MONTHLY PROGRESS REPORT #53
FOR AUGUST 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 August 1 to August 31, 2001. Scheduled actions are for the six-week period ending October 12, 2000.

1. SUMMARY OF ACTIONS TAKEN

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

Table 1. Drilling progress for August 2001

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-176	Central Impact Area Well (CIAP-5)	290	176	229-239' 270-280'
MW-177	Central Impact Area Well (CIAP-7)	210	22	
MW-178	Central Impact Area Well (CIAP-3)	195	55	
MW-179	Central Impact Area Well (CIAP-1)	160	20	
MW-180	Central Impact Area Well (CIAP-6)	350	194	
MW-181	J-3 Range Well at wastewater holding tank	43	9	32-42

bgs = below ground surface
bwt = below water table

Completed drilling and well installation of MW-176 (CIAP-5) and MW-181 (J-3 Range). Completed drilling of MW-177 (CIAP-7). Commenced drilling of MW-178 (CIAP-3), MW-179 (CIAP-1), and MW-180 (CIAP-6). A tank and tank parts were excavated from the J-1 Range as part of the Munitions Survey Project.

Samples collected during the reporting period are summarized in Table 2. Groundwater samples were collected as part of the August Long Term Groundwater Monitoring round. Groundwater profile samples were collected from MW-176 (CIAP-5), MW-177 (CIAP-7), MW-178 (CIAP-3), MW-179 (CIAP-1), MW-180 (CIAP-6), and MW-181 (J-3 Range). Groundwater samples were collected from Weeks Pond Sentry wells SP3-91 and SP4-91 as part of the J Range Response Plan, and from drive points and surface monitoring locations at Snake Pond. Water samples were also collected from the GAC unit and from drums that contained decon water from the RRA containment pad. Water was collected from the J-3 Range X-Ray Building septic tank. Samples of JP-8 and diesel fuel were also collected. Soil samples were collected in the Demo 1 area as part of the bottom survey and from borings B-26, B-27, and B-28. Soil samples were collected from grids at the J-1, J-2, and L Ranges, including samples from grids at the tank excavation location on J-1 Range, from grids at Area 46 off Greenway Road, from locations in Greenway Road, from boring B-29 at the J-3 Range Melt-Pour Wastewater Tank, from grids at the Interberm Area on J-1 Range, and from Disposal Area 1 on J-2 Range. Soil samples were collected from the Slit Trench and Test Pit 5 area for the Munitions Survey

Project. Other soil samples included a solids sample from the J-2 Range latrine for white phosphorus analysis and a sample was collected at the MW-121 well pad.

As part of the HUTA investigation, pre- and post detonation soil samples were collected in Test Pit 5 area and in the staging area. Post-excavation and post-detonation BIP samples were collected at Mortar Target 9, at J-1 Range, and the CIAP-1 well pad. Post-detonation BIP samples were also collected at J-1 Range and J-2 Ranges.

The Guard, EPA, and MADEP had a meeting on August 2 to discuss technical issues, including the following:

