	10.00
W76M2A	MW-76	01/07/2002	GROUNDWATER	105.00	115.00	38.00	48.00
W94M1A	MW-94	01/08/2002	GROUNDWATER	160.00	170.00	36.00	46.00
W94M1D	MW-94	01/08/2002	GROUNDWATER	160.00	170.00	36.00	46.00
W94M2A	MW-94	01/08/2002	GROUNDWATER	140.00	150.00	16.00	26.00
W94SSA	MW-94	01/07/2002	GROUNDWATER	124.00	134.00	0.00	10.00
DW010202	GAC WATER	01/02/2002	IDW	0.00	0.00		
DW011702	GAC WATER	01/17/2002	IDW	0.00	0.00		
DW012202	GAC WATER	01/22/2002	IDW	0.00	0.00		
DW012802	GAC WATER	01/28/2002	IDW	0.00	0.00		
GAC011502	GAC WATER	01/15/2002	IDW	0.00	0.00		
G194DAA	MW-194	01/07/2002	PROFILE	57.00	60.00	0.00	10.00
G194DBA	MW-194	01/07/2002	PROFILE	60.00	70.00	8.00	13.00
G194DBD	MW-194	01/07/2002	PROFILE	65.00	70.00	8.00	13.00
G194DCA	MW-194	01/08/2002	PROFILE	75.00	80.00	18.00	23.00
G194DDA	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00
G194DDD	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00
G194DEA	MW-194	01/08/2002	PROFILE	88.00	93.00	31.00	36.00
G200DOA	MW-200	01/03/2002	PROFILE	340.00	340.00	140.40	140.40
G200DPA	MW-200	01/03/2002	PROFILE	350.00	350.00	150.40	150.40
G200DQA	MW-200	01/03/2002	PROFILE	360.00	360.00	160.40	160.40
G200DRA	MW-200	01/03/2002	PROFILE	370.00	370.00	170.40	170.40
G200DSA	MW-200	01/03/2002	PROFILE	380.00	380.00	180.40	180.40
G200DTA	MW-200	01/03/2002	PROFILE	390.00	390.00	190.40	190.40
G200DUA	MW-200	01/03/2002	PROFILE	400.00	400.00	200.40	200.40
G201DAA	MW-201	01/15/2002	PROFILE	200.00	200.00	4.40	4.40
G201DBA	MW-201	01/15/2002	PROFILE	210.00	210.00	14.40	14.40
G201DCA	MW-201	01/15/2002	PROFILE	220.00	220.00	24.40	24.40
G201DDA	MW-201	01/15/2002	PROFILE	230.00	230.00	34.40	34.40
G201DEA	MW-201	01/15/2002	PROFILE	240.00	240.00	44.40	44.40
G201DFA	MW-201	01/15/2002	PROFILE	250.00	250.00	54.40	54.40
G201DGA	MW-201	01/15/2002	PROFILE	260.00	260.00	64.40	64.40
G201DHA	MW-201	01/16/2002	PROFILE	270.00	270.00	74.40	74.40
G201DIA	MW-201	01/16/2002	PROFILE	280.00	280.00	84.40	84.40
G201DJA	MW-201	01/16/2002	PROFILE	290.00	290.00	94.40	94.40
G201DKA	MW-201	01/16/2002	PROFILE	300.00	300.00	104.40	104.40
G201DLA	MW-201	01/16/2002	PROFILE	310.00	310.00	114.40	114.40
G201DLD	MW-201	01/16/2002	PROFILE	310.00	310.00	114.40	114.40
G201DMA	MW-201	01/16/2002	PROFILE	320.00	320.00	124.40	124.40

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1/1/2002 - 1/31/2002

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G201DNA	MW-201	01/16/2002	PROFILE	330.00	330.00	134.40	134.40
G201DOA	MW-201	01/16/2002	PROFILE	340.00	340.00	144.40	144.40
G201DPA	MW-201	01/16/2002	PROFILE	350.00	350.00	154.40	154.40
G201DQA	MW-201	01/17/2002	PROFILE	360.00	360.00	164.40	164.40
G201DRA	MW-201	01/17/2002	PROFILE	370.00	370.00	174.40	174.40
G201DSA	MW-201	01/17/2002	PROFILE	380.00	380.00	184.40	184.40
G201DTA	MW-201	01/17/2002	PROFILE	390.00	390.00	194.40	194.40
G202DAA	MW-202	02/01/2002	PROFILE	150.00	150.00	6.00	6.00
G202DBA	MW-202	02/01/2002	PROFILE	160.00	160.00	16.00	16.00
G202DCA	MW-202	02/01/2002	PROFILE	170.00	170.00	26.00	26.00
T2.B.0H.005.1.0	T2.0H.005.O	01/29/2002	SOIL BRUSHING	1.00	1.00		
HC101EH1AAA	101EH	01/29/2002	SOIL GRID	0.00	0.25		
HC101EH1BAA	101EH	01/29/2002	SOIL GRID	0.25	0.50		
HC101EH1CAA	101EH	01/29/2002	SOIL GRID	0.50	1.00		
HC101EJ1AAA	101EJ	01/29/2002	SOIL GRID	0.00	0.25		
HC101EJ1BAA	101EJ	01/29/2002	SOIL GRID	0.25	0.50		
HC101EJ1CAA	101EJ	01/29/2002	SOIL GRID	0.50	1.00		
HC101EJ1CAD	101EJ	01/29/2002	SOIL GRID	0.50	1.00		
HC101GF1DAA	101GF	01/30/2002	SOIL GRID	1.00	1.50		
HC101GF1EAA	101GF	01/31/2002	SOIL GRID	1.50	2.00		
HC101GI1DAA	101GI	01/30/2002	SOIL GRID	1.00	1.50		
HC101GI1EAA	101GI	01/30/2002	SOIL GRID	1.50	2.00		
HC101GM1AAA	101GM	01/30/2002	SOIL GRID	0.00	0.25		
HC101GM1BAA	101GM	01/30/2002	SOIL GRID	0.25	0.50		
HC101GM1CAA	101GM	01/30/2002	SOIL GRID	0.50	1.00		
HC101GN1AAA	101GN	01/31/2002	SOIL GRID	0.00	0.25		
HC101GN1BAA	101GN	01/31/2002	SOIL GRID	0.25	0.50		
HC101GN1CAA	101GN	01/31/2002	SOIL GRID	0.50	1.00		
HC101GP1AAA	101GP	01/29/2002	SOIL GRID	0.00	0.25		
HC101GP1BAA	101GP	01/30/2002	SOIL GRID	0.25	0.50		
HC101GP1CAA	101GP	01/30/2002	SOIL GRID	0.50	1.00		
HC101OU1AAA	101OU	02/01/2002	SOIL GRID	0.00	0.25		
HC101OU1BAA	101OU	02/01/2002	SOIL GRID	0.25	0.50		
HC101OU1CAA	101OU	02/01/2002	SOIL GRID	0.50	1.00		
HC101OVA1AAA	101OV	02/01/2002	SOIL GRID	0.00	0.25		
HC101OVA1BAA	101OV	02/01/2002	SOIL GRID	0.25	0.50		
HC101OVA1CAA	101OV	02/01/2002	SOIL GRID	0.50	1.00		
HC102TI1AAA	102TI1	01/16/2002	SOIL GRID	0.00	0.25		
HC102TI1BAA	102TI1	01/16/2002	SOIL GRID	0.25	0.50		
HC102TI1CAA	102TI1	01/16/2002	SOIL GRID	0.50	1.00		
HC102TJ1AAA	102TJ1	01/15/2002	SOIL GRID	0.00	0.25		
HC102TJ1BAA	102TJ1	01/15/2002	SOIL GRID	0.25	0.50		
HC102TJ1CAA	102TJ1	01/15/2002	SOIL GRID	0.50	1.00		
HC102VK1AAA	102VK1	01/15/2002	SOIL GRID	0.00	0.25		
HC102VK1BAA	102VK1	01/15/2002	SOIL GRID	0.25	0.50		
HC102VK1CAA	102VK1	01/15/2002	SOIL GRID	0.50	1.00		
HC102VL1AAA	102VL1	01/15/2002	SOIL GRID	0.00	0.25		
HC102VL1BAA	102VL1	01/15/2002	SOIL GRID	0.25	0.50		
HC102VL1CAA	102VL1	01/15/2002	SOIL GRID	0.50	1.00		

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1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD101EH3BAA	101EH	01/29/2002	SOIL GRID	0.25	0.50		
HD101EH3CAA	101EH	01/29/2002	SOIL GRID	0.50	1.00		
HDA01280201AA	A01280201	02/01/2002	SOIL GRID	0.00	0.25		
HDA032101AAPE1	A032101AAPE	01/14/2002	SOIL GRID	0.00	0.25		
HDA032101AAPE2	A032101AAPE	01/14/2002	SOIL GRID	0.00	0.25		
HDA032101AAPE3	A032101AAPE	01/14/2002	SOIL GRID	0.00	0.25		
HDGR37MM3PE1	HDGR37MM3PE1	01/17/2002	SOIL GRID	0.00	0.25		
HDGR37MM3PE2	HDGR37MM3PE2	01/17/2002	SOIL GRID	0.00	0.25		
HDGR37MM3PE3	HDGR37MM3PE3	01/17/2002	SOIL GRID	0.00	0.25		
HDGR37MM5PE1	HDGR37MM5PE1	01/17/2002	SOIL GRID	0.00	0.25		
HDGR37MM5PE2	HDGR37MM5PE2	01/17/2002	SOIL GRID	0.00	0.25		
HDGR37MM5PE3	HDGR37MM5PE3	01/17/2002	SOIL GRID	0.00	0.25		
HDJ1200106PE1	1200106PE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1200106PE2	1200106PE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1200106PE3	1200106PE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1200182RPE1	1200182RPE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1200182RPE2	1200182RPE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1200182RPE3	1200182RPE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1300038RPE1	1300038RPE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1300038RPE2	1300038RPE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1300038RPE3	1300038RPE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ1300038RPE3D	1300038RPE	01/14/2002	SOIL GRID	0.00	0.25		
HDJ3200001RPE1	3200003RPE	01/10/2002	SOIL GRID	0.00	0.25		
HDJ3200001RPE2	3200003RPE	01/10/2002	SOIL GRID	0.00	0.25		
HDJ3200001RPE3	3200003RPE	01/10/2002	SOIL GRID	0.00	0.25		
HDJ3200003RPE1	3200003RPE	01/10/2002	SOIL GRID	0.00	0.25		
HDJ3200003RPE2	3200003RPE	01/10/2002	SOIL GRID	0.00	0.25		
HDJ3200003RPE3	3200003RPE	01/10/2002	SOIL GRID	0.00	0.25		
HDP19105MMPE1	HDP19105MMPE1	01/24/2002	SOIL GRID	0.00	0.25		
HDP19105MMPE2	HDP19105MMPE2	01/24/2002	SOIL GRID	0.00	0.25		
HDP19105MMPE3	HDP19105MMPE3	01/24/2002	SOIL GRID	0.00	0.25		
HDT981MMPE1	HDT981MMPE1	01/18/2002	SOIL GRID	0.00	0.25		
HDT981MMPE2	HDT981MMPE2	01/18/2002	SOIL GRID	0.00	0.25		
HDT981MMPE3	HDT981MMPE3	01/18/2002	SOIL GRID	0.00	0.25		
J2.F.T13.001.1.0	J2.T13.001.O	01/22/2002	SOIL GRID	0.00	1.50		
J2.F.T13.001.2.0	J2.T13.001.O	01/22/2002	SOIL GRID	1.75	2.00		
J2.F.T8.001.1.0	J2.T8.001.O	01/22/2002	SOIL GRID	0.00	4.00		
J2.F.T8.001.2.0	J2.T8.001.O	01/22/2002	SOIL GRID	4.25	4.25		
T1.E.0P.001.1.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.2.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.3.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.4.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.5.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.6.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.7.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.8.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T1.E.0P.001.9.0	Transect 1 Target 1	01/09/2002	SOIL GRID	0.00	0.25		
T2.E.0O.001.2.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		
T2.E.0O.001.3.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
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
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
T2.E.0O.001.4.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		
T2.E.0O.001.5.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		
T2.E.0O.001.6.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		
T2.E.0O.001.7.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		
T2.E.0O.001.8.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		
T2.E.0O.001.9.0	Transect 2 Target 1	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0A.LRZ.1.0	Transect 2 Grid A Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0B.LRZ.1.0	Transect 2 Grid B Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0C.LRZ.1.0	Transect 2 Grid C Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0D.LRZ.1.0	Transect 2 Grid D Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0E.LRZ.1.0	Transect 2 Grid E Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0F.LRZ.1.0	Transect 2 Grid F Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0G.LRZ.1.0	Transect 2 Grid G Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0H.LRZ.1.0	Transect 2 Grid H Ma	01/14/2002	SOIL GRID	0.00	0.25		
T2.F.0I.HRZ.1.0	Transect 2 Grid I Mat	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0I.HRZ.2.0	Transect 2 Grid I Mat	01/15/2002	SOIL GRID	0.50	1.00		
T2.F.0J.HRZ.1.0	Transect 2 Grid J Ma	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0J.HRZ.2.0	Transect 2 Grid J Ma	01/15/2002	SOIL GRID	0.50	1.00		
T2.F.0K.HRZ.1.0	Transect 2 Grid K Ma	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0K.HRZ.2.0	Transect 2 Grid K Ma	01/15/2002	SOIL GRID	0.50	1.00		
T2.F.0L.HRZ.1.0	Transect 2 Grid L Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0L.HRZ.2.0	Transect 2 Grid L Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0M.HRZ.1.0	Transect 2 Grid M Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0M.HRZ.2.0	Transect 2 Grid M Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0N.HRZ.1.0	Transect 2 Grid N Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0N.HRZ.1.D	Transect 2 Grid N Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0N.HRZ.2.0	Transect 2 Grid N Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0O.HRZ.1.0	Transect 2 Grid O Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0O.HRZ.2.0	Transect 2 Grid O Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0P.HRZ.1.0	Transect 2 Grid P Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0P.HRZ.2.0	Transect 2 Grid P Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0Q.HRZ.1.0	Transect 2 Grid Q Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0Q.HRZ.2.0	Transect 2 Grid Q Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0R.HRZ.1.0	Transect 2 Grid R Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0R.HRZ.2.0	Transect 2 Grid R Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0S.HRZ.1.0	Transect 2 Grid S Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0S.HRZ.2.0	Transect 2 Grid S Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0T.HRZ.1.0	Transect 2 Grid T Ma	01/16/2002	SOIL GRID	0.00	0.25		
T2.F.0T.HRZ.2.0	Transect 2 Grid T Ma	01/16/2002	SOIL GRID	0.50	1.00		
T2.F.0U.LRZ.1.0	Transect 2 Grid U Ma	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0V.LRZ.1.0	Transect 2 Grid V Ma	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0W.LRZ.1.0	Transect 2 Grid W M	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0X.LRZ.1.0	Transect 2 Grid X Ma	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0Y.LRZ.1.0	Transect 2 Grid Y Ma	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.0Z.LRZ.1.0	Transect 2 Grid Z Ma	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.AA.LRZ.1.0	Transect 2 Grid AA M	01/15/2002	SOIL GRID	0.00	0.25		
T2.F.BB.LRZ.1.0	Transect 2 Grid BB M	01/15/2002	SOIL GRID	0.00	0.25		
T3.F.0A.LRZ.1.0	Transect 3 Grid A Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0B.LRZ.1.0	Transect 3 Grid B Ma	01/24/2002	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives
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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
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
T3.F.0C.LRZ.1.0	Transect 3 Grid C Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0D.LRZ.1.0	Transect 3 Grid D Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0E.LRZ.1.0	Transect 3 Grid E Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0F.LRZ.1.0	Transect 3 Grid F Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0G.LRZ.1.0	Transect 3 Grid G Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0H.LRZ.1.0	Transect 3 Grid H Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0I.HRZ.1.0	Transect 3 Grid I Mat	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0I.HRZ.2.0	Transect 3 Grid I Mat	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0J.HRZ.1.0	Transect 3 Grid J Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0J.HRZ.2.0	Transect 3 Grid J Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0K.HRZ.1.0	Transect 3 Grid K Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0K.HRZ.2.0	Transect 3 Grid K Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0L.HRZ.1.0	Transect 3 Grid L Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0L.HRZ.2.0	Transect 3 Grid L Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0M.HRZ.1.0	Transect 3 Grid M Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0M.HRZ.2.0	Transect 3 Grid M Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0N.HRZ.1.0	Transect 3 Grid N Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0N.HRZ.1.D	Transect 3 Grid N Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0N.HRZ.2.0	Transect 3 Grid N Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0O.HRZ.1.0	Transect 3 Grid O Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0O.HRZ.2.0	Transect 3 Grid O Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0P.HRZ.1.0	Transect 3 Grid P Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0P.HRZ.2.0	Transect 3 Grid P Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0Q.HRZ.1.0	Transect 3 Grid Q Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0Q.HRZ.2.0	Transect 3 Grid Q Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0R.HRZ.1.0	Transect 3 Grid R Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0R.HRZ.2.0	Transect 3 Grid R Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0S.HRZ.1.0	Transect 3 Grid S Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0S.HRZ.2.0	Transect 3 Grid S Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0T.HRZ.1.0	Transect 3 Grid T Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0T.HRZ.2.0	Transect 3 Grid T Ma	01/24/2002	SOIL GRID	0.50	1.00		
T3.F.0U.LRZ.1.0	Transect 3 Grid U Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0V.LRZ.1.0	Transect 3 Grid V Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0W.LRZ.1.0	Transect 3 Grid W M	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0X.LRZ.1.0	Transect 3 Grid X Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0Y.LRZ.1.0	Transect 3 Grid Y Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.0Z.LRZ.1.0	Transect 3 Grid Z Ma	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.AA.LRZ.1.0	Transect 3 Grid AA M	01/24/2002	SOIL GRID	0.00	0.25		
T3.F.BB.LRZ.1.0	Transect 3 Grid BB M	01/24/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.2.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.3.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.4.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.5.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.6.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.7.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.8.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.E.NO.001.9.0	Transect 4 Target 1	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0A.LRZ.1.0	Transect 4 Grid A Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0B.LRZ.1.0	Transect 4 Grid B Ma	01/17/2002	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
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
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
T4.F.0C.LRZ.1.0	Transect 4 Grid C Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0D.LRZ.1.0	Transect 4 Grid D Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0E.LRZ.1.0	Transect 4 Grid E Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0F.LRZ.1.0	Transect 4 Grid F Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0G.LRZ.1.0	Transect 4 Grid G Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0G.LRZ.1.D	Transect 4 Grid G Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0H.LRZ.1.0	Transect 4 Grid H Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0I.HRZ.1.0	Transect 4 Grid I Mat	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0I.HRZ.2.0	Transect 4 Grid I Mat	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0J.HRZ.1.0	Transect 4 Grid J Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0J.HRZ.2.0	Transect 4 Grid J Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0K.HRZ.1.0	Transect 4 Grid K Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0K.HRZ.2.0	Transect 4 Grid K Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0L.HRZ.1.0	Transect 4 Grid L Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0L.HRZ.2.0	Transect 4 Grid L Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0M.HRZ.1.0	Transect 4 Grid M Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0M.HRZ.2.0	Transect 4 Grid M Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0N.HRZ.1.0	Transect 4 Grid N Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0N.HRZ.2.0	Transect 4 Grid N Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0O.HRZ.1.0	Transect 4 Grid O Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0O.HRZ.2.0	Transect 4 Grid O Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0P.HRZ.1.0	Transect 4 Grid P Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0P.HRZ.2.0	Transect 4 Grid P Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0Q.HRZ.1.0	Transect 4 Grid Q Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0Q.HRZ.2.0	Transect 4 Grid Q Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0R.HRZ.1.0	Transect 4 Grid R Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0R.HRZ.2.0	Transect 4 Grid R Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0S.HRZ.1.0	Transect 4 Grid S Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0S.HRZ.2.0	Transect 4 Grid S Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0T.HRZ.1.0	Transect 4 Grid T Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0T.HRZ.2.0	Transect 4 Grid T Ma	01/17/2002	SOIL GRID	0.50	1.00		
T4.F.0U.LRZ.1.0	Transect 4 Grid U Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0V.LRZ.1.0	Transect 4 Grid V Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0W.LRZ.1.0	Transect 4 Grid W M	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0X.LRZ.1.0	Transect 4 Grid X Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0Y.LRZ.1.0	Transect 4 Grid Y Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.0Z.LRZ.1.0	Transect 4 Grid Z Ma	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.AA.LRZ.1.0	Transect 4 Grid AA M	01/17/2002	SOIL GRID	0.00	0.25		
T4.F.BB.LRZ.1.0	Transect 4 Grid BB M	01/17/2002	SOIL GRID	0.00	0.25		
T4.I.0B.008.1.0	T4.0B.008.O	01/29/2002	SOIL GRID	1.00	1.25		
T5.E.0S.001.1.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.1.D	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.2.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.3.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.4.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.5.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.6.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.7.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.0S.001.8.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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TABLE 2
SAMPLING PROGRESS
1/1/2002 - 1/31/2002

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
T5.E.0S.001.9.0	Transect 5 Target 1	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.1.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.2.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.3.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.4.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.5.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.6.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.7.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.8.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
T5.E.AA.001.9.0	Transect 5 Target 2	01/10/2002	SOIL GRID	0.00	0.25		
LKSNK0006AAA	LKSNK0006AAA	01/17/2002	SURFACE WATER	0.00	0.00		

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

TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
ECMWSNP02	ECMWSNP02D	09/13/1999	504	1,2-DIBROMOETHANE (ETHY	110.00		NG/L	79.90	84.90	50.00	X
MW-41	W41M1A	05/18/2000	8151	PENTACHLOROPHENOL	1.80	J	UG/L	108.00	118.00	1.00	X
58MW0009E	WC9EXA	10/02/1997	8330	HEXAHYDRO-1,3,5-TRINITRO	7.70		UG/L	6.50	11.50	2.00	X
MW-1	W01SSA	09/30/1997	8330	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	0.00	10.00	2.00	X
MW-1	W01SSD	09/30/1997	8330	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	0.00	10.00	2.00	X
MW-1	W01MMA	09/29/1997	8330	HEXAHYDRO-1,3,5-TRINITRO	4.60		UG/L	44.00	49.00	2.00	X
MW-25	W25SSA	10/16/1997	8330	HEXAHYDRO-1,3,5-TRINITRO	2.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	03/05/1998	8330N	2,4,6-TRINITROTOLUENE	10.00	J	UG/L	0.00	10.00	2.00	X
MW-19	W19S2A	07/20/1998	8330N	2,4,6-TRINITROTOLUENE	16.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2D	07/20/1998	8330N	2,4,6-TRINITROTOLUENE	16.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	02/12/1999	8330N	2,4,6-TRINITROTOLUENE	7.20	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	09/10/1999	8330N	2,4,6-TRINITROTOLUENE	2.60	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	05/12/2000	8330N	2,4,6-TRINITROTOLUENE	3.70	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	05/23/2000	8330N	2,4,6-TRINITROTOLUENE	3.90	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	08/08/2000	8330N	2,4,6-TRINITROTOLUENE	2.00	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	12/08/2000	8330N	2,4,6-TRINITROTOLUENE	2.30	J	UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	05/15/2000	8330N	2,4,6-TRINITROTOLUENE	3.30		UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	08/09/2000	8330N	2,4,6-TRINITROTOLUENE	3.90	J	UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	12/08/2000	8330N	2,4,6-TRINITROTOLUENE	5.20	J	UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	05/02/2001	8330N	2,4,6-TRINITROTOLUENE	5.20		UG/L	13.00	18.00	2.00	X
MW-31	W31MMA	05/23/2001	8330N	2,4,6-TRINITROTOLUENE	5.20		UG/L	28.00	38.00	2.00	X
MW-31	W31DDA	08/09/2000	8330N	2,4,6-TRINITROTOLUENE	3.90	J	UG/L	48.00	53.00	2.00	X
58MW0001	58MW0001	05/29/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.80		UG/L	3.60	8.60	2.00	X
58MW0002	WC2XXA	02/26/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	19.00		UG/L	4.00	9.00	2.00	X
58MW0002	WC2XXA	01/14/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	20.00		UG/L	4.00	9.00	2.00	X
58MW0002	WC2XXA	10/08/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.80		UG/L	4.00	9.00	2.00	X
58MW0002	58MW0002	05/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	13.00		UG/L	4.00	9.00	2.00	X
58MW0009E	WC9EXA	01/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	17.00		UG/L	6.50	11.50	2.00	X
58MW0009E	WC9EXA	09/28/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	6.50	11.50	2.00	X
58MW0009E	WC9EXD	09/28/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	6.50	11.50	2.00	X
58MW0009E	58MW0009E	05/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.40		UG/L	6.50	11.50	2.00	X
58MW0011D	58MW0011D	05/24/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.30		UG/L	49.50	54.50	2.00	X
90MW0022	WF22XA	01/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.80		UG/L	72.79	77.79	2.00	X
90MW0022	WF22XA	02/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.40		UG/L	72.79	77.79	2.00	X
90MW0022	WF22XA	09/30/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20		UG/L	72.79	77.79	2.00	X

