MONTHLY PROGRESS REPORT #52
FOR JULY 2001

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 July 1 to July 31, 2001. Scheduled actions are for the six-week period ending September 8, 2001.

1. SUMMARY OF ACTIONS TAKEN

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

Table 1. Drilling progress for June 2001

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-174	Old D Range Well (SAR-1)	215	13	190-200
MW-175	Demo 1 Area Well (D1P-7)	332	208	162-167 199-209 264-274

bgs = below ground surface
bwt = below water table

Completed well installation on MW-174 (SAR-1) and MW-175 (D1P-7). Continued development of newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected for MW-175. Groundwater samples were collected for the August 2001 Long Term Monitoring and the first through fourth rounds of newly installed wells. Split samples were collected of surface water samples at the Snake Pond public and Camp GoodNews beaches. Split samples were collected of Snake Pond drive points and Sandwich-area residential wells. Water samples were collected from select monitoring wells for laboratory testing of the diffusion sampler membranes. Water samples were collected from the GAC system and the RRA containment pad. Soil samples were collected at the J-2 Range and at BIP craters on the J-2 and Gravity Ranges. Soil samples were collected as part of the bottom survey at the Demo 1 Area and in the Slit Trench as part of the Munitions Survey Project.

Pre- and post-detonation soil samples were collected in the HUTA. Soil samples were collected in the Test Pit 5 area.

The Guard, EPA, and MADEP had a meeting on July 12 to discuss technical issues, including the following:

<u>CS-18 and CS-19 Updates</u>
Ken Gaynor (Jacobs) presented an update on CS-18 and CS-19.

- Handout was distributed of unvalidated soil and groundwater analytical results for recent CS-18 investigation.

- At CS-19, two borings locations have been selected within the trenches. Scheduled activities include: UXO avoidance, July 16-20.
  Tree clearing and drilling of downgradient wells, July 23-27.
  Sampling, Aug 9-20
  Backfill trenches, early Sept.

Archive Search Report

A monthly report on the ASR was provided via email; questions regarding the ASR discussed during the meeting were as follows:

- Mike Jasinski (EPA) requested an update on when the aerial photographs will be received. Eli Kangas (ACE) to respond.
- Jane Dolan (EPA) inquired if someone from Tetra Tech had been out to Picattiny Arsenal to continue the technical file review. CPT Meyer (IAGWSPO) indicated that to his knowledge, no one had been out to the Arsenal.
- Discussion ensued on the verbal extension request the Guard had made at the June 7 technical meeting. In response to this request, EPA suggested that the Guard provide an Interim Report with information to date on the July 31 deadline. The Guard had replied that they didn't want to use resources to submit an Interim and Final Report, that they would rather just issue the final report on October 31.
- CPT Meyer indicated that the Guard could not see that the October 31 deadline would delay any other part of the investigation schedule. Todd Borci (EPA) indicated that although no schedule impacts would occur by extending the ASR submittal deadline, new information available in the report may require the Guard to go back and add scope items to investigations that are already being implemented.
- Mr. Borci requested that the Guard provide a written request for an extension and the ASR documents that Jane Dolan (EPA) would specify.

J Range Response Plan Update

- Dave Hill (IAGWSPO) indicated that Denis LeBlanc (USGS) had not provided any plan to the Guard, but that no significant changes have been made to the proposed scope to complete the diffusion sampling in Snake Pond. In addition, the effort was progressing on schedule without delays. A plan will be forwarded to the agencies when received by the Guard.
- Subsequent to the Tech meeting, in a teleconference with EPA, Mr. Hill and Mr. LeBlanc, there was additional clarification on the scope of work to be completed. The original scope had proposed that the diffusion samplers would be laboratory tested with standards and placed in wells for in-situ testing of the membranes. Instead, the laboratory testing will not be completed and the in-situ testing using the groundwater samples from actual wells will be completed in the laboratory. Groundwater samples being used in the testing were collected from MW-31D (150ppb), MW-76M2 (46ppb), MW-34M1(4.5ppb) and MW-142M2 (0.44ppb) on Thursday 7/12.
- Dave Williams (MDPH) indicated that he did not receive the surface water sampling results for the north cove of Snake Pond that had been distributed via email. Heather Sullivan (IAGWSPO) to forward; the results had been non-detects for explosives.
- Ben Gregson (IAGWSPO) indicated that Mr. LeBlanc also needed to provide a cost estimate of the diffusion sampling effort prior to its completion.

HUTA 1 Backfilling

Ellen Iorio (ACE) indicated that Tetra Tech needs to backfill or at least shore up the sides of Test Pit 6 so that excavation of Test Pit 5 can proceed without jeopardizing the road between

the two pits.

- Larry Hudgins (Tetra Tech) indicated they needed at least a couple hundred yards of soil to shore up the wall of Test Pit 6.
- In a side-bar discussion, John MacPherson showed the agencies soil results from Test Pit 4, indicating that the soil from some of the lifts was clean. This soil, although not staged separately by lift, was segregated to the extent that separate lifts could be identified. An additional 5 or 6 data packages of results for Test Pit 6 were expected today.
- Todd Borci (EPA) agreed to review the data and let the ACE know which soil could be used for backfilling later today, 7/12.

Mortar Target 9 Discussion

- Latest soil sampling results were distributed by email. Soil sampling results indicated that additional delineation analysis (of archived samples) was required for two quadrants of the 55-65 foot ring grid. Mike Jasinski (EPA) had reviewed the data and provided comments via email.
- Karen Wilson (IAGWSPO) indicated that Hanni Dinkeloo (NHESP) had provided a letter approving the Record of Action (RAC) to excavate in the Mortar Target 9 area to the 65 foot radius. This approval included a list of conditions that mostly addressed how the work should be conducted and restoration completed. Ms. Wilson thought that there would be no problem in meeting the stated conditions. Copy of the letter to be provided to Mike Jasinski (EPA).
- Scott Veenstra (AMEC) indicated that the current schedule (a copy of which was distributed at the meeting) allowed for mobilization on August 3, beginning excavation on August 5 and completing excavation by August 14.
- Mike Jasinski (EPA) indicated that the RAC process, assuming a worst case, should be initiated now so that the schedule will not be delayed by this process in the event that additional clearance/sampling is required.
- Discussion ensued on the Guard's pending request to extend the deadline for soil removal to August 14. Todd Borci (EPA) indicated that the EPA did not view the late request for an extension favorably. Ellen Iorio (ACE) indicated that the Guard's position had always been that they would not be able to meet the July 28 deadline; that this deadline imposed by the EPA was 3 weeks short of the original schedule proposed by the Guard. The intent had been to firm up the schedule as much as possible based on the data results so that a realistic schedule could be requested, one time only, prior to the July 18 deadline. Heather Sullivan (ACE) pointed out that the team had been making a sincere effort to complete the activity expeditiously. AMEC was able to compress the data review period by one week, but the UXO clearance (completed in 3 weeks) had extended beyond the estimated schedule because of the number of BIPs required.
- EPA requested that the Guard include the reasons that the schedule needed to be extended (but that likely only the fact that the UXO clearance schedule had been extended would be viewed as a valid reason), proposed soil management changes, and costs for soil disposal with the extension request letter to be delivered July 18.
- Ken Gaynor (Jacobs) expressed some concern that CS-19 activities might conflict with the Mortar Target 9 schedule. However, upon realization that no further UXO work was scheduled to be conducted at Mortar Target 9, Mr. Gaynor indicated that conflicts would probably not occur. This issue to be confirmed at the Friday, 7/13, contractor meeting.
- Mr. Veenstra indicated that RCL for the RRA Group 1 sites Completion of Work Report would be emailed to EPA on Friday. Mr. Borci indicated that the RCL needed to be emailed by 5pm. Three hard copies could be Fedexed for Monday delivery in Boston. Mr. Borci also indicated that EPA was expecting a redline/strikeout version of the report along with the

RCL, since EPA had issued a disapproval. Mr. Veenstra replied that the RCL detailed which portion of the text was to be deleted and all additional text that would be added to the report in response to each comment. Mr. Borci indicated that this would be acceptable.

Demo 1 Historical Bottom Survey

- Karen Wilson (IAGWSPO) indicated that the Guard was trying to determine if the Demo 1 area fell under Federal or State regulations regarding wetlands, due to the presence of an area on the southwest side of the depression which consistently was characterized by ponded water or wet soil. To date, Ms. Wilson's findings suggest that federal regulations are not applicable. Regarding state regulations, a conservation agent from Bourne ConsCom would review the site tomorrow 7/13; a meeting in the IAGWSPO was set for 0930 for interested parties. The agent had indicated that the state bylaws don't apply to MMR, but Ms. Wilson wasn't sure the agent realized that MMR was state not federal property. Three of 9 anomalies in the depression fall within the wetland-like area. The Guard is currently just addressing the needs to excavate the geophysical anomalies, since issues to excavate the wetland-like area for soil removal may require a lengthy resolution process. Ms. Wilson to notify Mike Ciaranca (MAARNG) of the meeting with the agent.
- Larry Hudgins (Tetra Tech) offered that the wetland-like area was really one big geophysical anomaly. One possibility is that this is a former burial area that has settled to create a depression.
- Mr. Hudgins further indicated that 10 of 13 anomalies have been excavated outside the depression. Findings include wire and scrap metal.
- Ellen Iorio (ACE) indicated that three test pits are currently scoped to identify the historic bottom of the Demo 1 area. Test pits will allow soil horizons to be identified; horizons are not as easily identified in split-spoon samples collected from soil borings.
- Todd Borci (EPA) requested that the test pitting effort be coordinated with the agencies so that EPA could observe the proceedings.

Ground Truthing - AirMag

- CPT Meyer indicated that his July 10 Proposal had assumed that the secondary target list consisted of more than 50 targets. Since the secondary list consists of only 50 targets, the Guard's proposed schedule is as follows:
- 99 of 186 targets have already been ground truthed. Completion of the remaining targets is expected by next week. Following this effort, the Guard would like to do a 1 to 2-day intrusive investigation of 3 or 4 targets (to date) for which there is no surface expression. After this effort is completed, the ground truthing of the secondary list will be completed. The September 14 memo will include all information of ground truthing effort and propose next steps.
- EPA indicated that they would respond to the Guard's proposal at the next Tech meeting.
- Jane Dolan (EPA) inquired as to what the Guard would include in their report. CPT Meyer indicated that the report would have a summary of what was found and evaluate the usefulness of the AirMag to identify burial caches of munitions and how the data was best used.
- Jane Dolan (EPA) inquired as to what the comment in the summary table "nothing on surface" meant. Larry Hudgins (Tetra Tech) indicated that this statement meant that nothing was recorded on the magnetometer when the area was swept – could mean that AirMag detected something deeper than magnetometer could detect or that the AirMag anomaly was a bleed from another anomaly.
- Todd Borci (EPA) asked Tetra Tech to identify the two anomalies on Wood Road that were brought up at the IART meeting. Mr. Hudgins to check prior to site visit to Demo 1 area.

Proposed Schedule of FY01/Early FY02

- June 28 fax from Guard provided an activity schedule for this and next year. Because of funding issues for the MSP-2 and HUTA-2 (some of which were resolved), the Guard's intention is to incorporate five of the smaller Phase II areas into this summer's activities and defer the larger areas to FY02.
- Todd Borci (EPA) indicated that the original proposal Guard made in a May presentation was that Former A, Gravity Anti-Tank Range, Demo 2 area and J-1 150/1000m Berm area would be addressed in FY01.
- Ben Gregson (IAGWSPO) indicated that the Guard has recently received notification that additional money is being made available for the IAGWSP. If the agencies were told in May that certain areas would be investigated in FY01, the Guard would adhere to this schedule.
- Mr. Gregson indicated that the overall schedule (due tomorrow, 7/13) was being worked on and that a budget meeting was scheduled for later today. Mr. Gregson to set up a Tuesday afternoon conference call to discuss overall schedule and budget. Todd Borci (EPA) requested specifics.

Historical Phase IIb Maps

Mike Ciaranca (MAARNG) provided the Guard with historic range maps that he uncovered while cleaning out some old files at headquarters.

- Bill Gallagher indicated that the only map that showed new information was a 1963 map of Old K Range which he showed to Todd Borci (EPA). The map depicts the former K Range extending beyond Wood Road to a presumed target area. This target area is just northwest of Ground Scar 4 and corresponds to a large AirMag anomaly.
- Other maps are also available for the agencies' review. Todd Borci (EPA) to review.

IART Agenda

Action Items were reviewed:

4. Revised Draft General Fact Sheet will be distributed at Tech meeting.
5. Citizen comments on documents should be forwarded to Guard, copied to EPA/DEP and incorporated as possible. Conflicts with agency comments can be addressed by agencies.
6. Four potential Tech team members have been invited to come, introduce themselves and explain what they can bring to the team.
7. Ben Gregson indicated that AFCEE has posted detection of explosives found in spit well (MW-171) at Snake Pond. A copy of the posting will be sent out in the mailing.
8. Information on location of residences SW of Snake Pond who have water wells has been provided to Guard by AFCEE. Map should not be displayed to protect citizens privacy. Ben Gregson proposed the write-up to say how many wells on each road and of these wells X number have been sampled. Will evaluate additional sampling in next scheduled round with AFCEE.
9. Future agenda items to be included this week are status of PLM at J-1 Range. To include Herb/Pest results, SVOC results, identification of fuel and ongoing characterization efforts. Other items to be included for July are J Ranges Response Plan Update and review of 1000m Investigation at J-1 Range. CS-18 update by AFCEE is scheduled for August. CS-19 update by AFCEE is scheduled for September-October.

Proposed Agenda

6:10 **Review Action Items** – Todd Borci (EPA) indicated that only 15 minutes would be allotted for this task. Items not covered during this time period would be addressed at the end of the meeting in the time remaining.
6:30 **Introduce Potential IART members with discussion.**
7:00 **Demo 1 Soil Screening of Alternatives Report**. Limit to 4 slides, include slide on EPA comments, solicit citizen comments.
7:30 **DU Report**. Draft Report with EPA comments to be sent to IART in mailing.
8:00 **Investigations Update**
New Detections (handout with map showing location of detections)
J Ranges Response Plan Update (Snake Pond)
J1J3L Ranges Additional Delineation Workplan (1000m Berm discussion)
Petroleum-like Material (PLM)

The Guard, EPA, and MADEP had a meeting on July 19 to discuss technical issues, including the following:

HUTA 1 Backfilling

- Ellen Iorio (ACE) indicated that Tetra Tech had backfilled Test Pit 6 with soil from Test Pits 4 and 6, using the two soil lifts that had been approved by Todd Borci (EPA). This soil was sufficient to stabilize the road between Test Pit 5 and 6.
- Mr. Borci indicated that Lift 3 from Test Pit 4 could also be used as backfill if a question he had regarding the reporting units is addressed. Larry Hudgins (Tetra Tech) to check.

Demo 1 Historical Bottom Survey

- Ellen Iorio (ACE) indicated that the wet area at Demo 1 was determined not to be a regulated wetland and therefore, anomaly excavation could progress as proposed.
- Larry Hudgins (Tetra Tech) indicated that 13 of 19 anomalies have been excavated in the Demo 1 area. The remaining anomalies are scheduled to be excavated Monday. Two of the anomalies are in the wet area. A sump will be excavated downgradient of the area to drain this water prior to excavating the anomalies.
- Ellen Iorio (ACE) indicated that 10 test pits would be excavated and sampled to determine the historical bottom of the Demo 1 area, per the EPA's request.
- Todd Borci (EPA) indicated that test pitting at the first burn pit and test pits excavated at Anomalies 26, 27, 33, 36 could be counted toward the 10 test pit total. Mr. Borci and Mike Jasinski (EPA) would discuss locations of remaining 5 pits and provide to the Guard/ACE on Monday. Mr. Hudgins stated that burn layers and small arms had been detected in pits excavated at the 4 anomalies indicated. EPA requested a summary of findings to date.
- The pit excavated at Anomaly 27 had been backfilled; other pits at remaining 3 anomalies were covered with plastic and would be backfilled after EPA's site visit. Mark Panni (MADEP) also requested to be included in the site visit. These three burn pits had been found up out of the depression in the vicinity of the access road to Demo 1; whereas the pit at Anomaly 27 was within the depression.

Mortar Target 9 Discussion

- Scott Veenstra (AMEC) requested a date for the Comment Resolution Meeting on the RRA Completion of Work Report. Jane Dolan (EPA) indicated that it could be held after next week's Tech meeting, 7/26.
- All available data on Mortar Target 9 have been reviewed by the agencies. It has been agreed that the scope of the removal would include excavating soil from the 0 to 35 ft radius

from the target to 2 ft bgs and quadrant A of the 35-45 ft radius to 1 ft bgs.

- The excavation contractor has not committed to mobilization before Aug 3. Mr. Veenstra to update Ben Gregson (IAGWSPO) on Monday regarding the possibility of an earlier mobilization, as the agencies have requested. Mr. Gregson to notify Todd Borci (EPA).
- Ms. Dolan requested an update from Karen Wilson (IAGWSPO) on the plan to complete the site restoration tasks following the Tech meeting.
- Mr. Veenstra indicated that other items that were needed before implementing the removal process were 1) a modified Record of Action and 2) a letter to EPA identifying modifications to the Work Plan addendum that reflected changes in soil management and disposal.

Ground Truthing - AirMag

- Ellen Iorio (ACE) indicated that presentation of Air Mag ground truthing could be moved up to August 2. The presentation would encompass ground truthing of both primary and secondary list targets, to include presentation of results, findings and recommendations for follow-on work.
- Ms. Iorio distributed copies of photographs of anomalies Todd Borci (EPA) had requested information on. Copies of photos and information on 5 anomalies that are examples of the types of areas that the Guard would propose to be excavated for further characterization were also distributed. The anomalies would be overlain with a USGS map with geological features to see if any of the anomalies could be accounted for by these features.
- Larry Hudgins (Tetra Tech) indicated that a progress report had been forwarded to the Guard/ACE summarizing information gathered up to Friday, 7/13. 166/186 of the primary targets were ground truthed to date; completion of the primary list was expected by noon tomorrow.

Petroleum-like Material

- Herb Colby (AMEC) indicated that AMEC was setting up a forensic fingerprint of water sampled from MW-170 and MW-45 (a well in the FS-12 plume) plus an EPH analysis (DEP method). VPH could not be done because the sample, which was a profile sample collected when MW-170 was drilled, could not meet the preservation and holding time requirements for the results to be valid.
- Todd Borci (EPA) pointed out that EPA had requested that the sample from MW-164 be analyzed for EPH and VPH. Was that done and shouldn't that data be available shortly? Mr. Colby to check.
- Mr. Borci further suggested that the material was likely to be Kerosene, which was a material between JP-5 and diesel. This would be consistent with burning activities likely conducted at the J-1 Range.
- Jane Dolan (EPA) asked why AMEC was focusing on the FS-12 plume. Mr. Colby indicated that although the FS-12 area may not be the origin of the material; the PLM may be similar to the materials found in this area.
- Mr. Colby indicated that the forensic fingerprinting involved using both a GC and GC/MS analysis at the Woods Hole Group laboratory by an analyst who specialized in petroleum identification. The fingerprinting process would involve a lengthening of the retention time for a more detailed resolution of peaks. A wider range of standards would be used to identify the materials.

J Range Response Plan Update

- Jane Dolan (EPA)/Guard indicated that the progress of the Plan was as follows:

  - Diffusion sampler dialysis membranes were being tested by the USGS using water collected from 4 wells in the USDA office on base. Data should be available in 2 weeks.
  - No cost info had been received from USGS.
  - Sampling of 2 Sandwich Sentry wells for Phase I analytes would be completed by AMEC per the proposal discussed at last week's Tech meeting.
  - PZ211 was non detect for explosives.
  - Property owner at PZ208 had been sent a letter that the Guard intends to sample the piezometer unless they receive some notice of refusal from the property owner.
- Dave Williams (MDPH) inquired about Sandwich residential well results. Marc Grant (AMEC) indicated that the Old Snake Pond Rd well and 3 Carr Lane wells had all been non-detect for explosives. Current Perchlorate data had been sent out earlier in the week. A new explosive update should be sent out soon.
- Ms. Dolan (EPA) inquired about the area of contamination map that was supposed to be completed as a part of the J Range Response Plan to define the area of contribution (determine boundaries of) for the explosive detection in MW-171 in groundwater beneath the Snake Pond spit. Herb Colby (AMEC) to provide a date for submitting proposal within the a couple weeks.

Schedule and Documents

- Todd Borci (EPA) inquired if the Training Area deliverable schedule was the only outstanding schedule that required resolution of an extension. CPT Myer (IAGWSPO) pointed out that the Draft ASR extension request would be sent out next week.
- Marc Grant (AMEC) reviewed the Documents Having/Needing Comments.
  - Comments were received for Tech memo 01-12.
  - CDC Test Results Reports? Mr. Borci indicated that were planning to provide in about 4 weeks.
  - Tech Memo 01-7 Comments? Mr. Borci said also probably within 4 weeks as there were a lot of comment/changes requested.
  - Comments had been received on DU Report.
- Mr. Grant indicated that July 30 deadline for the Training Areas Report was approaching and something needed to be done to alleviate this deadline. Mr. Borci to review schedule and touch base with Ben Gregson (IAGWSPO). Mr. Borci indicated that this will likely be scoped as a FY02 task. The EPA wants to wait on interviews, which have started up again, to identify additional information. Will likely request a letter proposing a new schedule.
- Comment resolution meeting for HUTA-1 was set up for Wednesday, 7/25 at 2pm.

EPA convened a meeting of the Impact Area Review Team on July 24, 2001. Topics discussed during the meeting included an introduction of potential IART members, Demo 1 Area Soil, Development and Screening of Alternatives Report, the Depleted Uranium study, and on-going investigative activities at and downgradient of the J Ranges. The tentative date for the next meeting is August 20, 2001.

The Guard, EPA, and MADEP had a meeting on July 26 to discuss technical issues, including the following:

Well Locations in Demo 1 and Central Impact Area

- John Rice (AMEC) distributed maps showing existing and potential drilling locations at Demo 1; requesting EPA input on next location for D1P-8. Suggested location was 2N

position approximately 200 ft north of D1P-7.

- Karen Wilson (IAGWSPO) indicated that this location had been identified as possible box turtle habitat and it would have to be discussed with Hanni Dinkeloo (NHESP), although it probably could be approved.
- Heather Sullivan (ACE) pointed out that pre-scoping of the potential drilling locations had indicated that significant vegetation clearance would be required at this location. Todd Borci (EPA) questioned the necessity of making the drill pads so large. But agreed that this location should be pursued as the follow-up to D1P-7.
- For proposed Central Impact Area locations, Mr. Rice requested that well installation be initiated at CIAP-5 location instead of the CIAP-1 location due to logistical problems. Mr. Borci concurred.
- Discussion ensued on final location of CIAP-2. The original location on Goat Pasture Rd was not acceptable because of the presence of previously undisturbed habitat. Alternative locations on Goat Pasture (further north in a previously disturbed area) and Spruce Swamp had been suggested. After reflection, Mr. Borci indicated that the alternative location on Goat Pasture Rd was preferred.
- Mr. Borci further requested that all 8 proposed Central Impact Area wells be installed in FY01 as previously agreed by the Guard. He further requested an enforceable deadline for installation of these 8 wells be set for October 1. The remaining five locations could be discussed/finalized at next (8/2) Tech meeting.
- Mr. Borci inquired if the same drill rig would be used to drill the next well as was used to drill the last well, considering that recent profile results have had problems with the detection of interferent compounds. Mr. Rice indicated that the drill rig would be broken down and cleaned to determine if there was some residual material in the drill rods or casing that was contributing to the interferent compounds detected in profiling. Mr. Borci requested that field blanks be collected prior to reinitiating sampling with this rig.