<u>AirMag Ground Truthing Presentation</u>

- Ellen Iorio (ACE) gave an introduction to the AirMag presentation. A handout was provided that summarized the investigation and findings. Table was provided of ground truthing information for investigated anomalies. Figures depicted location of anomalies, information on findings, and geology for each of the five areas. Ground truthing of primary targets was completed. Twenty of 50 secondary targets have also been verified. Five anomalies that were specified in 7/19 Tech meeting were intrusively investigated. 186 primary targets were investigated among the 5 areas. Of the 186 verified anomalies, 147 were identified as surface materials, 11 were identified as magnetic rock, 6 had no features or Schoenstadt magnetic locator response, 22 were subsurface anomalies.
- Todd Borci (EPA) expressed his disapproval that the Guard/ACE had proceeded with the intrusive investigation of the proposed 5 anomalies without EPA's concurrence, as had been agreed at the 7/26 Tech meeting. Ms. Iorio apologized, expressing that it was only their intent to provide more information for today's presentation. Futhermore, the Guard/ACE had no hesitation in investigating 5 anomalies selected by the EPA. Mr. Borci stated that EPA did not agree with all 5 locations intrusively investigated by the Corps and would provide all anomalies needing further investigation next week. Ms. Iorio added that there was limited funding for the project for this fiscal year. COL Bleakley (JPO) added that Corps should not do unapproved work and then make statements regarding funding. Mr. Borci restated that since EPA did not agree with the Corps selections, an appropriate number of anomalies would be selected by the EPA for intrusive investigation based upon the fact that the Guard originally had sufficient funding to investigate 10 anomalies.
- Jane Dolan (EPA) inquired about the difference between the EM-61 anomalies and the AirMag anomalies. Doug Lam (Tetra Tech) indicated that the EM will not see the geology like the AirMag. The magnetometer will pick up all the ferrous items at a greater depth including rocks with magnetite. The EM is not as sensitive.
- <u>Area 1 – U Range</u>. Most anomalies were metallic objects. Anomaly 1-250 was found to be a result of the geology. This location falls at the edge of the moraine, whereas other anomalies in this area are in the outwash. In general, anomalies in the moraine in all areas seemed to be indicative of a concentration of iron in an area or in boulders or a collection of boulders. Around Anomaly 1-203, multiple berms with 3.5-inch rockets were found. Anomalies I-3 and I-4 were target berms with multiple UXO.
- Todd Borci (EPA) pointed out that this is an example of how the AirMag had been useful. In 1999, sampling had been completed at the firing points and targets at U Range. A Tech memo following sampling indicated that no further work was needed in this area. The AirMag data resulted in the identification of this additional target, which Mike Jasinski (EPA) indicated was unlikely to have been found otherwise.
- Doug Lam (Tetra Tech) pointed out that the anomaly could have been produced by the ordnance in the berm or a difference in the geology of the berm. Mr. Borci inquired how

Anomaly 1-250 compared to Anomalies 1-3 and 1-4. Mr. Lam indicated that the latter two were seen on all three passes.

- Ellen Iorio (ACE) pointed out that the items found at the U Range did not represent a buried cache. Finding buried caches was the primary object of the Air Mag survey. It is too early to tell if the technology is successful in performing its primary objective at this time.
- <u>Area 2 – Deep Bottom Pond.</u> There were a greater number of picks in Area 2, possibly because of the power lines on the west side of the area and the railroad tracks associated with Former A Range to the south. The picks were also greater in open spaces. Mr. Lam offered that this was likely an area of hot rocks or geologic noise. There were a lot of single pick anomalies that were different than typical anomalies of larger objects. These anomalies were picked up by the nose sensor but not by the port or starboard sensors. Anomalies 2-2142 and 2-2175 were found deep in a valley with a lot of cultural debris and exhibited a strong signal.
- <u>Area 3 – J Ranges</u>. Area is in outwash. Cultural influences dominate the anomalies here. Outside of the ranges, the picks decrease because the area is not in moraine. L Range fence and J Range buildings account for the majority of anomalies. Anomalies 3-1444 and 3-2760 were verified intrusively. Anomaly 3-1444 was associated with a 3.5-inch rocket; with stokes mortar, flare canisters, and rockets on surface. This area was a hillside west of J-3 Range. Mr. Lam was uncertain if the mass of miscellaneous metal contributed to the signal or if the signal may have been more of an influence from a nearby building. Anomaly 3-2760 had decayed organic material, old leaves, rotten trees along with a steel bar and steel pipe. There were no readings on the schoenstadt after the bar and pipe were removed.
- <u>Area 4 – Demo 1</u>. In this area, the ridgeline of the moraine matches the cluster of anomalies. Ms. Iorio indicated that Anomaly 4-2700 in moraine deposits appears to be geologic. Mr. Borci indicated that there were also lots of cultural features. Intrusive investigation of Anomaly 4-3137 went to 6 feet, and was still ringing off at this depth on schoenstadt, indicating something larger. The Guard would like to excavate this anomaly further. Anomaly 4-1276 located in a borrow pit had steel cable and metal pipe. Anomaly 4-1934 had 6 metal stakes. These anomalies can be used to determine what signal strength may mean. Ms. Iorio indicated that a table will be compiled showing signal strength (in nanoTeslas) and the height of the helicopter to help calibrate what various signal strengths may be indicative of.
- <u>Area 5 – Central Impact Area</u>. – Predominately area of outwash. Massive anomalies are located in a triangular area in the center because of presence of tanks/targets. Mr. Borci pointed out that all picks in Area 5 were not presented in table. Ms. Iorio indicated that the table was the same as provided on 7/23, updated table would be provided after completion of the secondary list ground truthing effort. Ms. Dolan required further information on Anomaly 5-1269. Mr. Hudgins to provide.
- Mr. Borci commented that EPA would like input from EOD personnel as to which anomalies that were ground truthed may be a demo area. He further inquired about the anomalies along Wood Road and north of 5 corners. Mr. Lam indicated that there was no further info on Wood Rd anomalies other than what had been provided. North of 5 corners - it appeared as if this was the bottom of a kettle hole, nothing was present on the surface.
- Mike Jasinski (EPA) inquired about the next step. John McPherson indicated that the plan was to excavate Anomaly 4-3137, excavate anomalies suggested by EPA and complete verification of the secondary pick list (provided Monday 8/6). Mr. Jasinski requested that all signal strength readings be provided for ground truthed anomalies to assist with selection of picks to excavate. EPA will develop a list of anomalies to excavate and would like to see an