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>DW LIMIT = EQUALS OR EXCEEDS EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT, OR LIFETIME)

TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
90WT0013	WF13XA	01/16/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20	J	UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	02/22/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.80		UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	09/07/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	05/31/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10	J	UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	07/31/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.80	J	UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	11/18/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20		UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	12/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.10	J	UG/L	0.00	10.00	2.00	X
MW-1	W01SSD	12/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.40		UG/L	0.00	10.00	2.00	X
MW-1	W01M2A	03/01/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	44.00	49.00	2.00	X
MW-1	W01M2A	05/10/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	44.00	49.00	2.00	X
MW-1	W01M2A	07/31/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.40	J	UG/L	44.00	49.00	2.00	X
MW-1	W01M2A	11/18/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.10		UG/L	44.00	49.00	2.00	X
MW-1	W01M2D	11/18/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.00		UG/L	44.00	49.00	2.00	X
MW-1	W01M2A	05/01/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.80		UG/L	44.00	49.00	2.00	X
MW-100	W100M1A	06/06/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.30		UG/L	45.00	55.00	2.00	X
MW-100	W100M1D	06/06/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.30		UG/L	45.00	55.00	2.00	X
MW-100	W100M1A	10/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	45.00	55.00	2.00	X
MW-100	W100M1A	01/27/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	45.00	55.00	2.00	X
MW-101	W101M1A	06/06/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	27.00	37.00	2.00	X
MW-105	W105M1A	06/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.90		UG/L	78.00	88.00	2.00	X
MW-105	W105M1A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	78.00	88.00	2.00	X
MW-105	W105M1A	01/27/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.30		UG/L	78.00	88.00	2.00	X
MW-107	W107M2A	06/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.00		UG/L	5.00	15.00	2.00	X
MW-107	W107M2A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	5.00	15.00	2.00	X
MW-111	W111M3A	10/10/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	33.00	43.00	2.00	X
MW-113	W113M2A	09/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	9.20		UG/L	48.00	58.00	2.00	X
MW-113	W113M2A	01/15/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	48.00	58.00	2.00	X
MW-113	W113M2A	04/30/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	15.00		UG/L	48.00	58.00	2.00	X
MW-114	W114M2A	10/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	140.00		UG/L	39.00	49.00	2.00	X
MW-114	W114M2D	10/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	140.00		UG/L	39.00	49.00	2.00	X
MW-114	W114M2A	03/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	120.00	J	UG/L	39.00	49.00	2.00	X
MW-114	W114M2A	06/19/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	140.00		UG/L	39.00	49.00	2.00	X
MW-114	W114M1A	03/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.00	J	UG/L	96.00	106.00	2.00	X
MW-132	W132SSA	11/09/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50	J	UG/L	0.00	10.00	2.00	X
MW-132	W132SSA	02/16/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.40	J	UG/L	0.00	10.00	2.00	X

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1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-147	W147M2A	02/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00		UG/L	77.00	87.00	2.00	X
MW-147	W147M1A	02/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.70		UG/L	94.00	104.00	2.00	X
MW-147	W147M1A	06/19/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	94.00	104.00	2.00	X
MW-153	W153M1A	03/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	9.20		UG/L	108.00	118.00	2.00	X
MW-153	W153M1A	07/24/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.80		UG/L	108.00	118.00	2.00	X
MW-163	W163SSA	06/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.70		UG/L	0.00	10.00	2.00	X
MW-164	W164M2A	05/25/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	12.00		UG/L	119.00	129.00	2.00	X
MW-164	W164M2A	08/21/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.00		UG/L	119.00	129.00	2.00	X
MW-165	W165M2A	05/08/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	60.00		UG/L	46.00	56.00	2.00	X
MW-165	W165M2A	08/16/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	50.00		UG/L	46.00	56.00	2.00	X
MW-166	W166M3A	06/01/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.30		UG/L	19.00	29.00	2.00	X
MW-166	W166M1A	05/31/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.70		UG/L	112.00	117.00	2.00	X
MW-171	W171M2A	05/31/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	79.50	84.50	2.00	X
MW-19	W19SSA	03/05/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	190.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2A	07/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	260.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2D	07/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	260.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	02/12/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	250.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	09/10/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	240.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	05/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	150.00	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	05/23/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	160.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	08/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	290.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	12/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	200.00		UG/L	0.00	10.00	2.00	X
MW-2	W02M2A	01/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	13.00		UG/L	33.00	38.00	2.00	X
MW-2	W02M2A	02/03/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.80		UG/L	33.00	38.00	2.00	X
MW-2	W02M2A	09/03/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.80		UG/L	33.00	38.00	2.00	X
MW-2	W02M2A	05/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.30	J	UG/L	33.00	38.00	2.00	X
MW-2	W02M2A	08/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	33.00	38.00	2.00	X
MW-2	W02M2A	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	33.00	38.00	2.00	X
MW-2	W02M2A	05/03/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	33.00	38.00	2.00	X
MW-2	W02M2A	08/21/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.50		UG/L	33.00	38.00	2.00	X
MW-2	W02M1A	08/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	75.00	80.00	2.00	X
MW-23	W23M1A	11/07/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.30	J	UG/L	103.00	113.00	2.00	X
MW-23	W23M1A	03/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.40		UG/L	103.00	113.00	2.00	X
MW-23	W23M1D	03/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.70		UG/L	103.00	113.00	2.00	X
MW-23	W23M1A	09/13/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.10		UG/L	103.00	113.00	2.00	X

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VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-23	W23M1A	05/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.60	J	UG/L	103.00	113.00	2.00	X
MW-23	W23M1A	08/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.30		UG/L	103.00	113.00	2.00	X
MW-23	W23M1A	12/04/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.00		UG/L	103.00	113.00	2.00	X
MW-23	W23M1D	12/04/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.20		UG/L	103.00	113.00	2.00	X
MW-23	W23M1A	04/27/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.90		UG/L	103.00	113.00	2.00	X
MW-25	W25SSA	03/17/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	07/15/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	64.00		UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	02/01/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	210.00		UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	09/15/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	50.00		UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	05/15/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	110.00		UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	08/09/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	140.00		UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	12/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	120.00		UG/L	13.00	18.00	2.00	X
MW-31	W31SSA	05/02/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	81.00		UG/L	13.00	18.00	2.00	X
MW-31	W31MMA	07/15/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	280.00		UG/L	28.00	38.00	2.00	X
MW-31	W31MMA	02/02/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	370.00		UG/L	28.00	38.00	2.00	X
MW-31	W31MMA	09/15/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	28.00	38.00	2.00	X
MW-31	W31M1A	05/15/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	19.00		UG/L	28.00	38.00	2.00	X
MW-31	W31M1A	08/09/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	14.00		UG/L	28.00	38.00	2.00	X
MW-31	W31MMA	05/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	70.00		UG/L	28.00	38.00	2.00	X
MW-31	W31DDA	08/09/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	150.00		UG/L	48.00	53.00	2.00	X
MW-34	W34M2A	02/19/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.20		UG/L	53.00	63.00	2.00	X
MW-34	W34M2A	05/18/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.70		UG/L	53.00	63.00	2.00	X
MW-34	W34M2A	08/10/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	53.00	63.00	2.00	X
MW-34	W34M2A	11/17/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	53.00	63.00	2.00	X
MW-34	W34M1A	05/17/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	73.00	83.00	2.00	X
MW-34	W34M1A	08/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.00		UG/L	73.00	83.00	2.00	X
MW-34	W34M1A	11/17/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.50		UG/L	73.00	83.00	2.00	X
MW-37	W37M2A	09/29/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.90		UG/L	26.00	36.00	2.00	X
MW-37	W37M2A	12/29/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.60		UG/L	26.00	36.00	2.00	X
MW-37	W37M2A	03/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	26.00	36.00	2.00	X
MW-37	W37M2A	08/31/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.80	J	UG/L	26.00	36.00	2.00	X
MW-37	W37M2A	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	26.00	36.00	2.00	X
MW-37	W37M2D	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	26.00	36.00	2.00	X
MW-38	W38M3A	05/06/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	52.00	62.00	2.00	X
MW-38	W38M3A	08/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	52.00	62.00	2.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-38	W38M3A	11/10/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00		UG/L	52.00	62.00	2.00	X
MW-38	W38M3A	05/16/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.90	J	UG/L	52.00	62.00	2.00	X
MW-38	W38M3A	08/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	52.00	62.00	2.00	X
MW-38	W38M3A	11/20/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	52.00	62.00	2.00	X
MW-38	W38M3A	04/30/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.30	J	UG/L	52.00	62.00	2.00	X
MW-38	W38M3A	08/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.00		UG/L	52.00	62.00	2.00	X
MW-40	W40M1A	09/21/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.80		UG/L	13.00	23.00	2.00	X
MW-40	W40M1D	09/21/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	13.00	23.00	2.00	X
MW-40	W40M1A	12/30/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00	J	UG/L	13.00	23.00	2.00	X
MW-40	W40M1A	04/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.00	J	UG/L	13.00	23.00	2.00	X
MW-40	W40M1A	09/01/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40	J	UG/L	13.00	23.00	2.00	X
MW-40	W40M1A	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	13.00	23.00	2.00	X
MW-40	W40M1A	06/02/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.10		UG/L	13.00	23.00	2.00	X
MW-58	W58SSA	11/23/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.70	J	UG/L	0.00	10.00	2.00	X
MW-58	W58SSA	02/15/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.00		UG/L	0.00	10.00	2.00	X
MW-58	W58SSA	05/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.40	J	UG/L	0.00	10.00	2.00	X
MW-58	W58SSA	09/05/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.10		UG/L	0.00	10.00	2.00	X
MW-58	W58SSA	12/20/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.10		UG/L	0.00	10.00	2.00	X
MW-58	W58SSA	06/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.30		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	07/09/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	50.00	J	UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	09/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	63.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	11/02/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	57.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	06/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	44.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	09/05/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	11/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	28.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSD	11/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	06/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	22.00		UG/L	0.00	10.00	2.00	X
MW-76	W76SSA	01/20/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	18.00	28.00	2.00	X
MW-76	W76SSA	05/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.50	J	UG/L	18.00	28.00	2.00	X
MW-76	W76SSA	08/01/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	18.00	28.00	2.00	X
MW-76	W76SSA	05/07/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.10		UG/L	18.00	28.00	2.00	X
MW-76	W76M2A	01/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	31.00		UG/L	38.00	48.00	2.00	X
MW-76	W76M2D	01/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	38.00	48.00	2.00	X
MW-76	W76M2A	05/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	37.00	J	UG/L	38.00	48.00	2.00	X
MW-76	W76M2A	08/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	31.00		UG/L	38.00	48.00	2.00	X

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1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-76	W76M2A	12/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	46.00		UG/L	38.00	48.00	2.00	X
MW-76	W76M2A	05/07/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	56.00		UG/L	38.00	48.00	2.00	X
MW-76	W76M1A	12/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.30		UG/L	58.00	68.00	2.00	X
MW-76	W76M1A	05/07/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	28.00		UG/L	58.00	68.00	2.00	X
MW-77	W77M2A	01/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	150.00		UG/L	38.00	48.00	2.00	X
MW-77	W77M2A	05/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	100.00	J	UG/L	38.00	48.00	2.00	X
MW-77	W77M2A	08/01/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	97.00	J	UG/L	38.00	48.00	2.00	X
MW-77	W77M2A	12/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	93.00		UG/L	38.00	48.00	2.00	X
MW-77	W77M2A	05/10/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	39.00		UG/L	38.00	48.00	2.00	X
MW-85	W85M1A	05/22/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	22.00	32.00	2.00	X
MW-85	W85M1A	02/10/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	24.00		UG/L	22.00	32.00	2.00	X
MW-85	W85M1A	06/16/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	27.00		UG/L	22.00	32.00	2.00	X
MW-86	W86SSA	04/28/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50	J	UG/L	1.00	11.00	2.00	X
MW-87	W87M1A	04/28/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.50	J	UG/L	62.00	72.00	2.00	X
MW-87	W87M1A	09/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.00		UG/L	62.00	72.00	2.00	X
MW-87	W87M1A	01/10/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.60		UG/L	62.00	72.00	2.00	X
MW-88	W88M2A	05/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.00		UG/L	72.00	82.00	2.00	X
MW-88	W88M2A	09/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.70		UG/L	72.00	82.00	2.00	X
MW-88	W88M2A	01/10/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.80		UG/L	72.00	82.00	2.00	X
MW-89	W89M2A	05/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.30		UG/L	72.00	82.00	2.00	X
MW-89	W89M2A	09/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.30		UG/L	72.00	82.00	2.00	X
MW-89	W89M2A	01/11/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.50		UG/L	72.00	82.00	2.00	X
MW-90	W90SSA	05/19/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.40	J	UG/L	0.00	10.00	2.00	X
MW-90	W90M1A	10/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	27.00	37.00	2.00	X
MW-91	W91SSA	05/19/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	12.00		UG/L	0.00	10.00	2.00	X
MW-91	W91SSA	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	13.00		UG/L	0.00	10.00	2.00	X
MW-91	W91SSA	01/20/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	12.00		UG/L	0.00	10.00	2.00	X
MW-91	W91M1A	05/22/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	45.00	55.00	2.00	X
MW-91	W91M1A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	45.00	55.00	2.00	X
MW-91	W91M1D	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	45.00	55.00	2.00	X
MW-91	W91M1A	01/20/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	12.00		UG/L	45.00	55.00	2.00	X
MW-93	W93M2A	05/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20		UG/L	16.00	26.00	2.00	X
MW-93	W93M2A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.20		UG/L	16.00	26.00	2.00	X
MW-93	W93M2A	01/20/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10	J	UG/L	16.00	26.00	2.00	X
MW-93	W93M1A	05/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20	J	UG/L	56.00	66.00	2.00	X

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LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-93	W93M1A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	56.00	66.00	2.00	X
MW-93	W93M1A	01/22/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40	J	UG/L	56.00	66.00	2.00	X
MW-93	W93M1D	01/22/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	56.00	66.00	2.00	X
MW-95	W95M1A	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	78.00	88.00	2.00	X
MW-98	W98M1A	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.10		UG/L	26.00	36.00	2.00	X
MW-99	W99M1A	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.90		UG/L	60.00	70.00	2.00	X
MW-99	W99M1D	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.90		UG/L	60.00	70.00	2.00	X
MW-99	W99M1A	09/29/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.00		UG/L	60.00	70.00	2.00	X
MW-99	W99M1A	01/13/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.20		UG/L	60.00	70.00	2.00	X
MW-31	W31SSA	08/24/2001	8330NX	2,4,6-TRINITROTOLUENE	5.40		UG/L	13.00	18.00	2.00	X
MW-1	W01SSA	08/16/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	4.30		UG/L	0.00	10.00	2.00	X
MW-1	W01M2A	08/15/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	44.00	49.00	2.00	X
MW-19	W19SSA	06/18/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	200.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	06/18/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	210.00		UG/L	0.00	10.00	2.00	X
MW-23	W23M1A	07/30/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	5.30		UG/L	103.00	113.00	2.00	X
MW-31	W31SSA	08/24/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	88.00		UG/L	13.00	18.00	2.00	X
MW-76	W76SSA	08/10/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	4.50		UG/L	18.00	28.00	2.00	X
MW-77	W77M2A	08/10/2001	8330NX	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	38.00	48.00	2.00	X
ASPWELL	ASPWELL	07/20/1999	E200.8	LEAD	53.00		UG/L	0.00	0.00	15.00	X
90MW0022	90MW0022	05/19/2001	E314.0	PERCHLORATE	2.00	J	UG/L	72.79	77.79	1.50	X
90MW0022	90MW0022	09/05/2001	E314.0	PERCHLORATE	2.00	J	UG/L	72.79	77.79	1.50	X
90MW0054	90MW0054AA	01/30/2001	E314.0	PERCHLORATE	9.00		UG/L	91.83	96.83	1.50	X
90MW0054	90MW0054AD	01/30/2001	E314.0	PERCHLORATE	10.00		UG/L	91.83	96.83	1.50	X
90MW0054	90MW0054	10/24/2001	E314.0	PERCHLORATE	27.80		UG/L	91.83	96.83	1.50	X
MW-100	W100M1A	10/23/2001	E314.0	PERCHLORATE	1.67	J	UG/L	45.00	55.00	1.50	X
MW-101	W101M1A	01/20/2001	E314.0	PERCHLORATE	3.00	J	UG/L	27.00	37.00	1.50	X
MW-101	W101M1A	10/23/2001	E314.0	PERCHLORATE	1.75	J	UG/L	27.00	37.00	1.50	X
MW-101	W101M1A	11/27/2001	E314.0	PERCHLORATE	1.72	J	UG/L	27.00	37.00	1.50	X
MW-105	W105M1A	11/26/2001	E314.0	PERCHLORATE	1.98	J	UG/L	78.00	88.00	1.50	X
MW-114	W114M2A	12/29/2000	E314.0	PERCHLORATE	300.00		UG/L	39.00	49.00	1.50	X
MW-114	W114M2A	03/14/2001	E314.0	PERCHLORATE	260.00		UG/L	39.00	49.00	1.50	X
MW-114	W114M2A	06/19/2001	E314.0	PERCHLORATE	207.00		UG/L	39.00	49.00	1.50	X
MW-114	W114M1A	12/28/2000	E314.0	PERCHLORATE	11.00		UG/L	96.00	106.00	1.50	X
MW-114	W114M1A	03/14/2001	E314.0	PERCHLORATE	13.00		UG/L	96.00	106.00	1.50	X
MW-114	W114M1A	06/18/2001	E314.0	PERCHLORATE	10.00		UG/L	96.00	106.00	1.50	X

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VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-125	W125M1A	02/20/2001	E314.0	PERCHLORATE	3.00	J	UG/L	182.00	192.00	1.50	X
MW-127	W127SSA	02/14/2001	E314.0	PERCHLORATE	4.00	J	UG/L	0.00	10.00	1.50	X
MW-128	W128SSA	02/14/2001	E314.0	PERCHLORATE	3.00	J	UG/L	0.00	10.00	1.50	X
MW-129	W129M2A	03/14/2001	E314.0	PERCHLORATE	6.00		UG/L	46.00	56.00	1.50	X
MW-129	W129M2A	06/20/2001	E314.0	PERCHLORATE	8.00		UG/L	46.00	56.00	1.50	X
MW-129	W129M1A	01/02/2001	E314.0	PERCHLORATE	10.00		UG/L	66.00	76.00	1.50	X
MW-129	W129M1A	03/14/2001	E314.0	PERCHLORATE	9.00		UG/L	66.00	76.00	1.50	X
MW-129	W129M1A	06/19/2001	E314.0	PERCHLORATE	6.00		UG/L	66.00	76.00	1.50	X
MW-130	W130SSA	02/14/2001	E314.0	PERCHLORATE	3.00	J	UG/L	0.00	10.00	1.50	X
MW-130	W130SSA	06/14/2001	E314.0	PERCHLORATE	3.00	J	UG/L	0.00	10.00	1.50	X
MW-130	W130SSD	06/14/2001	E314.0	PERCHLORATE	3.00	J	UG/L	0.00	10.00	1.50	X
MW-132	W132SSA	11/09/2000	E314.0	PERCHLORATE	39.00	J	UG/L	0.00	10.00	1.50	X
MW-132	W132SSA	02/16/2001	E314.0	PERCHLORATE	65.00		UG/L	0.00	10.00	1.50	X
MW-132	W132SSA	06/15/2001	E314.0	PERCHLORATE	75.00		UG/L	0.00	10.00	1.50	X
MW-132	W132SSA	12/12/2001	E314.0	PERCHLORATE	27.40		UG/L	0.00	10.00	1.50	X
MW-139	W139M2A	12/29/2000	E314.0	PERCHLORATE	8.00		UG/L	70.00	80.00	1.50	X
MW-139	W139M2A	03/15/2001	E314.0	PERCHLORATE	11.00	J	UG/L	70.00	80.00	1.50	X
MW-139	W139M2A	06/20/2001	E314.0	PERCHLORATE	3.00	J	UG/L	70.00	80.00	1.50	X
MW-158	W158SSA	06/12/2001	E314.0	PERCHLORATE	2.00	J	UG/L	2.00	12.00	1.50	X
MW-163	W163SSA	06/14/2001	E314.0	PERCHLORATE	67.00		UG/L	0.00	10.00	1.50	X
MW-163	W163SSA	10/10/2001	E314.0	PERCHLORATE	39.60		UG/L	0.00	10.00	1.50	X
MW-165	W165M2A	05/08/2001	E314.0	PERCHLORATE	122.00	J	UG/L	46.00	56.00	1.50	X
MW-165	W165M2A	08/16/2001	E314.0	PERCHLORATE	102.00		UG/L	46.00	56.00	1.50	X
MW-166	W166M3A	10/04/2001	E314.0	PERCHLORATE	1.50	J	UG/L	19.00	29.00	1.50	X
MW-172	W172M2A	06/21/2001	E314.0	PERCHLORATE	3.00	J	UG/L	104.00	114.00	1.50	X
MW-172	W172M2A	09/21/2001	E314.0	PERCHLORATE	3.94	J	UG/L	104.00	114.00	1.50	X
MW-19	W19SSA	08/08/2000	E314.0	PERCHLORATE	5.00	J	UG/L	0.00	10.00	1.50	X
MW-19	W19SSA	12/08/2000	E314.0	PERCHLORATE	12.00		UG/L	0.00	10.00	1.50	X
MW-19	W19SSA	06/18/2001	E314.0	PERCHLORATE	41.00		UG/L	0.00	10.00	1.50	X
MW-19	W19SSA	08/24/2001	E314.0	PERCHLORATE	8.49		UG/L	0.00	10.00	1.50	X
MW-31	W31SSA	08/09/2000	E314.0	PERCHLORATE	40.00	J	UG/L	13.00	18.00	1.50	X
MW-31	W31SSA	12/08/2000	E314.0	PERCHLORATE	30.00		UG/L	13.00	18.00	1.50	X
MW-31	W31SSA	05/02/2001	E314.0	PERCHLORATE	20.00	J	UG/L	13.00	18.00	1.50	X
MW-31	W31SSA	08/24/2001	E314.0	PERCHLORATE	16.20		UG/L	13.00	18.00	1.50	X
MW-31	W31M1A	08/09/2000	E314.0	PERCHLORATE	50.00	J	UG/L	28.00	38.00	1.50	X