Demo 1 Historical Bottom Survey

- John MacPherson (ACE) indicated that the test pits had been completed and EPA and MADEP had observed pits. Todd Borci's (EPA) questions regarding pits at anomalies 87 and 108 had been addressed. Further excavation at Anomaly 87 showed that native soil was determined to be 1 foot deeper than originally estimated. Native soil at Anomaly 108 was determined to be 4 ft bgs as originally estimated. The test pits were backfilled on Wednesday 7/25.
- Mike Jasinski (EPA) inquired about the high PID readings (>2000) that were recorded for test pits (such as at Anomaly 108) in which nothing significant was observed. Ellen Iorio (ACE) indicated that samples collected for VOC analysis may shed light on this.
- Mark Panni (MADEP) requested that tables of findings include observations such as odor (even lack of) particularly in the cases were the high PID readings were observed. Selection of anomalies for intrusive excavation was set to be discussed in association with next week's AirMag presentation.

Ground Truthing - AirMag

- Larry Hudgins (Tetra Tech) indicated that the primary ground truthing list had been completed. Tetra Tech would begin excavation of the secondary list tomorrow 7/27.
- Ellen Iorio (ACE) indicated that the Guard was awaiting a response from EPA regarding the items that they had proposed to intrusively investigate. Todd Borci (EPA) replied that they had assumed that they had until 8/2 to respond. Ms. Iorio indicated that they had hoped to do hand excavation in these areas prior to next week's Tech meeting so that this information could be included in the AirMag presentation.

- Karen Wilson (IAGWSPO) indicated that the hand excavation could likely be approved without a Record of Action.
- Mike Jasinski (EPA) indicated that he would prefer to wait and review the material more closely before agreeing to these anomalies as the only ones to investigate further. Mr. Borci agreed that he to would like to review the data further prior to committing.

Mortar Target 9 Discussion

- Scott Veenstra (AMEC) was looking for EPA's concurrence on a letter that had been emailed 7/25 that discussed modifications to the Work Plan Addendum that would describe the changes in the soil management approach post excavation. The letter included the following changes: the Former H Range will be addressed under the FUDS program; soil washing has been eliminated and been replaced by post excavation management that includes a certification that the soil is free of UXO; and the location of the management area will be where the HUTA soil is processed.
- The schedule for activities at Mortar Target 9 is mobilization on Wednesday 8/1, soil moved on 8/2, staging of soil at HUTA pad for certification prior to off-site disposal. The contractor anticipates 3 to 5 days to move soil to the HUTA, weather dependent. Air Show scheduled for 8/4 may impact schedule. Marc Grant (AMEC) pointed out that the original enforceable deadline which the EPA had set for soil removal was 7/28. The Guard was looking for a response from the EPA to their request for a schedule extension to relieve this deadline.
- Mike Jasinski (EPA) inquired if the soil would be moved using 18-wheelers. Dave Hill (IAGWSPO) said that that was the intention but access to the HUTA area would first be confirmed.
- Karen Wilson (IAGWSPO) relayed that in the meeting with Hanni Dinkeloo (NHESP) on site restoration issues, agreement had been reached on a site reference soil, methods to characterize reference site, and process to do plant transplants. The reference site is located SE of Demo 2 partially on the power line cut and part just north of the cut. Optimal time period for planting was determined to be mid September to mid October.
- Plan and schedule for restoration should be completed by the 3rd week in August. Final plan would be needed in September. A site characterization to include a biological assay needs to be completed. Areas that can be used to donate plugs then need to be identified. NHESP would like the site characterization and donor areas to be specified in the plan. A schedule for site restoration activities and sequence of events will be available shortly.
- In response to inquiries regarding removal of soil from soil washing pad, Dave Hill (IAGWSPO) indicating that following removal, the pad was washed down and the water captured in the sumps and pumped to drums. Jane Dolan (EPA) indicated that during her site visit this morning 7/26, the sumps were observed to be backing up and the pad didn't appear to be deconned completely. John MacPherson (ACE) to provide description of what had been done by next week.
- Mr. Veenstra requested that the resolution meeting for the Draft COWR be held on 8/9. Ms. Dolan requested that comments on questions sent 7/25 and requested by 8/2 be addressed by 7/30. Mr. Veenstra indicated that the Guard would attempt to respond to this request, but that he could not make a commitment to 7/30. EPA indicated that any early submittal would be helpful.
- Mr. Veenstra further indicated that the Supplemental Delineation Report for Mortar Target 9 was scheduled for an 8/2 submittal.

Petroleum-like Material

- Herb Colby (AMEC) indicated that the Woods Hole Group was on board to do the forensic fingerprint. Final approval from the Guard was needed. Four samples were scoped to be

analyzed: Q profile sample from MW-170, sample of JP-8, sample of diesel, and sample from MW-45.

- Jane Dolan (EPA) asked why MW-164 was not considered for fingerprinting. Mr. Colby indicated that there wasn't sufficient sample remaining from the profile sample to use in the analysis. However, Mr. Colby would check to determine if sufficient sample remained to do the analysis, so that a comparison could be done between MW-164 and MW-170.
- Ms. Dolan also inquired about library spectra, couldn't they be used to identify JP-8 and diesel? Mr. Colby indicated that the chemists preferred to have spectra runs on the same instrument at the same time under the same conditions when doing comparisons.
- Ben Gregson (IAGWSPO) inquired if any assessment of how the material might have been found at the depth had been completed. Mr. Colby indicated that this was one of the objectives of the Additional Delineation program in this area. AMEC was also considering the possibility that the material may have been encountered at the top of the water table and not noticed and then dragged down as part of the drilling process. John Rice (AMEC) was fairly confident that the PLM was not from the drill rig as all the drill rig fluids were tested and these fluids did not match any of these materials.
- Later in the meeting Len Pinaud (MADEP) wondered if borings to the water table at J-1 Range in the vicinity of MW-164 and MW-168 could be considered. Mr. Colby indicated that these had been considered potentially for the Second Additional Delineation Workplan.

MSP/Ground Water Study Integration

Marc Grant reviewed four areas where the data being acquired for the Munitions Survey Project could be used for the characterization of different range areas, but where the characterization study had a deliverable schedule that was not compatible with the MSP deliverable schedule. Mr. Grant attempted to point out these areas to determine how the MSP data could be integrated better into the project as a whole, and how deliverable schedules should be adjusted to accommodate the integration.

- AirMag Target validation – The AirMag target validation is likely to lead to additional site characterization tasks. However, the Soil Report has already been completed for the Central Impact Area. Therefore, the Guard/EPA need to decide if additional soil work proposed to be conducted pursuant to the MSP project should be incorporated into the Final Soil Report or should it be completed under the Post-Screening Investigation (PSI).
- Demo 1 Historical Bottom Survey – Draft PSI Work Plan is due by 9/25. However, validated data for recent trenches sampling will not be completed in time for incorporation in the Work Plan. Would like to hold Work Plan until validated data is received.
- J-1 Range Anomaly Excavation – Should this information be added to an Additional Delineation Work Plan 2 as has been discussed informally? Should Work Plan 2 be added to the official schedule?
- Phase II(b) – MSP is addressing three sites included in the Phase IIb. It would be helpful if the Phase IIb Report could be delayed to incorporate the data from the MSP. This would change the final report submittal date of 11/20/01 to 2/26/02.
- Todd Borci (EPA) requested that these scheduling issues be outlined in a letter that the agencies can review and then these issues can be discussed in the 8/2 Tech meeting.
- Ellen Iorio (ACE) further pointed out on the MSP schedule that was distributed, 65 days was used as the time period between the draft letter reports and final letter reports. This is the standard time frame typically used, but she was uncertain of EPA's time requirements for review.
- Jane Dolan (EPA) noted that on the MSP schedule, the AirMag report date was listed as 8/23, hadn't that schedule been moved up? Ms. Iorio indicated that it had but that the Demo

1 investigation was taking a little longer and that the schedules fluctuated weekly, so the original schedule dates were used in preparing the overall Project Schedule.

Other Items

- Todd Borci (EPA) asked if WS-1 had been drilled? As it was his understanding that this well had been moved? EPA requested that this well be profiled since it was near MW-18 where TCE had been detected. LTC Albert Bleakley (JPO) to inquire, however profiling was not typically within the scope of work for water supply wells.
- Jane Dolan (EPA) asked how EPA could get a copy of the Weekly Progress updates for the Water Supply project. Len Pinaud (MADEP) to check.
- Heather Sullivan (ACE) inquired as to what the EPA may be considering for the locations and schedule of future wells in the Demo 1 area, once the D1P-8 location was completed? Todd Borci (EPA) indicated that Mark Grant (AMEC) should include this in his letter regarding scheduling issues.
- Bill Gallagher (IAGWSPO) to provide this year's training schedule to Dave Williams (MDPH).

IART Action Items and Agenda

1. **Why so many anomalies at the Impact Area boundary**? Larry Hudgins (Tetra Tech) to address. Citizens are concerned that munitions are at Impact Area boundary. Todd Borci (EPA) indicated that it needs to be explained that we do have AirMag coverage outside boundary. Mr. Hudgins pointed out that there are fence lines, posts and other metallic items that mark the boundary that contribute to the anomalies seen there on the AirMag maps.
2. **Action Items 2 and 3** – **Update of Snake Pond Posting/mercury warning in red –** To be addressed by MADEP and EPA with AFCEE, MDPH, JPO and IAGWSPO.

- Future Agenda Items
  - CS-18 and CS-19 to be updated by AFCEE (first on agenda)
  - Central Impact Area Soil Report
  - Phase IIb Report (include SAR update)
  - New Detects Update
- In IART mailing, dates that the IART members will be receiving documents should be spelled out so that they can be prepared for the meeting.
- Jane Dolan (EPA) pointed out that the New Detects map handout did not include well MW-158 where there was an unvalidated detection of perchlorate. The map should be shifted to the SE so that all the J Range area is covered on one map.
- Ms. Dolan commented regarding the DU presentation that she thought that the slide that listed a bullet item saying the contractor recommended no additional work with regard to DU should have read that the Guard recommended per the typical manner of addressing recommendations. This bullet was also inappropriately added after the dry run. Ben Gregson (IAGWSPO) pointed out that since this was a technical recommendation it was appropriate that it be stated as the contractor's.

2. SUMMARY OF DATA RECEIVED

Validated data were received during July for Sample Delivery Groups (SDGs) CEI 002, 006, 007; MMR 541, 557, 576, 577, 578, 579, 580, 581; 582, 586, 592, 593, 594, 596, 597, 598, 599, 614, 640; PERC 17; 024; SMR001, 002, 003, 004, 005; UM001, 002, 003. These SDGs contain results for 5 crater grab and grid samples from UXO detonation craters; 151 groundwater samples from monitoring wells; 212 groundwater profile samples from MW-005, MW-18, MW-28, MW-31, MW-54, MW-126, MW-128, MW-141, MW-143, MW-157, MW-158, MW-159, MW-

162, MW-164, and MW-168; 222 soil grid samples from the former K, Gravity, and GA/GB Ranges; Demo Area 2; Inactive Demo Area; Cleared Area 4; and 22 soil samples from soil borings B-23, B-24 and B-25 at the J-3 Range and the borehole of MW-159.

Validated Data

Figures 1 through 6 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
- Figure 4 shows the results of Semi-Volatile Organic Compound (SVOC) analyses by methods OC21B and SW8270
- Figure 5 shows the results of Pesticide (method OL21P) and Herbicide (method 8151) analyses
- Figure 6 shows the results of Perchlorate analysis by method E314.0

The concentrations from these analyses are depicted in Figures 1-5 compared to Maximum Contaminant Levels (MCLs) or Health Advisories (HAs) published by EPA for drinking water. The concentrations from Perchlorate analyses are depicted in Figure 6 compared to a safe exposure level (SEL) established by EPA. At present, neither EPA nor the MADEP have established an MCL or HA for perchlorate. 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 SEL 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 SEL. 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 SEL, sorted by analytical method and analyte, since 1997.

There are multiple labels listed for some wells in Figures 1-6, 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/SELs. 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 1-6 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 1-6 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/SEL 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, 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 , 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, 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 five sample rounds (1/99 to 11/00).

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) were 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. Five of the 14 sodium exceedances were repeated in consecutive sampling rounds (wells 2S, 46S, 57M2, 57M1, and SDW261160). Five wells (90WT0010, 21S, 46S, 57M1, and 57M2) had exceedances in the year 2000 results; one well (145S) had exceedances in the year 2001 results. Seven of the 61 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 and 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.

Figure 4: SVOCs in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for SVOCs are scattered throughout the study area. All exceedances of drinking water criteria for SVOCs were measured for bis (2-ethylhexyl) phthalate (BEHP), except for 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. BEHP is believed to be largely an artifact of the investigation

methods, introduced to the samples during collection or analysis. A detailed discussion of the presence of BEHP is provided in the Draft Completion of Work Report (7/98) and subsequent responses to comments. The theory that BEHP occurs as an artifact, and is not really present in the aquifer, is supported by the results of 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 74) 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. Four wells (28M1, 142M1, 142M2 and 146M1) have had a BEHP exceedance in the year 2001 results.

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 5: 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 6: Perchlorate in Groundwater Compared to the Safe Exposure Limit (SEL)

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 SEL for perchlorate of 4 to 18 parts per billion (ppb), since neither an MCL or HA has been established. At present, there are nine exceedances of the SEL of 18 ppb for perchlorate. Detections that exceeded the SEL occurred at wells 31S, 31M1, 34M1, 34M2, 77M2, 78M2, 114M2, and 165M2 in the vicinity of the Demolition Area 1 plume and in well 132S at J-3 Range. The previous exceedance reported at J-3 Range well 13D was misreported and was actually a sample result from 34M1.

Rush (Non-Validated) Data

Rush data are summarized in Table 4. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and explosive and VOC analyses for profile samples, are 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:

- Groundwater samples collected from MW-143M2 (J-3 Range on Greenway Road) had a detection of RDX that was verified by PDA spectra. This sample was re-analyzed because RDX was not reported in the recent analysis, although it had been detected in previous sampling rounds.

- Groundwater samples collected at MW-132S (J-3 Range) had detections of HMX and RDX that were verified by PDA. HMX was detected in the previous sampling rounds in similar concentrations. The RDX was detected in approximately half the concentration it was detected in the previous round.

- The groundwater profile samples from MW-175 had detections of nitroglycerin (17 intervals), PETN (6 intervals), 3-nitrotoluene (3 intervals), 4-nitrotoluene (1 interval), picric acid (2 intervals), 2A-DNT (10 intervals), 4A-DNT (3 intervals), 2,6-DNT (9 intervals), and 2,4-DANT (5 intervals). The 2,4-DANT, 2,6-DNT and 3-nitrotoluene detections, and one of the 2A-DNT detections were verified by PDA.

- A UXO crater soil sample collected at Target 9 had detections of RDX and HMX that were verified by PDA spectra.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

Weekly Progress Update, June 25 – June 29, 2001	7/05/01
June 2001 Monthly Progress Report	7/09/01
Weekly Progress Update, July 2 – July 6, 2001	7/11/01
Central Impact Area Soil Report (Technical Memorandum 01-13)	7/16/01
Weekly Progress Update, July 9 – July 13, 2001	7/20/01
Weekly Progress Update, July 16 – July 20, 2001	7/25/01
Gun and Mortar Firing Positions Draft Report (Technical Memorandum 01-14)	7/31/01

4. SCHEDULED ACTIONS

Figure 7 provides a Gantt chart updated to reflect progress and proposed work. Activities scheduled for August and early September include:

- Continue Demo 1 Draft Soil Report revision
- Start Central Impact Area Draft Soil Report revision
- Finish J-2 Range Additional Delineation investigation
- Start Draft J-2 Range Report preparation
- Finish Draft J-1/J-3/L Range Report preparation
- Finish J-1/J-3/L Range Additional Delineation planning
- Finish Draft Gun/Mortar Final Report
- Start Gun/Mortar Final Report revision
- Continue HUTA Draft Report preparation
- Finish Phase II (b) investigations
- Finish Phase II (b) Draft Report preparation
- Continue MSP Phase I Draft Report revision
- Continue groundwater monitoring programs
- Continue Draft Revised ASR Report preparation
- Finish Final Geophysics Report
- Continue Draft Demo 1 Soil FS Screening Report revision
- Finish ITE Demo 1 Groundwater Treatability Studies
- Continue Demo 1 Area Groundwater FS preparation
- Start Central Impact Area Soil FS Screening Report preparation
- Continue Central Impact Area Groundwater FS Screening Report revision

5. SUMMARY OF ACTIVITIES FOR DEMO 1

A Demo 1 Area Bottom survey was conducted. Additional downgradient well location, MW-175 (D1P-7) was installed. An additional downgradient well location (D1P-8) was proposed and approved. Analysis of first, second and third round groundwater samples from newly installed wells is ongoing.

TABLE 2
SAMPLING PROGRESS
7/1/2001-7/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HCA07180101AA	A07180101	07/23/2001	CRATER GRAB	0.00	0.25		
HCA07180102AA	A07180102	07/23/2001	CRATER GRAB	0.00	0.25		
HDA07160103AA	A07160103	07/23/2001	CRATER GRAB	0.00	0.25		
HDA07180101AA	A07180101	07/23/2001	CRATER GRAB	0.00	0.25		
HDA07180102AA	A07180102	07/23/2001	CRATER GRAB	0.00	0.25		
HDA07180103AA	A07180103	07/23/2001	CRATER GRAB	0.00	0.25		
5.A.1.01005.1.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.1.D	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.10.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.2.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.3.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.4.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.5.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.6.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.7.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.8.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01005.9.0	A.1.01005.R	07/05/2001	CRATER GRID	0.00	0.25		
5.A.1.01016.1.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.10.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.2.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.3.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.4.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.5.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.6.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.7.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.8.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.9.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01017.1.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.10.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.2.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.3.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.4.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.5.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.6.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.7.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.8.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.9.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01018.1.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.10	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.2.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.3.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.4.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.5.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.6.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.7.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.8.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.9.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01019.1.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.10.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
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TABLE 2
SAMPLING PROGRESS
7/1/2001-7/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
5.A.1.01019.2.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.3.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.4.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.5.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.6.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.7.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.8.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.9.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	2.00		
5.A.1.01020.1.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.10.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.2.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.3.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.4.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.5.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.6.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.7.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.8.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01020.9.0	A.1.01020.R	07/25/2001	CRATER GRID	3.00	3.25		
5.A.1.01021.1.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.10.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.2.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.3.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.4.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.5.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.6.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.7.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.8.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
5.A.1.01021.9.0	A.1.01021.R	07/25/2001	CRATER GRID	2.50	2.75		
D1.F.3.00034.1.0	D1.3.00034	07/24/2001	CRATER GRID	3.00	3.25		
D1.F.3.00043.1.0	D1.3.00043	07/23/2001	CRATER GRID	2.00	2.25		
HCHDJ23.5IN1AAA	J23.5IN1	07/24/2001	CRATER GRID				
HCHDJ23.5IN1AAD	J23.5IN1	07/24/2001	CRATER GRID				
HDJ23.5IN1AAA	J23.5IN1	07/26/2001	CRATER GRID	0.00	0.25		
0.G.0.00007.0.F	FIELD BLANK 7	07/11/2001	FIELDQC	0.00	0.00		
0.G.0.00103.0.T	TRIP BLANK 103	07/06/2001	FIELDQC	0.00	0.00		
0.G.0.00104.0.T	TRIP BLANK 104	07/11/2001	FIELDQC	0.00	0.00		
0.G.0.00105.0.T	TRIP BLANK 105	07/12/2001	FIELDQC	0.00	0.00		
0.G.0.00106.0.T	TRIP BLANK 106	07/18/2001	FIELDQC	0.00	0.00		
0.G.0.00107.0.T	TRIP BLANK 107	07/19/2001	FIELDQC	0.00	0.00		
0.G.0.00108.0.T	TRIP BLANK 108	07/25/2001	FIELDQC	0.00	0.00		
0.G.0.00109.0.T	TRIP BLANK 109	07/27/2001	FIELDQC	0.00	0.00		
0.G.0.00110.0.T	TRIP BLANK 110	07/30/2001	FIELDQC	0.00	0.00		
0.G.0.00111.0.T	TRIP BLANK 111	07/31/2001	FIELDQC	0.00	0.00		
90PZ0208E	FIELDQC	07/20/2001	FIELDQC	0.00	0.00		
G175DAE	FIELDQC	07/17/2001	FIELDQC	0.00	0.00		
G175DBE	FIELDQC	07/18/2001	FIELDQC	0.00	0.00		
G175DGE	FIELDQC	07/19/2001	FIELDQC	0.00	0.00		
G175DPE	FIELDQC	07/20/2001	FIELDQC	0.00	0.00		
HC101AC1AAE	FIELDQC	07/23/2001	FIELDQC	0.00	0.00		

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7/1/2001-7/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC101BB1AAE	FIELDQC	07/24/2001	FIELDQC	0.00	0.00		
HC101EB1AAE	FIELDQC	07/25/2001	FIELDQC	0.00	0.00		
HC101GE1AAE	FIELDQC	07/16/2001	FIELDQC	0.00	0.00		
HC101GE1AAE	FIELDQC	07/26/2001	FIELDQC	0.00	0.00		
HC101TA1AAE	FIELDQC	07/11/2001	FIELDQC	0.00	0.00		
HC101TA1AAF	FIELDQC	07/12/2001	FIELDQC	0.00	0.00		
HC101TA1AAT	FIELDQC	07/12/2001	FIELDQC	0.00	0.00		
HDA07160103AT	FIELDQC	07/24/2001	FIELDQC	0.00	0.00		
HDA07180103AE	FIELDQC	07/23/2001	FIELDQC	0.00	0.00		
W12SST	FIELDQC	07/26/2001	FIELDQC	0.00	0.00		
W154M1T	FIELDQC	07/24/2001	FIELDQC	0.00	0.00		
W54M2T	FIELDQC	07/31/2001	FIELDQC	0.00	0.00		
W5SST	FIELDQC	07/23/2001	FIELDQC	0.00	0.00		
W7M1T	FIELDQC	07/30/2001	FIELDQC	0.00	0.00		
90PZ0001	90PZ0001	07/31/2001	GROUNDWATER				
90PZ0002	90PZ0002	07/31/2001	GROUNDWATER				
90PZ0208A	90PZ0208	07/20/2001	GROUNDWATER	100.00	105.00	84.40	89.40
90SNP001	90SNP001	07/16/2001	GROUNDWATER				
90SNP002	90SNP002	07/16/2001	GROUNDWATER				
W10DDA	MW-10	07/25/2001	GROUNDWATER	351.50	361.50	196.70	206.70
W10M1A	MW-10	07/23/2001	GROUNDWATER	280.00	285.00	129.10	134.10
W115M1A	MW-115	07/22/2001	GROUNDWATER	138.00	148.00	20.40	30.40
W115SSA	MW-115	07/22/2001	GROUNDWATER	116.00	126.00	0.00	10.00
W12SSA	MW-12	07/25/2001	GROUNDWATER	96.70	106.70	0.00	10.00
W13DDA	MW-13	07/26/2001	GROUNDWATER	220.00	225.00	142.07	147.07
W13SSA	MW-13	07/25/2001	GROUNDWATER	73.00	83.00	0.00	10.00
W152M1A	MW-152	07/24/2001	GROUNDWATER	250.00	260.00	142.10	152.10
W152M2A	MW-152	07/24/2001	GROUNDWATER	154.00	164.00	46.30	56.30
W153M1A	MW-153	07/24/2001	GROUNDWATER	199.00	209.00	105.75	115.75
W153M1A	MW-153	07/24/2001	GROUNDWATER	199.00	209.00	105.90	115.90
W153M2A	MW-153	07/24/2001	GROUNDWATER	144.00	154.00	50.90	60.90
W153M3A	MW-153	07/24/2001	GROUNDWATER	124.00	134.00	31.00	41.00
W154M1A	MW-154	07/24/2001	GROUNDWATER	187.50	192.50	89.30	94.30
W154M1D	MW-154	07/24/2001	GROUNDWATER	187.50	192.50	89.30	94.30
W154SSA	MW-154	07/24/2001	GROUNDWATER	98.00	108.00	0.00	10.00
W154SSA	MW-154	07/25/2001	GROUNDWATER	98.00	108.00	0.00	10.00
W155M1A	MW-155	07/24/2001	GROUNDWATER	124.00	134.00	96.60	106.60
W155M2A	MW-155	07/24/2001	GROUNDWATER	45.00	55.00	17.60	27.60
W15DDA	MW-15	07/23/2001	GROUNDWATER	324.00	334.00	213.00	223.00
W15DDD	MW-15	07/23/2001	GROUNDWATER	324.00	334.00	213.00	223.00
W15SSA	MW-15	07/23/2001	GROUNDWATER	105.00	115.00	0.00	10.00
W16DDA	MW-16	07/23/2001	GROUNDWATER	355.00	360.00	219.40	224.40
W16SSA	MW-16	07/23/2001	GROUNDWATER	125.00	135.00	0.00	10.00
W173M1A	MW-173	07/18/2001	GROUNDWATER	246.00	256.00	110.20	120.20
W173M2A	MW-173	07/19/2001	GROUNDWATER	208.00	218.00	72.40	82.40
W173M3A	MW-173	07/19/2001	GROUNDWATER	188.00	198.00	52.20	62.20
W174SSA	MW-174	07/25/2001	GROUNDWATER	190.00	200.00	0.00	10.00
W174SSD	MW-174	07/25/2001	GROUNDWATER	190.00	200.00	0.00	10.00
W17DDA	MW-17	07/27/2001	GROUNDWATER	320.00	330.00	192.00	202.00

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7/1/2001-7/31/2001

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W17M1A	MW-17	07/27/2001	GROUNDWATER	220.00	230.00	92.00	102.00
W17M2A	MW-17	07/27/2001	GROUNDWATER	190.00	200.00	63.00	73.00
W17M3A	MW-17	07/27/2001	GROUNDWATER	160.00	170.00	34.00	44.00
W17SSA	MW-17	07/27/2001	GROUNDWATER	120.00	130.00	0.00	10.00
W18DDA	MW-18	07/26/2001	GROUNDWATER	265.00	275.00	218.70	228.70
W18M1A	MW-18	07/26/2001	GROUNDWATER	171.00	176.00	125.60	130.60
W18M2A	MW-18	07/26/2001	GROUNDWATER	107.00	112.00	61.70	66.70
W18SSA	MW-18	07/26/2001	GROUNDWATER	35.00	45.00	0.00	10.00
W19DDA	MW-19	07/30/2001	GROUNDWATER	293.00	298.00	247.78	257.78
W21DDA	MW-21	07/30/2001	GROUNDWATER	302.00	312.00	127.85	137.85
W21M3A	MW-21	07/27/2001	GROUNDWATER	196.00	206.00	21.20	31.20
W23DDA	MW-23	07/27/2001	GROUNDWATER	272.00	282.00	142.34	152.34
W23M1A	MW-23	07/30/2001	GROUNDWATER	225.00	235.00	95.60	105.60
W23M2A	MW-23	07/30/2001	GROUNDWATER	189.00	194.00	59.40	69.40
W23M3A	MW-23	07/30/2001	GROUNDWATER	156.00	161.00	26.40	36.40
W28SSA	MW-28	07/30/2001	GROUNDWATER	95.00	105.00	0.00	10.00
W33DDA	MW-33	07/30/2001	GROUNDWATER	181.50	186.50	78.90	83.90
W33MMA	MW-33	07/30/2001	GROUNDWATER	161.50	171.50	59.00	69.00
W33SSA	MW-33	07/30/2001	GROUNDWATER	146.50	151.50	43.90	48.90
W34M1A	MW-34	07/31/2001	GROUNDWATER	151.00	161.00	70.80	80.80
W34M1D	MW-34	07/31/2001	GROUNDWATER	151.00	161.00	70.80	80.80
W34M2A	MW-34	07/30/2001	GROUNDWATER	131.00	141.00	50.55	60.55
W34M3A	MW-34	07/31/2001	GROUNDWATER	111.00	121.00	30.50	40.50
W34M3A	MW34	07/31/2001	GROUNDWATER	111.00	121.00	30.50	40.50
W3DDA	MW-3	07/27/2001	GROUNDWATER	262.00	267.00	212.30	217.30
W3DDD	MW-3	07/27/2001	GROUNDWATER	262.00	267.00	212.30	217.30
W3M1A	MW-3	07/27/2001	GROUNDWATER	240.00	245.00	189.70	194.70
W3M2A	MW-3	07/27/2001	GROUNDWATER	180.00	185.00	129.70	134.70
W53DDA	MW-53	07/31/2001	GROUNDWATER	283.00	293.00	150.40	160.40
W53M3A	MW-53	07/31/2001	GROUNDWATER	164.00	174.00	0.00	10.00
W53SSA	MW-53	07/31/2001	GROUNDWATER	121.00	131.00	0.00	10.00
W54DDA	MW-54	07/31/2001	GROUNDWATER	278.00	288.00	124.22	134.22
W54M1A	MW-54	07/31/2001	GROUNDWATER	230.00	240.00	76.19	86.19
W54M2A	MW-54	07/31/2001	GROUNDWATER	210.00	220.00	56.09	66.09
W55DDA	MW-55	07/31/2001	GROUNDWATER	255.00	265.00	116.10	126.10
W55M1A	MW-55	07/31/2001	GROUNDWATER	225.00	235.00	84.40	94.40
W55M2A	MW-55	07/31/2001	GROUNDWATER	195.00	205.00	56.20	66.20
W55M3A	MW-55	07/31/2001	GROUNDWATER	164.00	174.00	25.20	35.20
W5DDA	MW-5	07/23/2001	GROUNDWATER	335.00	340.00	217.10	222.10
W5DDA	MW-5	07/23/2001	GROUNDWATER	335.00	340.00	217.10	225.10
W5M1A	MW-5	07/25/2001	GROUNDWATER	210.00	215.00	92.07	97.07
W5M1D	MW-5	07/25/2001	GROUNDWATER	210.00	215.00	92.07	97.07
W5M2A	MW-5	07/24/2001	GROUNDWATER	170.00	175.00	52.34	27.34
W5M2A	MW-5	07/24/2001	GROUNDWATER	170.00	175.00	52.34	57.34
W5SSA	MW-5	07/23/2001	GROUNDWATER	119.00	129.00	1.10	11.10
W62SSA	MW-62	07/19/2001	GROUNDWATER	108.00	118.00	0.00	10.00
W6SSA	MW-6	07/30/2001	GROUNDWATER	106.00	116.00	0.00	10.00
W6SSD	MW-6	07/30/2001	GROUNDWATER	106.00	116.00	0.00	10.00
W7M1A	MW-7	07/30/2001	GROUNDWATER	240.00	245.00	131.30	136.30

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7/1/2001-7/31/2001

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W7M1L	MW-7	07/30/2001	GROUNDWATER	240.00	245.00	131.30	136.30
DW070201	GAC WATER	07/02/2001	IDW	0.00	0.00		
DW073101	GAC WATER	07/31/2001	IDW	0.00	0.00		
PPSP26JL1A	RRA CONTAINMEN	07/26/2001	IDW	0.00	0.00		
G175DAA	MW-175	07/17/2001	PROFILE	135.00	135.00	10.90	10.90
G175DBA	MW-175	07/18/2001	PROFILE	145.00	145.00	20.90	20.90
G175DCA	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90
G175DCD	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90
G175DDA	MW-175	07/18/2001	PROFILE	165.00	165.00	40.90	40.90
G175DEA	MW-175	07/18/2001	PROFILE	175.00	175.00	50.90	50.90
G175DFA	MW-175	07/18/2001	PROFILE	185.00	185.00	60.90	60.90
G175DFD	MW-175	07/18/2001	PROFILE	185.00	185.00	60.90	60.90
G175DGA	MW-175	07/19/2001	PROFILE	195.00	195.00	70.90	70.90
G175DIA	MW-175	07/19/2001	PROFILE	215.00	215.00	90.90	90.90
G175DJA	MW-175	07/19/2001	PROFILE	225.00	225.00	100.90	100.90
G175DKA	MW-175	07/19/2001	PROFILE	235.00	235.00	110.90	110.90
G175DLA	MW-175	07/19/2001	PROFILE	245.00	245.00	120.90	120.90
G175DMA	MW-175	07/19/2001	PROFILE	255.00	255.00	130.90	130.90
G175DNA	MW-175	07/19/2001	PROFILE	265.00	265.00	140.90	140.90
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90
G175DPA	MW-175	07/19/2001	PROFILE	285.00	285.00	160.90	160.90
G175DQA	MW-175	07/19/2001	PROFILE	295.00	295.00	170.90	170.90
G175DRA	MW-175	07/19/2001	PROFILE	305.00	305.00	180.90	180.90
G175DSA	MW-175	07/19/2001	PROFILE	315.00	315.00	190.90	190.90
G175DTA	MW-175	07/19/2001	PROFILE	325.00	325.00	200.90	200.90
5.F.0.00001.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00002.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00003.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00004.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00005.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00006.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00007.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00008.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00009.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00010.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00011.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00012.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00013.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
5.F.0.00014.2.0	Test Plot 5 Lift 2 Grid	07/31/2001	SOIL GRID	3.00	6.00		
D1.F.3.00026.1.0	D1.3.00026	07/16/2001	SOIL GRID	0.00	2.00		
D1.F.3.00026.2.0	D1.3.00026	07/16/2001	SOIL GRID	5.00	5.00		
D1.F.3.00027.1.0	D1.3.00027	07/12/2001	SOIL GRID	1.00	1.25		
D1.F.3.00033.1.0	D1.3.00033	07/16/2001	SOIL GRID	2.00	3.00		
D1.F.3.00033.2.0	D1.3.00033	07/16/2001	SOIL GRID	4.25	4.25		
D1.F.3.00036.1.0	D1.3.00036	07/16/2001	SOIL GRID	3.50	4.00		
D1.F.3.00036.2.0	D1.3.00036	07/16/2001	SOIL GRID	5.25	5.25		
D1.F.3.00038.1.0	D1.3.00038	07/26/2001	SOIL GRID	2.00	2.25		
D1.F.3.00038.2.0	D1.3.00038	07/26/2001	SOIL GRID	3.00	3.25		
D1.F.3.00040.1.0	D1.3.00040	07/25/2001	SOIL GRID	2.00	2.25		

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7/1/2001-7/31/2001

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D1.F.3.00040.2.0	D1.3.00040	07/25/2001	SOIL GRID	2.00	2.25		
D1.F.3.00042.1.0	D1.3.00042	07/24/2001	SOIL GRID	0.50	0.75		
D1.F.3.00044.1.0	D1.3.00044	07/25/2001	SOIL GRID	3.00	5.00		
D1.F.3.00044.3.0	D1.F.00044	07/24/2001	SOIL GRID	10.00	10.25		
D1.F.3.00087.1.0	D1.3.00087	07/26/2001	SOIL GRID	3.00	3.25		
D1.F.3.00087.2.0	D1.3.00087	07/26/2001	SOIL GRID	3.00	3.25		
D1.F.3.00108.1.0	D1.3.00108	07/25/2001	SOIL GRID	3.00	3.25		
D1.F.3.00108.2.0	D1.3.00108	07/25/2001	SOIL GRID	4.00	4.25		
D1.F.3.00156.1.0	D1.3.00156	07/26/2001	SOIL GRID	2.00	2.25		
D1.F.3.00156.2.0	D1.3.00156	07/26/2001	SOIL GRID	3.00	3.25		
HC101AC1AAA	101AC	07/23/2001	SOIL GRID	0.00	0.25		
HC101AC1BAA	101AC	07/23/2001	SOIL GRID	0.25	0.50		
HC101AC1CAA	101AC	07/23/2001	SOIL GRID	0.50	1.00		
HC101BB1AAA	101BB	07/24/2001	SOIL GRID	0.00	0.25		
HC101BB1BAA	101BB	07/24/2001	SOIL GRID	0.25	0.50		
HC101BB1CAA	101BB	07/24/2001	SOIL GRID	0.50	1.00		
HC101BC1AAA	101BC	07/24/2001	SOIL GRID	0.00	0.25		
HC101BC1AAD	101BC	07/24/2001	SOIL GRID	0.00	0.25		
HC101BC1BAA	101BC	07/24/2001	SOIL GRID	0.25	0.50		
HC101BC1CAA	101BC	07/24/2001	SOIL GRID	0.50	1.00		
HC101BD1AAA	101BD	07/24/2001	SOIL GRID	0.00	0.25		
HC101BD1BAA	101BD	07/24/2001	SOIL GRID	0.25	0.50		
HC101BD1CAA	101BD	07/24/2001	SOIL GRID	0.50	1.00		
HC101BE1AAA	101BE	07/24/2001	SOIL GRID	0.00	0.25		
HC101BE1BAA	101BE	07/24/2001	SOIL GRID	0.25	0.50		
HC101BE1CAA	101BE	07/24/2001	SOIL GRID	0.50	1.00		
HC101DE1AAA	101DE	07/25/2001	SOIL GRID	0.00	0.25		
HC101DE1AAD	101DE	07/25/2001	SOIL GRID	0.00	0.25		
HC101DE1BAA	101DE	07/25/2001	SOIL GRID	0.25	0.50		
HC101DE1CAA	101DE	07/25/2001	SOIL GRID	0.50	1.00		
HC101DF1AAA	101DF	07/25/2001	SOIL GRID	0.00	0.25		
HC101DF1BAA	101DF	07/25/2001	SOIL GRID	0.25	0.50		
HC101DF1CAA	101DF	07/25/2001	SOIL GRID	0.50	1.00		
HC101DG1AAA	101DG	07/25/2001	SOIL GRID	0.00	0.25		
HC101DG1BAA	101DG	07/25/2001	SOIL GRID	0.25	0.50		
HC101DG1CAA	101DG	07/25/2001	SOIL GRID	0.50	1.00		
HC101EB1AAA	101EB	07/25/2001	SOIL GRID	0.00	0.25		
HC101EB1AAD	101EB	07/25/2001	SOIL GRID	0.00	0.25		
HC101EB1BAA	101EB	07/25/2001	SOIL GRID	0.25	0.50		
HC101EB1CAA	101EB	07/25/2001	SOIL GRID	0.50	1.00		
HC101EC1AAA	101EC	07/25/2001	SOIL GRID	0.00	0.25		
HC101EC1BAA	101EC	07/25/2001	SOIL GRID	0.25	0.50		
HC101EC1CAA	101EC	07/25/2001	SOIL GRID	0.50	1.00		
HC101ED1AAA	101ED	07/25/2001	SOIL GRID	0.00	0.25		
HC101ED1BAA	101ED	07/25/2001	SOIL GRID	0.25	0.50		
HC101ED1CAA	101ED	07/25/2001	SOIL GRID	0.50	1.00		
HC101EE1AAA	101EE	07/26/2001	SOIL GRID	0.00	0.25		
HC101EE1BAA	101EE	07/26/2001	SOIL GRID	0.25	0.50		
HC101EE1CAA	101EE	07/26/2001	SOIL GRID	0.50	1.00		

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

TABLE 2
SAMPLING PROGRESS
7/1/2001-7/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC101EF1AAA	101EF	07/26/2001	SOIL GRID	0.00	0.25		
HC101EF1BAA	101EF	07/26/2001	SOIL GRID	0.25	0.50		
HC101EF1CAA	101EF	07/26/2001	SOIL GRID	0.50	1.00		
HC101GE1AAA	101GE	07/26/2001	SOIL GRID	0.00	0.25		
HC101GE1AAD	101GE	07/26/2001	SOIL GRID	0.00	0.25		
HC101GE1BAA	101GE	07/26/2001	SOIL GRID	0.25	0.50		
HC101GE1CAA	101GE	07/26/2001	SOIL GRID	0.50	1.00		
HC101GF1AAA	101GF	07/26/2001	SOIL GRID	0.00	0.25		
HC101GF1BAA	101GF	07/26/2001	SOIL GRID	0.25	0.50		
HC101GF1CAA	101GF	07/26/2001	SOIL GRID	0.50	1.00		
HC101GG1AAA	101GG	07/26/2001	SOIL GRID	0.00	0.25		
HC101GG1BAA	101GG	07/26/2001	SOIL GRID	0.25	0.50		
HC101GG1CAA	101GG	07/26/2001	SOIL GRID	0.50	1.00		
HC101GH1AAA	101GH	07/26/2001	SOIL GRID	0.00	0.25		
HC101GH1BAA	101GH	07/26/2001	SOIL GRID	0.25	0.50		
HC101GH1CAA	101GH	07/26/2001	SOIL GRID	0.50	1.00		
HC101GI1AAA	101GI	07/25/2001	SOIL GRID	0.00	0.25		
HC101GI1AAD	101GI	07/25/2001	SOIL GRID	0.00	0.25		
HC101GI1BAA	101GI	07/25/2001	SOIL GRID	0.25	0.50		
HC101GI1CAA	101GI	07/25/2001	SOIL GRID	0.50	1.00		
HC101TA1AAA	101TA	07/11/2001	SOIL GRID	0.00	0.25		
HC101TA1BAA	101TA	07/11/2001	SOIL GRID	0.25	0.50		
HC101TA1CAA	101TA	07/11/2001	SOIL GRID	0.50	1.00		
HD101AB1BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB2BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB3BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB4BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB5BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB6BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB7BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB8BAA	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AB8BAD	101AB	07/23/2001	SOIL GRID	1.50	2.00		
HD101AC1AAA	101AC	07/23/2001	SOIL GRID	0.00	0.25		
HD101AC1BAA	101AC	07/23/2001	SOIL GRID	0.25	0.50		
HD101AC1CAA	101AC	07/23/2001	SOIL GRID	0.50	0.00		
HD101AC1CAA	101AC	07/23/2001	SOIL GRID	0.50	1.00		
HD101CA1AAA	101CA	07/25/2001	SOIL GRID	0.00	0.25		
HD101CA2AAA	101CA	07/25/2001	SOIL GRID	0.00	0.25		
HD101CA3AAA	101CA	07/25/2001	SOIL GRID	0.00	0.25		
HD101CA4AAA	101CA	07/25/2001	SOIL GRID	0.00	0.25		
HD101CA5AAA	101CA	07/25/2001	SOIL GRID	0.00	0.25		
HD101CA5AAD	101CA	07/25/2001	SOIL GRID	0.00	0.25		
HD101E1AAA	101E1	07/26/2001	SOIL GRID	0.00	0.25		
HD101E1BAA	101E1	07/26/2001	SOIL GRID	0.25	0.50		
HD101E1CAA	101E1	07/26/2001	SOIL GRID	0.50	1.00		
ST.F.3.00001.1.0		07/31/2001	SOIL GRID	0.50	1.00		
ST.F.3.00002.1.0		07/31/2001	SOIL GRID	0.00	0.50		
ST.F.3.00003.1.0		07/31/2001	SOIL GRID	2.30	2.90		
LKSNK0004AAA	SNK0004	07/03/2001	SURFACE WATEF	0.00	0.00		

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

TABLE 2
SAMPLING PROGRESS
7/1/2001-7/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
LKSNK0004AAA	SNK0004	07/18/2001	SURFACE WATER	0.00	0.00		
LKSNK0005AAA	SNK0005	07/03/2001	SURFACE WATER	0.00	0.00		
LKSNK0005AAA	SNK0005	07/18/2001	SURFACE WATER	0.00	0.00		
LKSNK004AAA	SNK0004	07/18/2001	SURFACE WATER	0.00	0.00		
LKSNK005AAA	SNK0005	07/18/2001	SURFACE WATER	0.00	0.00		

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

TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2001

Wednesday, August 08, 2001

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 (ETHYI	110.00		NG/L	79.90	84.90	50.00	X
MW-41	W41M1A	05/18/2000	8151	PENTACHLOROPHENOL	1.80	J	UG/L	110.00	120.00	1.00	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	0.00	10.00	2.00	X
MW-31	W31SSA	08/09/2000	8330N	2,4,6-TRINITROTOLUENE	3.90	J	UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	12/08/2000	8330N	2,4,6-TRINITROTOLUENE	5.20	J	UG/L	0.00	10.00	2.00	X
MW-31	W31DDA	08/09/2000	8330N	2,4,6-TRINITROTOLUENE	3.90	J	UG/L	49.00	54.00	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
58MW0009E	WC9EXA	10/02/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.70		UG/L	21.00	26.00	2.00	X
58MW0009E	WC9EXA	01/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	17.00		UG/L	21.00	26.00	2.00	X
58MW0009E	WC9EXA	09/28/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	21.00	26.00	2.00	X
58MW0009E	WC9EXD	09/28/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	21.00	26.00	2.00	X
90MW0022	WF22XA	01/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.80		UG/L	80.00	85.00	2.00	X
90MW0022	WF22XA	02/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.40		UG/L	80.00	85.00	2.00	X
90MW0022	WF22XA	09/30/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20		UG/L	80.00	85.00	2.00	X
90WT0013	WF13XA	01/16/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20	J	UG/L	2.00	12.00	2.00	X
MW-1	W01SSA	09/30/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	0.00	10.00	2.00	X
MW-1	W01SSD	09/30/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		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

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
DW LIMIT = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)
>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 JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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	W01MMA	09/29/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.60		UG/L	40.00	45.00	2.00	X
MW-1	W01M2A	03/01/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	40.00	45.00	2.00	X
MW-1	W01M2A	05/10/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	40.00	45.00	2.00	X
MW-1	W01M2A	07/31/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.40	J	UG/L	40.00	45.00	2.00	X
MW-1	W01M2A	11/18/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.10		UG/L	40.00	45.00	2.00	X
MW-1	W01M2D	11/18/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.00		UG/L	40.00	45.00	2.00	X
MW-100	W100M1A	01/27/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	43.80	53.80	2.00	X
MW-100	W100M1A	06/06/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.30		UG/L	44.48	54.48	2.00	X
MW-100	W100M1D	06/06/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.30		UG/L	44.48	54.48	2.00	X
MW-100	W100M1A	10/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	44.48	54.48	2.00	X
MW-101	W101M1A	06/06/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	25.38	35.38	2.00	X
MW-105	W105M1A	01/27/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.30		UG/L	74.65	84.65	2.00	X
MW-105	W105M1A	06/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.90		UG/L	75.08	85.08	2.00	X
MW-105	W105M1A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.90		UG/L	75.08	85.08	2.00	X
MW-107	W107M2A	06/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.00		UG/L	3.11	13.11	2.00	X
MW-107	W107M2A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	3.11	13.11	2.00	X
MW-111	W111M3A	10/10/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	29.80	39.80	2.00	X
MW-113	W113M2A	09/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	9.20		UG/L	47.14	57.14	2.00	X
MW-113	W113M2A	01/15/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	47.14	57.14	2.00	X
MW-114	W114M2A	03/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	120.00	J	UG/L	36.50	46.50	2.00	X
MW-114	W114M2A	10/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	140.00		UG/L	37.68	47.68	2.00	X
MW-114	W114M2D	10/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	140.00		UG/L	37.68	47.68	2.00	X
MW-114	W114M1A	03/14/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.00	J	UG/L	96.50	106.50	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
MW-147	W147M2A	02/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00		UG/L	72.90	82.90	2.00	X
MW-147	W147M1A	02/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.70		UG/L	89.97	99.97	2.00	X
MW-153	W153M1A	03/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	9.20		UG/L	105.53	115.53	2.00	X
MW-171	W171M2A	05/31/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	79.60	84.60	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