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VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-31	W31MMA	05/23/2001	E314.0	PERCHLORATE	19.00		UG/L	28.00	38.00	1.50	X
MW-34	W34M2A	08/10/2000	E314.0	PERCHLORATE	60.00	J	UG/L	53.00	63.00	1.50	X
MW-34	W34M2A	12/18/2000	E314.0	PERCHLORATE	34.00		UG/L	53.00	63.00	1.50	X
MW-34	W34M2A	05/01/2001	E314.0	PERCHLORATE	28.00	J	UG/L	53.00	63.00	1.50	X
MW-34	W34M2A	07/30/2001	E314.0	PERCHLORATE	16.20		UG/L	53.00	63.00	1.50	X
MW-34	W34M1A	12/18/2000	E314.0	PERCHLORATE	109.00		UG/L	73.00	83.00	1.50	X
MW-34	W34M1A	05/05/2001	E314.0	PERCHLORATE	46.00		UG/L	73.00	83.00	1.50	X
MW-34	W34M1A	07/31/2001	E314.0	PERCHLORATE	30.80		UG/L	73.00	83.00	1.50	X
MW-34	W34M1D	07/31/2001	E314.0	PERCHLORATE	31.40		UG/L	73.00	83.00	1.50	X
MW-35	W35M1A	05/04/2001	E314.0	PERCHLORATE	4.00	J	UG/L	68.00	78.00	1.50	X
MW-35	W35M1A	08/03/2001	E314.0	PERCHLORATE	5.40		UG/L	68.00	78.00	1.50	X
MW-66	W66SSA	08/13/2001	E314.0	PERCHLORATE	1.90	J	UG/L	7.00	17.00	1.50	X
MW-66	W66SSA	09/21/2001	E314.0	PERCHLORATE	2.20	J	UG/L	7.00	17.00	1.50	X
MW-7	W07DDA	08/20/2001	E314.0	PERCHLORATE	29.50		UG/L	227.00	237.00	1.50	X
MW-73	W73SSD	12/19/2000	E314.0	PERCHLORATE	6.00		UG/L	0.00	10.00	1.50	X
MW-73	W73SSA	06/14/2001	E314.0	PERCHLORATE	10.00		UG/L	0.00	10.00	1.50	X
MW-75	W75M2A	05/09/2001	E314.0	PERCHLORATE	9.00	J	UG/L	34.00	44.00	1.50	X
MW-75	W75M2D	05/09/2001	E314.0	PERCHLORATE	9.00	J	UG/L	34.00	44.00	1.50	X
MW-75	W75M2A	08/09/2001	E314.0	PERCHLORATE	6.24		UG/L	34.00	44.00	1.50	X
MW-76	W76SSA	12/07/2000	E314.0	PERCHLORATE	5.00		UG/L	18.00	28.00	1.50	X
MW-76	W76SSA	05/07/2001	E314.0	PERCHLORATE	7.00		UG/L	18.00	28.00	1.50	X
MW-76	W76SSA	08/10/2001	E314.0	PERCHLORATE	13.30		UG/L	18.00	28.00	1.50	X
MW-76	W76M2A	12/06/2000	E314.0	PERCHLORATE	11.00		UG/L	38.00	48.00	1.50	X
MW-76	W76M2A	05/07/2001	E314.0	PERCHLORATE	17.00		UG/L	38.00	48.00	1.50	X
MW-76	W76M2A	08/13/2001	E314.0	PERCHLORATE	22.10		UG/L	38.00	48.00	1.50	X
MW-76	W76M2D	08/13/2001	E314.0	PERCHLORATE	22.50		UG/L	38.00	48.00	1.50	X
MW-76	W76M1A	05/07/2001	E314.0	PERCHLORATE	8.00		UG/L	58.00	68.00	1.50	X
MW-76	W76M1A	08/13/2001	E314.0	PERCHLORATE	16.00		UG/L	58.00	68.00	1.50	X
MW-77	W77M2A	12/06/2000	E314.0	PERCHLORATE	28.00		UG/L	38.00	48.00	1.50	X
MW-77	W77M2A	05/10/2001	E314.0	PERCHLORATE	16.00	J	UG/L	38.00	48.00	1.50	X
MW-77	W77M2A	08/10/2001	E314.0	PERCHLORATE	13.90		UG/L	38.00	48.00	1.50	X
MW-78	W78M2A	12/06/2000	E314.0	PERCHLORATE	19.00		UG/L	38.00	48.00	1.50	X
MW-78	W78M2A	05/10/2001	E314.0	PERCHLORATE	9.00	J	UG/L	38.00	48.00	1.50	X
MW-78	W78M2A	08/15/2001	E314.0	PERCHLORATE	11.40		UG/L	38.00	48.00	1.50	X
MW-80	W80M1A	10/10/2001	E314.0	PERCHLORATE	1.50	J	UG/L	82.73	92.73	1.50	X

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1997 THROUGH JANUARY 2002

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MW-80	W80M1A	08/20/2001	E314.0	PERCHLORATE	1.70	J	UG/L	86.00	96.00	1.50	X
MW-91	W91SSA	01/20/2001	E314.0	PERCHLORATE	5.00	J	UG/L	0.00	10.00	1.50	X
MW-91	W91SSA	10/09/2001	E314.0	PERCHLORATE	3.22	J	UG/L	0.00	10.00	1.50	X
MW-91	W91M1A	10/03/2001	E314.0	PERCHLORATE	1.50	J	UG/L	45.00	55.00	1.50	X
MW-93	W93M2A	01/20/2001	E314.0	PERCHLORATE	2.00	J	UG/L	16.00	26.00	1.50	X
MW-93	W93M1A	01/20/2001	E314.0	PERCHLORATE	3.00	J	UG/L	56.00	66.00	1.50	X
MW-93	W93M1D	01/20/2001	E314.0	PERCHLORATE	2.00	J	UG/L	56.00	66.00	1.50	X
MW-93	W93M1A	10/03/2001	E314.0	PERCHLORATE	1.80	J	UG/L	56.00	66.00	1.50	X
MW-99	W99M1A	11/28/2001	E314.0	PERCHLORATE	1.51	J	UG/L	60.00	70.00	1.50	X
MW-16	W16SSA	11/17/1997	IM40	SODIUM	20,900.00		UG/L	0.00	10.00	20,000.00	X
MW-16	W16SSL	11/17/1997	IM40	SODIUM	20,400.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02DDA	11/19/1997	IM40	SODIUM	21,500.00		UG/L	218.00	223.00	20,000.00	X
MW-2	W02DDL	11/19/1997	IM40	SODIUM	22,600.00		UG/L	218.00	223.00	20,000.00	X
MW-21	W21SSA	10/24/1997	IM40	SODIUM	24,000.00		UG/L	0.00	10.00	20,000.00	X
MW-21	W21SSL	10/24/1997	IM40	SODIUM	24,200.00		UG/L	0.00	10.00	20,000.00	X
MW-21	W21SSA	10/24/1997	IM40	THALLIUM	6.90	J	UG/L	0.00	10.00	2.00	X
95-15	W9515A	10/17/1997	IM40	ZINC	7,210.00		UG/L	80.00	92.00	2,000.00	X
95-15	W9515L	10/17/1997	IM40	ZINC	4,620.00		UG/L	80.00	92.00	2,000.00	X
LRMW0003	WL31XA	10/21/1997	IM40	ZINC	2,480.00		UG/L	102.00	117.00	2,000.00	X
LRMW0003	WL31XL	10/21/1997	IM40	ZINC	2,410.00		UG/L	102.00	117.00	2,000.00	X
LRWS4-1	WL41XA	11/24/1997	IM40	ZINC	3,220.00		UG/L	66.00	91.00	2,000.00	X
LRWS4-1	WL41XL	11/24/1997	IM40	ZINC	3,060.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51DL	11/25/1997	IM40	ZINC	4,410.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XA	11/25/1997	IM40	ZINC	4,510.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XD	11/25/1997	IM40	ZINC	4,390.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XL	11/25/1997	IM40	ZINC	3,900.00		UG/L	66.00	91.00	2,000.00	X
LRWS6-1	WL61XA	11/17/1997	IM40	ZINC	3,480.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XL	11/17/1997	IM40	ZINC	2,600.00		UG/L	184.00	199.00	2,000.00	X
LRWS7-1	WL71XA	11/21/1997	IM40	ZINC	4,320.00		UG/L	186.00	201.00	2,000.00	X
LRWS7-1	WL71XL	11/21/1997	IM40	ZINC	3,750.00		UG/L	186.00	201.00	2,000.00	X
MW-1	W01SSA	09/07/1999	IM40MB	ANTIMONY	6.70	J	UG/L	0.00	10.00	6.00	X
MW-3	W03DDL	03/06/1998	IM40MB	ANTIMONY	13.80	J	UG/L	219.00	224.00	6.00	X
MW-34	W34M2A	08/16/1999	IM40MB	ANTIMONY	6.60	J	UG/L	53.00	63.00	6.00	X
MW-35	W35SSA	08/19/1999	IM40MB	ANTIMONY	6.90	J	UG/L	0.00	10.00	6.00	X
MW-35	W35SSD	08/19/1999	IM40MB	ANTIMONY	13.80	J	UG/L	0.00	10.00	6.00	X

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1997 THROUGH JANUARY 2002

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MW-36	W36SSA	08/17/1999	IM40MB	ANTIMONY	6.70	J	UG/L	0.00	10.00	6.00	X
MW-38	W38SSA	08/18/1999	IM40MB	ANTIMONY	7.40		UG/L	0.00	10.00	6.00	X
MW-38	W38M3A	08/18/1999	IM40MB	ANTIMONY	6.60	J	UG/L	52.00	62.00	6.00	X
MW-38	W38DDA	08/17/1999	IM40MB	ANTIMONY	6.90	J	UG/L	124.00	134.00	6.00	X
MW-39	W39M1A	08/18/1999	IM40MB	ANTIMONY	7.50		UG/L	84.00	94.00	6.00	X
MW-50	W50M1A	05/15/2000	IM40MB	ANTIMONY	9.50		UG/L	89.00	99.00	6.00	X
PPAWSMW-3	PPAWSMW-3	08/12/1999	IM40MB	ANTIMONY	6.00	J	UG/L	0.00	10.00	6.00	X
MW-7	W07M1A	09/07/1999	IM40MB	ARSENIC	52.80		UG/L	135.00	140.00	50.00	X
MW-52	W52M3L	08/27/1999	IM40MB	CADMIUM	12.20		UG/L	59.00	64.00	5.00	X
MW-7	W07M1A	09/07/1999	IM40MB	CHROMIUM, TOTAL	114.00		UG/L	135.00	140.00	100.00	X
ASPWELL	ASPWELL	05/24/2001	IM40MB	LEAD	30.40		UG/L	0.00	0.00	15.00	X
MW-2	W02SSA	02/23/1998	IM40MB	LEAD	20.10		UG/L	0.00	10.00	15.00	X
MW-7	W07M1A	09/07/1999	IM40MB	LEAD	40.20		UG/L	135.00	140.00	15.00	X
MW-7	W07M1D	09/07/1999	IM40MB	LEAD	18.30		UG/L	135.00	140.00	15.00	X
MW-13	W13SSA	01/27/1998	IM40MB	MOLYBDENUM	11.20		UG/L	0.00	10.00	10.00	X
MW-13	W13SSL	01/27/1998	IM40MB	MOLYBDENUM	10.40	J	UG/L	0.00	10.00	10.00	X
MW-13	W13DDA	01/26/1998	IM40MB	MOLYBDENUM	26.60		UG/L	145.00	150.00	10.00	X
MW-13	W13DDL	01/26/1998	IM40MB	MOLYBDENUM	30.40		UG/L	145.00	150.00	10.00	X
MW-13	W13DDA	03/11/1999	IM40MB	MOLYBDENUM	11.00		UG/L	145.00	150.00	10.00	X
MW-13	W13DDD	03/11/1999	IM40MB	MOLYBDENUM	12.10	J	UG/L	145.00	150.00	10.00	X
MW-13	W13DDA	09/09/1999	IM40MB	MOLYBDENUM	17.30		UG/L	145.00	150.00	10.00	X
MW-13	W13DDA	05/17/2000	IM40MB	MOLYBDENUM	17.00		UG/L	145.00	150.00	10.00	X
MW-13	W13DDD	05/17/2000	IM40MB	MOLYBDENUM	16.80		UG/L	145.00	150.00	10.00	X
MW-13	W13DDA	12/15/2000	IM40MB	MOLYBDENUM	11.70		UG/L	145.00	150.00	10.00	X
MW-16	W16SSA	03/10/1999	IM40MB	MOLYBDENUM	21.00	J	UG/L	0.00	10.00	10.00	X
MW-16	W16DDA	03/09/1999	IM40MB	MOLYBDENUM	22.20		UG/L	223.00	228.00	10.00	X
MW-16	W16DDD	03/09/1999	IM40MB	MOLYBDENUM	23.20		UG/L	223.00	228.00	10.00	X
MW-16	W16DDA	09/09/1999	IM40MB	MOLYBDENUM	18.00	J	UG/L	223.00	228.00	10.00	X
MW-16	W16DDA	05/17/2000	IM40MB	MOLYBDENUM	12.20		UG/L	223.00	228.00	10.00	X
MW-16	W16DDA	08/03/2000	IM40MB	MOLYBDENUM	12.40		UG/L	223.00	228.00	10.00	X
MW-16	W16DDA	11/16/2000	IM40MB	MOLYBDENUM	16.80		UG/L	223.00	228.00	10.00	X
MW-16	W16DDA	05/18/2001	IM40MB	MOLYBDENUM	15.00		UG/L	223.00	228.00	10.00	X
MW-16	W16DDA	07/23/2001	IM40MB	MOLYBDENUM	11.40		UG/L	223.00	228.00	10.00	X
MW-17	W17M1L	05/18/1999	IM40MB	MOLYBDENUM	12.60		UG/L	96.00	106.00	10.00	X
MW-2	W02SSA	02/23/1998	IM40MB	MOLYBDENUM	72.10		UG/L	0.00	10.00	10.00	X