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DW LIMIT = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)
>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 JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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	31.00	36.00	2.00	X
MW-2	W02M2A	02/03/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.80		UG/L	31.00	36.00	2.00	X
MW-2	W02M2A	09/03/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.80		UG/L	31.00	36.00	2.00	X
MW-2	W02M2A	05/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.30	J	UG/L	31.00	36.00	2.00	X
MW-2	W02M2A	08/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	31.00	36.00	2.00	X
MW-2	W02M2A	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	31.00	36.00	2.00	X
MW-2	W02M1A	08/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	73.00	78.00	2.00	X
MW-23	W23M1A	04/27/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.90		UG/L	94.50	104.50	2.00	X
MW-23	W23M1A	11/07/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.30	J	UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	03/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.40		UG/L	99.00	109.00	2.00	X
MW-23	W23M1D	03/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.70		UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	09/13/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.10		UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	05/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.60	J	UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	08/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.30		UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	12/04/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.00		UG/L	99.00	109.00	2.00	X
MW-23	W23M1D	12/04/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.20		UG/L	99.00	109.00	2.00	X
MW-25	W25SSA	10/16/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.00		UG/L	0.00	10.00	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	0.00	10.00	2.00	X
MW-31	W31SSA	02/01/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	210.00		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	09/15/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	50.00		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	05/15/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	110.00		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	08/09/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	140.00		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	12/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	120.00		UG/L	0.00	10.00	2.00	X
MW-31	W31MMA	07/15/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	280.00		UG/L	29.00	39.00	2.00	X
MW-31	W31MMA	02/02/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	370.00		UG/L	29.00	39.00	2.00	X
MW-31	W31MMA	09/15/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	29.00	39.00	2.00	X
MW-31	W31M1A	05/15/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	19.00		UG/L	29.00	39.00	2.00	X
MW-31	W31M1A	08/09/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	14.00		UG/L	29.00	39.00	2.00	X
MW-31	W31DDA	08/09/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	150.00		UG/L	49.00	54.00	2.00	X
MW-34	W34M2A	02/19/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.20		UG/L	55.00	65.00	2.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-34	W34M2A	05/18/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.70		UG/L	55.00	65.00	2.00	X
MW-34	W34M2A	08/10/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	55.00	65.00	2.00	X
MW-34	W34M2A	11/17/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	55.00	65.00	2.00	X
MW-34	W34M1A	05/17/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	75.00	85.00	2.00	X
MW-34	W34M1A	08/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.00		UG/L	75.00	85.00	2.00	X
MW-34	W34M1A	11/17/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.50		UG/L	75.00	85.00	2.00	X
MW-37	W37M2A	09/29/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.90		UG/L	28.00	38.00	2.00	X
MW-37	W37M2A	12/29/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.60		UG/L	28.00	38.00	2.00	X
MW-37	W37M2A	03/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	28.00	38.00	2.00	X
MW-37	W37M2A	08/31/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.80	J	UG/L	28.00	38.00	2.00	X
MW-37	W37M2A	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	28.00	38.00	2.00	X
MW-37	W37M2D	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	28.00	38.00	2.00	X
MW-38	W38M3A	05/06/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	53.00	63.00	2.00	X
MW-38	W38M3A	08/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	53.00	63.00	2.00	X
MW-38	W38M3A	11/10/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00		UG/L	53.00	63.00	2.00	X
MW-38	W38M3A	05/16/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.90	J	UG/L	53.00	63.00	2.00	X
MW-38	W38M3A	08/11/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	53.00	63.00	2.00	X
MW-38	W38M3A	11/20/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	53.00	63.00	2.00	X
MW-40	W40M1A	09/21/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.80		UG/L	15.50	25.50	2.00	X
MW-40	W40M1D	09/21/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	15.50	25.50	2.00	X
MW-40	W40M1A	12/30/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00	J	UG/L	15.50	25.50	2.00	X
MW-40	W40M1A	04/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.00	J	UG/L	15.50	25.50	2.00	X
MW-40	W40M1A	09/01/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40	J	UG/L	15.50	25.50	2.00	X
MW-40	W40M1A	11/27/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	15.50	25.50	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-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

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-73	W73SSD	11/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		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	0.00	10.00	2.00	X
MW-76	W76SSA	05/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.50	J	UG/L	0.00	10.00	2.00	X
MW-76	W76SSA	08/01/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	0.00	10.00	2.00	X
MW-76	W76M2A	01/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	31.00		UG/L	35.00	45.00	2.00	X
MW-76	W76M2D	01/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	35.00	45.00	2.00	X
MW-76	W76M2A	05/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	37.00	J	UG/L	35.00	45.00	2.00	X
MW-76	W76M2A	08/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	31.00		UG/L	35.00	45.00	2.00	X
MW-76	W76M2A	12/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	46.00		UG/L	35.00	45.00	2.00	X
MW-76	W76M1A	12/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.30		UG/L	55.00	65.00	2.00	X
MW-77	W77M2A	01/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	150.00		UG/L	35.00	45.00	2.00	X
MW-77	W77M2A	05/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	100.00	J	UG/L	35.00	45.00	2.00	X
MW-77	W77M2A	08/01/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	97.00	J	UG/L	35.00	45.00	2.00	X
MW-77	W77M2A	12/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	93.00		UG/L	35.00	45.00	2.00	X
MW-85	W85M1A	02/10/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	24.00		UG/L	17.70	27.70	2.00	X
MW-85	W85M1A	05/22/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	18.39	28.39	2.00	X
MW-86	W86SSA	04/28/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50	J	UG/L	0.00	10.00	2.00	X
MW-87	W87M1A	04/28/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.50	J	UG/L	59.53	69.53	2.00	X
MW-87	W87M1A	09/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.00		UG/L	59.53	69.53	2.00	X
MW-87	W87M1A	01/10/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.60		UG/L	59.53	69.53	2.00	X
MW-88	W88M2A	05/24/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.00		UG/L	69.60	79.60	2.00	X
MW-88	W88M2A	09/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.70		UG/L	69.60	79.60	2.00	X
MW-88	W88M2A	01/10/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.80		UG/L	69.60	79.60	2.00	X
MW-89	W89M2A	05/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.30		UG/L	68.95	78.95	2.00	X
MW-89	W89M2A	09/21/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.30		UG/L	68.95	78.95	2.00	X
MW-89	W89M2A	01/11/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.50		UG/L	68.95	78.95	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	24.87	34.87	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	01/20/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	12.00		UG/L	42.85	52.85	2.00	X
MW-91	W91M1A	05/22/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	43.47	53.37	2.00	X
MW-91	W91M1A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	43.47	53.37	2.00	X
MW-91	W91M1D	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	43.47	53.37	2.00	X

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VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-93	W93M2A	01/20/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10	J	UG/L	14.05	24.05	2.00	X
MW-93	W93M2A	05/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20		UG/L	14.50	24.50	2.00	X
MW-93	W93M2A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.20		UG/L	14.50	24.50	2.00	X
MW-93	W93M1A	01/22/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40	J	UG/L	54.20	64.20	2.00	X
MW-93	W93M1D	01/22/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	54.20	64.20	2.00	X
MW-93	W93M1A	05/26/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20	J	UG/L	54.90	64.90	2.00	X
MW-93	W93M1A	11/07/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	54.90	64.90	2.00	X
MW-95	W95M1A	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	74.99	84.99	2.00	X
MW-98	W98M1A	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.10		UG/L	25.06	35.06	2.00	X
MW-99	W99M1A	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.90		UG/L	55.00	65.00	2.00	X
MW-99	W99M1D	05/25/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.90		UG/L	55.00	65.00	2.00	X
MW-99	W99M1A	09/29/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.00		UG/L	55.00	65.00	2.00	X
MW-99	W99M1A	01/13/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.20		UG/L	55.00	65.00	2.00	X
ASPWELL	ASPWELL	07/20/1999	E200.8	LEAD	53.00		UG/L	0.00	0.00	15.00	X
MW-114	W114M2A	03/14/2001	E314.0	PERCHLORATE	260.00		UG/L	36.50	46.50	18.00	X
MW-114	W114M2A	12/29/2000	E314.0	PERCHLORATE	300.00		UG/L	37.68	47.68	18.00	X
MW-132	W132SSA	11/09/2000	E314.0	PERCHLORATE	39.00	J	UG/L	0.00	10.00	18.00	X
MW-132	W132SSA	02/16/2001	E314.0	PERCHLORATE	65.00		UG/L	0.00	10.00	18.00	X
MW-165	W165M2A	05/08/2001	E314.0	PERCHLORATE	122.00	J	UG/L	44.20	54.20	18.00	X
MW-31	W31SSA	08/09/2000	E314.0	PERCHLORATE	40.00	J	UG/L	0.00	10.00	18.00	X
MW-31	W31SSA	12/08/2000	E314.0	PERCHLORATE	30.00		UG/L	0.00	10.00	18.00	X
MW-31	W31SSA	05/02/2001	E314.0	PERCHLORATE	20.00	J	UG/L	7.30	12.30	18.00	X
MW-31	W31M1A	08/09/2000	E314.0	PERCHLORATE	50.00	J	UG/L	29.00	39.00	18.00	X
MW-34	W34M2A	05/01/2001	E314.0	PERCHLORATE	28.00	J	UG/L	50.10	60.10	18.00	X
MW-34	W34M2A	08/10/2000	E314.0	PERCHLORATE	60.00	J	UG/L	55.00	65.00	18.00	X
MW-34	W34M2A	12/18/2000	E314.0	PERCHLORATE	34.00		UG/L	55.00	65.00	18.00	X
MW-34	W34M1A	05/05/2001	E314.0	PERCHLORATE	46.00		UG/L	70.20	80.20	18.00	X
MW-34	W34M1A	12/18/2000	E314.0	PERCHLORATE	109.00		UG/L	70.20	80.20	18.00	X
MW-77	W77M2A	12/06/2000	E314.0	PERCHLORATE	28.00		UG/L	35.00	45.00	18.00	X
MW-78	W78M2A	12/06/2000	E314.0	PERCHLORATE	19.00		UG/L	35.00	45.00	18.00	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	218.00	223.00	6.00	X
MW-34	W34M2A	08/16/1999	IM40MB	ANTIMONY	6.60	J	UG/L	55.00	65.00	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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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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	53.00	63.00	6.00	X
MW-38	W38DDA	08/17/1999	IM40MB	ANTIMONY	6.90	J	UG/L	125.00	135.00	6.00	X
MW-39	W39M1A	08/18/1999	IM40MB	ANTIMONY	7.50		UG/L	87.00	97.00	6.00	X
MW-50	W50M1A	05/15/2000	IM40MB	ANTIMONY	9.50		UG/L	90.00	100.00	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	67.00	72.00	50.00	X
MW-52	W52M3L	08/27/1999	IM40MB	CADMIUM	12.20		UG/L	26.00	36.00	5.00	X
MW-7	W07M1A	09/07/1999	IM40MB	CHROMIUM, TOTAL	114.00		UG/L	67.00	72.00	100.00	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	67.00	72.00	15.00	X
MW-7	W07M1D	09/07/1999	IM40MB	LEAD	18.30		UG/L	67.00	72.00	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	140.00	145.00	10.00	X
MW-13	W13DDL	01/26/1998	IM40MB	MOLYBDENUM	30.40		UG/L	140.00	145.00	10.00	X
MW-13	W13DDA	03/11/1999	IM40MB	MOLYBDENUM	11.00		UG/L	140.00	145.00	10.00	X
MW-13	W13DDD	03/11/1999	IM40MB	MOLYBDENUM	12.10	J	UG/L	140.00	145.00	10.00	X
MW-13	W13DDA	09/09/1999	IM40MB	MOLYBDENUM	17.30		UG/L	140.00	145.00	10.00	X
MW-13	W13DDA	05/17/2000	IM40MB	MOLYBDENUM	17.00		UG/L	140.00	145.00	10.00	X
MW-13	W13DDD	05/17/2000	IM40MB	MOLYBDENUM	16.80		UG/L	140.00	145.00	10.00	X
MW-13	W13DDA	12/15/2000	IM40MB	MOLYBDENUM	11.70		UG/L	140.00	145.00	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	108.00	113.00	10.00	X
MW-16	W16DDD	03/09/1999	IM40MB	MOLYBDENUM	23.20		UG/L	108.00	113.00	10.00	X
MW-16	W16DDA	09/09/1999	IM40MB	MOLYBDENUM	18.00	J	UG/L	108.00	113.00	10.00	X
MW-16	W16DDA	05/17/2000	IM40MB	MOLYBDENUM	12.20		UG/L	108.00	113.00	10.00	X
MW-16	W16DDA	08/03/2000	IM40MB	MOLYBDENUM	12.40		UG/L	108.00	113.00	10.00	X
MW-16	W16DDA	11/16/2000	IM40MB	MOLYBDENUM	16.80		UG/L	108.00	113.00	10.00	X
MW-17	W17M1L	05/18/1999	IM40MB	MOLYBDENUM	12.60		UG/L	97.00	107.00	10.00	X
MW-2	W02SSA	02/23/1998	IM40MB	MOLYBDENUM	72.10		UG/L	0.00	10.00	10.00	X
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

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1997 THROUGH JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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	287.00	295.00	10.00	X
MW-2	W02DDL	02/02/1999	IM40MB	MOLYBDENUM	26.30	J	UG/L	287.00	295.00	10.00	X
MW-2	W02DDA	09/03/1999	IM40MB	MOLYBDENUM	12.80		UG/L	287.00	295.00	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	55.00	65.00	10.00	X
MW-46	W46M2L	03/30/1999	IM40MB	MOLYBDENUM	51.00		UG/L	55.00	65.00	10.00	X
MW-46	W46M2A	08/24/1999	IM40MB	MOLYBDENUM	17.40		UG/L	55.00	65.00	10.00	X
MW-46	W46M1A	03/29/1999	IM40MB	MOLYBDENUM	32.80		UG/L	102.00	112.00	10.00	X
MW-46	W46DDA	04/01/1999	IM40MB	MOLYBDENUM	17.20		UG/L	135.00	145.00	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	90.00	100.00	10.00	X
MW-5	W05DDA	02/13/1998	IM40MB	MOLYBDENUM	28.30		UG/L	220.00	225.00	10.00	X
MW-5	W05DDL	02/13/1998	IM40MB	MOLYBDENUM	26.60		UG/L	220.00	225.00	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	90.00	100.00	10.00	X
MW-52	W52M3A	04/07/1999	IM40MB	MOLYBDENUM	72.60		UG/L	26.00	36.00	10.00	X
MW-52	W52M3L	04/07/1999	IM40MB	MOLYBDENUM	67.60		UG/L	26.00	36.00	10.00	X
MW-52	W52M3A	08/27/1999	IM40MB	MOLYBDENUM	23.40		UG/L	26.00	36.00	10.00	X
MW-52	W52M3L	08/27/1999	IM40MB	MOLYBDENUM	23.10		UG/L	26.00	36.00	10.00	X
MW-52	W52M3L	11/08/1999	IM40MB	MOLYBDENUM	10.50		UG/L	26.00	36.00	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	219.00	229.00	10.00	X
MW-52	W52DDL	04/02/1999	IM40MB	MOLYBDENUM	48.90		UG/L	219.00	229.00	10.00	X
MW-52	W52DDA	08/30/1999	IM40MB	MOLYBDENUM	28.30		UG/L	219.00	229.00	10.00	X
MW-52	W52DDL	08/30/1999	IM40MB	MOLYBDENUM	26.80		UG/L	219.00	229.00	10.00	X
MW-52	W52DDA	11/09/1999	IM40MB	MOLYBDENUM	22.70		UG/L	219.00	229.00	10.00	X
MW-52	W52DDA	05/22/2000	IM40MB	MOLYBDENUM	12.20		UG/L	219.00	229.00	10.00	X
MW-52	W52DDA	08/17/2000	IM40MB	MOLYBDENUM	10.10		UG/L	219.00	229.00	10.00	X
MW-53	W53SSA	02/17/1999	IM40MB	MOLYBDENUM	24.90		UG/L	0.00	10.00	10.00	X

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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	100.00	110.00	10.00	X
MW-53	W53M1L	05/03/1999	IM40MB	MOLYBDENUM	132.00		UG/L	100.00	110.00	10.00	X
MW-53	W53M1A	08/30/1999	IM40MB	MOLYBDENUM	55.20		UG/L	100.00	110.00	10.00	X
MW-53	W53M1L	08/30/1999	IM40MB	MOLYBDENUM	54.10		UG/L	100.00	110.00	10.00	X
MW-53	W53M1A	11/05/1999	IM40MB	MOLYBDENUM	41.20		UG/L	100.00	110.00	10.00	X
MW-53	W53M1L	11/05/1999	IM40MB	MOLYBDENUM	38.20		UG/L	100.00	110.00	10.00	X
MW-53	W53M1A	06/01/2000	IM40MB	MOLYBDENUM	10.30	J	UG/L	100.00	110.00	10.00	X
MW-53	W53DDA	02/18/1999	IM40MB	MOLYBDENUM	15.90		UG/L	157.00	167.00	10.00	X
MW-53	W53DDL	02/18/1999	IM40MB	MOLYBDENUM	17.40		UG/L	157.00	167.00	10.00	X
MW-53	W53DDA	08/30/1999	IM40MB	MOLYBDENUM	11.50		UG/L	157.00	167.00	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	58.00	68.00	10.00	X
MW-54	W54M2L	05/04/1999	IM40MB	MOLYBDENUM	13.10		UG/L	58.00	68.00	10.00	X
MW-54	W54M2A	08/27/1999	IM40MB	MOLYBDENUM	43.70		UG/L	58.00	68.00	10.00	X
MW-54	W54M2L	08/27/1999	IM40MB	MOLYBDENUM	43.20		UG/L	58.00	68.00	10.00	X
MW-54	W54M2A	11/08/1999	IM40MB	MOLYBDENUM	14.50		UG/L	58.00	68.00	10.00	X
MW-54	W54M1A	04/30/1999	IM40MB	MOLYBDENUM	11.80		UG/L	80.00	90.00	10.00	X
MW-54	W54DDA	05/05/1999	IM40MB	MOLYBDENUM	17.50		UG/L	126.00	136.00	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	60.00	70.00	10.00	X
MW-55	W55M1A	05/13/1999	IM40MB	MOLYBDENUM	12.50		UG/L	90.00	100.00	10.00	X
MW-55	W55DDA	05/13/1999	IM40MB	MOLYBDENUM	22.60		UG/L	120.00	130.00	10.00	X
MW-55	W55DDA	08/30/1999	IM40MB	MOLYBDENUM	14.20		UG/L	120.00	130.00	10.00	X
MW-55	W55DDA	11/08/1999	IM40MB	MOLYBDENUM	11.00		UG/L	120.00	130.00	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
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	30.00	40.00	10.00	X
MW-57	W57M2A	03/22/2000	IM40MB	MOLYBDENUM	10.80	J	UG/L	60.00	70.00	10.00	X
MW-57	W57DDA	12/13/1999	IM40MB	MOLYBDENUM	18.60		UG/L	125.00	135.00	10.00	X

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MW-57	W57DDL	12/13/1999	IM40MB	MOLYBDENUM	17.80		UG/L	125.00	135.00	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	67.00	72.00	10.00	X
MW-81	W81M1A	10/13/1999	IM40MB	MOLYBDENUM	24.30		UG/L	99.00	109.00	10.00	X
MW-81	W81M1L	10/13/1999	IM40MB	MOLYBDENUM	22.10		UG/L	99.00	109.00	10.00	X
MW-81	W81DDA	08/17/2000	IM40MB	MOLYBDENUM	10.10		UG/L	155.00	165.00	10.00	X
MW-82	W82DDA	10/13/1999	IM40MB	MOLYBDENUM	15.40		UG/L	96.00	106.00	10.00	X
MW-82	W82DDL	10/13/1999	IM40MB	MOLYBDENUM	14.40		UG/L	96.00	106.00	10.00	X
MW-83	W83DDA	10/12/1999	IM40MB	MOLYBDENUM	13.40		UG/L	105.00	115.00	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
MW-145	W145SSA	02/12/2001	IM40MB	SODIUM	37,000.00		UG/L	0.00	10.00	20,000.00	X
MW-16	W16SSA	11/17/1997	IM40MB	SODIUM	20,900.00		UG/L	0.00	10.00	20,000.00	X
MW-16	W16SSL	11/17/1997	IM40MB	SODIUM	20,400.00		UG/L	0.00	10.00	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-2	W02DDA	11/19/1997	IM40MB	SODIUM	21,500.00		UG/L	287.00	295.00	20,000.00	X
MW-2	W02DDL	11/19/1997	IM40MB	SODIUM	22,600.00		UG/L	287.00	295.00	20,000.00	X
MW-21	W21SSA	10/24/1997	IM40MB	SODIUM	24,000.00		UG/L	0.00	10.00	20,000.00	X
MW-21	W21SSL	10/24/1997	IM40MB	SODIUM	24,200.00		UG/L	0.00	10.00	20,000.00	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	55.00	65.00	20,000.00	X
MW-46	W46M2L	03/30/1999	IM40MB	SODIUM	24,400.00		UG/L	55.00	65.00	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	60.00	70.00	20,000.00	X
MW-57	W57M2A	03/22/2000	IM40MB	SODIUM	24,500.00		UG/L	60.00	70.00	20,000.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-57	W57M2A	06/30/2000	IM40MB	SODIUM	25,900.00		UG/L	60.00	70.00	20,000.00	X
MW-57	W57M2A	08/29/2000	IM40MB	SODIUM	23,200.00		UG/L	60.00	70.00	20,000.00	X
MW-57	W57M1A	12/14/1999	IM40MB	SODIUM	23,700.00		UG/L	100.00	110.00	20,000.00	X
MW-57	W57M1A	03/07/2000	IM40MB	SODIUM	20,900.00		UG/L	100.00	110.00	20,000.00	X
MW-57	W57M1A	07/05/2000	IM40MB	SODIUM	22,200.00		UG/L	100.00	110.00	20,000.00	X
MW-57	W57M1A	08/29/2000	IM40MB	SODIUM	20,100.00		UG/L	100.00	110.00	20,000.00	X
SDW261160	WG160L	01/07/1998	IM40MB	SODIUM	20,600.00		UG/L	0.00	0.00	20,000.00	X
SDW261160	WG160A	01/13/1999	IM40MB	SODIUM	27,200.00		UG/L	0.00	0.00	20,000.00	X
SDW261160	WG160L	01/13/1999	IM40MB	SODIUM	28,200.00		UG/L	0.00	0.00	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	0.00	10.00	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	251.00	256.00	2.00	X
MW-2	W02DDD	08/02/2000	IM40MB	THALLIUM	4.90	J	UG/L	287.00	295.00	2.00	X
MW-21	W21SSA	10/24/1997	IM40MB	THALLIUM	6.90	J	UG/L	0.00	10.00	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	218.00	223.00	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	28.00	38.00	2.00	X
MW-38	W38M4A	08/18/1999	IM40MB	THALLIUM	2.80	J	UG/L	15.00	25.00	2.00	X
MW-38	W38M2A	05/11/1999	IM40MB	THALLIUM	4.90	J	UG/L	70.00	80.00	2.00	X
MW-39	W39M1A	12/21/2000	IM40MB	THALLIUM	4.00		UG/L	87.00	97.00	2.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2001

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	69.00	79.00	2.00	X
MW-42	W42M2A	11/19/1999	IM40MB	THALLIUM	4.00	J	UG/L	119.00	129.00	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	102.00	112.00	2.00	X
MW-46	W46DDA	11/02/1999	IM40MB	THALLIUM	5.10	J	UG/L	135.00	145.00	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	29.73	39.73	2.00	X
MW-48	W48DAA	06/26/2000	IM40MB	THALLIUM	4.70	J	UG/L	119.00	129.00	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	29.48	39.48	2.00	X
MW-50	W50M1A	05/15/2000	IM40MB	THALLIUM	6.20	J	UG/L	90.00	100.00	2.00	X
MW-51	W51M3A	08/25/1999	IM40MB	THALLIUM	4.30	J	UG/L	29.00	39.00	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	26.00	36.00	2.00	X
MW-52	W52DDA	04/02/1999	IM40MB	THALLIUM	2.80	J	UG/L	219.00	229.00	2.00	X
MW-52	W52DDL	04/02/1999	IM40MB	THALLIUM	2.60	J	UG/L	219.00	229.00	2.00	X
MW-52	W52DDA	08/30/1999	IM40MB	THALLIUM	3.80	J	UG/L	219.00	229.00	2.00	X
MW-53	W53M1A	11/05/1999	IM40MB	THALLIUM	3.40	J	UG/L	100.00	110.00	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	80.00	90.00	2.00	X
MW-54	W54M1A	11/05/1999	IM40MB	THALLIUM	3.90	J	UG/L	80.00	90.00	2.00	X
MW-55	W55M1A	08/31/1999	IM40MB	THALLIUM	2.50	J	UG/L	90.00	100.00	2.00	X
MW-56	W56SSA	09/05/2000	IM40MB	THALLIUM	4.00	J	UG/L	0.00	10.00	2.00	X
MW-56	W56M3A	09/05/2000	IM40MB	THALLIUM	6.10	J	UG/L	28.00	38.00	2.00	X
MW-56	W56M3D	09/05/2000	IM40MB	THALLIUM	4.40	J	UG/L	28.00	38.00	2.00	X

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1997 THROUGH JULY 2001

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MW-57	W57M2A	03/22/2000	IM40MB	THALLIUM	4.10	J	UG/L	60.00	70.00	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	37.00	47.00	2.00	X
MW-7	W07MMA	02/23/1999	IM40MB	THALLIUM	4.10	J	UG/L	67.00	72.00	2.00	X
MW-7	W07M1A	09/07/1999	IM40MB	THALLIUM	26.20		UG/L	67.00	72.00	2.00	X
MW-7	W07M1D	09/07/1999	IM40MB	THALLIUM	12.70		UG/L	67.00	72.00	2.00	X
MW-7	W07M2L	02/05/1998	IM40MB	THALLIUM	6.60	J	UG/L	137.00	142.00	2.00	X
MW-7	W07M2A	02/24/1999	IM40MB	THALLIUM	4.40	J	UG/L	137.00	142.00	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	0.00	10.00	2.00	X
MW-94	W94M2A	01/11/2001	IM40MB	THALLIUM	2.00	J	UG/L	14.04	24.04	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	0.00	10.00	2.00	X
95-14	W9514A	09/28/1999	IM40MB	ZINC	2,430.00		UG/L	90.00	120.00	2,000.00	X
95-15	W9515A	10/17/1997	IM40MB	ZINC	7,210.00		UG/L	80.00	92.00	2,000.00	X
95-15	W9515L	10/17/1997	IM40MB	ZINC	4,620.00		UG/L	80.00	92.00	2,000.00	X
LRWS3-1	WL31XA	10/21/1997	IM40MB	ZINC	2,480.00		UG/L	102.00	117.00	2,000.00	X
LRWS3-1	WL31XL	10/21/1997	IM40MB	ZINC	2,410.00		UG/L	102.00	117.00	2,000.00	X
LRWS4-1	WL41XA	11/24/1997	IM40MB	ZINC	3,220.00		UG/L	66.00	91.00	2,000.00	X
LRWS4-1	WL41XL	11/24/1997	IM40MB	ZINC	3,060.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51DL	11/25/1997	IM40MB	ZINC	4,410.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XA	11/25/1997	IM40MB	ZINC	4,510.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XD	11/25/1997	IM40MB	ZINC	4,390.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XL	11/25/1997	IM40MB	ZINC	3,900.00		UG/L	66.00	91.00	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	11/17/1997	IM40MB	ZINC	3,480.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XL	11/17/1997	IM40MB	ZINC	2,600.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XA	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	11/21/1997	IM40MB	ZINC	4,320.00		UG/L	186.00	201.00	2,000.00	X

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LRWS7-1	WL71XL	11/21/1997	IM40MB	ZINC	3,750.00		UG/L	186.00	201.00	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	110.00	120.00	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
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	95.00	100.00	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	2.00	12.00	6.00	X
90WT0013	WF13XA	01/14/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	2.00	12.00	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	0.00	0.00	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

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DW LIMIT = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)
>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 JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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	108.00	113.00	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	197.00	207.00	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	223.00	233.00	6.00	X
MW-19	W19DDA	03/04/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	251.00	256.00	6.00	X
MW-2	W02M2A	01/20/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	24.00		UG/L	31.00	36.00	6.00	X
MW-2	W02M1A	01/21/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00	J	UG/L	73.00	78.00	6.00	X
MW-2	W02DDA	02/02/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	287.00	295.00	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	153.00	163.00	6.00	X
MW-23	W23M3D	11/13/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00		UG/L	153.00	163.00	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	59.00	69.00	6.00	X
MW-38	W38M3A	05/06/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	15.00		UG/L	53.00	63.00	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	69.00	79.00	6.00	X
MW-43	W43M1A	05/26/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00		UG/L	93.00	103.00	6.00	X
MW-44	W44M1A	09/20/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00		UG/L	55.00	65.00	6.00	X

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DW LIMIT = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)
>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 JULY 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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	102.00	112.00	6.00	X
MW-46	W46DDA	11/02/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00	J	UG/L	135.00	145.00	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	220.00	225.00	6.00	X
MW-52	W52M3A	08/27/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00	J	UG/L	26.00	36.00	6.00	X
MW-53	W53M1A	08/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	31.00		UG/L	100.00	110.00	6.00	X
MW-53	W53DDA	02/18/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	18.00		UG/L	157.00	167.00	6.00	X
MW-55	W55DDA	05/13/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	120.00	130.00	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	60.00	70.00	6.00	X
MW-57	W57DDA	12/13/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	95.00		UG/L	125.00	135.00	6.00	X
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	130.00	140.00	6.00	X
MW-84	W84DDA	03/03/2000	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	30.00		UG/L	151.00	161.00	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	60.00	65.00	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	60.00	65.00	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	95.10	105.10	6.00	X
MW-142	W142M1A	01/29/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	20.00		UG/L	180.50	190.50	6.00	X
MW-146	W146M1A	02/23/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	8.40		UG/L	71.58	76.58	6.00	X
MW-28	W28M1A	01/12/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	9.70		UG/L	168.50	178.50	6.00	X

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

TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 6/15/01-7/31/01

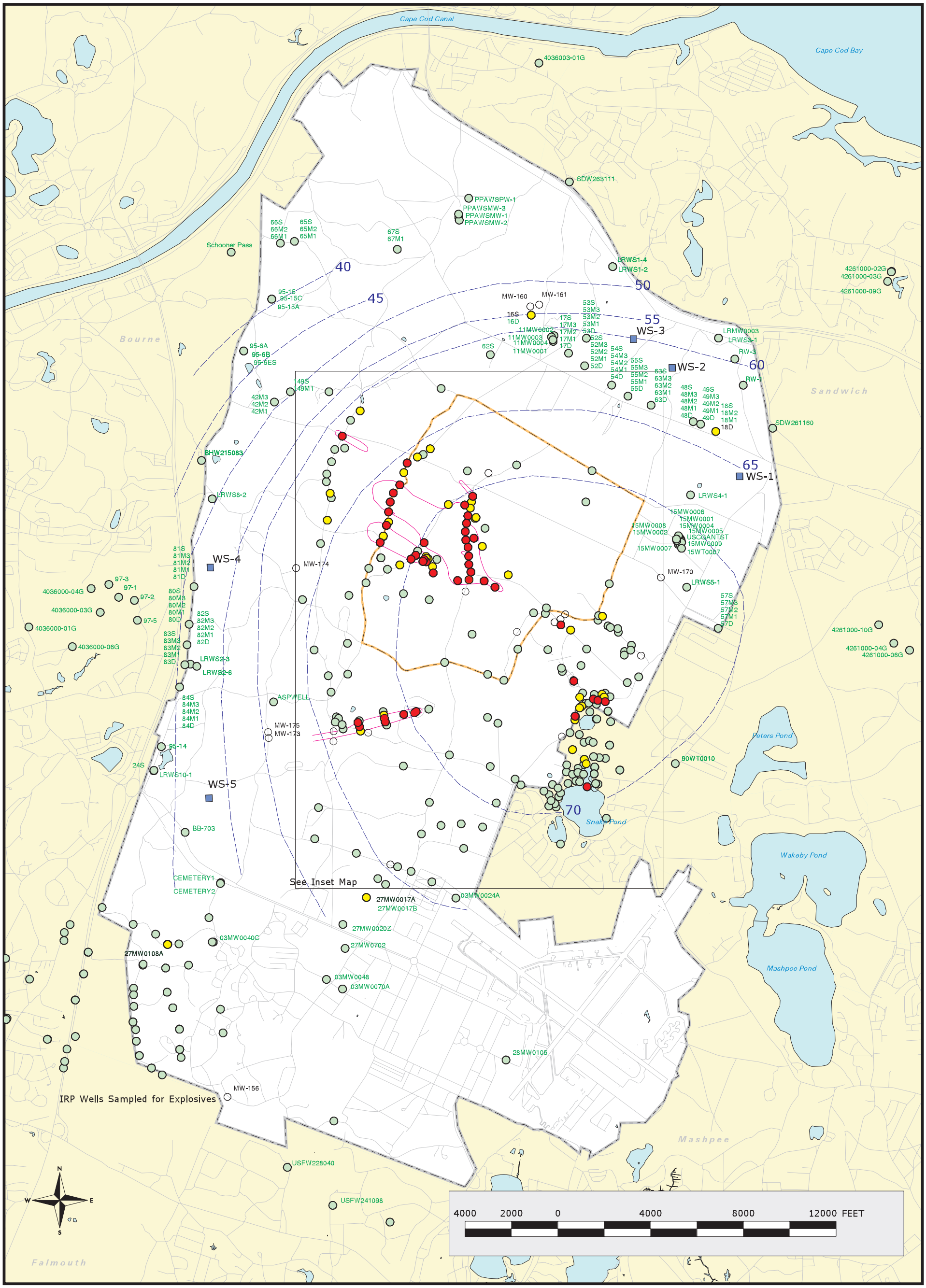
OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
HDA06140101AA	A06140101	06/23/2001	CRATER GRAB	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HDA06140101AA	A06140101	06/23/2001	CRATER GRAB	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W132SSA	MW-132	06/15/2001	GROUNDWATER	37.00	47.00	0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W132SSA	MW-132	06/15/2001	GROUNDWATER	37.00	47.00	0.00	10.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G175DBA	MW-175	07/18/2001	PROFILE	145.00	145.00	20.90	20.90	8330N	NITROGLYCERIN	NO
G175DCA	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90	8330N	NITROGLYCERIN	NO
G175DCA	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90	8330N	PENTAERYTHRITOL TETRANITR/	NO
G175DCD	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DCD	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90	8330N	NITROGLYCERIN	NO
G175DDA	MW-175	07/18/2001	PROFILE	165.00	165.00	40.90	40.90	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G175DEA	MW-175	07/18/2001	PROFILE	175.00	175.00	50.90	50.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DEA	MW-175	07/18/2001	PROFILE	175.00	175.00	50.90	50.90	8330N	NITROGLYCERIN	NO
G175DEA	MW-175	07/18/2001	PROFILE	175.00	175.00	50.90	50.90	8330N	PENTAERYTHRITOL TETRANITR/	NO
G175DFA	MW-175	07/18/2001	PROFILE	185.00	185.00	60.90	60.90	8330N	NITROGLYCERIN	NO
G175DFD	MW-175	07/18/2001	PROFILE	185.00	185.00	60.90	60.90	8330N	NITROGLYCERIN	NO
G175DGA	MW-175	07/19/2001	PROFILE	195.00	195.00	70.90	70.90	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G175DGA	MW-175	07/19/2001	PROFILE	195.00	195.00	70.90	70.90	8330N	NITROGLYCERIN	NO
G175DIA	MW-175	07/19/2001	PROFILE	215.00	215.00	90.90	90.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DIA	MW-175	07/19/2001	PROFILE	215.00	215.00	90.90	90.90	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G175DIA	MW-175	07/19/2001	PROFILE	215.00	215.00	90.90	90.90	8330N	NITROGLYCERIN	NO
G175DIA	MW-175	07/19/2001	PROFILE	215.00	215.00	90.90	90.90	8330N	PENTAERYTHRITOL TETRANITR/	NO
G175DJA	MW-175	07/19/2001	PROFILE	225.00	225.00	100.90	100.90	8330N	2,6-DINITROTOLUENE	YES
G175DJA	MW-175	07/19/2001	PROFILE	225.00	225.00	100.90	100.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DJA	MW-175	07/19/2001	PROFILE	225.00	225.00	100.90	100.90	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G175DJA	MW-175	07/19/2001	PROFILE	225.00	225.00	100.90	100.90	8330N	NITROGLYCERIN	NO
G175DJA	MW-175	07/19/2001	PROFILE	225.00	225.00	100.90	100.90	8330N	PENTAERYTHRITOL TETRANITR/	NO
G175DKA	MW-175	07/19/2001	PROFILE	235.00	235.00	110.90	110.90	8330N	NITROGLYCERIN	NO
G175DLA	MW-175	07/19/2001	PROFILE	245.00	245.00	120.90	120.90	8330N	2,6-DINITROTOLUENE	YES
G175DLA	MW-175	07/19/2001	PROFILE	245.00	245.00	120.90	120.90	8330N	NITROGLYCERIN	NO
G175DLA	MW-175	07/19/2001	PROFILE	245.00	245.00	120.90	120.90	8330N	PENTAERYTHRITOL TETRANITR/	NO
G175DMA	MW-175	07/19/2001	PROFILE	255.00	255.00	130.90	130.90	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G175DMA	MW-175	07/19/2001	PROFILE	255.00	255.00	130.90	130.90	8330N	2,6-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

TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 6/15/01-7/31/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G175DMA	MW-175	07/19/2001	PROFILE	255.00	255.00	130.90	130.90	8330N	NITROGLYCERIN	NO
G175DNA	MW-175	07/19/2001	PROFILE	265.00	265.00	140.90	140.90	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G175DNA	MW-175	07/19/2001	PROFILE	265.00	265.00	140.90	140.90	8330N	2,6-DINITROTOLUENE	YES
G175DNA	MW-175	07/19/2001	PROFILE	265.00	265.00	140.90	140.90	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
G175DNA	MW-175	07/19/2001	PROFILE	265.00	265.00	140.90	140.90	8330N	NITROGLYCERIN	NO
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90	8330N	2,6-DINITROTOLUENE	YES
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90	8330N	3-NITROTOLUENE	YES
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90	8330N	4-NITROTOLUENE	NO
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90	8330N	NITROGLYCERIN	NO
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90	8330N	PICRIC ACID	NO
G175DPA	MW-175	07/19/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G175DPA	MW-175	07/19/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	2,6-DINITROTOLUENE	YES
G175DPA	MW-175	07/19/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DPA	MW-175	07/19/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	NITROGLYCERIN	NO
G175DPA	MW-175	07/19/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	PICRIC ACID	NO
G175DQA	MW-175	07/19/2001	PROFILE	295.00	295.00	170.90	170.90	8330N	NITROGLYCERIN	NO
G175DRA	MW-175	07/19/2001	PROFILE	305.00	305.00	180.90	180.90	8330N	2,6-DINITROTOLUENE	YES
G175DRA	MW-175	07/19/2001	PROFILE	305.00	305.00	180.90	180.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DRA	MW-175	07/19/2001	PROFILE	305.00	305.00	180.90	180.90	8330N	NITROGLYCERIN	NO
G175DSA	MW-175	07/19/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	2,6-DINITROTOLUENE	YES
G175DSA	MW-175	07/19/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DSA	MW-175	07/19/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	3-NITROTOLUENE	YES
G175DSA	MW-175	07/19/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	NITROGLYCERIN	NO
G175DSA	MW-175	07/19/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	PENTAERYTHRITOL TETRANITR/	NO
G175DTA	MW-175	07/19/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	2,6-DINITROTOLUENE	YES
G175DTA	MW-175	07/19/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DTA	MW-175	07/19/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	3-NITROTOLUENE	YES
G175DTA	MW-175	07/19/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	NITROGLYCERIN	NO

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



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available
- 2.0 ug/l RDX Concentration Contour

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

amec August 01, 2001 DRAFT

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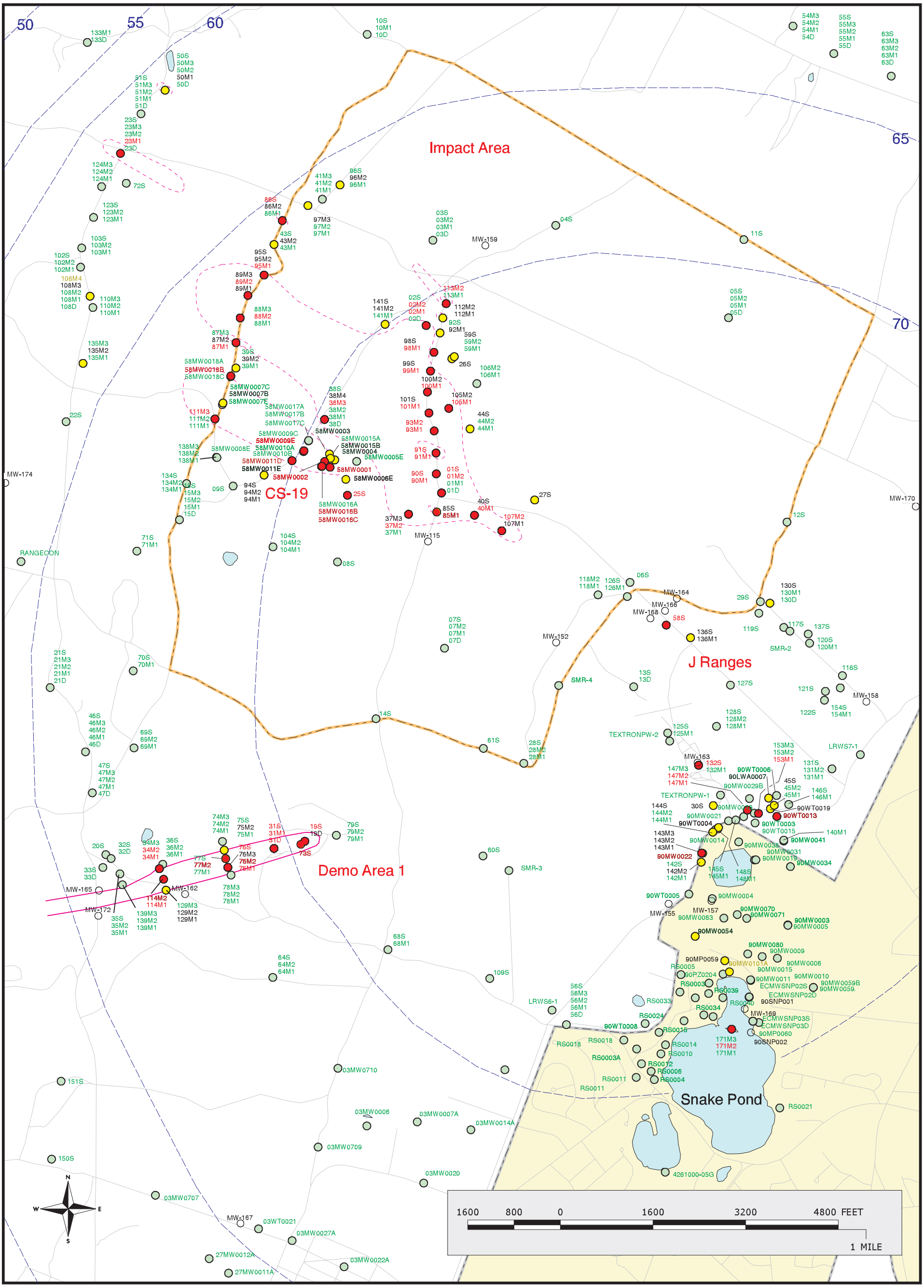
Figure 1

Explosives in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
1



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available
- 2.0 ug/l RDX Concentration Contour

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPszone 2001, Units: Meters

amec August 01, 2001 DRAFT

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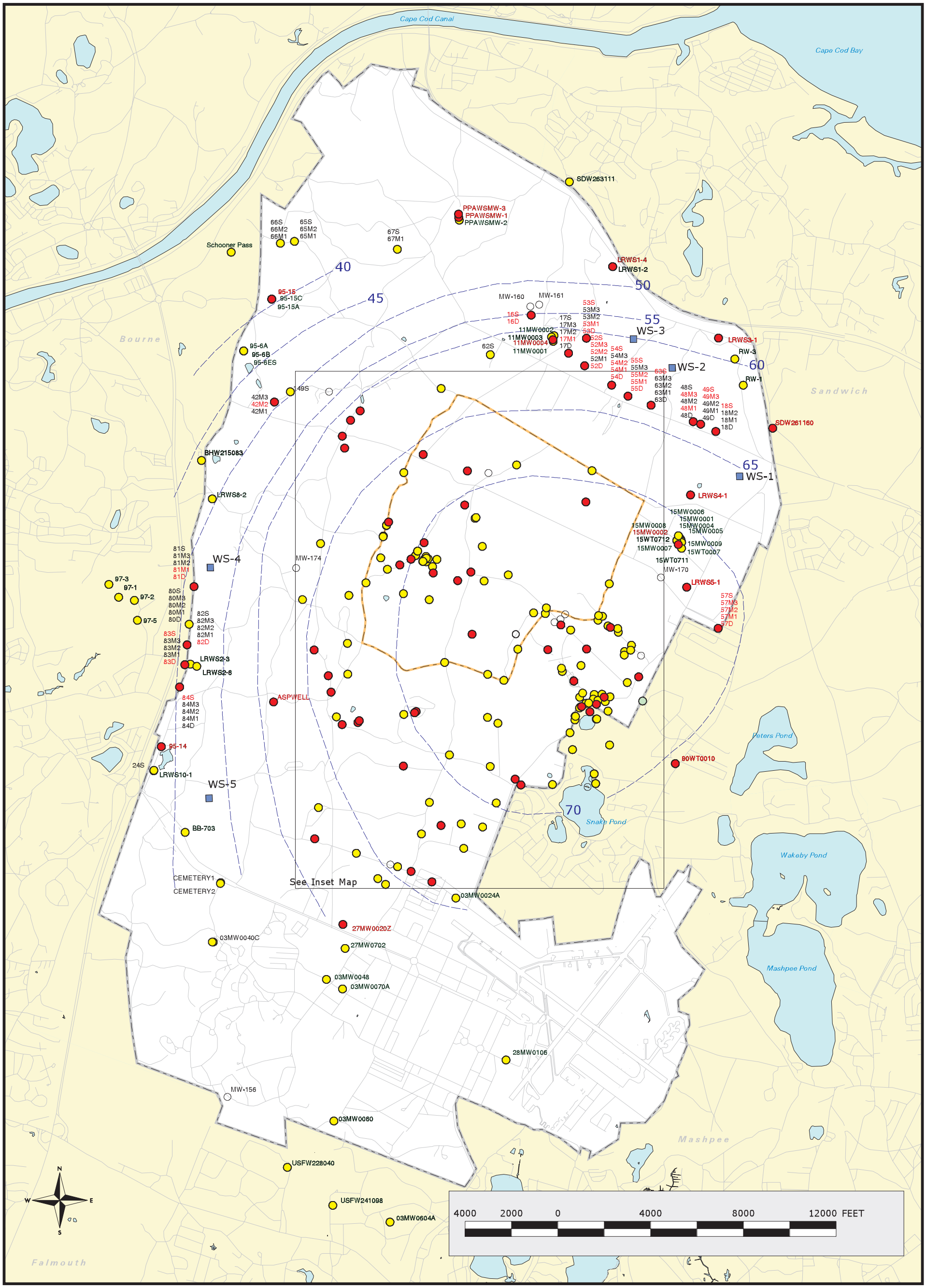
Figure 1 - INSET MAP