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MW-2	W02SSL	02/23/1998	IM40MB	MOLYBDENUM	63.30		UG/L	0.00	10.00	10.00	X
MW-2	W02SSA	02/01/1999	IM40MB	MOLYBDENUM	26.10	J	UG/L	0.00	10.00	10.00	X
MW-2	W02SSL	02/01/1999	IM40MB	MOLYBDENUM	34.00		UG/L	0.00	10.00	10.00	X
MW-2	W02SSA	09/02/1999	IM40MB	MOLYBDENUM	29.00		UG/L	0.00	10.00	10.00	X
MW-2	W02SSL	09/02/1999	IM40MB	MOLYBDENUM	27.10		UG/L	0.00	10.00	10.00	X
MW-2	W02DDA	02/02/1999	IM40MB	MOLYBDENUM	25.60		UG/L	218.00	223.00	10.00	X
MW-2	W02DDL	02/02/1999	IM40MB	MOLYBDENUM	26.30	J	UG/L	218.00	223.00	10.00	X
MW-2	W02DDA	09/03/1999	IM40MB	MOLYBDENUM	12.80		UG/L	218.00	223.00	10.00	X
MW-45	W45SSA	05/29/2000	IM40MB	MOLYBDENUM	10.40		UG/L	0.00	10.00	10.00	X
MW-45	W45SSA	12/27/2000	IM40MB	MOLYBDENUM	10.30		UG/L	0.00	10.00	10.00	X
MW-46	W46M2A	03/30/1999	IM40MB	MOLYBDENUM	48.90		UG/L	56.00	66.00	10.00	X
MW-46	W46M2L	03/30/1999	IM40MB	MOLYBDENUM	51.00		UG/L	56.00	66.00	10.00	X
MW-46	W46M2A	08/24/1999	IM40MB	MOLYBDENUM	17.40		UG/L	56.00	66.00	10.00	X
MW-46	W46M1A	03/29/1999	IM40MB	MOLYBDENUM	32.80		UG/L	103.00	113.00	10.00	X
MW-46	W46DDA	04/01/1999	IM40MB	MOLYBDENUM	17.20		UG/L	136.00	146.00	10.00	X
MW-47	W47M3A	03/29/1999	IM40MB	MOLYBDENUM	43.10		UG/L	21.00	31.00	10.00	X
MW-47	W47M3L	03/29/1999	IM40MB	MOLYBDENUM	40.50		UG/L	21.00	31.00	10.00	X
MW-47	W47M2A	03/26/1999	IM40MB	MOLYBDENUM	11.00		UG/L	38.00	48.00	10.00	X
MW-48	W48M1A	11/23/1999	IM40MB	MOLYBDENUM	17.90		UG/L	91.00	101.00	10.00	X
MW-5	W05DDA	02/13/1998	IM40MB	MOLYBDENUM	28.30		UG/L	223.00	228.00	10.00	X
MW-5	W05DDL	02/13/1998	IM40MB	MOLYBDENUM	26.60		UG/L	223.00	228.00	10.00	X
MW-50	W50M2A	04/26/1999	IM40MB	MOLYBDENUM	20.60		UG/L	59.00	69.00	10.00	X
MW-50	W50M1A	04/27/1999	IM40MB	MOLYBDENUM	11.80		UG/L	89.00	99.00	10.00	X
MW-52	W52M3A	04/07/1999	IM40MB	MOLYBDENUM	72.60		UG/L	59.00	64.00	10.00	X
MW-52	W52M3L	04/07/1999	IM40MB	MOLYBDENUM	67.60		UG/L	59.00	64.00	10.00	X
MW-52	W52M3A	08/27/1999	IM40MB	MOLYBDENUM	23.40		UG/L	59.00	64.00	10.00	X
MW-52	W52M3L	08/27/1999	IM40MB	MOLYBDENUM	23.10		UG/L	59.00	64.00	10.00	X
MW-52	W52M3L	11/08/1999	IM40MB	MOLYBDENUM	10.50		UG/L	59.00	64.00	10.00	X
MW-52	W52M2A	04/29/1999	IM40MB	MOLYBDENUM	15.30		UG/L	74.00	84.00	10.00	X
MW-52	W52M2L	04/29/1999	IM40MB	MOLYBDENUM	18.50		UG/L	74.00	84.00	10.00	X
MW-52	W52DDA	04/02/1999	IM40MB	MOLYBDENUM	51.10		UG/L	218.00	228.00	10.00	X
MW-52	W52DDL	04/02/1999	IM40MB	MOLYBDENUM	48.90		UG/L	218.00	228.00	10.00	X
MW-52	W52DDA	08/30/1999	IM40MB	MOLYBDENUM	28.30		UG/L	218.00	228.00	10.00	X
MW-52	W52DDL	08/30/1999	IM40MB	MOLYBDENUM	26.80		UG/L	218.00	228.00	10.00	X
MW-52	W52DDA	11/09/1999	IM40MB	MOLYBDENUM	22.70		UG/L	218.00	228.00	10.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-52	W52DDA	05/22/2000	IM40MB	MOLYBDENUM	12.20		UG/L	218.00	228.00	10.00	X
MW-52	W52DDA	08/17/2000	IM40MB	MOLYBDENUM	10.10		UG/L	218.00	228.00	10.00	X
MW-52	W52DDA	05/21/2001	IM40MB	MOLYBDENUM	10.60		UG/L	218.00	228.00	10.00	X
MW-53	W53SSA	02/17/1999	IM40MB	MOLYBDENUM	24.90		UG/L	0.00	10.00	10.00	X
MW-53	W53SSL	02/17/1999	IM40MB	MOLYBDENUM	27.60		UG/L	0.00	10.00	10.00	X
MW-53	W53M1A	05/03/1999	IM40MB	MOLYBDENUM	122.00		UG/L	99.00	109.00	10.00	X
MW-53	W53M1L	05/03/1999	IM40MB	MOLYBDENUM	132.00		UG/L	99.00	109.00	10.00	X
MW-53	W53M1A	08/30/1999	IM40MB	MOLYBDENUM	55.20		UG/L	99.00	109.00	10.00	X
MW-53	W53M1L	08/30/1999	IM40MB	MOLYBDENUM	54.10		UG/L	99.00	109.00	10.00	X
MW-53	W53M1A	11/05/1999	IM40MB	MOLYBDENUM	41.20		UG/L	99.00	109.00	10.00	X
MW-53	W53M1L	11/05/1999	IM40MB	MOLYBDENUM	38.20		UG/L	99.00	109.00	10.00	X
MW-53	W53M1A	06/01/2000	IM40MB	MOLYBDENUM	10.30	J	UG/L	99.00	109.00	10.00	X
MW-53	W53DDA	02/18/1999	IM40MB	MOLYBDENUM	15.90		UG/L	158.00	168.00	10.00	X
MW-53	W53DDL	02/18/1999	IM40MB	MOLYBDENUM	17.40		UG/L	158.00	168.00	10.00	X
MW-53	W53DDA	08/30/1999	IM40MB	MOLYBDENUM	11.50		UG/L	158.00	168.00	10.00	X
MW-54	W54SSA	04/30/1999	IM40MB	MOLYBDENUM	56.70		UG/L	0.00	10.00	10.00	X
MW-54	W54SSL	04/30/1999	IM40MB	MOLYBDENUM	66.20		UG/L	0.00	10.00	10.00	X
MW-54	W54SSA	08/27/1999	IM40MB	MOLYBDENUM	61.40		UG/L	0.00	10.00	10.00	X
MW-54	W54SSA	11/08/1999	IM40MB	MOLYBDENUM	25.50		UG/L	0.00	10.00	10.00	X
MW-54	W54M2A	05/04/1999	IM40MB	MOLYBDENUM	11.20		UG/L	59.00	69.00	10.00	X
MW-54	W54M2L	05/04/1999	IM40MB	MOLYBDENUM	13.10		UG/L	59.00	69.00	10.00	X
MW-54	W54M2A	08/27/1999	IM40MB	MOLYBDENUM	43.70		UG/L	59.00	69.00	10.00	X
MW-54	W54M2L	08/27/1999	IM40MB	MOLYBDENUM	43.20		UG/L	59.00	69.00	10.00	X
MW-54	W54M2A	11/08/1999	IM40MB	MOLYBDENUM	14.50		UG/L	59.00	69.00	10.00	X
MW-54	W54M1A	04/30/1999	IM40MB	MOLYBDENUM	11.80		UG/L	79.00	89.00	10.00	X
MW-54	W54DDA	05/05/1999	IM40MB	MOLYBDENUM	17.50		UG/L	127.00	137.00	10.00	X
MW-55	W55SSA	05/17/1999	IM40MB	MOLYBDENUM	15.90		UG/L	0.00	10.00	10.00	X
MW-55	W55M2A	05/14/1999	IM40MB	MOLYBDENUM	21.80		UG/L	59.00	69.00	10.00	X
MW-55	W55M1A	05/13/1999	IM40MB	MOLYBDENUM	12.50		UG/L	89.00	99.00	10.00	X
MW-55	W55DDA	05/13/1999	IM40MB	MOLYBDENUM	22.60		UG/L	119.00	129.00	10.00	X
MW-55	W55DDA	08/30/1999	IM40MB	MOLYBDENUM	14.20		UG/L	119.00	129.00	10.00	X
MW-55	W55DDA	11/08/1999	IM40MB	MOLYBDENUM	11.00		UG/L	119.00	129.00	10.00	X
MW-57	W57SSA	12/21/1999	IM40MB	MOLYBDENUM	15.20		UG/L	0.00	10.00	10.00	X
MW-57	W57SSD	12/21/1999	IM40MB	MOLYBDENUM	16.30		UG/L	0.00	10.00	10.00	X
MW-57	W57SSA	03/22/2000	IM40MB	MOLYBDENUM	10.30	J	UG/L	0.00	10.00	10.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-57	W57SSD	03/22/2000	IM40MB	MOLYBDENUM	10.10	J	UG/L	0.00	10.00	10.00	X
MW-57	W57M3A	12/13/1999	IM40MB	MOLYBDENUM	21.90		UG/L	31.00	41.00	10.00	X
MW-57	W57M2A	03/22/2000	IM40MB	MOLYBDENUM	10.80	J	UG/L	62.00	72.00	10.00	X
MW-57	W57DDA	12/13/1999	IM40MB	MOLYBDENUM	18.60		UG/L	127.00	137.00	10.00	X
MW-57	W57DDL	12/13/1999	IM40MB	MOLYBDENUM	17.80		UG/L	127.00	137.00	10.00	X
MW-63	W63SSA	09/21/1999	IM40MB	MOLYBDENUM	12.70		UG/L	0.00	10.00	10.00	X
MW-63	W63SSL	09/21/1999	IM40MB	MOLYBDENUM	11.10		UG/L	0.00	10.00	10.00	X
MW-7	W07M1A	09/07/1999	IM40MB	MOLYBDENUM	10.20		UG/L	135.00	140.00	10.00	X
MW-81	W81M1A	10/13/1999	IM40MB	MOLYBDENUM	24.30		UG/L	100.00	110.00	10.00	X
MW-81	W81M1L	10/13/1999	IM40MB	MOLYBDENUM	22.10		UG/L	100.00	110.00	10.00	X
MW-81	W81DDA	08/17/2000	IM40MB	MOLYBDENUM	10.10		UG/L	156.00	166.00	10.00	X
MW-82	W82DDA	10/13/1999	IM40MB	MOLYBDENUM	15.40		UG/L	97.00	107.00	10.00	X
MW-82	W82DDL	10/13/1999	IM40MB	MOLYBDENUM	14.40		UG/L	97.00	107.00	10.00	X
MW-83	W83DDA	10/12/1999	IM40MB	MOLYBDENUM	13.40		UG/L	109.00	119.00	10.00	X
15MW0002	15MW0002	04/08/1999	IM40MB	SODIUM	37,600.00		UG/L	0.00	10.00	20,000.00	X
90WT0010	90WT0010	06/05/2000	IM40MB	SODIUM	23,600.00		UG/L	2.00	12.00	20,000.00	X
90WT0010	90WT0010-L	06/05/2000	IM40MB	SODIUM	24,200.00		UG/L	2.00	12.00	20,000.00	X
90WT0015	90WT0015	04/23/1999	IM40MB	SODIUM	34,300.00		UG/L	0.00	10.00	20,000.00	X
ASPWELL	ASPWELL	05/24/2001	IM40MB	SODIUM	24,900.00		UG/L	0.00	0.00	20,000.00	X
MW-144	W144SSA	06/18/2001	IM40MB	SODIUM	77,200.00		UG/L	5.00	15.00	20,000.00	X
MW-145	W145SSA	02/12/2001	IM40MB	SODIUM	37,000.00		UG/L	97.00	107.00	20,000.00	X
MW-145	W145SSA	06/20/2001	IM40MB	SODIUM	73,600.00		UG/L	97.00	107.00	20,000.00	X
MW-2	W02SSA	02/23/1998	IM40MB	SODIUM	27,200.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSL	02/23/1998	IM40MB	SODIUM	26,300.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSA	02/01/1999	IM40MB	SODIUM	20,300.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSL	02/01/1999	IM40MB	SODIUM	20,100.00		UG/L	0.00	10.00	20,000.00	X
MW-21	W21SSA	11/15/2000	IM40MB	SODIUM	22,500.00		UG/L	0.00	10.00	20,000.00	X
MW-46	W46SSA	08/25/1999	IM40MB	SODIUM	20,600.00		UG/L	0.00	10.00	20,000.00	X
MW-46	W46SSA	06/15/2000	IM40MB	SODIUM	32,200.00		UG/L	0.00	10.00	20,000.00	X
MW-46	W46SSA	09/12/2000	IM40MB	SODIUM	31,300.00		UG/L	0.00	10.00	20,000.00	X
MW-46	W46SSA	11/17/2000	IM40MB	SODIUM	22,500.00	J	UG/L	0.00	10.00	20,000.00	X
MW-46	W46M2A	03/30/1999	IM40MB	SODIUM	23,300.00		UG/L	56.00	66.00	20,000.00	X
MW-46	W46M2L	03/30/1999	IM40MB	SODIUM	24,400.00		UG/L	56.00	66.00	20,000.00	X
MW-54	W54SSA	08/27/1999	IM40MB	SODIUM	33,300.00		UG/L	0.00	10.00	20,000.00	X
MW-57	W57M2A	12/21/1999	IM40MB	SODIUM	23,500.00		UG/L	62.00	72.00	20,000.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-57	W57M2A	03/22/2000	IM40MB	SODIUM	24,500.00		UG/L	62.00	72.00	20,000.00	X
MW-57	W57M2A	06/30/2000	IM40MB	SODIUM	25,900.00		UG/L	62.00	72.00	20,000.00	X
MW-57	W57M2A	08/29/2000	IM40MB	SODIUM	23,200.00		UG/L	62.00	72.00	20,000.00	X
MW-57	W57M1A	12/14/1999	IM40MB	SODIUM	23,700.00		UG/L	102.00	112.00	20,000.00	X
MW-57	W57M1A	03/07/2000	IM40MB	SODIUM	20,900.00		UG/L	102.00	112.00	20,000.00	X
MW-57	W57M1A	07/05/2000	IM40MB	SODIUM	22,200.00		UG/L	102.00	112.00	20,000.00	X
MW-57	W57M1A	08/29/2000	IM40MB	SODIUM	20,100.00		UG/L	102.00	112.00	20,000.00	X
SDW261160	WG160L	01/07/1998	IM40MB	SODIUM	20,600.00		UG/L	10.00	20.00	20,000.00	X
SDW261160	WG160A	01/13/1999	IM40MB	SODIUM	27,200.00		UG/L	10.00	20.00	20,000.00	X
SDW261160	WG160L	01/13/1999	IM40MB	SODIUM	28,200.00		UG/L	10.00	20.00	20,000.00	X
03MW0006	03MW0006	04/15/1999	IM40MB	THALLIUM	2.60	J	UG/L	0.00	10.00	2.00	X
03MW0022A	03MW0022A	04/16/1999	IM40MB	THALLIUM	3.90		UG/L	71.00	76.00	2.00	X
03MW0027A	03MW0027A	04/14/1999	IM40MB	THALLIUM	2.00	J	UG/L	64.00	69.00	2.00	X
11MW0004	11MW0004	04/16/1999	IM40MB	THALLIUM	2.30	J	UG/L	0.00	10.00	2.00	X
27MW0020Z	27MW0020Z	04/16/1999	IM40MB	THALLIUM	2.70	J	UG/L	98.00	103.00	2.00	X
90MW0038	90MW0038	04/21/1999	IM40MB	THALLIUM	4.40	J	UG/L	29.00	34.00	2.00	X
90WT0010	WF10XA	01/16/1998	IM40MB	THALLIUM	6.50	J	UG/L	2.00	12.00	2.00	X
LRWS1-4	WL14XA	01/07/1999	IM40MB	THALLIUM	5.20	J	UG/L	107.00	117.00	2.00	X
MW-1	W01SSA	09/07/1999	IM40MB	THALLIUM	2.90	J	UG/L	0.00	10.00	2.00	X
MW-127	W127SSA	11/15/2000	IM40MB	THALLIUM	2.40	J	UG/L	0.00	10.00	2.00	X
MW-132	W132SSA	02/16/2001	IM40MB	THALLIUM	2.10	J	UG/L	0.00	10.00	2.00	X
MW-150	W150SSA	03/07/2001	IM40MB	THALLIUM	2.20	J	UG/L	1.00	11.00	2.00	X
MW-18	W18SSA	03/12/1999	IM40MB	THALLIUM	2.30	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	09/10/1999	IM40MB	THALLIUM	3.80	J	UG/L	0.00	10.00	2.00	X
MW-19	W19DDL	02/11/1999	IM40MB	THALLIUM	3.10	J	UG/L	254.00	259.00	2.00	X
MW-2	W02DDD	08/02/2000	IM40MB	THALLIUM	4.90	J	UG/L	218.00	223.00	2.00	X
MW-21	W21M2A	11/01/1999	IM40MB	THALLIUM	4.00	J	UG/L	58.00	68.00	2.00	X
MW-23	W23SSA	09/14/1999	IM40MB	THALLIUM	4.70	J	UG/L	0.00	10.00	2.00	X
MW-25	W25SSA	09/14/1999	IM40MB	THALLIUM	5.30	J	UG/L	0.00	10.00	2.00	X
MW-3	W03DDA	12/20/2000	IM40MB	THALLIUM	3.30		UG/L	219.00	224.00	2.00	X
MW-35	W35SSA	12/18/2000	IM40MB	THALLIUM	2.90	J	UG/L	0.00	10.00	2.00	X
MW-37	W37M2A	12/29/1999	IM40MB	THALLIUM	4.90	J	UG/L	26.00	36.00	2.00	X
MW-38	W38M4A	08/18/1999	IM40MB	THALLIUM	2.80	J	UG/L	14.00	24.00	2.00	X
MW-38	W38M2A	05/11/1999	IM40MB	THALLIUM	4.90	J	UG/L	69.00	79.00	2.00	X
MW-39	W39M1A	12/21/2000	IM40MB	THALLIUM	4.00		UG/L	84.00	94.00	2.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-41	W41M2A	04/02/1999	IM40MB	THALLIUM	2.50	J	UG/L	67.00	77.00	2.00	X
MW-42	W42M2A	11/19/1999	IM40MB	THALLIUM	4.00	J	UG/L	118.00	128.00	2.00	X
MW-45	W45SSA	05/26/1999	IM40MB	THALLIUM	3.00	J	UG/L	0.00	10.00	2.00	X
MW-45	W45SSA	08/31/2000	IM40MB	THALLIUM	4.40	J	UG/L	0.00	10.00	2.00	X
MW-46	W46M1A	05/16/2000	IM40MB	THALLIUM	5.30	J	UG/L	103.00	113.00	2.00	X
MW-46	W46DDA	11/02/1999	IM40MB	THALLIUM	5.10	J	UG/L	136.00	146.00	2.00	X
MW-47	W47M3A	08/25/1999	IM40MB	THALLIUM	3.20	J	UG/L	21.00	31.00	2.00	X
MW-47	W47M3A	05/31/2000	IM40MB	THALLIUM	5.00	J	UG/L	21.00	31.00	2.00	X
MW-47	W47M2A	03/26/1999	IM40MB	THALLIUM	3.20	J	UG/L	38.00	48.00	2.00	X
MW-47	W47M2A	08/25/1999	IM40MB	THALLIUM	4.00	J	UG/L	38.00	48.00	2.00	X
MW-47	W47M2A	05/30/2000	IM40MB	THALLIUM	4.50	J	UG/L	38.00	48.00	2.00	X
MW-47	W47M1A	08/24/1999	IM40MB	THALLIUM	2.60	J	UG/L	75.00	85.00	2.00	X
MW-48	W48M3A	02/28/2000	IM40MB	THALLIUM	4.20	J	UG/L	31.00	41.00	2.00	X
MW-48	W48DAA	06/26/2000	IM40MB	THALLIUM	4.70	J	UG/L	121.00	131.00	2.00	X
MW-49	W49SSA	11/19/1999	IM40MB	THALLIUM	4.70	J	UG/L	0.00	10.00	2.00	X
MW-49	W49M3D	06/27/2000	IM40MB	THALLIUM	4.30	J	UG/L	31.00	41.00	2.00	X
MW-50	W50M1A	05/15/2000	IM40MB	THALLIUM	6.20	J	UG/L	89.00	99.00	2.00	X
MW-51	W51M3A	08/25/1999	IM40MB	THALLIUM	4.30	J	UG/L	28.00	38.00	2.00	X
MW-52	W52SSA	08/26/1999	IM40MB	THALLIUM	3.60	J	UG/L	0.00	10.00	2.00	X
MW-52	W52SSA	11/18/1999	IM40MB	THALLIUM	4.30	J	UG/L	0.00	10.00	2.00	X
MW-52	W52SSA	05/23/2000	IM40MB	THALLIUM	4.70	J	UG/L	0.00	10.00	2.00	X
MW-52	W52M3L	04/07/1999	IM40MB	THALLIUM	3.60	J	UG/L	59.00	64.00	2.00	X
MW-52	W52DDA	04/02/1999	IM40MB	THALLIUM	2.80	J	UG/L	218.00	228.00	2.00	X
MW-52	W52DDL	04/02/1999	IM40MB	THALLIUM	2.60	J	UG/L	218.00	228.00	2.00	X
MW-52	W52DDA	08/30/1999	IM40MB	THALLIUM	3.80	J	UG/L	218.00	228.00	2.00	X
MW-53	W53M1A	11/05/1999	IM40MB	THALLIUM	3.40	J	UG/L	99.00	109.00	2.00	X
MW-54	W54SSA	11/08/1999	IM40MB	THALLIUM	7.40	J	UG/L	0.00	10.00	2.00	X
MW-54	W54SSA	06/06/2000	IM40MB	THALLIUM	4.60	J	UG/L	0.00	10.00	2.00	X
MW-54	W54SSA	11/15/2000	IM40MB	THALLIUM	3.10	J	UG/L	0.00	10.00	2.00	X
MW-54	W54M1A	08/30/1999	IM40MB	THALLIUM	2.80	J	UG/L	79.00	89.00	2.00	X
MW-54	W54M1A	11/05/1999	IM40MB	THALLIUM	3.90	J	UG/L	79.00	89.00	2.00	X
MW-55	W55M1A	08/31/1999	IM40MB	THALLIUM	2.50	J	UG/L	89.00	99.00	2.00	X
MW-56	W56SSA	09/05/2000	IM40MB	THALLIUM	4.00	J	UG/L	1.00	11.00	2.00	X
MW-56	W56M3A	09/05/2000	IM40MB	THALLIUM	6.10	J	UG/L	31.00	41.00	2.00	X
MW-56	W56M3D	09/05/2000	IM40MB	THALLIUM	4.40	J	UG/L	31.00	41.00	2.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-57	W57M2A	03/22/2000	IM40MB	THALLIUM	4.10	J	UG/L	62.00	72.00	2.00	X
MW-58	W58SSA	05/11/2000	IM40MB	THALLIUM	7.30	J	UG/L	0.00	10.00	2.00	X
MW-58	W58SSA	12/20/2000	IM40MB	THALLIUM	2.00	J	UG/L	0.00	10.00	2.00	X
MW-64	W64M1A	02/07/2000	IM40MB	THALLIUM	4.10	J	UG/L	38.00	48.00	2.00	X
MW-7	W07M2L	02/05/1998	IM40MB	THALLIUM	6.60	J	UG/L	65.00	70.00	2.00	X
MW-7	W07M2A	02/24/1999	IM40MB	THALLIUM	4.40	J	UG/L	65.00	70.00	2.00	X
MW-7	W07MMA	02/23/1999	IM40MB	THALLIUM	4.10	J	UG/L	135.00	140.00	2.00	X
MW-7	W07M1A	09/07/1999	IM40MB	THALLIUM	26.20		UG/L	135.00	140.00	2.00	X
MW-7	W07M1D	09/07/1999	IM40MB	THALLIUM	12.70		UG/L	135.00	140.00	2.00	X
MW-72	W72SSA	05/27/1999	IM40MB	THALLIUM	4.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	12/19/2000	IM40MB	THALLIUM	4.30		UG/L	0.00	10.00	2.00	X
MW-73	W73SSD	12/19/2000	IM40MB	THALLIUM	2.00	J	UG/L	0.00	10.00	2.00	X
MW-83	W83SSA	01/13/2000	IM40MB	THALLIUM	3.60	J	UG/L	0.00	10.00	2.00	X
MW-84	W84SSA	10/21/1999	IM40MB	THALLIUM	3.20	J	UG/L	17.00	27.00	2.00	X
MW-94	W94M2A	01/11/2001	IM40MB	THALLIUM	2.00	J	UG/L	16.00	26.00	2.00	X
PPAWSMW-1	PPAWSMW-1	06/22/1999	IM40MB	THALLIUM	3.10	J	UG/L	10.00	20.00	2.00	X
SMR-2	WSMR2A	03/25/1999	IM40MB	THALLIUM	2.00	J	UG/L	19.00	29.00	2.00	X
95-14	W9514A	09/28/1999	IM40MB	ZINC	2,430.00		UG/L	90.00	120.00	2,000.00	X
LRWS5-1	WL51XA	01/25/1999	IM40MB	ZINC	3,980.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XL	01/25/1999	IM40MB	ZINC	3,770.00		UG/L	66.00	91.00	2,000.00	X
LRWS6-1	WL61XA	01/28/1999	IM40MB	ZINC	2,240.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XL	01/28/1999	IM40MB	ZINC	2,200.00		UG/L	184.00	199.00	2,000.00	X
LRWS7-1	WL71XA	01/22/1999	IM40MB	ZINC	4,160.00		UG/L	186.00	201.00	2,000.00	X
LRWS7-1	WL71XL	01/22/1999	IM40MB	ZINC	4,100.00		UG/L	186.00	201.00	2,000.00	X
ASPWELL	ASPWELL	12/12/2000	IM40PB	LEAD	20.90		UG/L	0.00	0.00	15.00	X
MW-41	W41M1A	08/19/1999	OC21B	2,6-DINITROTOLUENE	5.00	J	UG/L	108.00	118.00	5.00	X
03MW0122A	WS122A	09/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	12.00		UG/L	1.00	11.00	6.00	X
11MW0003	WF143A	02/25/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	0.00	0.00	6.00	X
11MW0003	WF143A	09/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	24.00		UG/L	0.00	0.00	6.00	X
15MW0004	15MW0004	04/09/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00		UG/L	0.00	10.00	6.00	X
15MW0008	15MW0008D	04/12/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	25.00	J	UG/L	0.00	0.00	6.00	X
28MW0106	WL28XA	02/19/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	18.00	J	UG/L	0.00	10.00	6.00	X
28MW0106	WL28XA	03/23/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	26.00		UG/L	0.00	10.00	6.00	X
58MW0002	WC2XXA	02/26/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	36.00		UG/L	4.00	9.00	6.00	X
58MW0005E	WC5EXA	09/27/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	0.00	10.00	6.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
58MW0006E	WC6EXA	10/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	59.00		UG/L	0.00	10.00	6.00	X
58MW0006E	WC6EXD	10/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	57.00		UG/L	0.00	10.00	6.00	X
58MW0006E	WC6EXA	01/29/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00		UG/L	0.00	10.00	6.00	X
58MW0007C	WC7CXA	09/28/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00		UG/L	24.00	29.00	6.00	X
90MW0054	WF12XA	10/04/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00	J	UG/L	91.83	96.83	6.00	X
90WT0003	WF03XA	09/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	58.00		UG/L	0.00	10.00	6.00	X
90WT0005	WF05XA	01/13/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	47.00		UG/L	0.00	10.00	6.00	X
90WT0013	WF13XA	01/16/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	34.00		UG/L	0.00	10.00	6.00	X
90WT0013	WF13XA	01/14/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	0.00	10.00	6.00	X
95-14	W9514A	09/28/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	22.00		UG/L	90.00	120.00	6.00	X
97-1	W9701A	11/19/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	54.00	J	UG/L	62.00	72.00	6.00	X
97-1	W9701D	11/19/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	28.00	J	UG/L	62.00	72.00	6.00	X
97-2	W9702A	11/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	53.00	63.00	6.00	X
97-3	W9703A	11/21/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	73.00	J	UG/L	36.00	46.00	6.00	X
97-5	W9705A	11/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	15.00		UG/L	76.00	86.00	6.00	X
BHW215083	WG083A	11/26/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00		UG/L	16.95	26.95	6.00	X
LRWS1-4	WL14XA	10/06/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	78.00	J	UG/L	107.00	117.00	6.00	X
LRWS2-3	WL23XA	11/21/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	20.00	J	UG/L	68.00	83.00	6.00	X
LRWS2-6	WL26XA	10/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	21.00		UG/L	75.00	90.00	6.00	X
LRWS2-6	WL26XA	10/04/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00	J	UG/L	75.00	90.00	6.00	X
LRWS4-1	WL41XA	11/24/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	100.00		UG/L	66.00	91.00	6.00	X
LRWS5-1	WL51XA	11/25/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	66.00	91.00	6.00	X
MW-10	W10SSA	09/16/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	39.00		UG/L	0.00	10.00	6.00	X
MW-11	W11SSA	11/06/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	33.00	J	UG/L	0.00	10.00	6.00	X
MW-11	W11SSD	11/06/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	23.00	J	UG/L	0.00	10.00	6.00	X
MW-12	W12SSA	11/06/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	28.00		UG/L	0.00	10.00	6.00	X
MW-14	W14SSA	11/04/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00		UG/L	0.00	10.00	6.00	X
MW-16	W16SSA	11/17/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	28.00		UG/L	0.00	10.00	6.00	X
MW-16	W16DDA	11/17/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	43.00		UG/L	223.00	228.00	6.00	X
MW-17	W17SSD	11/10/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	120.00	J	UG/L	0.00	10.00	6.00	X
MW-17	W17DDA	11/11/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	42.00		UG/L	196.00	206.00	6.00	X
MW-18	W18SSA	10/10/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	36.00		UG/L	0.00	10.00	6.00	X
MW-18	W18DDA	09/10/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	11.00		UG/L	222.00	232.00	6.00	X
MW-19	W19DDA	03/04/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	254.00	259.00	6.00	X
MW-2	W02M2A	01/20/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	24.00		UG/L	33.00	38.00	6.00	X

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1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-2	W02M1A	01/21/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00	J	UG/L	75.00	80.00	6.00	X
MW-2	W02DDA	02/02/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	218.00	223.00	6.00	X
MW-20	W20SSA	11/07/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	280.00		UG/L	0.00	10.00	6.00	X
MW-21	W21M2A	04/01/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	58.00	68.00	6.00	X
MW-22	W22SSA	11/24/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	96.00		UG/L	0.00	10.00	6.00	X
MW-22	W22SSA	09/20/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	18.00		UG/L	0.00	10.00	6.00	X
MW-23	W23SSA	10/27/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	24.00		UG/L	0.00	10.00	6.00	X
MW-23	W23M3A	11/13/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00		UG/L	34.00	39.00	6.00	X
MW-23	W23M3D	11/13/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00		UG/L	34.00	39.00	6.00	X
MW-24	W24SSA	11/14/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	0.00	10.00	6.00	X
MW-27	W27SSA	09/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	0.00	10.00	6.00	X
MW-28	W28SSA	11/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	11.00		UG/L	0.00	10.00	6.00	X
MW-28	W28SSA	09/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	150.00	J	UG/L	0.00	10.00	6.00	X
MW-29	W29SSA	11/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	0.00	10.00	6.00	X
MW-29	W29SSA	09/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	20.00		UG/L	0.00	10.00	6.00	X
MW-36	W36M2A	08/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	54.00	64.00	6.00	X
MW-38	W38M3A	05/06/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	15.00		UG/L	52.00	62.00	6.00	X
MW-4	W04SSA	11/04/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	30.00		UG/L	0.00	10.00	6.00	X
MW-41	W41M2A	11/12/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	67.00	77.00	6.00	X
MW-43	W43M1A	05/26/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00		UG/L	90.00	100.00	6.00	X
MW-44	W44M1A	09/20/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00		UG/L	53.00	63.00	6.00	X
MW-45	W45M1A	05/24/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	37.00		UG/L	98.00	108.00	6.00	X
MW-46	W46M1A	11/01/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00	J	UG/L	103.00	113.00	6.00	X
MW-46	W46DDA	11/02/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00	J	UG/L	136.00	146.00	6.00	X
MW-47	W47M1A	08/24/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00		UG/L	75.00	85.00	6.00	X
MW-47	W47DDA	08/24/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	100.00	110.00	6.00	X
MW-49	W49SSA	03/01/2000	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	290.00		UG/L	0.00	10.00	6.00	X
MW-5	W05DDA	02/13/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00	J	UG/L	223.00	228.00	6.00	X
MW-52	W52M3A	08/27/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00	J	UG/L	59.00	64.00	6.00	X
MW-53	W53M1A	08/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	31.00		UG/L	99.00	109.00	6.00	X
MW-53	W53DDA	02/18/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	18.00		UG/L	158.00	168.00	6.00	X
MW-55	W55DDA	05/13/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	119.00	129.00	6.00	X
MW-57	W57SSA	12/21/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	3,300.00	J	UG/L	0.00	10.00	6.00	X
MW-57	W57M2A	06/30/2000	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	62.00	72.00	6.00	X
MW-57	W57DDA	12/13/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	95.00		UG/L	127.00	137.00	6.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JANUARY 2002

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-7	W07SSA	10/31/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00		UG/L	0.00	10.00	6.00	X
MW-70	W70M1A	10/27/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00		UG/L	129.00	139.00	6.00	X
MW-84	W84DDA	03/03/2000	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	30.00		UG/L	153.00	163.00	6.00	X
RW-1	WRW1XA	02/18/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	59.00		UG/L	0.00	9.00	6.00	X
RW-1	WRW1XD	10/06/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	11.00	J	UG/L	0.00	9.00	6.00	X
90MW0003	WF03MA	10/07/1999	OC21B	NAPHTHALENE	33.00		UG/L	52.11	57.11	20.00	X
MW-45	W45SSA	05/26/1999	OC21B	NAPHTHALENE	24.00		UG/L	0.00	10.00	20.00	X
MW-45	W45SSA	11/16/1999	OC21B	NAPHTHALENE	27.00		UG/L	0.00	10.00	20.00	X
90MW0003	WF03MA	10/07/1999	OC21V	1,2-DICHLOROETHANE	5.00		UG/L	52.11	57.11	5.00	X
03MW0007A	03MW0007A	04/13/1999	OC21V	TETRACHLOROETHYLENE(P	6.00		UG/L	21.00	26.00	5.00	X
03MW0014A	03MW0014A	04/13/1999	OC21V	TETRACHLOROETHYLENE(P	8.00		UG/L	38.00	43.00	5.00	X
03MW0020	03MW0020	04/14/1999	OC21V	TETRACHLOROETHYLENE(P	12.00		UG/L	36.00	41.00	5.00	X
MW-45	W45SSA	11/16/1999	OC21V	TOLUENE	1,000.00		UG/L	0.00	10.00	1,000.00	X
MW-45	W45SSA	05/29/2000	OC21V	TOLUENE	1,100.00		UG/L	0.00	10.00	1,000.00	X
MW-45	W45SSA	12/27/2000	OC21V	TOLUENE	1,300.00		UG/L	0.00	10.00	1,000.00	X
27MW0017B	27MW0017B	04/30/1999	OC21V	VINYL CHLORIDE	2.00		UG/L	21.00	26.00	2.00	X
PPAWSMW-1	PPAWSMW-1	06/22/1999	OL21P	DIELDRIN	3.00		UG/L	10.00	20.00	0.50	X
MW-142	W142M2A	01/29/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	11.00		UG/L	100.00	110.00	6.00	X
MW-142	W142M1A	01/29/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	20.00		UG/L	185.00	195.00	6.00	X
MW-146	W146M1A	02/23/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	8.40		UG/L	75.00	80.00	6.00	X
MW-146	W146M1A	06/19/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	8.20		UG/L	75.00	80.00	6.00	X
MW-157	W157DDA	05/03/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	8.10		UG/L	199.00	209.00	6.00	X
MW-168	W168M2A	06/05/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	116.00	126.00	6.00	X
MW-168	W168M1A	06/04/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	6.70		UG/L	174.00	184.00	6.00	X
MW-28	W28M1A	01/12/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	9.70		UG/L	173.00	183.00	6.00	X