Explosives in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
1



LEGEND

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

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

amec August 01, 2001 DRAFT

Figure 2

Metals in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
2

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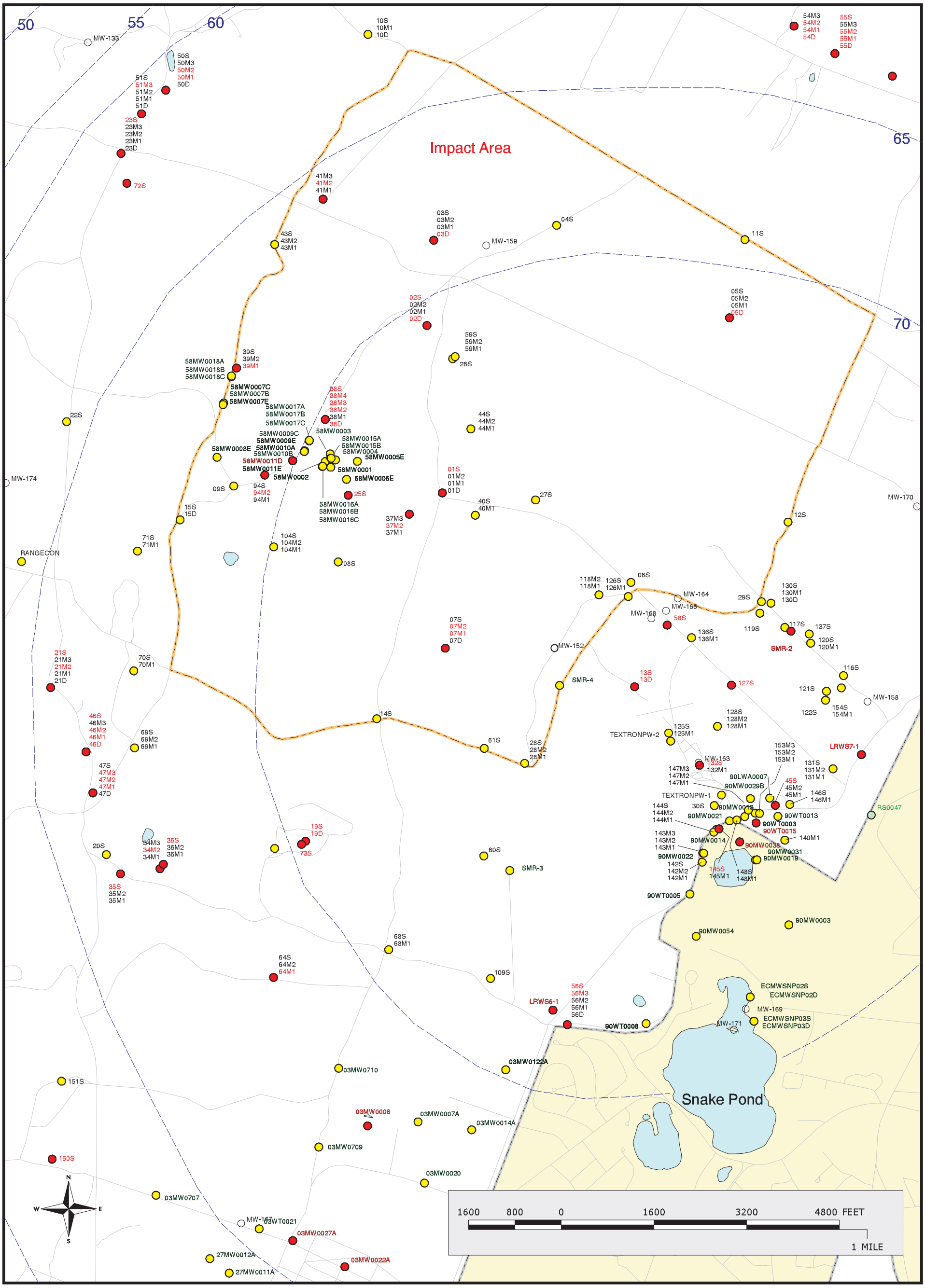


LEGEND

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

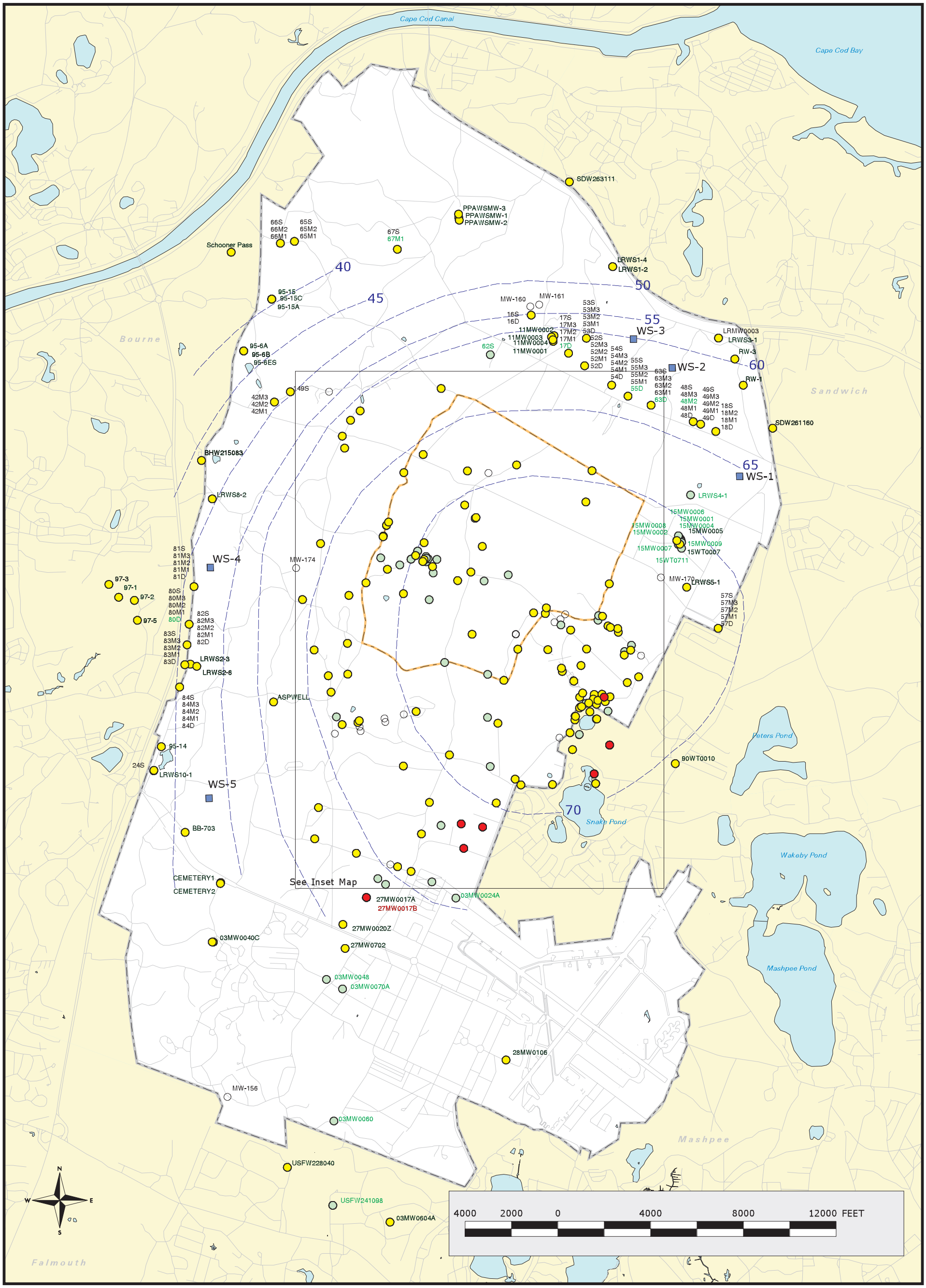
Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

Figure 2 - INSET MAP

Metals in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
2



LEGEND

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

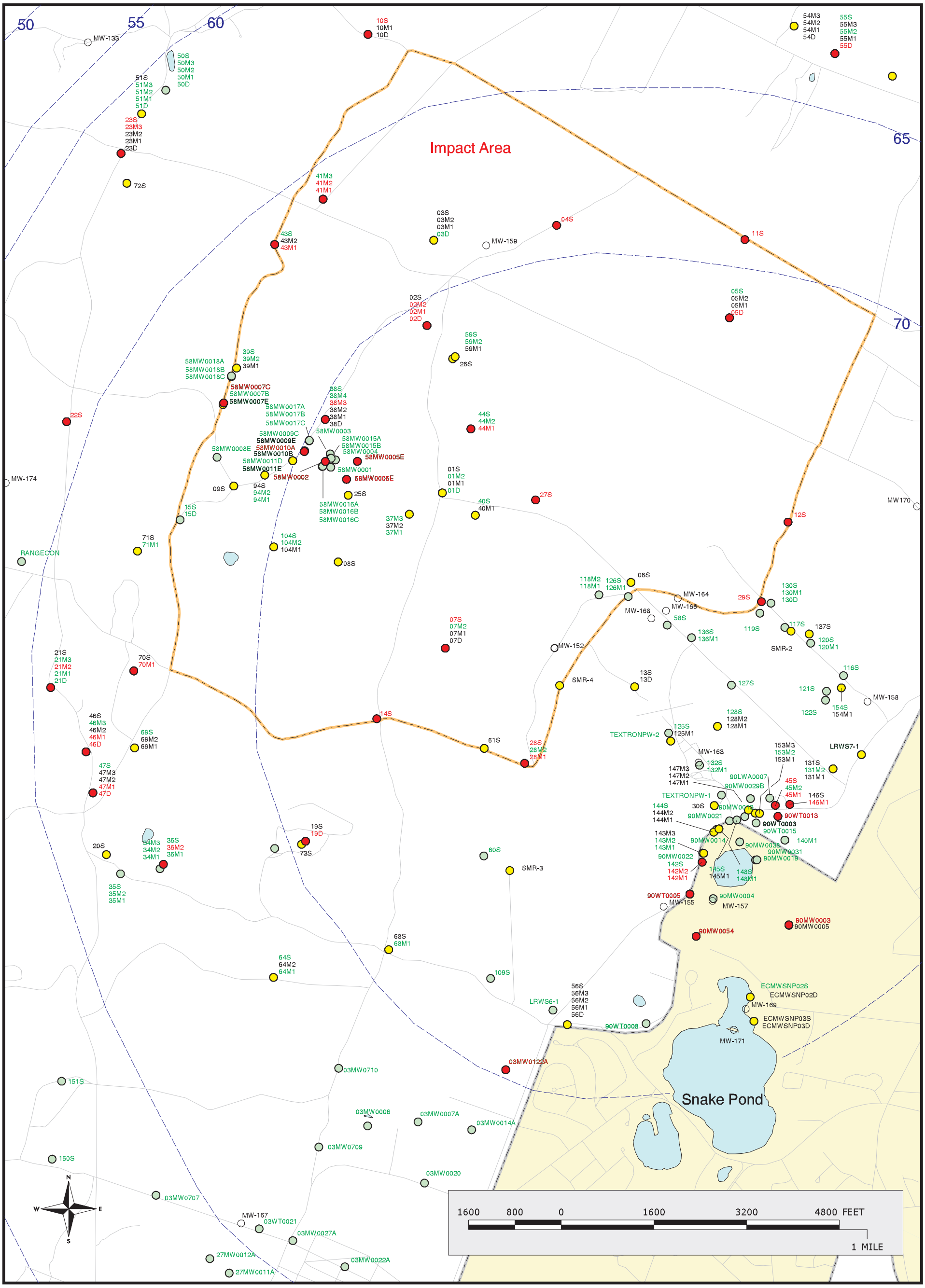
Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

Figure 3

VOCs in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
3



LEGEND

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

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

Figure 4 - INSET MAP

SVOCs in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
4

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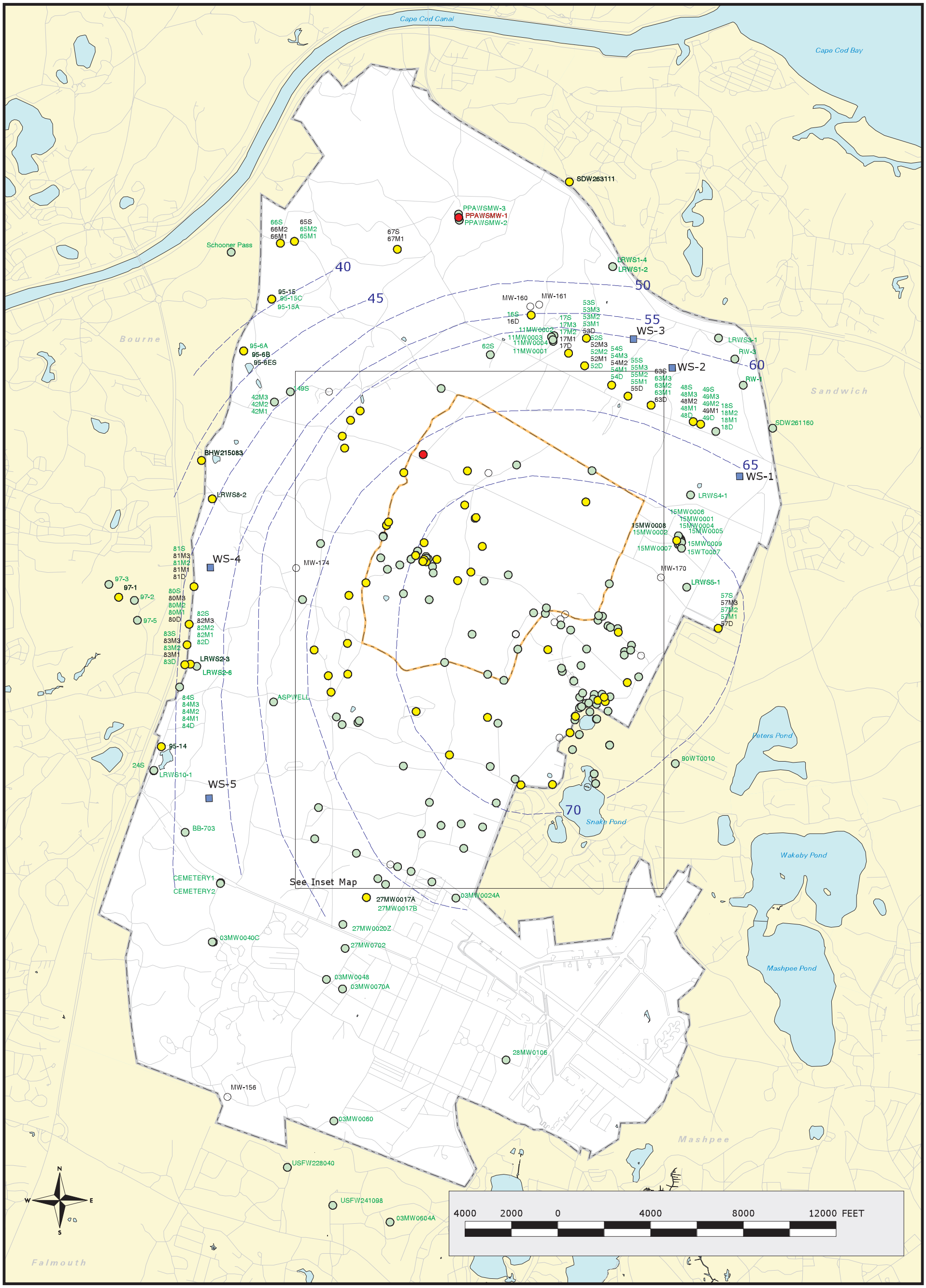

LEGEND

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

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

Figure 5

Herbicides and Pesticides in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
5

amec August 01, 2001 DRAFT

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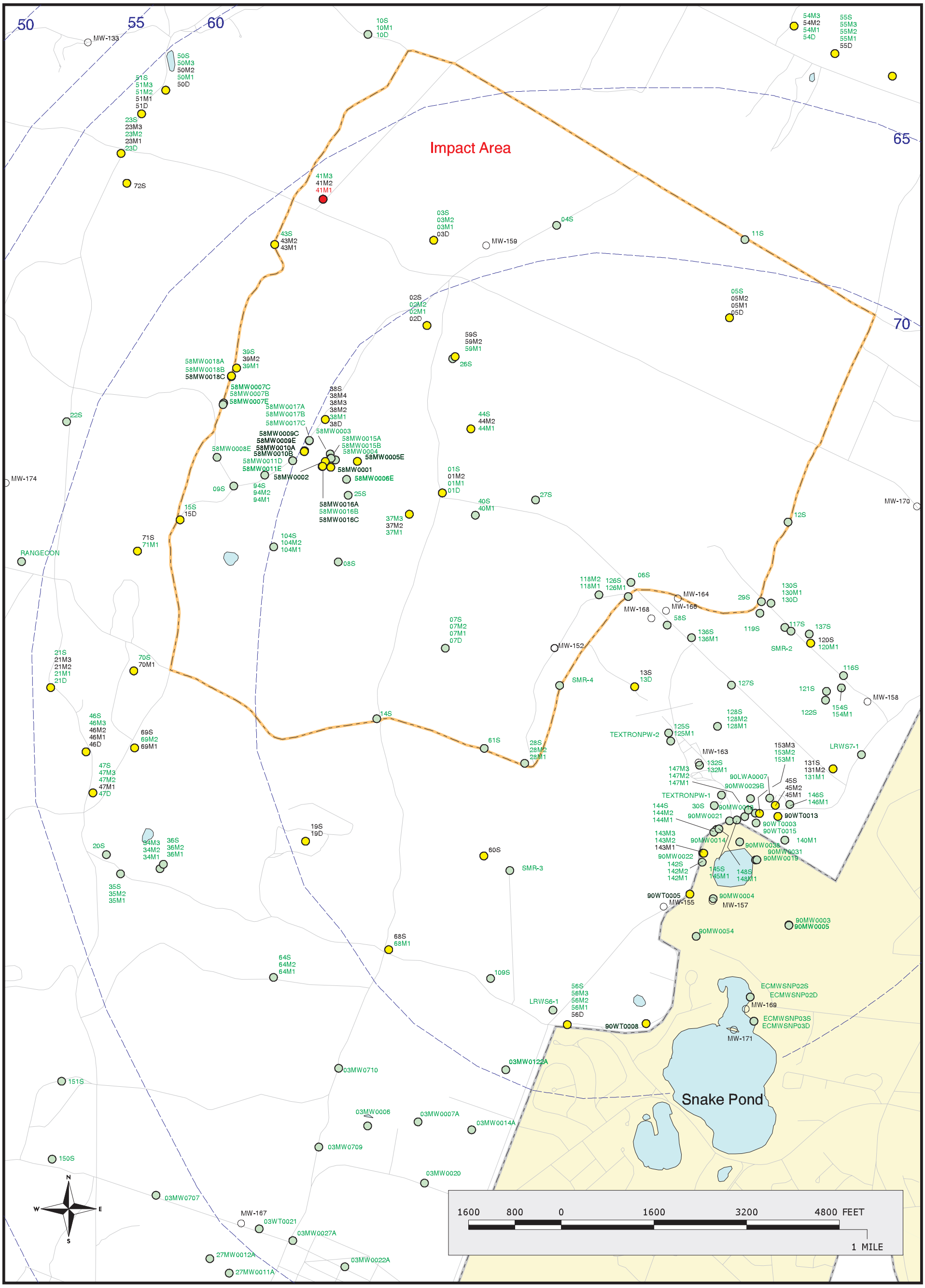


LEGEND

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

Sources & Notes

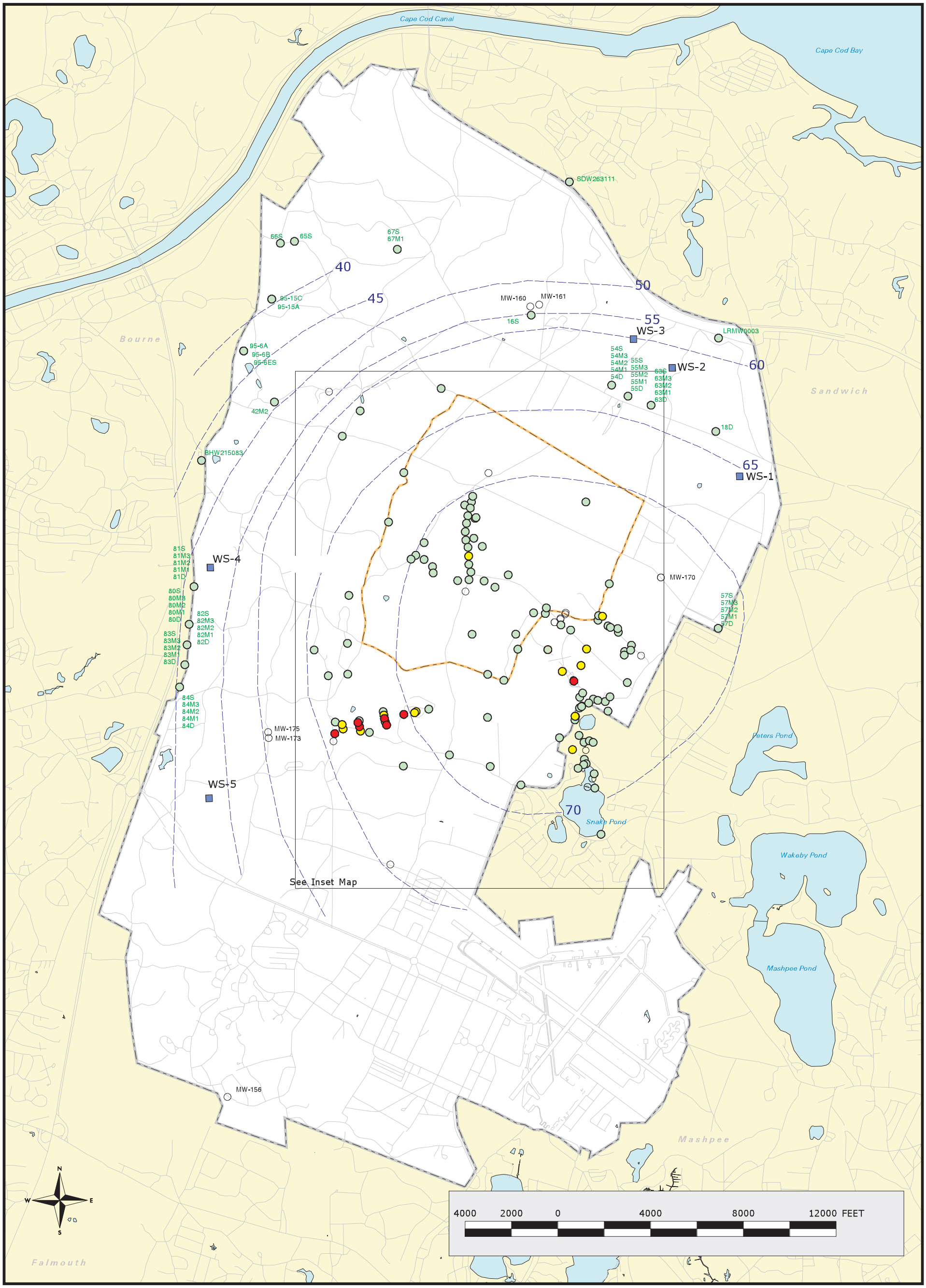
Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

Figure 5 - INSET MAP

Herbicides and Pesticides in Groundwater Compared to MCL/HAs Validated Data as of 07/27/01

Analyte Group
5

g:\mmr\al\amls\work\monthly\august2001\pest



LEGEND

- Validated Detection GTE Safe Exposure Limit
- Validated Detection LT Safe Exposure Limit
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

amec August 01, 2001 DRAFT

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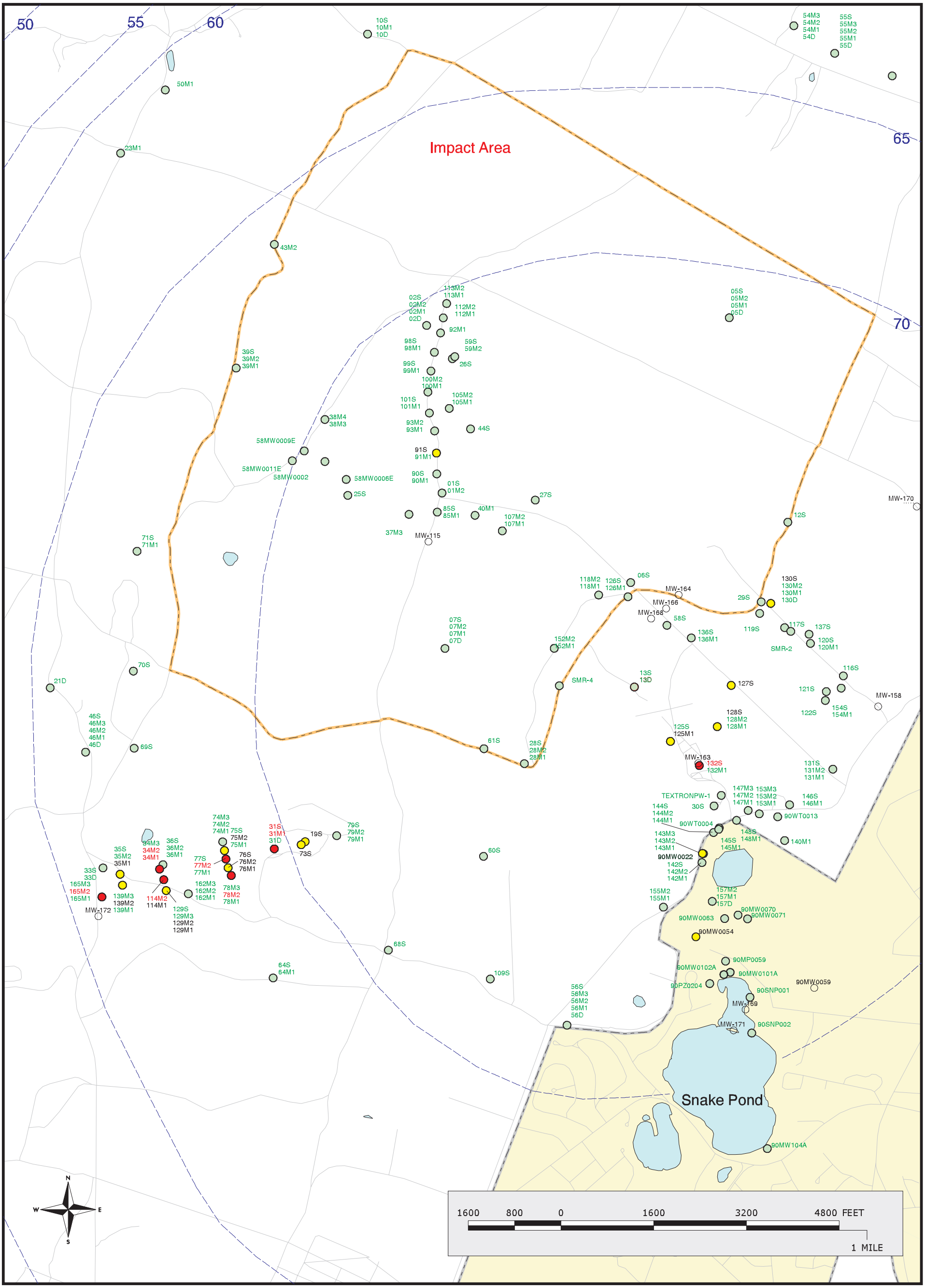
Figure 6

Perchlorate in Groundwater Compared to Safe Exposure Limit Validated Data as of 07/27/01

Analyte Group
6



LEGEND

- Validated Detection GTE Safe Exposure Limit
- Validated Detection LT Safe Exposure Limit
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPsZone 2001, Units: Meters

amec August 01, 2001 DRAFT

Figure 6 - INSET MAP

Perchlorate in Groundwater Compared to Safe Exposure Limit Validated Data as of 07/27/01

Analyte Group
6

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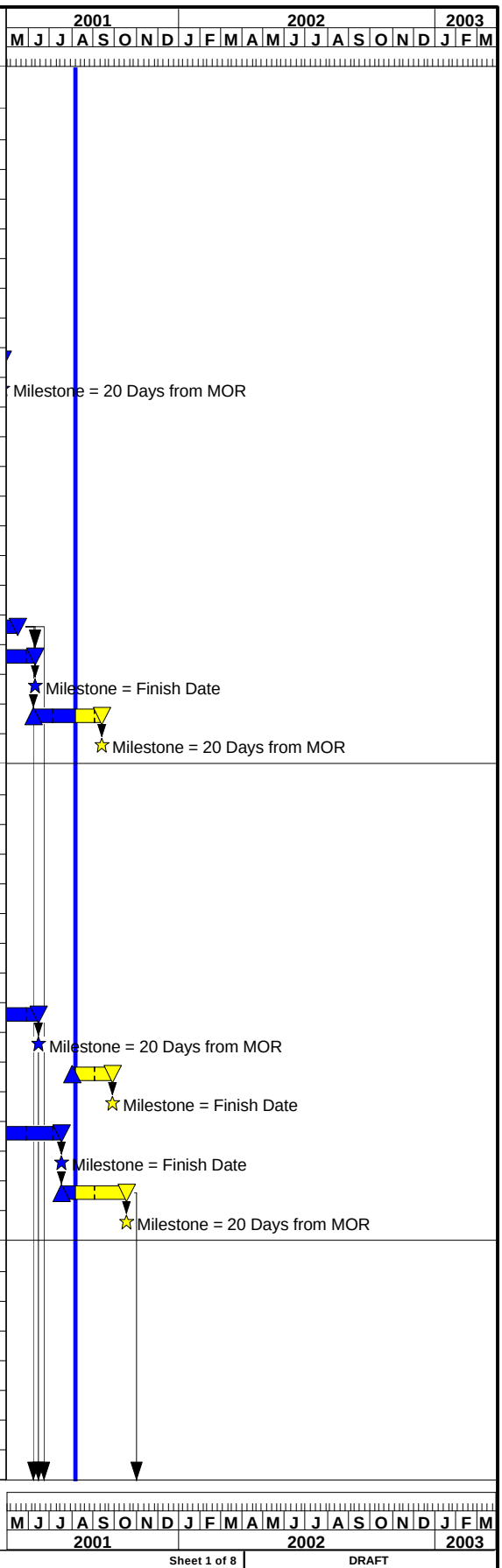
Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Site Characterization (AO1)					
Demo Area 1					
00110	Demo 1 Soil/GW Investigation		0	14OCT99A	23MAR00A
00120	Demo 1 Soil/GW Report Preparation		0	09MAR00A	08JUN00A
00130	Demo 1 Draft Soil/GW Report	YES	0		08JUN00A
00144	Demo 1 Establish GW COCs		0	22AUG00A	05DEC00A
00146	Demo 1 Rvw/Apprv GW COCs		0	06DEC00A	19DEC00A
00148	Demo 1 Prepare Draft GW Report		0	20DEC00A	18JAN01A
00150	Demo 1 Draft GW Report	YES	0		18JAN01A
00152	Demo 1 Revise Draft GW Report		0	19JAN01A	19APR01A
00154	Demo 1 Final GW Report	YES	0		19APR01A
00160	Demo 1 Geophysics Investigation		0	05JAN00A	15JUN00A
00170	Demo 1 Geophysics Presentation		0		15JUN00A
00175	Start Soil Investigation		0	27JUN00A	
00182	Geophysics Validation		0	24AUG00A	02OCT00A
00180	Soil Investigation		0	27JUN00A	27OCT00A
00181	Soil Analyses & Validation		0	30OCT00A	12JAN01A
00141	Demo 1 Establish Soil COCs		0	12FEB01A	16MAR01A
00142	Demo 1 Rvw/Apprv Soil COCs		0	19MAR01A	15MAY01A
00156	Demo 1 Prepare Draft Soil Report		0	26FEB01A	08JUN01A
00157	Demo 1 Draft Soil Report	YES	0		08JUN01A
00158	Demo 1 Revise Draft Soil Report		26	08JUN01A	11SEP01
00159	Demo 1 Final Soil Report	YES	0		11SEP01
Central Impact Area					
00210	Impact Area Planning		0	23AUG99A	24JAN00A
00220	Impact Area Start Data Collection	YES	0	05JAN00A	
00230	Impact Area Investigation		0	05JAN00A	27JUL00A
00272	Response Plan Preparation		0	03MAY00A	31AUG00A
00274	Response Plan Investigation		0	14JUN00A	20DEC00A
00276	Response Plan Report Prep.		0	27NOV00A	28FEB01A
00278	Response Plan Draft Report (GW)	YES	0		28FEB01A
00280	Response Plan Revise Draft Report		0	01MAR01A	13JUN01A
00282	Response Plan Final Report (GW)	YES	0		13JUN01A
00283	Install 8 Additional Well Nests		39	01AUG01A	28SEP01
00284	Complete 8 Additional Well Nests	YES	0		28SEP01
00286	Prepare Draft Soil Report		0	09APR01A	17JUL01A
00288	Submit Draft Soil Report	YES	0		17JUL01A
00290	Revise Draft Soil Report		52	17JUL01A	17OCT01
00292	Final Soil Report	YES	0		17OCT01
J-2 Range					
00310	J-2 Range Planning		0	08FEB00A	07APR00A
00320	J-2 Range Draft Workplan	YES	0		07APR00A
00330	J-2 Range Rev. Draft Workplan		0	10APR00A	01AUG00A
00340	J-2 Range Final Workplan		0		01AUG00A
00350	J-2 Range Start Data Collection	YES	0	05JUL00A	
00360	J-2 Range Investigation		0	05JUL00A	01DEC00A
00365	J-2 Range Geophysics Survey		0	15MAY00A	28MAR01A



Project Start 29FEB00
Project Finish 21SEP05
Data Date 06AUG01
Run Date 08AUG01

Early Bar
Progress Bar

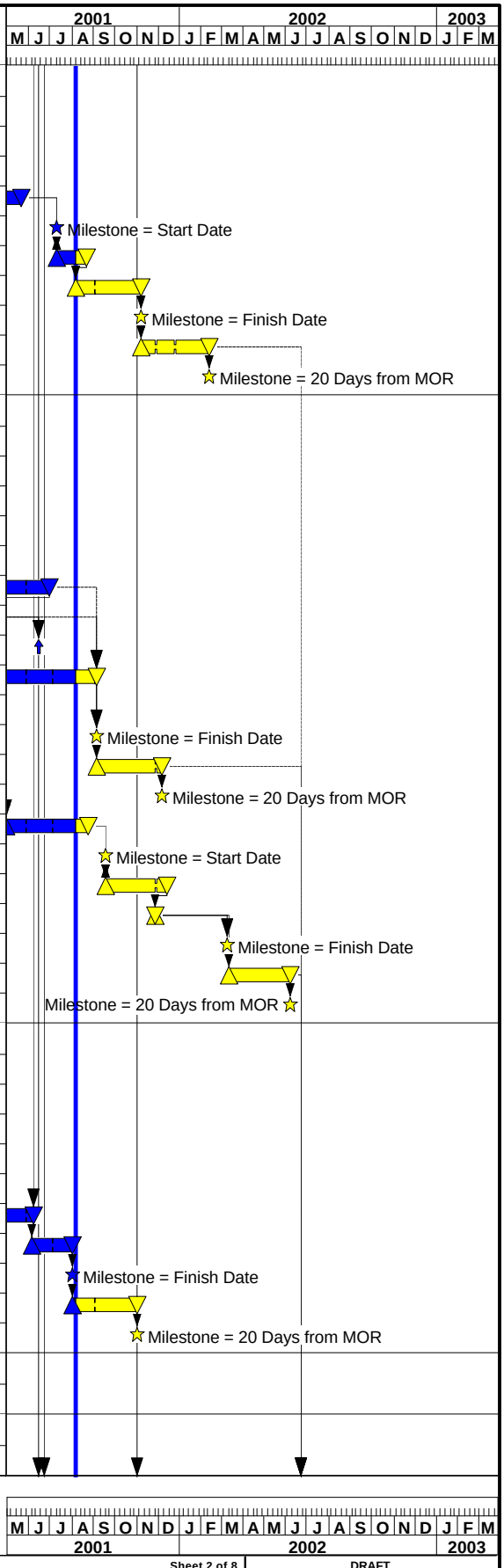
UBER

Figure 7. Combined Schedule for Impact Area Groundwater Study Prgrm as of 8/6/01

DRAFT

Date	Revision	Checked	Approved

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
J-2 Range					
00367	J-2 Range Geophysics Prsntatn.		0		19APR01A
00370	J-2 Range Report Preparation		0	16NOV00A	16MAR01A
00380	J-2 Range Interim Data Report	YES	0		16MAR01A
00392	J-2 Additional Delineation Planning		0	04DEC00A	21MAY01A
00393	Start J-2 Addn'l Delineation	YES	0	11JUL01A	
00394	J-2 Range Additional Delineation		12	11JUL01A	21AUG01
00395	J-2 Range Draft Report Prep.		65	07AUG01	06NOV01
00396	J-2 Range Draft Report	YES	0		06NOV01
00397	J-2 Range Revise Draft Report		65	07NOV01	11FEB02
00398	J-2 Range Final Report	YES	0		11FEB02
J-1/J-3 Range					
00410	J-1/J-3 Range Planning		0	06DEC99A	21APR00A
00420	J-1/J-3 Range Draft Workplan	YES	0		21APR00A
00430	J-1/J-3 Range Rev. Draft Workplan		0	24APR00A	25AUG00A
00440	J-1/J-3 Range Final Workplan		0		25AUG00A
00450	J-1/J-3 Range Start Data Cllctn	YES	0	26JUL00A	
00460	J-1/J-3 Range Investigation		0	26JUL00A	29JUN01A
00465	J-1/J-3 Range Geophys. Investigation		0	15MAY00A	20MAR01A
00467	J-1/J-3 Range Geophys. Presentation		0		14JUN01A
00470	J-1/J-3 Range Report Preparation		22	22JAN01A	05SEP01
00475	J-1/J-3/L Range Interim Results Report	YES	0		30MAR01A
00480	J-1/J-3 Range Draft Report	YES	0		05SEP01
00490	J-1/J-3 Range Rev. Draft Report		65	06SEP01	07DEC01
00491	J-1/J-3 Range Final Report	YES	0		07DEC01
00492	Additional Delineation Planning		14	26APR01A	23AUG01
00493	Start J-1/J-3/L Addn'l Delineation	YES	0	17SEP01	
00494	Additional Delineation Investigation		62	17SEP01	13DEC01
00495	Additional Delineation Report Prep.		70	27NOV01	08MAR02
00496	Additional Delineation Draft Report	YES	0		08MAR02
00497	Additional Delineation Rev. Draft Report		65	11MAR02	07JUN02
00498	Additional Delineation Final Report	YES	0		07JUN02
Gun/Mortar Positions					
00510	Gun/Mortar Investigation		0	30AUG99A	17APR00A
00515	Gun/Mortar Geophys. Presentation		0		23MAR00A
00520	Gun/Mortar Report Preparation		0	24MAR00A	07JUL00A
00530	Gun/Mortar Draft Report	YES	0		07JUL00A
00540	Gun/Mortar Report MOR		0	10JUL00A	16NOV00A
00542	Gun/Mortar Establish COCs		0	16FEB01A	06JUN01A
00546	Gun/Mortar Prepare Draft Final Report		0	06JUN01A	01AUG01A
00548	Gun/Mortar Draft Final Report	YES	0		01AUG01A
00549	Gun/Mortar Rev. Draft Final		63	01AUG01A	01NOV01
00550	Gun/Mortar Final Report	YES	0		01NOV01
+ Trenches, Bunkers, Ground Scars					
			0	04OCT99A	18SEP00A
+ Mortar Targets					
			0	04OCT99A	16NOV00A



Project Start 29FEB00
Project Finish 21SEP05
Data Date 06AUG01
Run Date 08AUG01

Early Bar
Progress Bar

UBER

Figure 7. Combined Schedule for Impact Area Groundwater Study Prgrm as of 8/6/01

DRAFT			
Date	Revision	Checked	Approved

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Training Areas					
00810	Training Areas Planning		0	01APR99A	22JUL99A
00820	Training Areas Draft Workplan		0		22JUL99A
00830	Training Areas Rev. Draft Workplan		0	23JUL99A	23MAR00A
00840	Training Areas Final Workplan	YES	0		23MAR00A
00850	Training Areas Start Data Cllctn	YES	0	20MAR00A	
00860	Training Areas Background		165	20MAR00A	29MAR02
00862	Start Training Areas Fieldwork	YES	0	01APR02	
00864	Training Areas Fieldwork		55	01APR02	14JUN02
00870	Training Areas Report Preparation		62	17JUN02	10SEP02
00880	Submit Training Areas Draft Report	YES	0		10SEP02
00890	Training Areas Rev. Draft Report		65	11SEP02	10DEC02
00895	Training Areas Final Report	YES	0		10DEC02
+ KD/U Ranges					
			0	10MAY99A	16JUN00A
+ J-3 Wetland					
			0	15APR99A	20JUL00A
High Use Target Area 1					
01110	HUTA Planning		0	10JAN00A	24APR00A
01120	HUTA Draft Workplan		0		24APR00A
01130	HUTA Revise Draft Workplan		0	24APR00A	27OCT00A
01140	HUTA Final Workplan		0		27OCT00A
01170	HUTA Report Preparation		62	04DEC00A	31OCT01
01180	HUTA Draft Report	YES	0		31OCT01
01190	HUTA Revise Draft Report		65	01NOV01	05FEB02
01195	HUTA Final Report	YES	0		05FEB02
+ Water Bodies					
			0	19NOV99A	13JUL00A
+ Slit Trench					
			0	01MAY00A	27JUL00A
+ Impact Area Targets					
			0	24APR00A	18APR01A
Phase II(b)					
01500	Phase II(b) Draft Workplans		0	01JUN00A	31AUG00A
01510	Revise Draft Workplans		0	01SEP00A	16NOV00A
01520	Phase II(b) Final Workplans		0		17NOV00A
01530	Phase II(b) Investigations		0	15JAN01A	01AUG01A
01540	Phase II(b) Report Preparation		11	29MAY01A	20AUG01
01550	Phase II(b) Draft Report	YES	0		20AUG01
01560	Revise Draft Report		65	22NOV01	26FEB02
01570	Phase II(b) Final Report	YES	0		26FEB02
Munition Survey Project					
MSP Phase I					
01610	Submit MSP Phase I Draft Report	YES	0		30OCT00A
01615	Revise MSP Phase I Draft Report		20	01NOV00A	31AUG01
01620	Submit Revised MSP Phase I Draft	YES	0		31AUG01
01625	Revise Revised MSP Phase I Draft		65	04SEP01	05DEC01

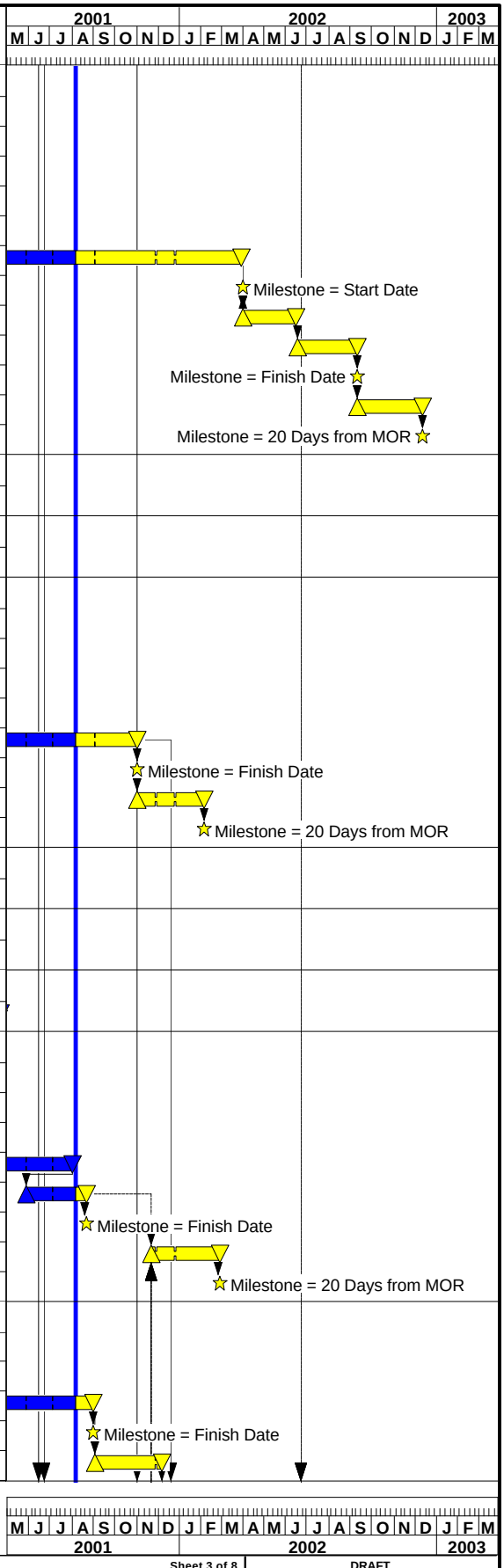


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Figure 7. Combined Schedule for Impact Area Groundwater Study Prgrm as of 8/6/01

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Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
MSP Phase I					
01630	Submit MSP Phase I Final Report	YES	0		05DEC01
MSP Phase II					
AirMag Target Lists					
01701	Start Fieldwork	YES	0	26JUN01A	
01703	Fieldwork		16	26JUN01A	27AUG01
01705	Prepare Report		30	28AUG01	09OCT01
01707	Submit Draft Report	YES	0		09OCT01
01708	Revise Draft Report		65	10OCT01	14JAN02
01709	Submit Final Report	YES	0		14JAN02
Demo 1 Validation					
01711	Start Fieldwork	YES	0	10JUL01A	
01713	Fieldwork		0	10JUL01A	24JUL01A
01715	Prepare Report		44	25JUL01A	05OCT01
01717	Submit Draft Report	YES	0		05OCT01
01718	Revise Draft Report		65	08OCT01	10JAN02
01719	Submit Final Report	YES	0		10JAN02
Slit Trench Validation					
01721	Start Fieldwork	YES	0	30JUL01A	
01723	Fieldwork		4	30JUL01A	09AUG01
01725	Prepare Report		62	10AUG01	06NOV01
01727	Submit Draft Report	YES	0		06NOV01
01728	Revise Draft Report		65	07NOV01	11FEB02
01729	Submit Final Report	YES	0		11FEB02
J1 Range Vehicle Removal					
01731	Start Fieldwork	YES	0	13AUG01	
01733	Fieldwork		16	13AUG01*	04SEP01
01735	Prepare Report		20	05SEP01	02OCT01
01737	Submit Draft Report	YES	0		02OCT01
01738	Revise Draft Report		65	03OCT01	07JAN02
01739	Submit Final Report	YES	0		07JAN02
ASP Geophysics					
01741	Start Fieldwork	YES	0	14AUG01	
01743	Fieldwork		18	14AUG01*	07SEP01
01745	Prepare Report		24	10SEP01	11OCT01
01747	Submit Draft Report	YES	0		11OCT01
01748	Revise Draft Report		65	12OCT01	16JAN02
01749	Submit Final Report	YES	0		16JAN02
Former K Range					
01751	Start Fieldwork	YES	0	21AUG01	
01753	Fieldwork		23	21AUG01*	21SEP01
01755	Prepare Report		20	24SEP01	19OCT01
01757	Submit Draft Report	YES	0		19OCT01
01758	Revise Draft Report		65	22OCT01	24JAN02
01759	Submit Final Report	YES	0		24JAN02
Former A Range					
01761	Start Fieldwork	YES	0	22AUG01	
01763	Fieldwork		28	22AUG01*	01OCT01