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DETECTED COMPOUNDS IN RUSH DATA
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SAMPLES COLLECTED 12/15/01 - 01/31/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
58MW0001	58MW0001	01/11/2002	GROUNDWATER	121.00	L26.00	3.60	8.60	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
58MW0001	58MW0001	01/11/2002	GROUNDWATER	121.00	L26.00	3.60	8.60	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
58MW0007B	58MW0007B	01/11/2002	GROUNDWATER	187.00	L92.00	49.00	54.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
58MW0020B	58MW0020B	01/15/2002	GROUNDWATER		205.00		43.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
90MP0059C	90MP0059C	01/21/2002	GROUNDWATER	91.00	94.00			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
90MW0101A	90MW0101A	01/14/2002	GROUNDWATER	112.00	L17.00	106.60	111.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
90WT0013	90WT0013	01/11/2002	GROUNDWATER	92.00	L02.00	0.00	10.00	8330N	2,6-DINITROTOLUENE	YES*
90WT0013	90WT0013	01/11/2002	GROUNDWATER	92.00	L02.00	0.00	10.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
90WT0013	90WT0013	01/11/2002	GROUNDWATER	92.00	L02.00	0.00	10.00	8330N	2-NITROTOLUENE	NO
90WT0013	90WT0013	01/11/2002	GROUNDWATER	92.00	L02.00	0.00	10.00	8330N	4-NITROTOLUENE	NO
90WT0013	90WT0013	01/11/2002	GROUNDWATER	92.00	L02.00	0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES*
W01SSA	MW-1	01/10/2002	GROUNDWATER	114.00	L24.00	1.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W01SSA	MW-1	01/10/2002	GROUNDWATER	114.00	L24.00	1.00	10.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W114M1A	MW-114	12/21/2001	GROUNDWATER	177.00	L87.00	96.00	106.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W114M2A	MW-114	01/07/2002	GROUNDWATER	120.00	L30.00	39.00	49.00	8330N	2-NITROTOLUENE	YES*
W114M2A	MW-114	01/07/2002	GROUNDWATER	120.00	L30.00	39.00	49.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W114M2A	MW-114	01/07/2002	GROUNDWATER	120.00	L30.00	39.00	49.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W114M2A	MW-114	01/07/2002	GROUNDWATER	120.00	L30.00	39.00	49.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W129M1A	MW-129	12/21/2001	GROUNDWATER	136.00	L46.00	66.00	76.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W129M2A	MW-129	12/21/2001	GROUNDWATER	116.00	L26.00	46.00	56.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W157M2A	MW-157	01/14/2002	GROUNDWATER	110.00	L20.00	100.00	110.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W160SSA	MW-160	01/23/2002	GROUNDWATER	137.50	L47.50	0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W161SSA	MW-161	01/23/2002	GROUNDWATER	145.00	L55.00	6.00	16.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W161SSA	MW-161	01/23/2002	GROUNDWATER	145.00	L55.00	6.00	16.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W164M2A	MW-164	01/17/2002	GROUNDWATER	157.00	L67.00	119.00	129.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W164M2A	MW-164	01/17/2002	GROUNDWATER	157.00	L67.00	119.00	129.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W166M1A	MW-166	01/16/2002	GROUNDWATER	218.00	223.00	112.00	117.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W166M1A	MW-166	01/16/2002	GROUNDWATER	218.00	223.00	112.00	117.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W166M2A	MW-166	01/17/2002	GROUNDWATER	150.00	L60.00	44.00	54.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W166M2A	MW-166	01/17/2002	GROUNDWATER	150.00	L60.00	44.00	54.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W166M3A	MW-166	01/17/2002	GROUNDWATER	125.00	L35.00	19.00	29.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES

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W166M3A	MW-166	01/17/2002	GROUNDWATER	125.00	135.00	19.00	29.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W171M2A	MW-171	12/21/2001	GROUNDWATER	81.00	86.00	79.50	84.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W187DDA	MW-187	01/23/2002	GROUNDWATER	306.00	316.00	199.50	209.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES*
W187DDA	MW-187	01/23/2002	GROUNDWATER	306.00	316.00	199.50	209.50	8330N	NITROGLYCERIN	NO
W187DDA	MW-187	01/23/2002	GROUNDWATER	306.00	316.00	199.50	209.50	8330N	PICRIC ACID	NO
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	2,4,6-TRINITROTOLUENE	YES
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITROSO-	YES
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	HEXAHYDRO-1,3-DINITROSO-5-M	YES
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W19SSA	MW-19	12/27/2001	GROUNDWATER	38.00	48.00	0.00	10.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W31MMA	MW-31	01/04/2002	GROUNDWATER	113.00	123.00	28.00	38.00	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
W31MMA	MW-31	01/04/2002	GROUNDWATER	113.00	123.00	28.00	38.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	2,4,6-TRINITROTOLUENE	YES
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	2,4-DINITROTOLUENE	YES
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W31SSA	MW-31	01/04/2002	GROUNDWATER	98.00	103.00	13.00	18.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W34M1A	MW-34	12/26/2001	GROUNDWATER	151.00	161.00	73.00	83.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W73SSA	MW-73	01/11/2002	GROUNDWATER	38.00	48.00	1.00	10.00	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
W73SSA	MW-73	01/11/2002	GROUNDWATER	38.00	48.00	1.00	10.00	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W73SSA	MW-73	01/11/2002	GROUNDWATER	38.00	48.00	1.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W73SSA	MW-73	01/11/2002	GROUNDWATER	38.00	48.00	1.00	10.00	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W73SSA	MW-73	01/11/2002	GROUNDWATER	38.00	48.00	1.00	10.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W75M2A	MW-75	01/07/2002	GROUNDWATER	115.00	125.00	34.00	44.00	8330NX	2-NITROTOLUENE	YES*
W75M2A	MW-75	01/07/2002	GROUNDWATER	115.00	125.00	34.00	44.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76M1A	MW-76	12/28/2001	GROUNDWATER	125.00	135.00	58.00	68.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES

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W76M1A	MW-76	12/28/2001	GROUNDWATER	125.00	135.00	58.00	68.00	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W76M1A	MW-76	12/28/2001	GROUNDWATER	125.00	135.00	58.00	68.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W76M2A	MW-76	01/07/2002	GROUNDWATER	105.00	115.00	38.00	48.00	8330NX	2-NITROTOLUENE	YES*
W76M2A	MW-76	01/07/2002	GROUNDWATER	105.00	115.00	38.00	48.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W76M2A	MW-76	01/07/2002	GROUNDWATER	105.00	115.00	38.00	48.00	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W76M2A	MW-76	01/07/2002	GROUNDWATER	105.00	115.00	38.00	48.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W76SSA	MW-76	12/28/2001	GROUNDWATER	85.00	95.00	18.00	28.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W76SSA	MW-76	12/28/2001	GROUNDWATER	85.00	95.00	18.00	28.00	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W76SSA	MW-76	12/28/2001	GROUNDWATER	85.00	95.00	18.00	28.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W77M2A	MW-77	12/26/2001	GROUNDWATER	120.00	130.00	38.00	48.00	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W77M2A	MW-77	12/26/2001	GROUNDWATER	120.00	130.00	38.00	48.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W77M2A	MW-77	12/26/2001	GROUNDWATER	120.00	130.00	38.00	48.00	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W77M2A	MW-77	12/26/2001	GROUNDWATER	120.00	130.00	38.00	48.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W78M2A	MW-78	12/28/2001	GROUNDWATER	115.00	125.00	38.00	48.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W91SSA	MW-91	12/20/2001	GROUNDWATER	124.00	134.00	0.00	10.00	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
W91SSA	MW-91	12/20/2001	GROUNDWATER	124.00	134.00	0.00	10.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W91SSA	MW-91	12/20/2001	GROUNDWATER	124.00	134.00	0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W91SSA	MW-91	12/20/2001	GROUNDWATER	124.00	134.00	0.00	10.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W94M1A	MW-94	01/08/2002	GROUNDWATER	160.00	170.00	36.00	46.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W94M1D	MW-94	01/08/2002	GROUNDWATER	160.00	170.00	36.00	46.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
W94M2A	MW-94	01/08/2002	GROUNDWATER	140.00	150.00	16.00	26.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G194DAA	MW-194	01/07/2002	PROFILE	57.00	60.00	0.00	10.00	8330N	PICRIC ACID	NO*
G194DAA	MW-194	01/07/2002	PROFILE	57.00	60.00	0.00	10.00	OC21V	CHLOROFORM	
G194DAA	MW-194	01/07/2002	PROFILE	57.00	60.00	0.00	10.00	OC21V	TOLUENE	
G194DBA	MW-194	01/07/2002	PROFILE	60.00	70.00	8.00	13.00	OC21V	CHLOROFORM	
G194DBA	MW-194	01/07/2002	PROFILE	60.00	70.00	8.00	13.00	OC21V	TOLUENE	
G194DBD	MW-194	01/07/2002	PROFILE	65.00	70.00	8.00	13.00	8330N	PICRIC ACID	NO*
G194DBD	MW-194	01/07/2002	PROFILE	65.00	70.00	8.00	13.00	OC21V	CHLOROFORM	
G194DBD	MW-194	01/07/2002	PROFILE	65.00	70.00	8.00	13.00	OC21V	TOLUENE	
G194DCA	MW-194	01/08/2002	PROFILE	75.00	80.00	18.00	23.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G194DCA	MW-194	01/08/2002	PROFILE	75.00	80.00	18.00	23.00	OC21V	CHLOROFORM	

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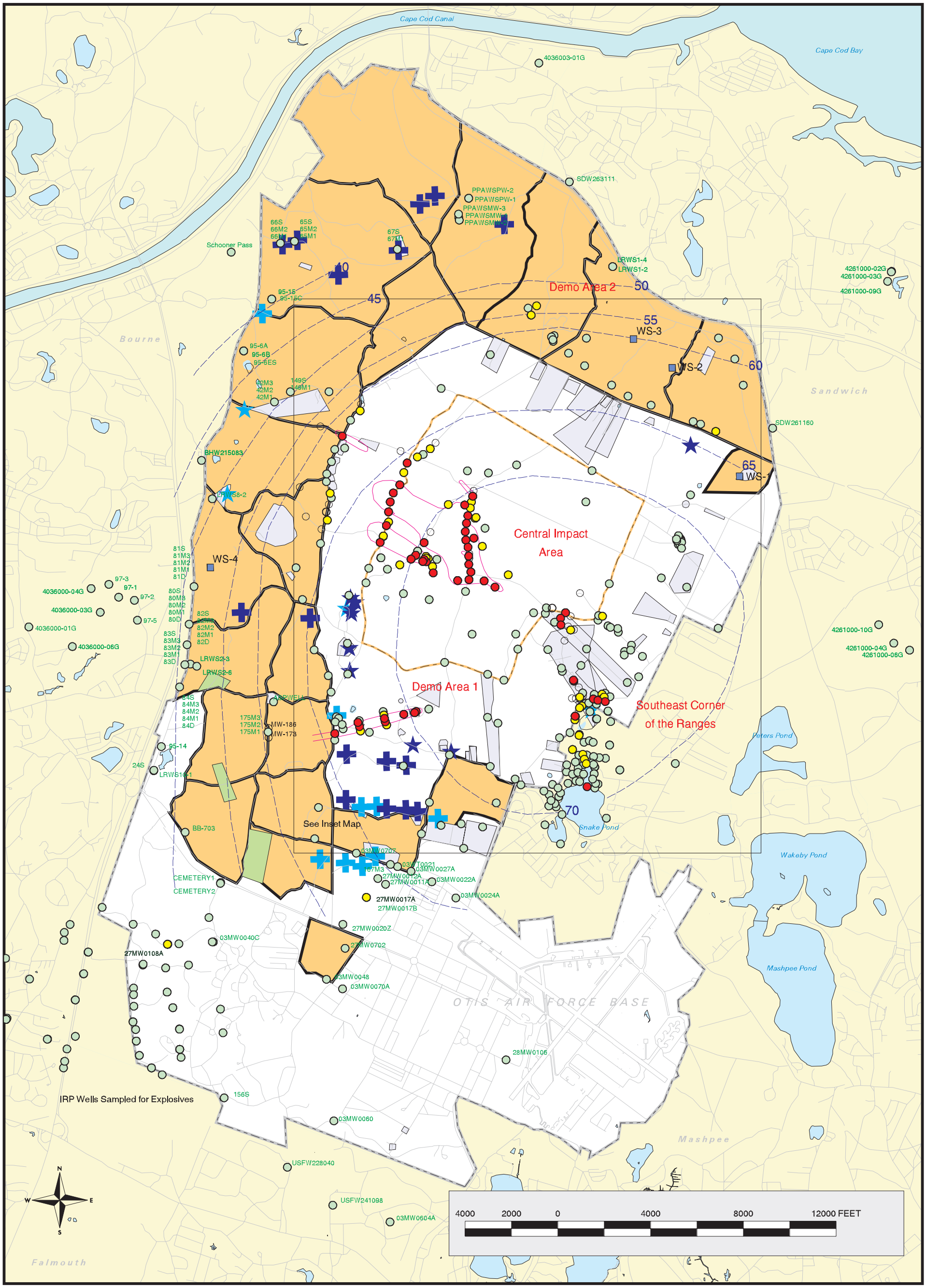
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 12/15/01 - 01/31/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G194DCA	MW-194	01/08/2002	PROFILE	75.00	80.00	18.00	23.00	OC21V	TOLUENE	
G194DDA	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G194DDA	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00	OC21V	CHLOROFORM	
G194DDA	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00	OC21V	TOLUENE	
G194DDD	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G194DDD	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00	OC21V	BROMOCHLOROMETHANE	
G194DDD	MW-194	01/08/2002	PROFILE	85.00	90.00	28.00	33.00	OC21V	TOLUENE	
G194DEA	MW-194	01/08/2002	PROFILE	88.00	93.00	31.00	36.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G200DRA	MW-200	01/03/2002	PROFILE	370.00	370.00	170.40	170.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES+
G200DRA	MW-200	01/03/2002	PROFILE	370.00	370.00	170.40	170.40	8330N	NITROGLYCERIN	NO
G200DRA	MW-200	01/03/2002	PROFILE	370.00	370.00	170.40	170.40	8330N	PICRIC ACID	NO
G200DTA	MW-200	01/03/2002	PROFILE	390.00	390.00	190.40	190.40	8330N	NITROGLYCERIN	NO
G201DAA	MW-201	01/15/2002	PROFILE	200.00	200.00	4.40	4.40	8330N	2,6-DINITROTOLUENE	YES
G201DAA	MW-201	01/15/2002	PROFILE	200.00	200.00	4.40	4.40	8330N	2-NITROTOLUENE	YES*
G201DAA	MW-201	01/15/2002	PROFILE	200.00	200.00	4.40	4.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	NO*
G201DAA	MW-201	01/15/2002	PROFILE	200.00	200.00	4.40	4.40	8330N	PICRIC ACID	NO
G201DFA	MW-201	01/15/2002	PROFILE	250.00	250.00	54.40	54.40	8330N	2,6-DINITROTOLUENE	YES
G201DFA	MW-201	01/15/2002	PROFILE	250.00	250.00	54.40	54.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	NO*
G201DHA	MW-201	01/16/2002	PROFILE	270.00	270.00	74.40	74.40	8330N	2-NITROTOLUENE	YES*
G201DHA	MW-201	01/16/2002	PROFILE	270.00	270.00	74.40	74.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	NO*
G201DHA	MW-201	01/16/2002	PROFILE	270.00	270.00	74.40	74.40	8330N	PICRIC ACID	NO
G201DIA	MW-201	01/16/2002	PROFILE	280.00	280.00	84.40	84.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G201DJA	MW-201	01/16/2002	PROFILE	290.00	290.00	94.40	94.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G201DKA	MW-201	01/16/2002	PROFILE	300.00	300.00	104.40	104.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G201DLD	MW-201	01/16/2002	PROFILE	310.00	310.00	114.40	114.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	YES
G201DLD	MW-201	01/16/2002	PROFILE	310.00	310.00	114.40	114.40	8330N	NITROGLYCERIN	NO
G201DNA	MW-201	01/16/2002	PROFILE	330.00	330.00	134.40	134.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	NO*
G201DNA	MW-201	01/16/2002	PROFILE	330.00	330.00	134.40	134.40	8330N	NITROGLYCERIN	NO
G201DSA	MW-201	01/17/2002	PROFILE	380.00	380.00	184.40	184.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,	NO*
HDJ3200003RPE2	3200003RPE	01/10/2002	SOIL GRID	0.00	0.25			8330N	2-AMINO-4,6-DINITROTOLUENE	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
PDA/NO = Photo Diode Array, Detect Not Confirmed
* = Interference in sample



LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- 2.0 ppb RDX Concentration Contour

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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Figure 1

Explosives in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 1/25/02

Analyte Group
1

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Demo Area 2

Central Impact Area

Demo Area 1

Southeast Corner of the Ranges

CS-19

Gibbs Pond

Succonsette Pond

Opening Pond

J-3 Wetland

Snake Pond

Weeks Pond

Burgoyne Rd

Gibbs Rd

Jefferson Rd

Spruce Swamp Rd

Pocasset Sandwich Rd

Wood Rd

Barlow Rd

Tank Alley

Turpentine Rd

Wheelock Rd

Greenway Rd

Pocasset Forestdale Rd

RANGECON

TEXTRONPW-1

TEXTRONPW-2

SMR-2

SMR-3

SMR-4

WS-1

WS-2

WS-3

RW-1

RW-3

LRMW0003

LRWS4-1

LRWS5-1

LRWS6-1

LRWS7-1

USCGANTST

45

50

55

60

65

70

Scale 1" = 1,200 Feet

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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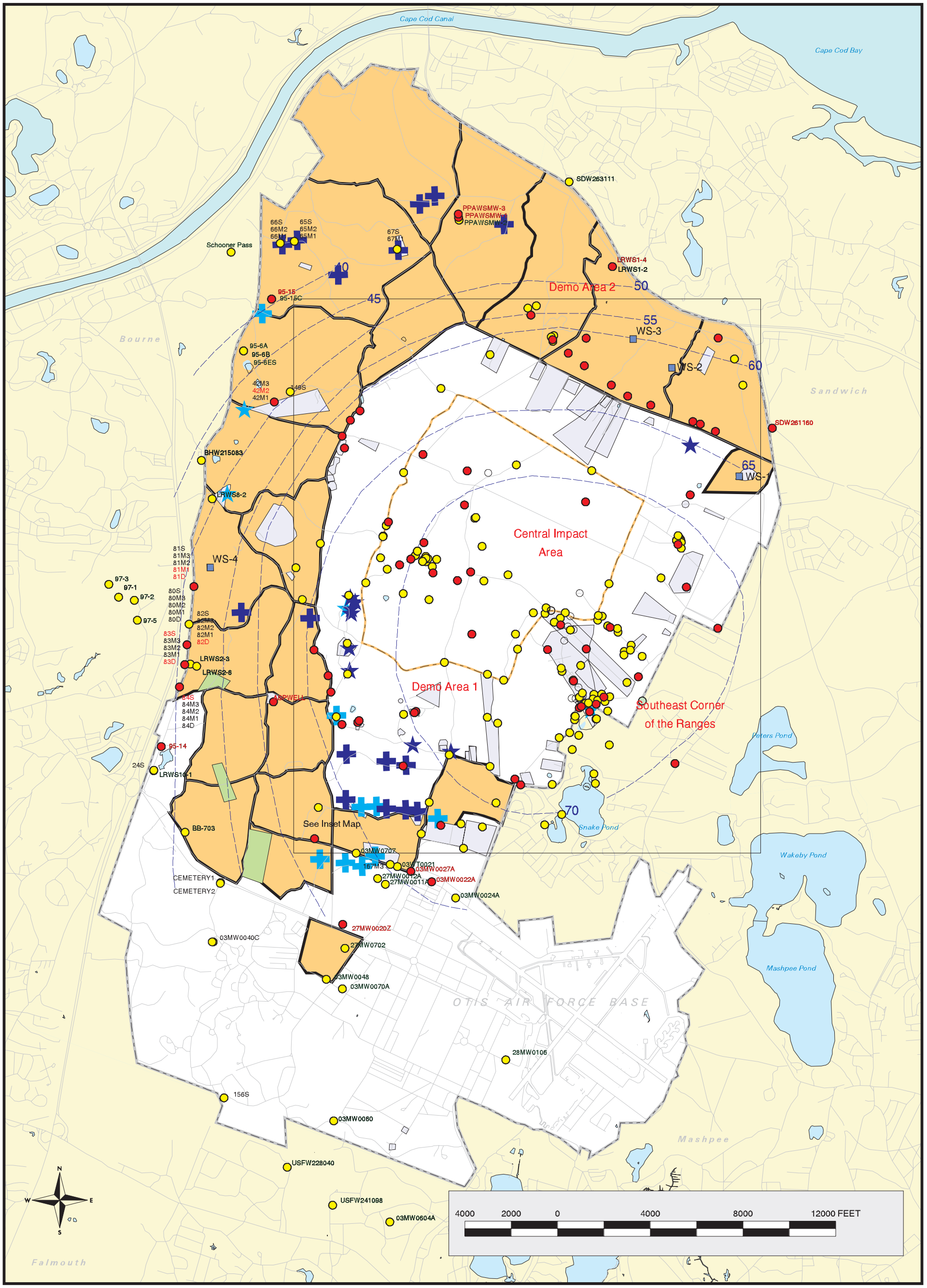
LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- 2.0 ppb RDX Concentration Contour
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

IASWSP Impact Area Groundwater Study Program

Figure 1 - INSET MAP
Explosives in Groundwater
Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02
Analyte Group
1



LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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Figure 2
Metals in Groundwater Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02
Analyte Group
2

Demo Area 2

Central Impact Area

Demo Area 1

Southeast Corner of the Ranges

Gibbs Pond

Burgoyne Rd

Gibbs Rd

Jefferson Rd

Spruce Swamp Rd

Pocasset Sandwich Rd

Wood Rd

Barlow Rd

Greenway Rd

Tank Alley

Turpentine Rd

Wheelock Rd

Pocasset Forestdale Rd

Succonsette Pond

Opening Pond

J-3 Wetland

Snake Pond

Weeks Pond

RANGECON

SMR-2

SMR-3

SMR-4

TEXTRONPW-1

TEXTRONPW-2

WS-1

WS-2

WS-3

RW-1

RW-3

45

50

55

60

65

70

Scale 1" = 1,200 Feet

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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LEGEND