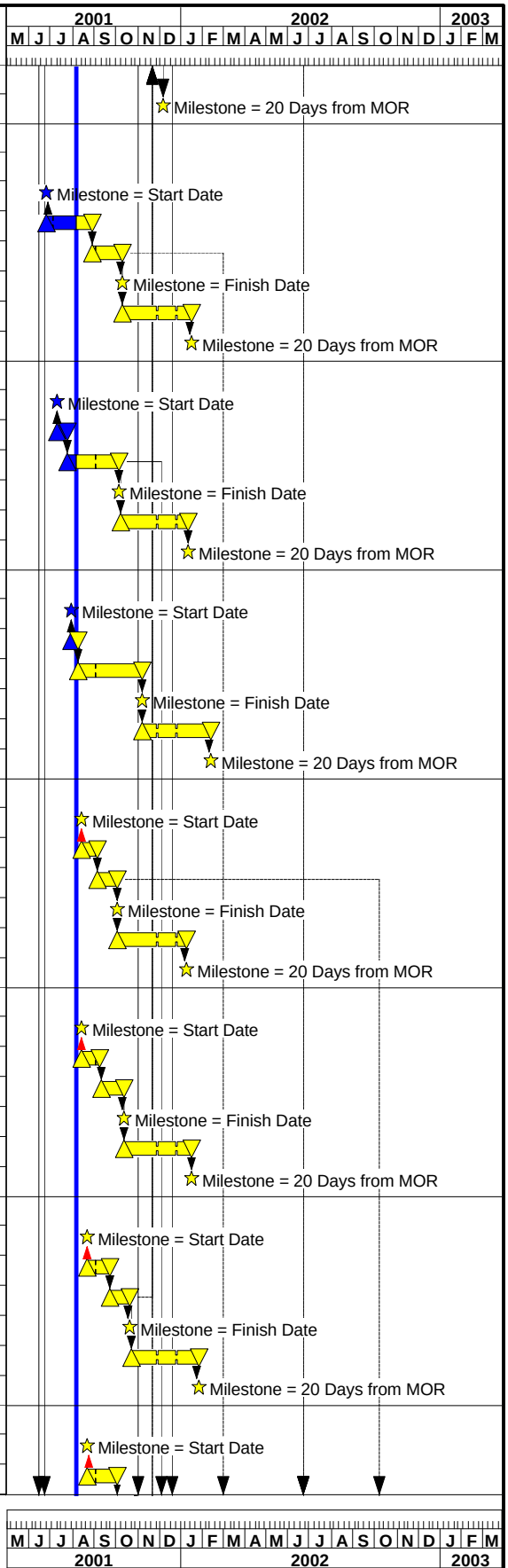

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Figure 7. Combined Schedule for Impact Area Groundwater Study Prgrm as of 8/6/01

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Date	Revision	Checked	Approved

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Former A Range					
01765	Prepare Report		20	02OCT01	29OCT01
01767	Submit Draft Report	YES	0		29OCT01
01768	Revise Draft Report		65	30OCT01	01FEB02
01769	Submit Final Report	YES	0		01FEB02
Succonsette Pond					
01771	Start Fieldwork	YES	0	24AUG01	
01773	Fieldwork		12	24AUG01*	11SEP01
01775	Prepare Report		20	12SEP01	09OCT01
01777	Submit Draft Report	YES	0		09OCT01
01778	Revise Draft Report		65	10OCT01	14JAN02
01779	Submit Final Report	YES	0		14JAN02
Demo Area 2					
01781	Start Fieldwork	YES	0	06SEP01	
01783	Fieldwork		35	06SEP01*	24OCT01
01785	Prepare Report		20	25OCT01	21NOV01
01787	Submit Draft Report	YES	0		21NOV01
01788	Revise Draft Report		65	22NOV01	26FEB02
01789	Submit Final Report	YES	0		26FEB02
+ Fate and Transport Modeling					
			0	01JAN99A	19DEC00A
Groundwater Monitoring Programs					
08100	Water Supply (Qrtrly & Annual)	YES	0	12JUL99A	29DEC00A
08110	Phase I Wells	YES	0	01SEP97A	30NOV99A
08120	Far Field Group 1 Wells	YES	0	17FEB99A	22NOV99A
08130	Supplemental IRP Wells	YES	0	08APR99A	04FEB00A
08140	Phase II (a) Wells	YES	0	30MAR99A	11MAY00A
08150	Far Field Group 2 Wells	YES	0	21SEP99A	14APR00A
08160	Far Field New Group 2 Wells		0	21OCT99A	07JUL00A
08170	Gun/Mortar Position Wells	YES	0	01NOV99A	04MAY00A
08180	Demo 1 1999 Response Wells		0	20JAN00A	03AUG00A
08190	Impact Area 2000 Response Wells		0	28APR00A	31JUL01A
08200	CY 2000 Interim LT Monitoring		0	02MAY00A	29DEC00A
08210	CY 2001 Interim LT Monitoring		101	26APR01A	31DEC01
+ Analytical Methods					
			0	05NOV98A	26JUN00A
Reports					
09160	Phase II Interim Results Preparation		0	01SEP99A	01NOV99A
09170	Phase II Interim Results Report		0		01NOV99A
09180	Background GW Report Prep		0	01NOV99A	10DEC99A
09190	Draft Background GW Report		0		10DEC99A
09200	Draft ILTGM Plan Preparation		0	06JAN00A	01MAR00A
09210	Draft ILTGM Plan		0		02MAR00A
09220	Revise Draft ILTGM Plan		0	02MAR00A	18AUG00A
09230	Final ILTGM Plan		0		18AUG00A
09330	Submit Draft Revised ASR	YES	0		31OCT01

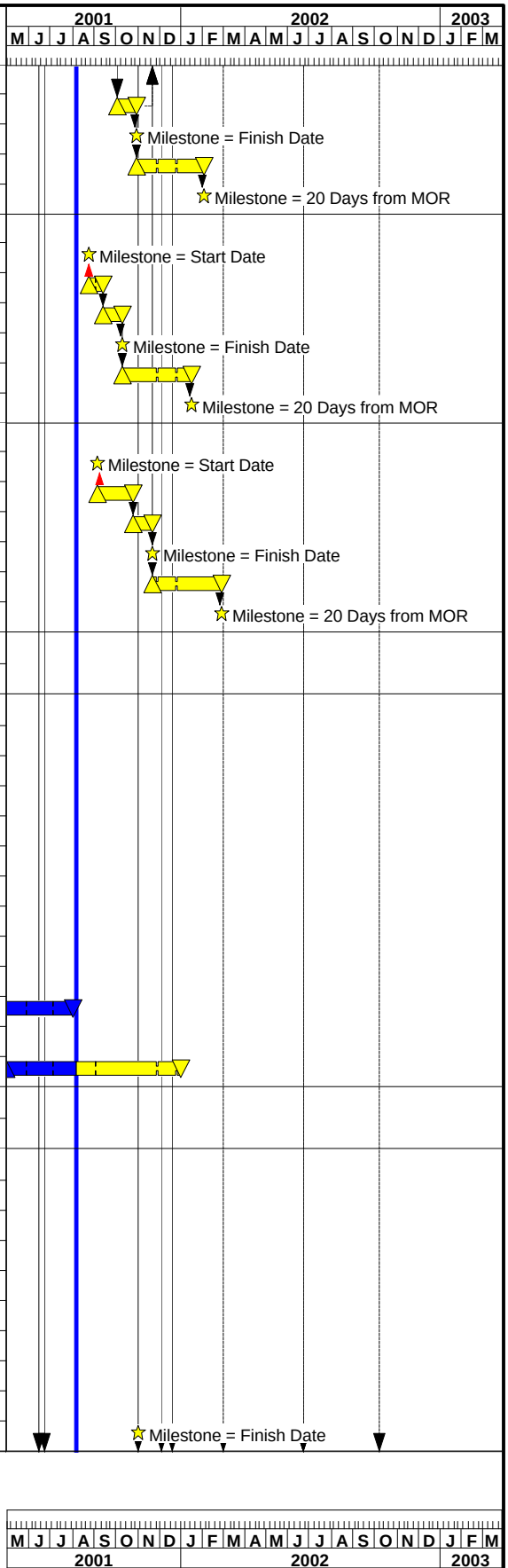

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Figure 7. Combined Schedule for Impact Area Groundwater Study Prgrm as of 8/6/01

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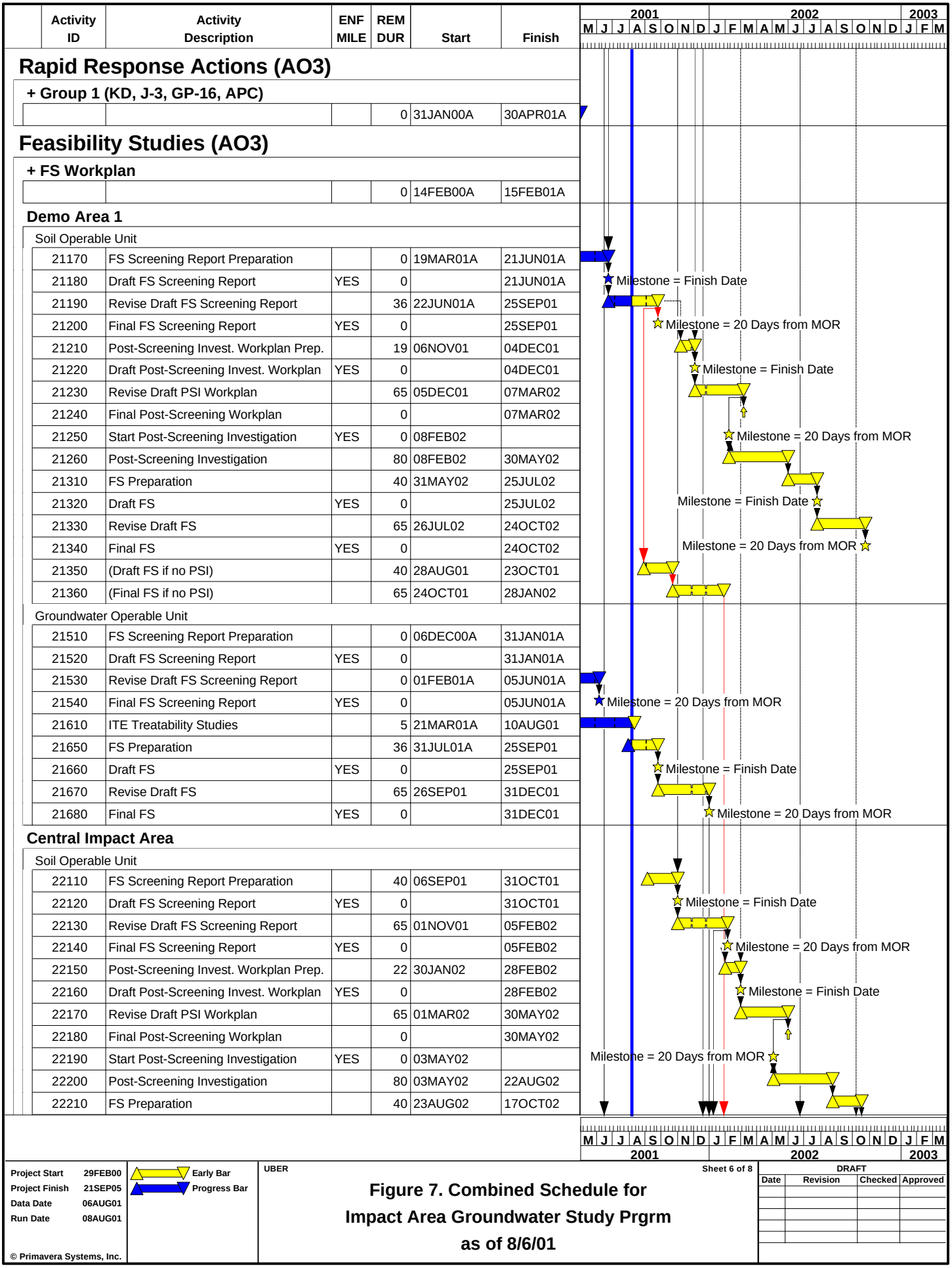

Figure 7. Combined Schedule for Impact Area Groundwater Study Prgrm as of 8/6/01

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Soil Operable Unit					
22220	Draft FS	YES	0		17OCT02
22230	Revise Draft FS		65	18OCT02	16JAN03
22240	Final FS	YES	0		16JAN03
22250	(Draft FS if no PSI)		40	09JAN02	05MAR02
22260	(Final FS if no PSI)		65	06MAR02	04JUN02
Groundwater Operable Unit					
22300	FS Screening Report Preparation		0	19APR01A	14JUN01A
22310	Draft FS Screening Report	YES	0		14JUN01A
22320	Revise Draft FS Screening Report		39	14JUN01A	28SEP01
22330	Final FS Screening Report	YES	0		28SEP01
22340	Post-Screening Invest. Workplan Prep.		22	31AUG01	02OCT01
22350	Draft Post-Screening Invest. Workplan	YES	0		02OCT01
22360	Revise Draft PSI Workplan		65	03OCT01	07JAN02
22370	Final Post-Screening Workplan		0		07JAN02
22380	Start Post-Screening Investigation	YES	0	07DEC01	
22390	Post-Screening Investigation		80	07DEC01	01APR02
22400	FS Preparation		40	02APR02	27MAY02
22410	Draft FS	YES	0		27MAY02
22420	Revise Draft FS		65	28MAY02	26AUG02
22430	Final FS	YES	0		26AUG02
22440	(Draft FS if no PSI)		40	31AUG01	26OCT01
22450	(Final FS if no PSI)		65	29OCT01	31JAN02
SE Corner of Ranges					
23110	FS Screening Report Preparation		40	29APR02	21JUN02
23120	Draft FS Screening Report	YES	0		21JUN02
23130	Revise Draft FS Screening Report		60	24JUN02	13SEP02
23140	Final FS Screening Report	YES	0		13SEP02
23150	Post-Screening Invest. Workplan Prep.		22	09SEP02	08OCT02
23160	Draft Post-Screening Invest. Workplan	YES	0		08OCT02
23170	Revise Draft PSI Workplan		60	09OCT02	31DEC02
23180	Final Post-Screening Workplan		0		31DEC02
23190	Start Post-Screening Investigation	YES	0	25DEC02	
23200	Post-Screening Investigation		80	25DEC02	15APR03
23210	FS Preparation		40	16APR03	10JUN03
23220	Draft FS	YES	0		10JUN03
23230	Revise Draft FS		60	11JUN03	02SEP03
23240	Final FS	YES	0		02SEP03
23250	(Draft FS if no PSI)		40	19AUG02	11OCT02
23260	(Final FS if no PSI)		65	14OCT02	10JAN03
UXO					
HUTA1 Operable Unit					
24150	FS Preparation		40	23OCT01	19DEC01
24160	Draft FS	YES	0		19DEC01
24170	Revise Draft FS		65	20DEC01	22MAR02
24180	Final FS	YES	0		22MAR02

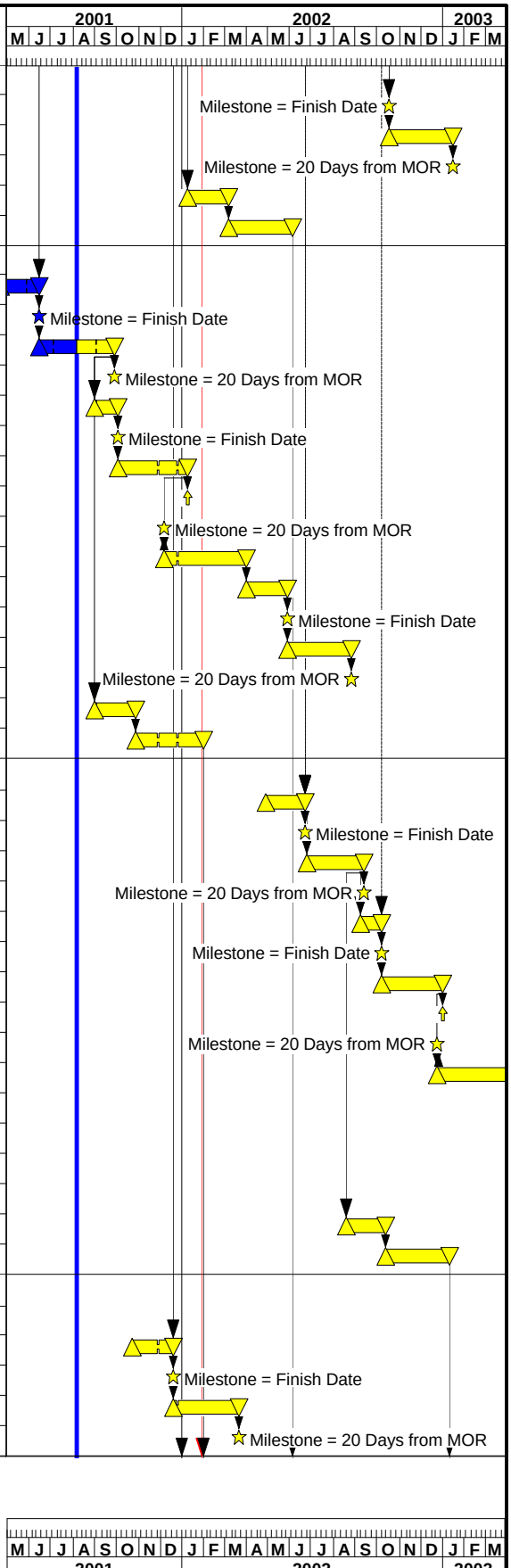

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Figure 7. Combined Schedule for Impact Area Groundwater Study Prgrm as of 8/6/01

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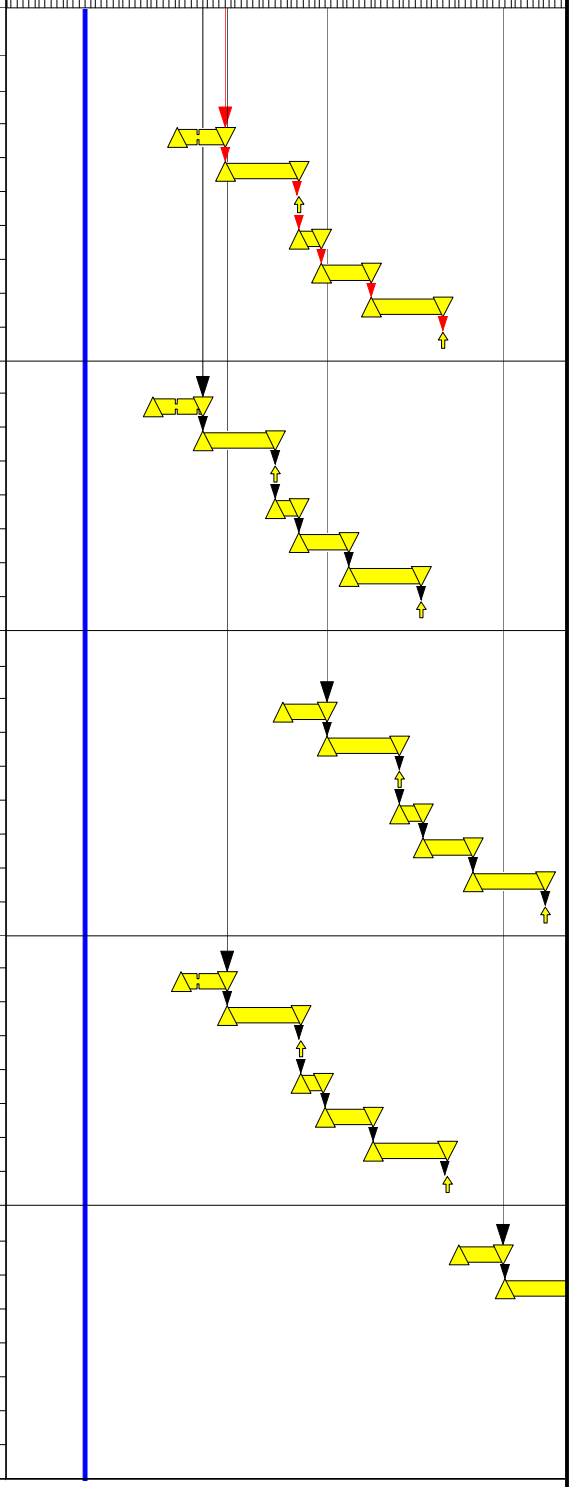
Date	Revision	Checked	Approved

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Remedy Selection (AO3)					
Demo Area 1					
Soil Operable Unit (if no PSI)					
31110	Prepare Draft Remedy Selection Plan		40	30NOV01	28JAN02
31120	Revise Draft Remedy Selection Plan		65	29JAN02	29APR02
31130	Remedy Selection Plan		0		29APR02
31140	Public Comment Period		21	30APR02	28MAY02
31150	Draft Decision Doc/ Response		44	29MAY02	29JUL02
31160	Revise Draft DD/RS		65	30JUL02	28OCT02
31170	Final Decision Doc/ Response		0		28OCT02
Groundwater Operable Unit					
31510	Prepare Draft Remedy Selection Plan		40	31OCT01	31DEC01
31520	Revise Draft Remedy Selection Plan		65	01JAN02	01APR02
31530	Remedy Selection Plan		0		01APR02
31540	Public Comment Period		21	02APR02	30APR02
31550	Draft Decision Doc/ Response		44	01MAY02	01JUL02
31560	Revise Draft DD/RS		65	02JUL02	30SEP02
31570	Final Decision Doc/ Response		0		30SEP02
Central Impact Area					
Soil Operable Unit (if no PSI)					
32110	Prepare Draft Remedy Selection Plan		40	10APR02	04JUN02
32120	Revise Draft Remedy Selection Plan		65	05JUN02	03SEP02
32130	Remedy Selection Plan		0		03SEP02
32140	Public Comment Period		21	04SEP02	02OCT02
32150	Draft Decision Doc/ Response		44	03OCT02	03DEC02
32160	Revise Draft DD/RS		65	04DEC02	04MAR03
32170	Final Decision Doc/ Response		0		04MAR03
Groundwater Operable Unit (if no PSI)					
32510	Prepare Draft Remedy Selection Plan		40	05DEC01	31JAN02
32520	Revise Draft Remedy Selection Plan		65	01FEB02	02MAY02
32530	Remedy Selection Plan		0		02MAY02
32540	Public Comment Period		21	03MAY02	31MAY02
32550	Draft Decision Doc/ Response		44	03JUN02	01AUG02
32560	Revise Draft DD/RS		65	02AUG02	31OCT02
32570	Final Decision Doc/ Response		0		31OCT02
SE Corner of Ranges (if no PSI)					
33110	Prepare Draft Remedy Selection Plan		40	18NOV02	10JAN03
33120	Revise Draft Remedy Selection Plan		65	13JAN03	11APR03
33130	Remedy Selection Plan		0		11APR03
33140	Public Comment Period		21	14APR03	12MAY03
33150	Draft Decision Doc/ Response		44	13MAY03	11JUL03
33160	Revise Draft DD/RS		65	14JUL03	10OCT03
33170	Final Decision Doc/ Response		0		10OCT03



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