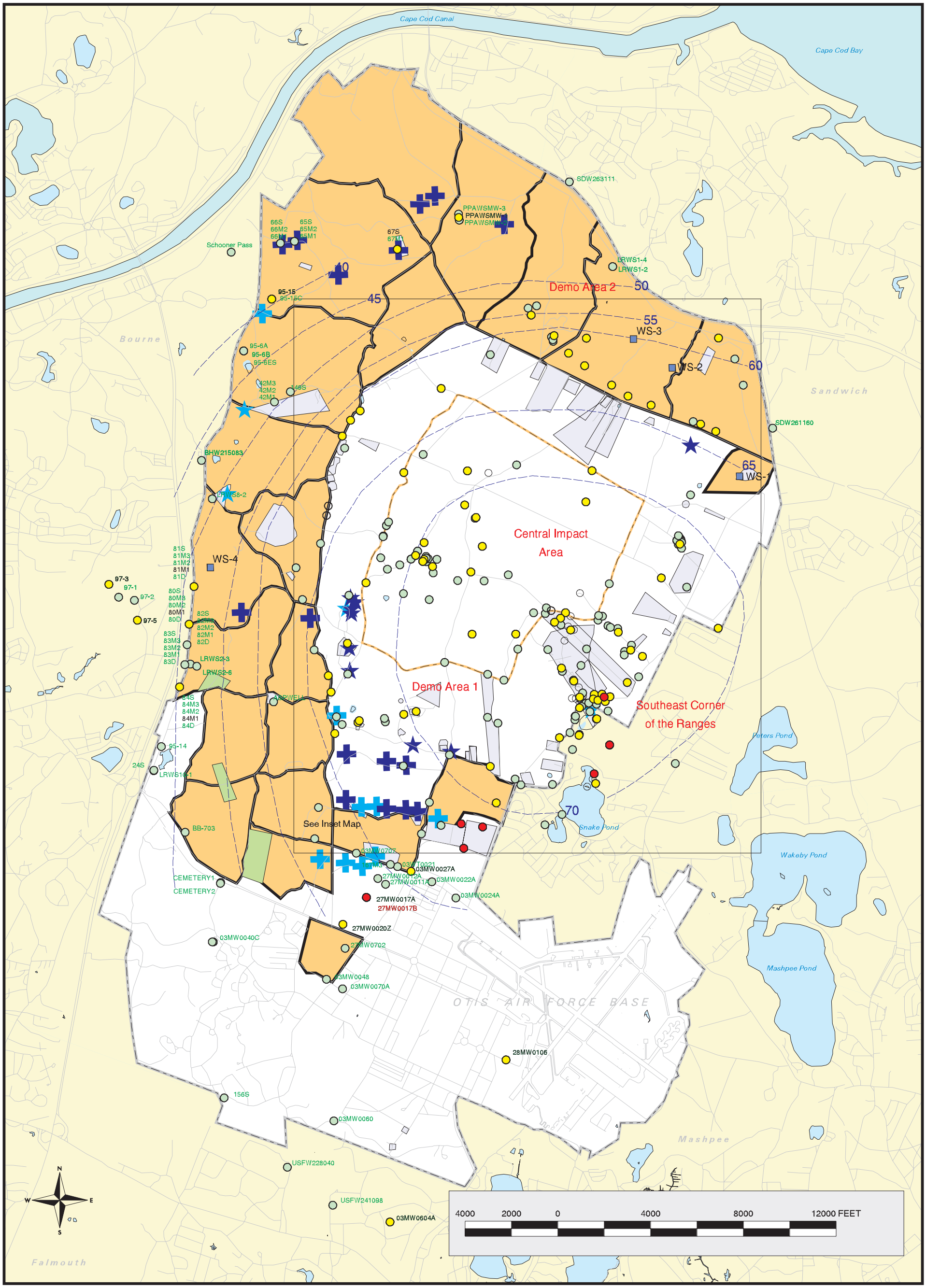
- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

IASWSP Impact Area Groundwater Study Program

Figure 2 - INSET MAP

Metals in Groundwater
Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02

Analyte Group
2



LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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Figure 3
Volatile Organic Compounds (excluding Chloroform) in Groundwater Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02
Analyte Group 3

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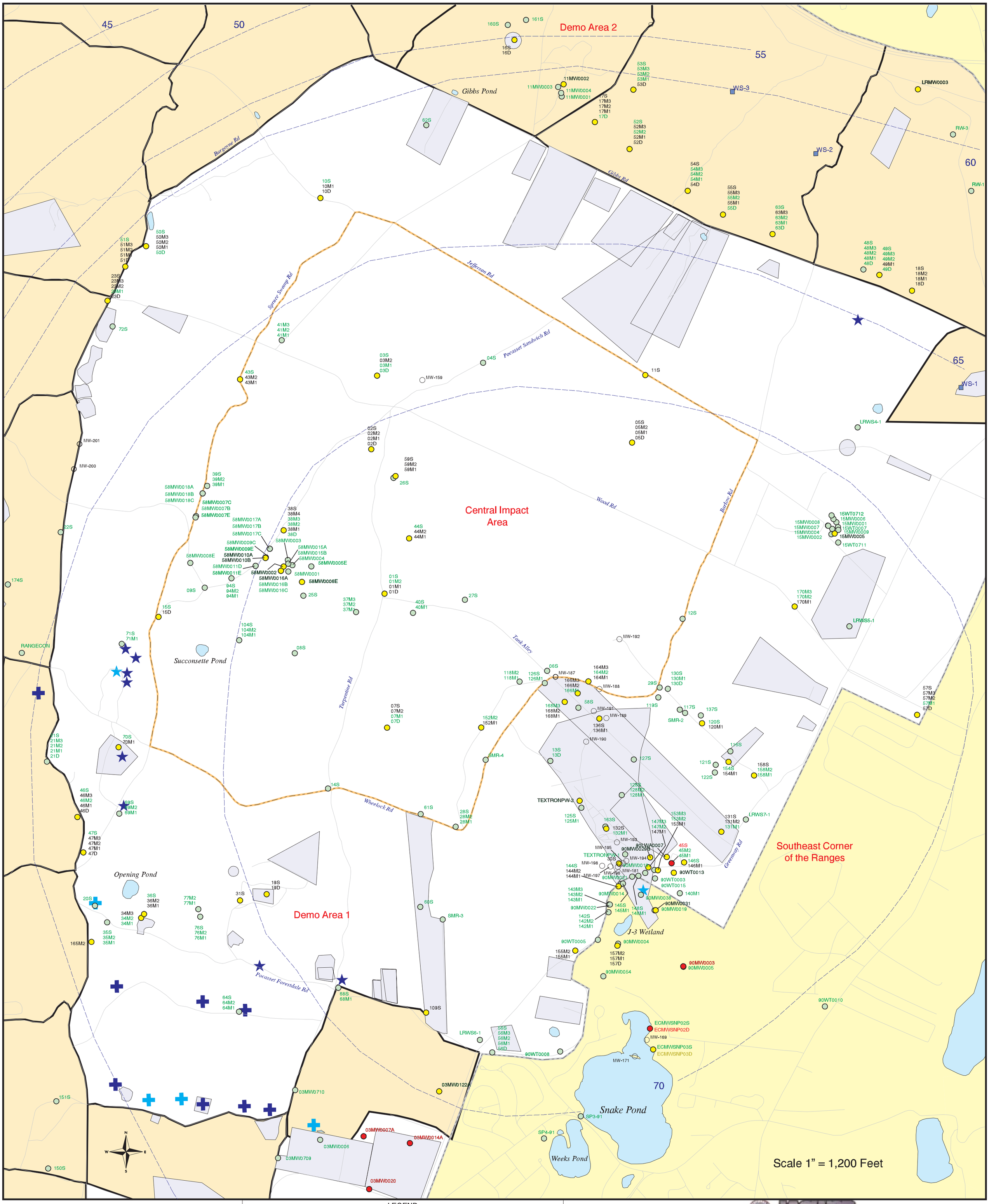

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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LEGEND

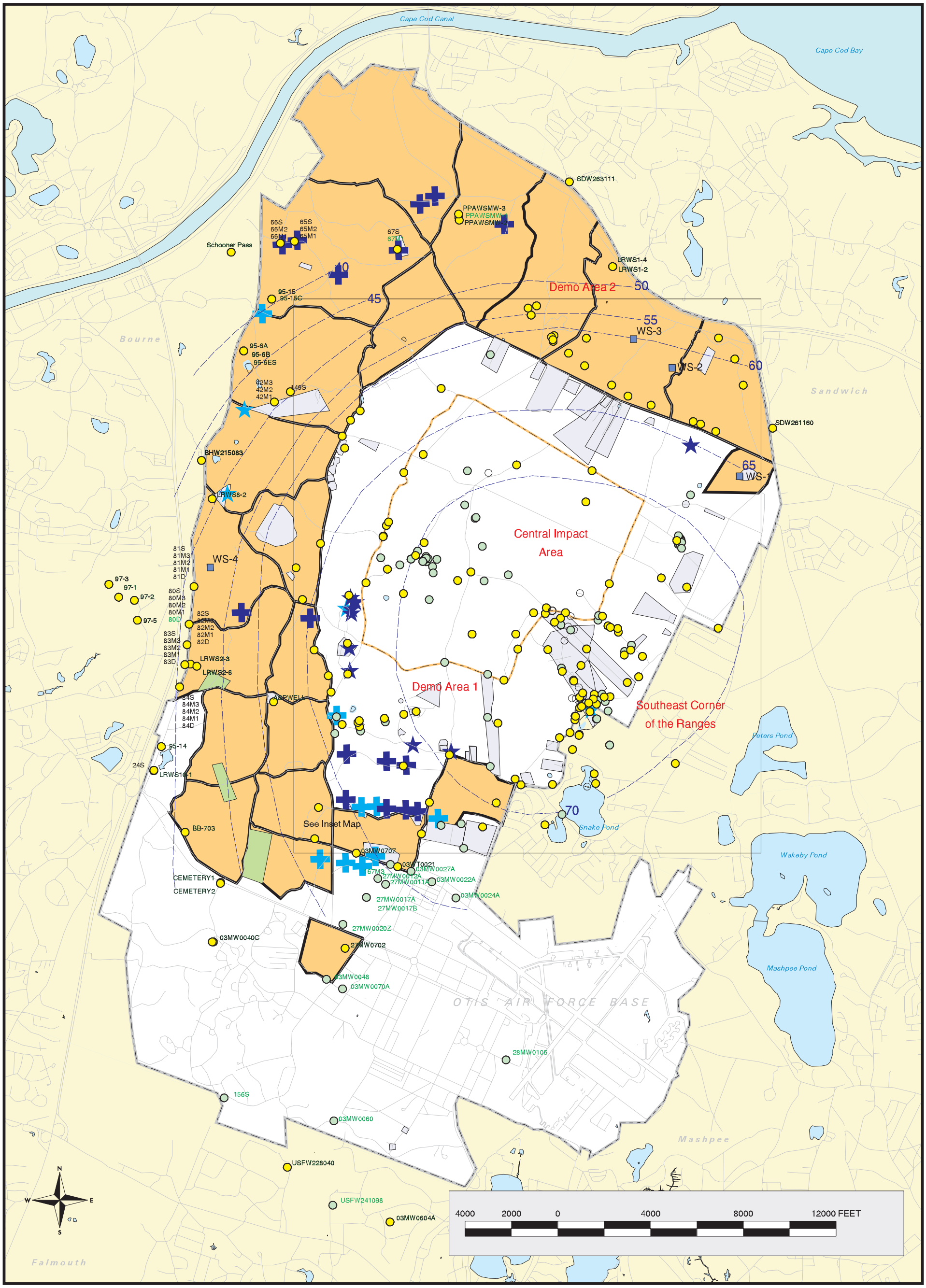
- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

IASWSP Impact Area Groundwater Study Program

Figure 3 - INSET MAP

Volatile Organic Compounds (excluding Chloroform) in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 1/25/02

Analyte Group
3



LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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Figure 4
Chloroform in Groundwater Compared to
Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02
Analyte Group
4

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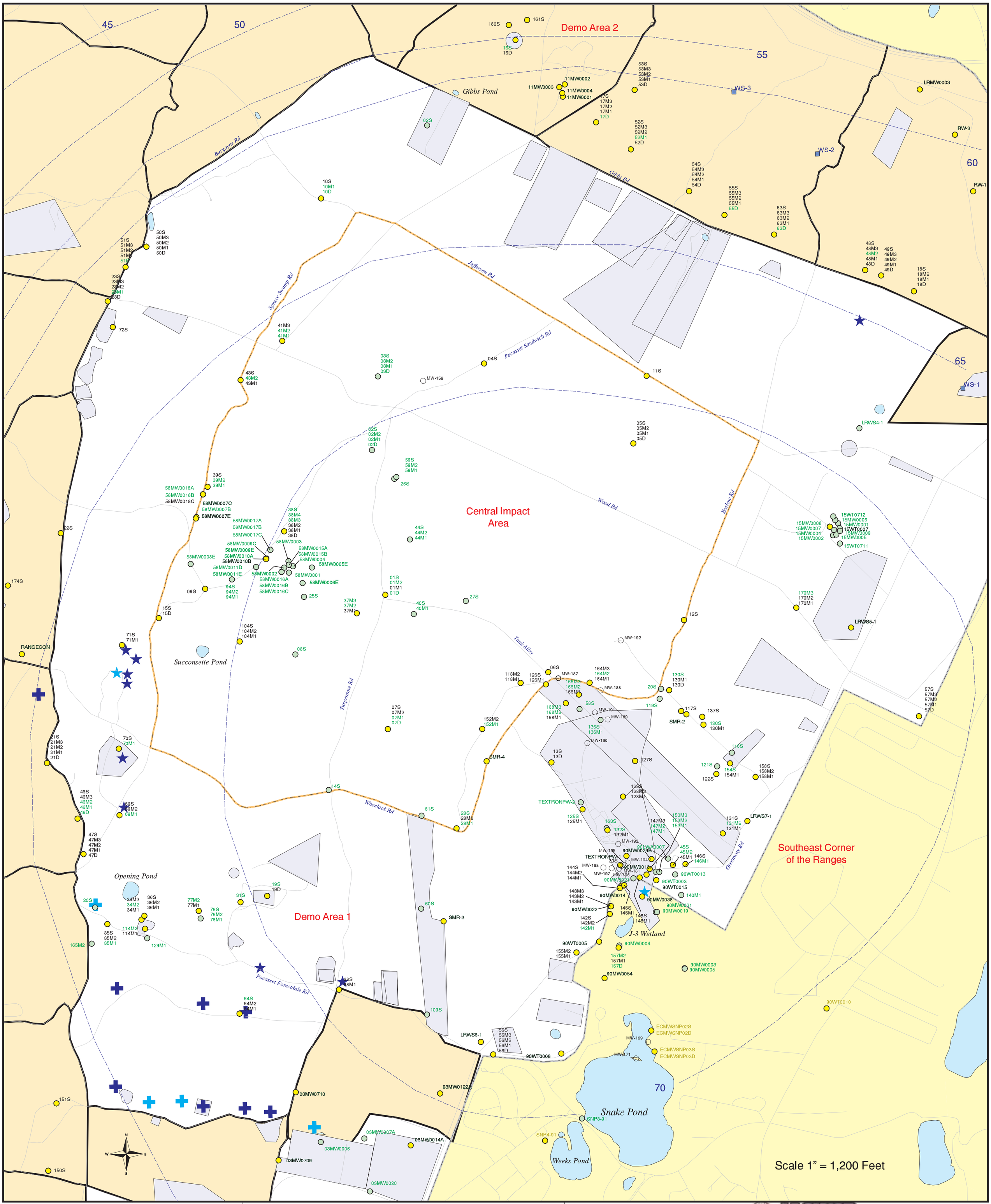

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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LEGEND

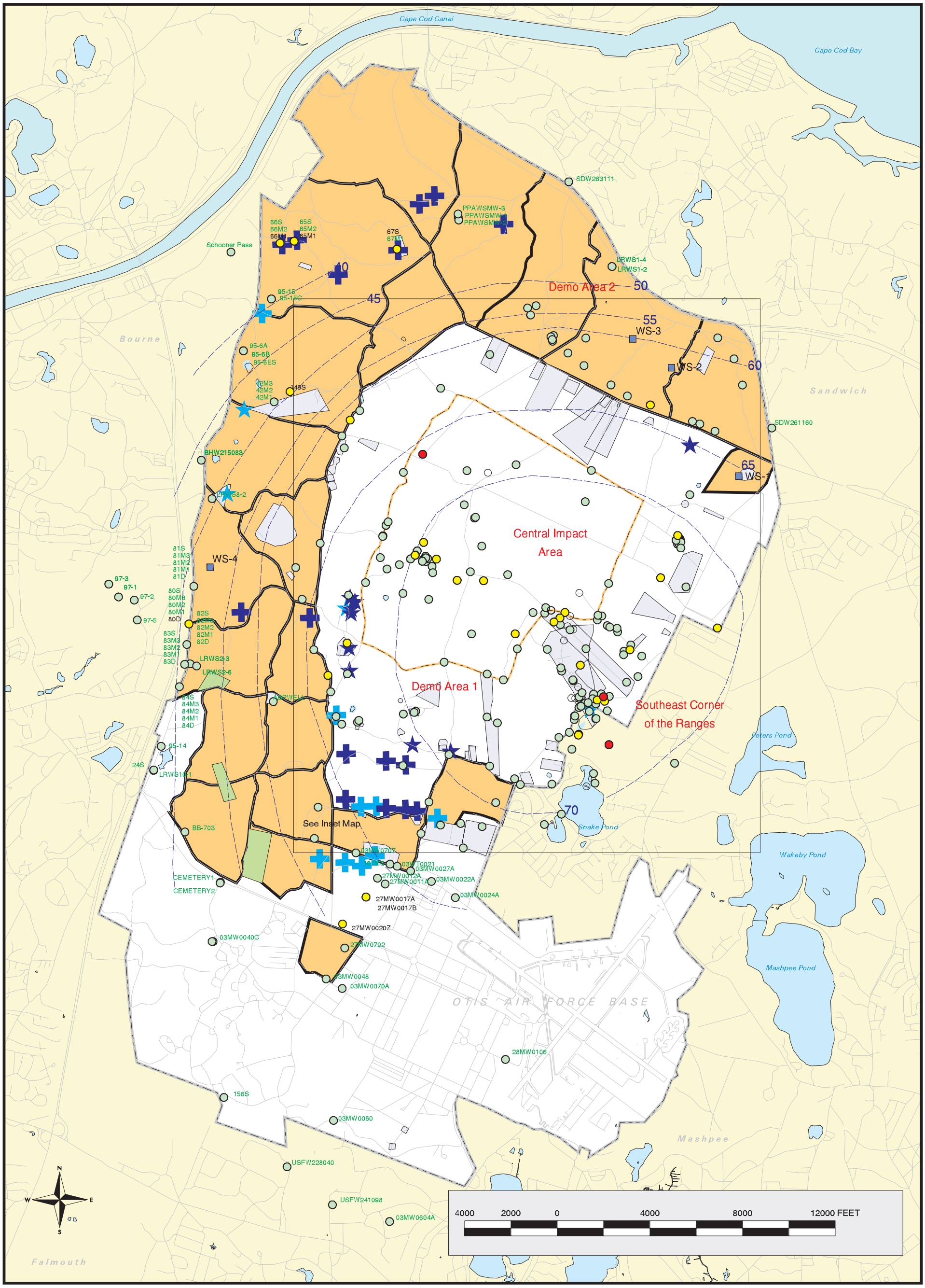
- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

IASWSP Impact Area Groundwater Study Program

Figure 4 - INSET MAP

Chloroform in Groundwater Compared to Maximum Contaminant Level/Health Advisories 1/25/02

Analyte Group
4



LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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Figure 5
Semi-Volatile Organic Compounds (excluding BEHP) in GroundwaterCompared to Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02
Analyte Group 5

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Demo Area 2

Central Impact Area

Demo Area 1

Southeast Corner of the Ranges

Gibbs Pond

Burgoyne Rd

Gibbs Rd

Jefferson Rd

Spruce Swamp Rd

Pocasset Sandwich Rd

Wood Rd

Barlow Rd

Greenway Rd

Tank Alley

Turpentine Rd

Wheelock Rd

Pocasset Forestdale Rd

Succonsette Pond

Opening Pond

J-3 Wetland

Snake Pond

Weeks Pond

RANGECON

WS-1 WS-2 WS-3

RW-1 RW-3

SMR-2 SMR-3 SMR-4

TEXTRONPW-1 TEXTRONPW-2

MW-159 MW-169 MW-171 MW-181 MW-187 MW-188 MW-189 MW-190 MW-191 MW-192 MW-193 MW-194 MW-195 MW-196 MW-197 MW-198

45 50 55 60 65 70

Scale 1" = 1,200 Feet

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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LEGEND

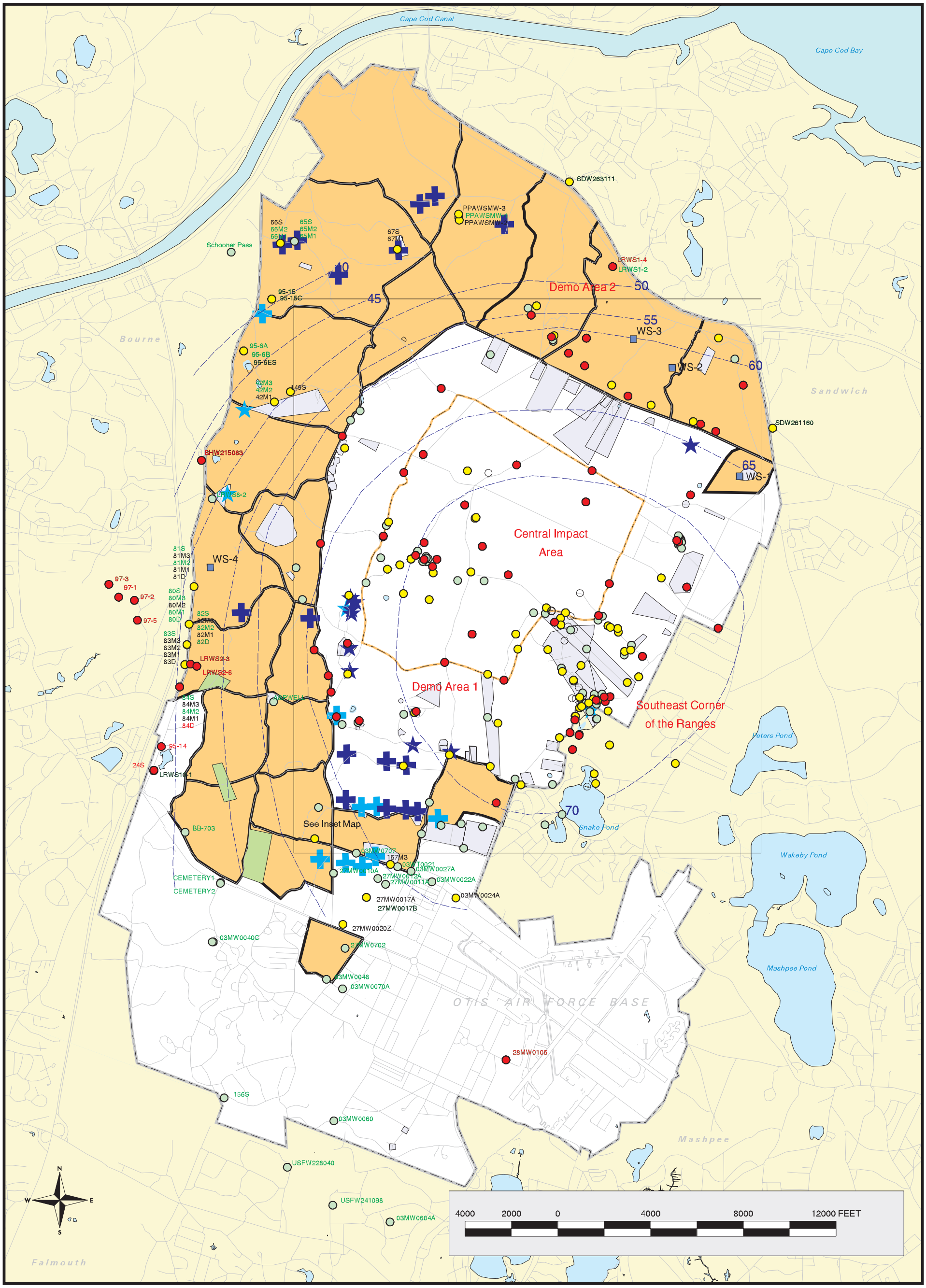
- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

IASWSP Impact Area Groundwater Study Program

Figure 5 - INSET MAP

Semi-Volatile Organic Compounds (excluding BEHP) in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 1/25/02

Analyte Group
5



LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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IAGWSP

Figure 6
BEHP in Groundwater Compared to
Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02

Analyte Group
6

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Demo Area 2

Central Impact Area

Demo Area 1

Southeast Corner of the Ranges

Gibbs Pond

Succonsette Pond

Opening Pond

Snake Pond

Weeks Pond

J-3 Wetland

Burgoyne Rd

Gibbs Rd

Jefferson Rd

Spruce Swamp Rd

Pocasset Sandwich Rd

Wood Rd

Barlow Rd

Greenway Rd

Tank Alley

Turpentine Rd

Wheelock Rd

Pocasset Forestdale Rd

RANGECON

WS-1

WS-2

WS-3

SMR-2

SMR-3

SMR-4

TEXTRONPW-1

TEXTRONPW-2

RW-1

RW-3

45

50

55

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65

70

Scale 1" = 1,200 Feet

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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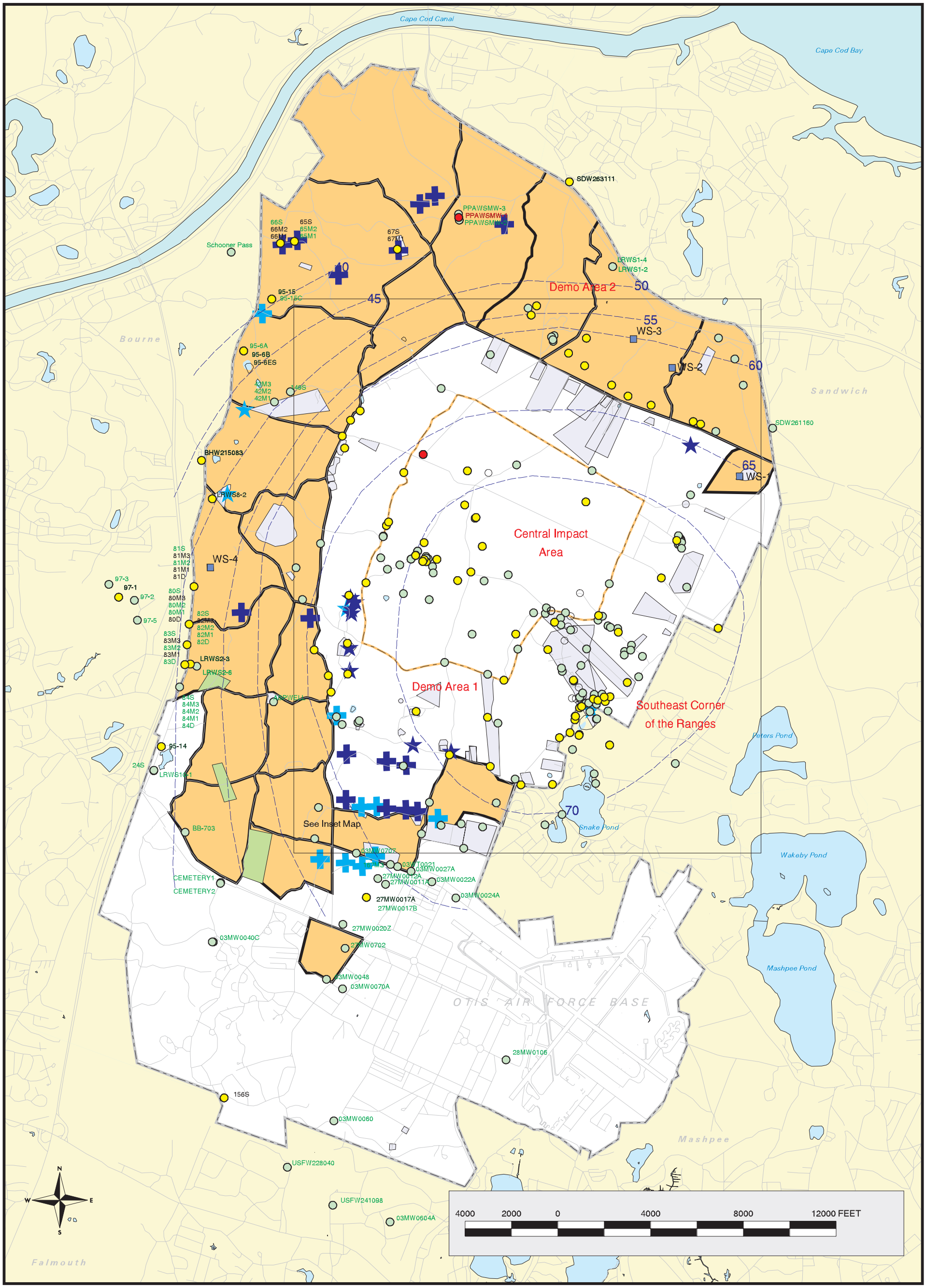
LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

IASWSP Impact Area Groundwater Study Program

Figure 6 - INSET MAP
BEHP in Groundwater
Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02
Analyte Group
6



LEGEND

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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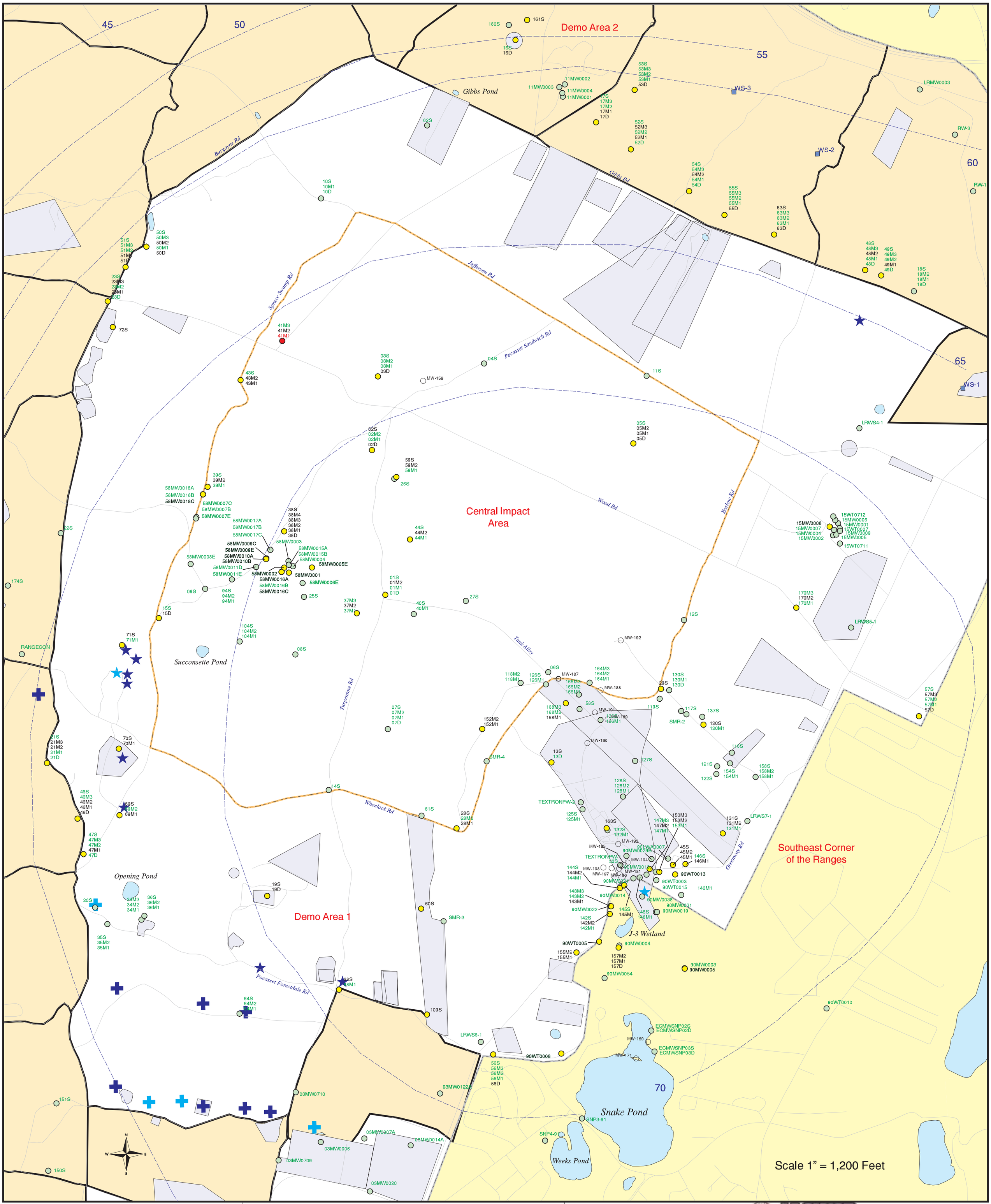
Figure 7

Herbicides and Pesticides in Groundwater
Compared to
Maximum Contaminant Level/Health Advisories
Validated Data as of 1/25/02

Analyte Group 7



Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

amec February 06, 2002 DRAFT

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LEGEND

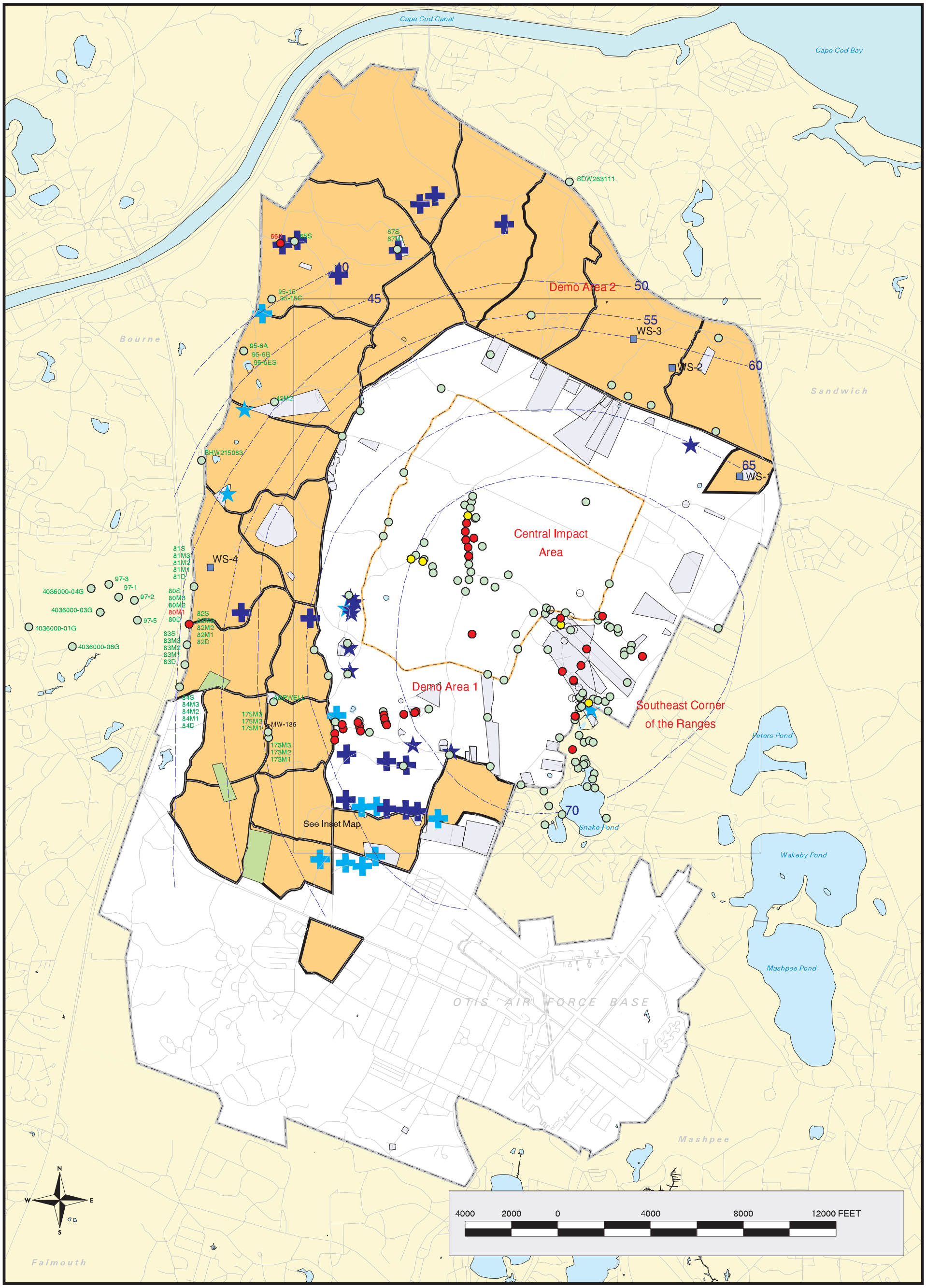
- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection less than Maximum Contaminant Level/Health Advisories
- Validated Non-detect
- No Data Available
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

IASWSP Impact Area Groundwater Study Program

Figure 7 - INSET MAP

Herbicides and Pesticides in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 1/25/02

Analyte Group
7



LEGEND

- Validated Detection Greater than or Equal to EPA Limit
- Validated Detection Less than EPA Limit
- Validated Non-detect
- No Data Available
- Combat Training Areas
- Military Training Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

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Figure 8
Perchlorate in Groundwater
Compared to EPA Limit
Validated Data as of 1/25/02
Analyte Group
8

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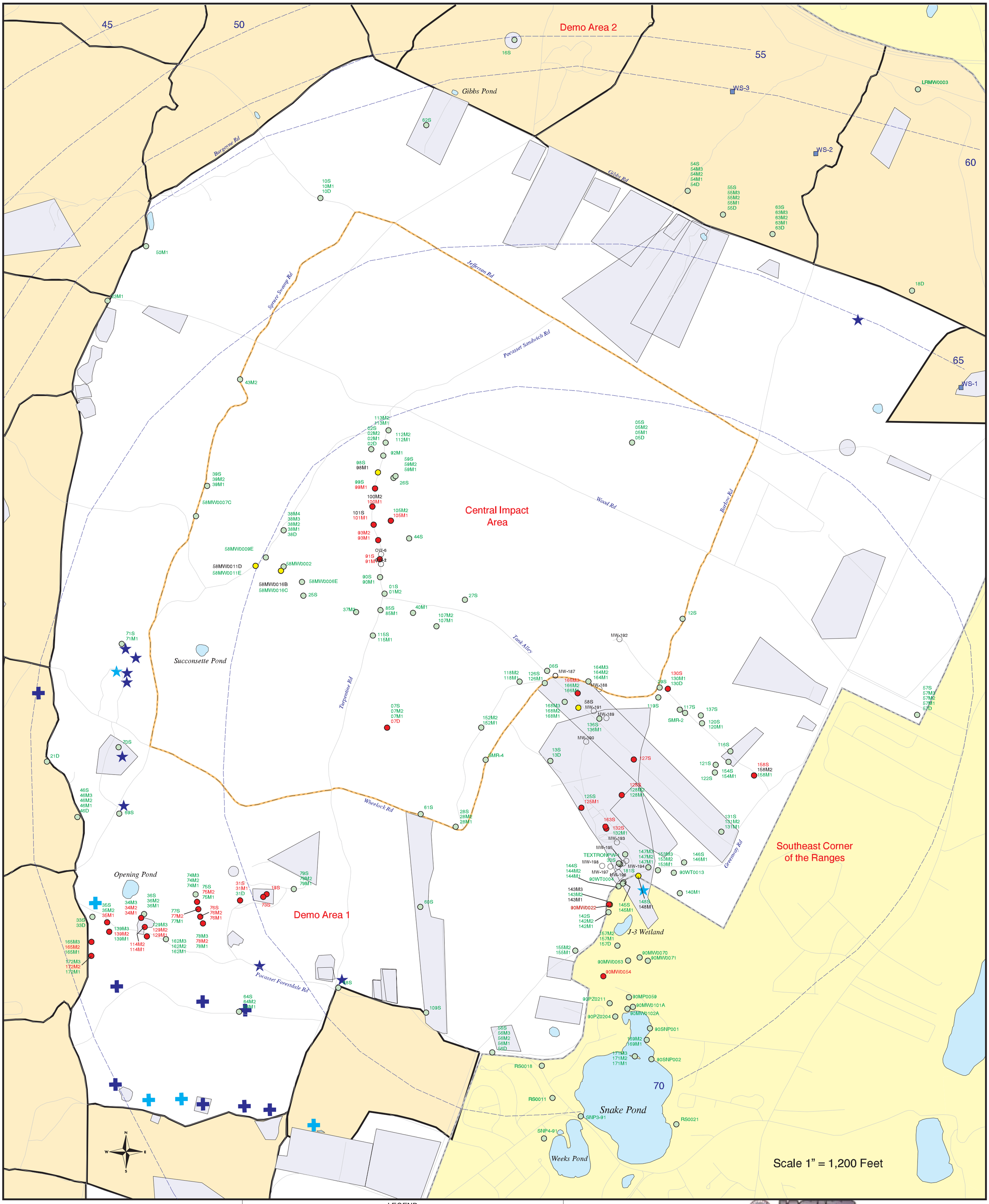

Sources & Notes
Base data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

amec February 06, 2002 DRAFT

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LEGEND

- Validated Detection Greater than or Equal to EPA Limit
- Validated Detection Less than EPA Limit
- Validated Non-detect
- No Data Available
- Recent Gun Position
- Recent Mortar Position
- Old Gun Position
- Old Mortar Position
- Military Ranges
- Military Training Areas

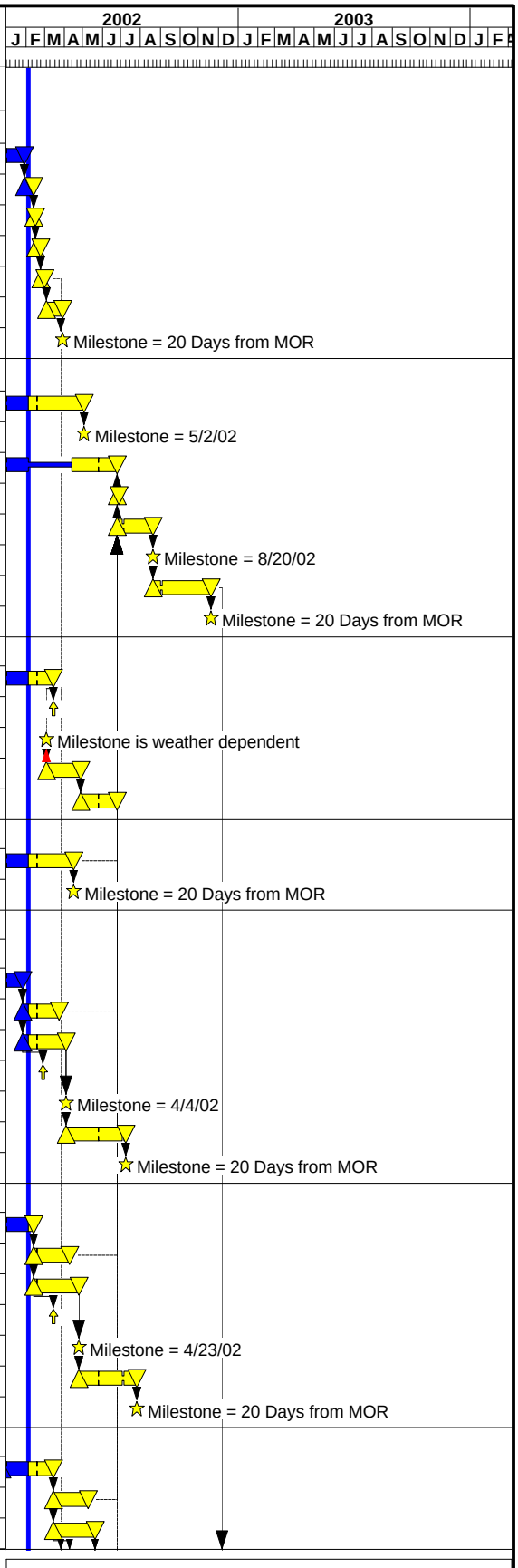
IASWSP Impact Area Groundwater Study Program

Figure 8 - INSET MAP

Perchlorate in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 1/25/02

Analyte Group
8

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Site Characterization (AO1)					
Demo Area 1					
00166	Agency Review/Comment on Soil		0	11DEC01A	28JAN02A
00167	Guard Prepare/Submit RCL		5	29JAN02A	11FEB02
00168	Resolution Meeting (if needed)		1	14FEB02	14FEB02
00169	Guard Prepare/Submit MOR (if needed)		5	15FEB02	22FEB02
00171	EPA Approve MOR (if needed)		5	25FEB02	01MAR02
00172	Guard Prepare Final Soil Report		20	04MAR02	29MAR02
00159	Demo 1 Final Soil Report	YES	0		29MAR02
Central Impact Area					
00285	Install 17 Additional Well Nests		62	13DEC01A	02MAY02
00287	Complete 17 Additional Well Nests	YES	0		02MAY02
00290	Revise Draft Soil Report		50	17JUL01A	24JUN02
00260	Coordination Meeting CIA Soil Report		1	25JUN02	25JUN02
00261	Final Revisions CIA Soil Report		40	25JUN02	20AUG02
00262	Submit Draft Final CIA Soil Report	YES	0		20AUG02
00263	Revise Draft Final CIA Soil Report		65	21AUG02	20NOV02
00292	Final Soil Report	YES	0		20NOV02
Impact Area Targets (Phase 2)					
01820	Targets Revise Draft Workplan		27	06NOV01A	14MAR02
01830	Targets Final Workplan		0		14MAR02
01840	Targets Start Data Cllctn	YES	0	04MAR02	
01850	Targets Investigation (Phase 2)		40	04MAR02*	26APR02
01860	Lab Analysis/Data Validation		40	29APR02	24JUN02
High Use Target Area 1					
01190	HUTA Revise Draft Report		50	01NOV01A	16APR02
01195	HUTA Final Report	YES	0		16APR02
High Use Target Area 2					
Site #1					
01903	Fieldwork		0	13NOV01A	25JAN02A
01904	Lab Analysis/Data Validation		34	28JAN02A	25MAR02
01905	Prepare Report		42	28JAN02A	04APR02
01906	Submit Draft Report (w/o analytical)		0		25FEB02
01907	Submit Draft Report (w/ analytical)	YES	0		04APR02
01908	Revise Draft Report		65	05APR02	08JUL02
01909	Submit Final Report	YES	0		08JUL02
Site #2					
01913	Fieldwork		7	13NOV01A	13FEB02
01914	Lab Analysis/Data Validation		40	14FEB02	11APR02
01915	Prepare Report		48	14FEB02	23APR02
01916	Submit Draft Report (w/o analytical)		0		14MAR02
01917	Submit Draft Report (w/ analytical)	YES	0		23APR02
01918	Revise Draft Report		65	24APR02	25JUL02
01919	Submit Final Report	YES	0		25JUL02
Site #3					
01923	Fieldwork		27	20DEC01A	14MAR02
01924	Lab Analysis/Data Validation		40	15MAR02	09MAY02
01925	Prepare Report		48	15MAR02	21MAY02



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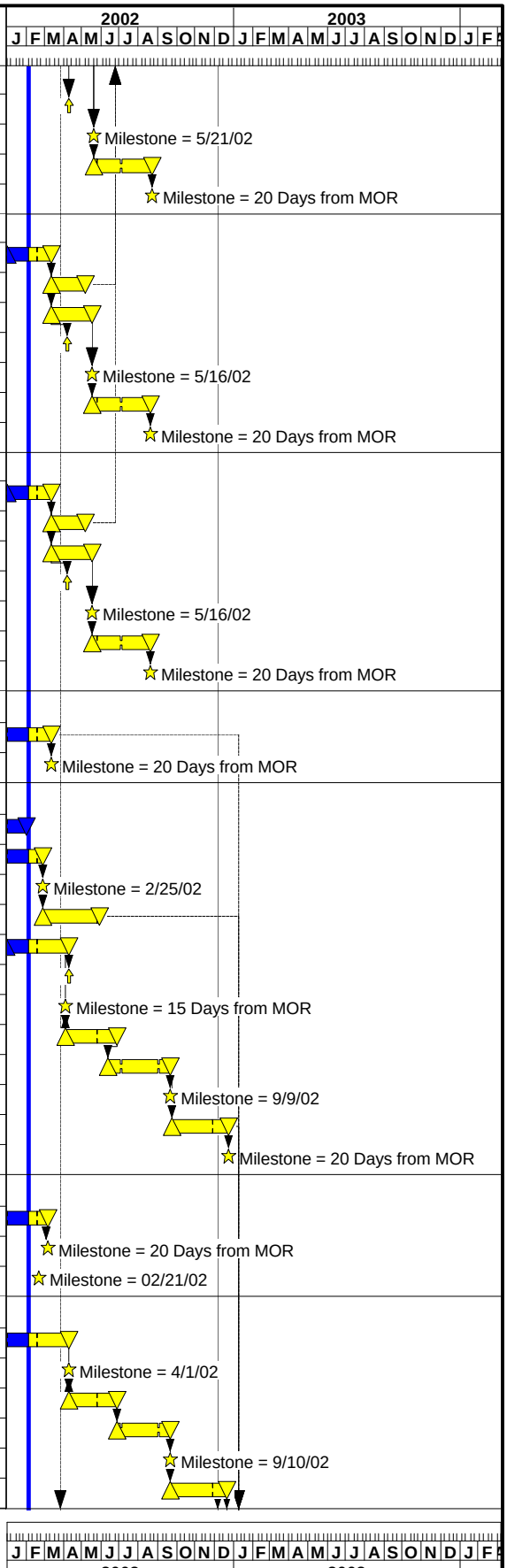
Site #3					
01926	Submit Draft Report (w/o analytical)		0		11APR02
01927	Submit Draft Report (w/ analytical)	YES	0		21MAY02
01928	Revise Draft Report		65	22MAY02	22AUG02
01929	Submit Final Report	YES	0		22AUG02
Site #4					
01933	Fieldwork		24	31DEC01A	11MAR02
01934	Lab Analysis/Data Validation		40	12MAR02	06MAY02
01935	Prepare Report		48	12MAR02	16MAY02
01936	Submit Draft Report (w/o analytical)		0		08APR02
01937	Submit Draft Report (w/ analytical)	YES	0		16MAY02
01938	Revise Draft Report		65	17MAY02	19AUG02
01939	Submit Final Report	YES	0		19AUG02
Site #5					
01943	Fieldwork		24	31DEC01A	11MAR02
01944	Lab Analysis/Data Validation		40	12MAR02	06MAY02
01945	Prepare Report		48	12MAR02	16MAY02
01946	Submit Draft Report (w/o analytical)		0		08APR02
01947	Submit Draft Report (w/ analytical)	YES	0		16MAY02
01948	Revise Draft Report		65	17MAY02	19AUG02
01949	Submit Final Report	YES	0		19AUG02
J-2 Range					
00397	J-2 Range Revise Draft Report		24	04DEC01A	11MAR02
00398	J-2 Range Final Report	YES	0		11MAR02
J-1/J-3 Range					
00494	Additional Delineation Investigation		0	30AUG01A	01FEB02A
00495	Additional Delineation Report Prep.		14	12NOV01A	25FEB02
00496	Additional Delineation Draft Report	YES	0		25FEB02
00497	Additional Delineation Rev. Draft Report		65	26FEB02	28MAY02
00482	Revise Draft ADWP #2		46	26DEC01A	10APR02
00483	Submit Final ADWP #2		0		10APR02
00484	Start J-1/J-3/L Addn'l Delineation	YES	0	04APR02	
00485	Additional Delineation Investigation		60	04APR02	27JUN02
00486	J1/J3/L Range Draft Final Rep. Prep.		70	13JUN02	20SEP02
00487	J1/J3/L Range Draft Final Report	YES	0		20SEP02
00488	Revise J1/J3/L Range Draft Final Rep.		65	23SEP02	23DEC02
00489	J1/J3/L Range Final Report	YES	0		23DEC02
Gun/Mortar Positions					
00549	Gun/Mortar Rev. Draft Final		21	01AUG01A	06MAR02
00550	Gun/Mortar Final Report	YES	0		06MAR02
00566	Submit G/M Draft ACWP	YES	0		21FEB02
Training Areas					
00860	Training Areas Background		45	20MAR00A	09APR02
00862	Start Training Areas Fieldwork	YES	0	10APR02	
00864	Training Areas Fieldwork		54	10APR02	25JUN02
00870	Training Areas Report Preparation		60	26JUN02	19SEP02
00880	Submit Training Areas Draft Report	YES	0		19SEP02
00890	Training Areas Rev. Draft Report		65	20SEP02	20DEC02



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Training Areas					
00895	Training Areas Final Report	YES	0		20DEC02
Phase II(b)					
01560	Revise Draft Report		40	20AUG01A	02APR02
01570	Phase II(b) Final Report	YES	0		02APR02
01572	Former A/K/Demo 2 Report Preparation		0	20AUG01A	23JAN02A
01574	Former A/K/Demo 2 Draft Report	YES	0		23JAN02A
01576	Revise Draft Report		57	24JAN02A	25APR02
01578	Former A/K/Demo 2 Final Report	YES	0		25APR02
Munition Survey Project					
MSP Phase I					
01625	Revise Revised MSP Phase I Draft		50	04SEP01A	16APR02
01630	Submit MSP Phase I Final Report	YES	0		16APR02
MSP Phase II					
AirMag Target Lists					
01708	Revise Draft Report		17	06NOV01A	28FEB02
01709	Submit Final Report	YES	0		28FEB02
Demo 1 Validation					
01718	Revise Draft Report		30	22OCT01A	19MAR02
01719	Submit Final Report	YES	0		19MAR02
Slit Trench Validation					
01728	Revise Draft Report		22	07NOV01A	07MAR02
01729	Submit Final Report	YES	0		07MAR02
J1 Range Vehicle Removal					
01738	Revise Draft Report		22	04OCT01A	07MAR02
01739	Submit Final Report	YES	0		07MAR02
ASP Geophysics					
01748	Revise Draft Report		30	26OCT01A	19MAR02
01749	Submit Final Report	YES	0		19MAR02
Former K Range					
01758	Revise Draft Report		30	05NOV01A	19MAR02
01759	Submit Final Report	YES	0		19MAR02
Former A Range					
01768	Revise Draft Report		30	20NOV01A	19MAR02
01769	Submit Final Report	YES	0		19MAR02
Succonsette Pond					
01778	Revise Draft Report		22	24OCT01A	07MAR02
01779	Submit Final Report	YES	0		07MAR02
Demo Area 2					
01788	Revise Draft Report		50	06DEC01A	16APR02
01789	Submit Final Report	YES	0		16APR02
CIA MSP Sites #1 and #2					
01794	Complete Fieldwork	YES	0		08APR02
01795	Prepare Report		47	09APR02	13JUN02
01797	Submit Draft Report	YES	0		13JUN02
01798	Revise Draft Report		65	14JUN02	16SEP02
01799	Submit Final Report	YES	0		16SEP02

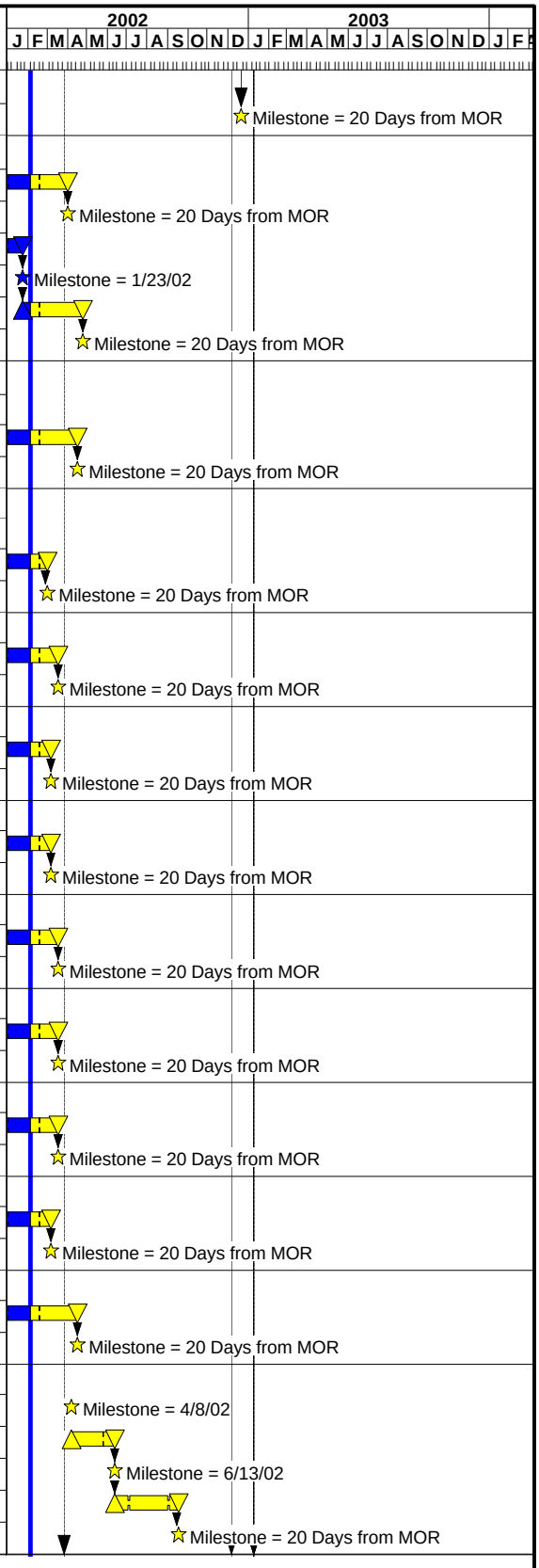

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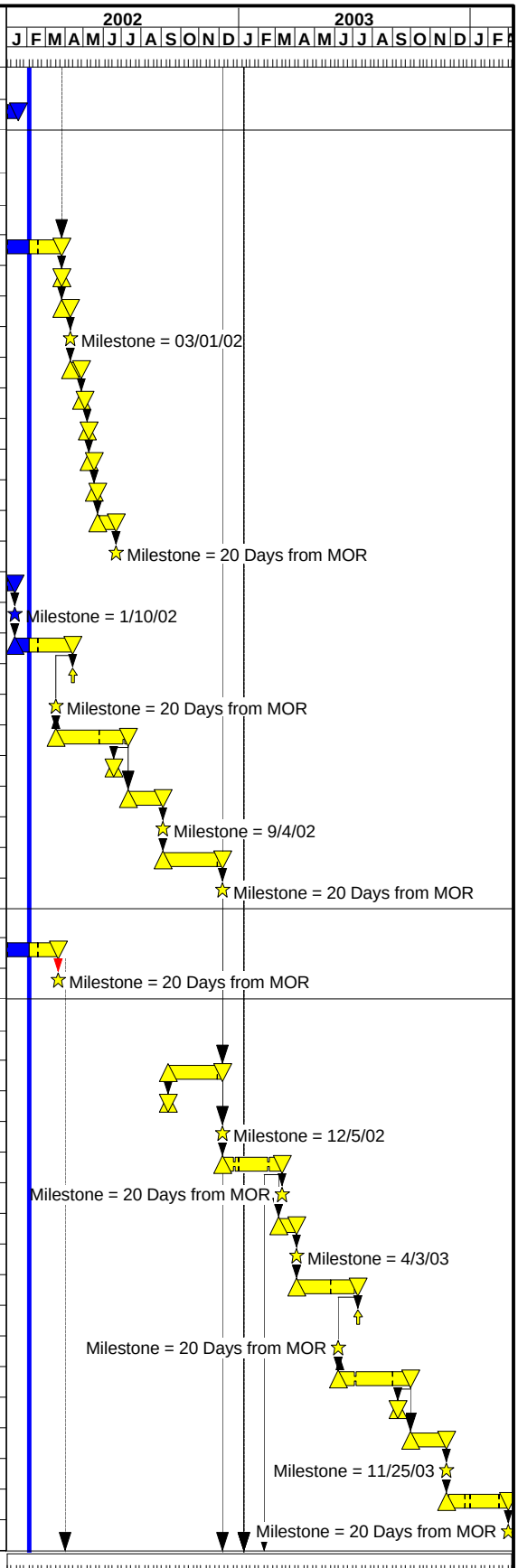
Figure 9. Combined Schedule for the Impact Area GW Study Program as of 2/5/02

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Groundwater Monitoring Programs					
08210	CY 2001 Interim LT Monitoring		0	26APR01A	18JAN02A
Feasibility Studies (AO3)					
Demo Area 1					
Soil Operable Unit					
21190	Revise Draft FS Screening Report		35	22JUN01A	26MAR02
21191	Coordination Meeting		1	27MAR02	27MAR02
21192	Final Revisions Demo 1 FSSR		11	28MAR02	11APR02
21193	Submit Draft Final Demo 1 FSSR	YES	0		11APR02
21194	Agency Review & Comment		11	12APR02	26APR02
21195	Guard Prepare/Submit RCL		5	29APR02	03MAY02
21196	Resolution Meeting (if needed)		1	08MAY02	08MAY02
21197	Guard Prepare/Submit MOR (if needed)		6	09MAY02	16MAY02
21198	EPA Approve MOR (if needed)		5	17MAY02	23MAY02
21199	Guard Prepare Final FSSR (if needed)		20	24MAY02	21JUN02
21200	Final FS Screening Report	YES	0		21JUN02
21210	Post-Screening Invest. Workplan Prep.		0	11DEC01A	10JAN02A
21220	Draft Post-Screening Invest. Workplan	YES	0		10JAN02A
21230	Revise Draft PSI Workplan		48	11JAN02A	12APR02
21240	Final Post-Screening Workplan		0		12APR02
21250	Start Post-Screening Investigation	YES	0	18MAR02	
21260	Post-Screening Investigation		80	18MAR02	09JUL02
21270	FS Scoping Meeting		1	18JUN02	18JUN02
21310	FS Preparation		40	10JUL02	04SEP02
21320	Draft FS	YES	0		04SEP02
21330	Revise Draft FS		65	05SEP02	05DEC02
21340	Final FS	YES	0		05DEC02
Groundwater Operable Unit					
21670	Revise Draft FS		33	02OCT01A	22MAR02
21680	Final FS	YES	0		22MAR02
Central Impact Area					
Soil Operable Unit					
22110	FS Screening Report Preparation		60	12SEP02	05DEC02
22112	Scoping Meeting for FSSR		1	11SEP02	11SEP02
22120	Draft FS Screening Report	YES	0		05DEC02
22130	Revise Draft FS Screening Report		65	06DEC02	11MAR03
22140	Final FS Screening Report	YES	0		11MAR03
22150	Post-Screening Invest. Workplan Prep.		22	05MAR03	03APR03
22160	Draft Post-Screening Invest. Workplan	YES	0		03APR03
22170	Revise Draft PSI Workplan		65	04APR03	07JUL03
22180	Final Post-Screening Workplan		0		07JUL03
22190	Start Post-Screening Investigation	YES	0	09JUN03	
22200	Post-Screening Investigation		80	09JUN03	30SEP03
22202	FS Scoping Meeting		1	10SEP03	10SEP03
22210	FS Preparation		40	01OCT03	25NOV03
22220	Draft FS	YES	0		25NOV03
22230	Revise Draft FS		65	26NOV03	01MAR04
22240	Final FS	YES	0		01MAR04



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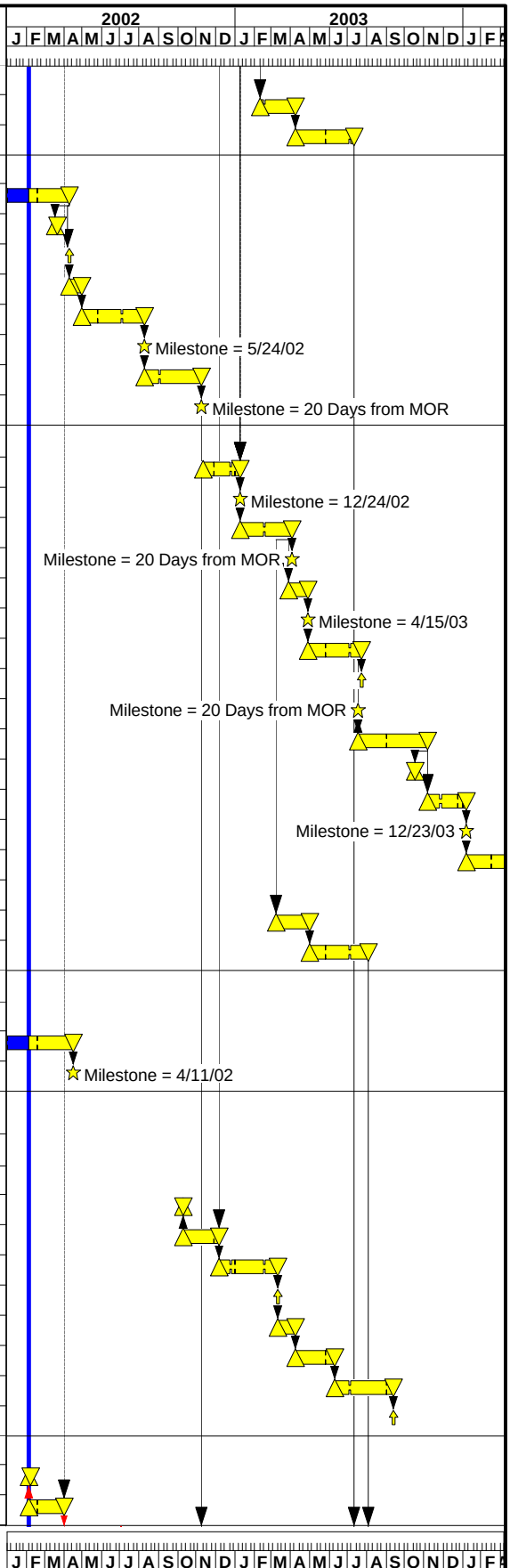
Soil Operable Unit					
22250	(Draft FS if no PSI)		40	11FEB03	08APR03
22260	(Final FS if no PSI)		65	09APR03	10JUL03
Groundwater Operable Unit					
22390	Post-Screening Investigation		45	21SEP01A	09APR02
22391	FS Scoping Meeting		1	20MAR02	20MAR02
22392	Draft Pump Test Report		0		09APR02
22394	Review/Approve Pump Test Report		15	10APR02	30APR02
22400	FS Preparation		69	01MAY02	07AUG02
22410	Draft FS	YES	0		07AUG02
22420	Revise Draft FS		65	08AUG02	07NOV02
22430	Final FS	YES	0		07NOV02
SE Corner of Ranges					
23110	FS Screening Report Preparation		40	11NOV02	08JAN03
23120	Draft FS Screening Report	YES	0		08JAN03
23130	Revise Draft FS Screening Report		60	09JAN03	03APR03
23140	Final FS Screening Report	YES	0		03APR03
23150	Post-Screening Invest. Workplan Prep.		22	28MAR03	28APR03
23160	Draft Post-Screening Invest. Workplan	YES	0		28APR03
23170	Revise Draft PSI Workplan		60	29APR03	23JUL03
23180	Final Post-Screening Workplan		0		23JUL03
23190	Start Post-Screening Investigation	YES	0	17JUL03	
23200	Post-Screening Investigation		80	17JUL03	06NOV03
23202	FS Scoping Meeting		1	17OCT03	17OCT03
23210	FS Preparation		40	07NOV03	06JAN04
23220	Draft FS	YES	0		06JAN04
23230	Revise Draft FS		60	07JAN04	31MAR04
23240	Final FS	YES	0		31MAR04
23250	(Draft FS if no PSI)		40	07MAR03	01MAY03
23260	(Final FS if no PSI)		65	02MAY03	04AUG03
UXO					
UXO Operable Unit					
24130	Revise Draft FS Screening Report		50	21MAR01A	16APR02
24140	Final FS Screening Report	YES	0		16APR02
Remedy Selection (AO3)					
Demo Area 1					
Soil Operable Unit					
31105	Soil RS Plan Scoping Meeting		1	10OCT02	10OCT02
31110	Prepare Draft Remedy Selection Plan		40	10OCT02	05DEC02
31120	Revise Draft Remedy Selection Plan		65	06DEC02	11MAR03
31130	Remedy Selection Plan		0		11MAR03
31140	Public Comment Period		21	12MAR03	09APR03
31150	Draft Decision Doc/ Response		44	10APR03	11JUN03
31160	Revise Draft DD/RS		65	12JUN03	12SEP03
31170	Final Decision Doc/ Response		0		12SEP03
Groundwater Operable Unit					
31505	GW RS Plan Scoping Meeting		1	05FEB02*	05FEB02
31510	Prepare Draft Remedy Selection Plan		40	05FEB02	02APR02



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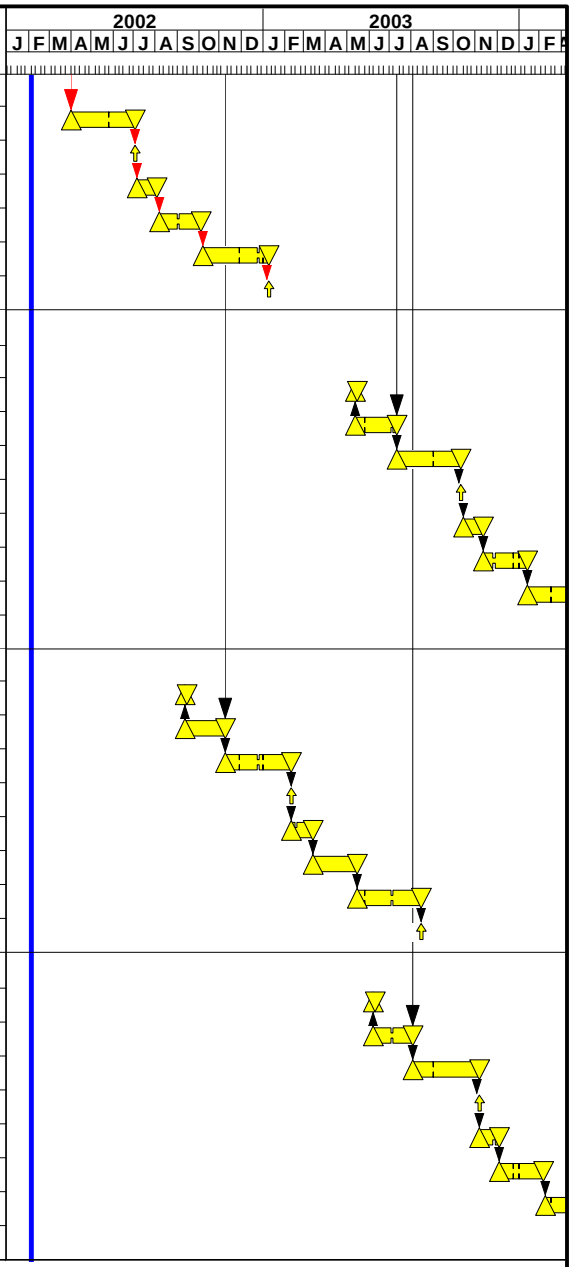
Groundwater Operable Unit					
31520	Revise Draft Remedy Selection Plan		65	03APR02	03JUL02
31530	Remedy Selection Plan		0		03JUL02
31540	Public Comment Period		21	05JUL02	02AUG02
31550	Draft Decision Doc/ Response		44	05AUG02	04OCT02
31560	Revise Draft DD/RS		65	07OCT02	08JAN03
31570	Final Decision Doc/ Response		0		08JAN03
Central Impact Area					
Soil Operable Unit (if no PSI)					
32105	Soil RS Plan Scoping Meeting		1	14MAY03	14MAY03
32110	Prepare Draft Remedy Selection Plan		40	14MAY03	10JUL03
32120	Revise Draft Remedy Selection Plan		65	11JUL03	10OCT03
32130	Remedy Selection Plan		0		10OCT03
32140	Public Comment Period		21	13OCT03	10NOV03
32150	Draft Decision Doc/ Response		44	11NOV03	14JAN04
32160	Revise Draft DD/RS		65	15JAN04	15APR04
32170	Final Decision Doc/ Response		0		15APR04
Groundwater Operable Unit					
32505	GW RS Plan Scoping Meeting		1	13SEP02	13SEP02
32510	Prepare Draft Remedy Selection Plan		40	13SEP02	07NOV02
32520	Revise Draft Remedy Selection Plan		65	08NOV02	11FEB03
32530	Remedy Selection Plan		0		11FEB03
32540	Public Comment Period		21	12FEB03	13MAR03
32550	Draft Decision Doc/ Response		44	14MAR03	14MAY03
32560	Revise Draft DD/RS		65	15MAY03	15AUG03
32570	Final Decision Doc/ Response		0		15AUG03
SE Corner of Ranges (if no PSI)					
33105	RS Plan Scoping Meeting		1	09JUN03	09JUN03
33110	Prepare Draft Remedy Selection Plan		40	09JUN03	04AUG03
33120	Revise Draft Remedy Selection Plan		65	05AUG03	04NOV03
33130	Remedy Selection Plan		0		04NOV03
33140	Public Comment Period		21	05NOV03	04DEC03
33150	Draft Decision Doc/ Response		44	05DEC03	06FEB04
33160	Revise Draft DD/RS		65	09FEB04	10MAY04
33170	Final Decision Doc/ Response		0		10MAY04



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