additional 5 picks from the Guard. Ms. Iorio requested that EPA also comment on the logic process of the follow-on investigation.

Mobil Lab on MMR

- Marc Grant (AMEC) indicated that based on discussion with Severn Trent's mobile laboratory that had been utilized by Jacobs, the laboratory's capability is as follows:
    - Soils only are being analyzed.
    - Method uses single column, no PDA verification.
    - 12/13 explosive compounds can be identified. Current fixed lab capability is 19 compounds.
    - Reporting limit is 2.5 times fixed lab reporting limit.
- Mr. Grant indicated that Jacobs uses the lab for screening to determine samples to submit for full analysis. Turn around time is 1.5 days and analysis is cheaper. The Guard was hoping to hear something from the agencies regarding how and where to use this technology. Mr. Grant saw applications for the RRA since it was effective for RDX detection. AMEC could propose other possible applications. Plus a water screening method may be developed in the future.
- Jane Dolan (EPA) did not see any applications for the upcoming J Range investigation. Todd Borci (EPA) indicated that the EPA thought that the soil screening could be utilized for more efficient remediation, such as in Demo 1 area or the Central Impact Area. 10% of field screened material could be sent fixed lab. Mr. Borci requested an update on the potential uses in one month.

Central Impact Area: Additional 5 Well Locations

CIAP-1 - In this area, a buoy is in the way of the drill pad. Bill Gallagher (IAGWSPO) requested that they be allowed to move the buoy without disturbing the soil, build the well pad which includes placing geotextile fabric on the ground prior to bringing in soil to level the area, drill well, remove well pad, and then sample the soil at this target location. Sampling around the target area cannot be done prior to installing the well because it has not been funded yet. Marc Grant (AMEC) also pointed out that AMEC is considering modifying the target sampling procedure. Todd Borci (EPA) agreed.

CIAP-4 – Bill Gallagher (IAGWSPO) requested that this location be moved 100 ft south just to the south side of the particle track. Original location and north of that location cannot be drilled because of the hill slope. Mr. Borci (EPA) approved the relocation.

CIAP-3 – Karen Wilson (IAGWSPO) explained that this location is currently in a wetland buffer zone. Location could be moved closer to MW-50 or on the north side of the pond. Jay Clausen (AMEC) preferred the location on the north side of pond, as this well is being proposed to delineate the edge of the plume. Heather Sullivan (ACE) pointed out that Bourne ConsCom could be solicited for an approval for the proposed location, but this would not likely make the ConsCom agenda until September, which would make it difficult to install the well prior to the September 30 deadline. After consideration, Mr. Borci indicated that he preferred to go through the ConsCom process rather than relocate well.

CIAP-8 – Ms. Wilson indicated that this well is in a scrub oak habitat. Approximately 500 feet of road needs to be cut into this area to access the location and Ms. Wilson indicated that she wanted to get feedback from Hanni Dinkeloo (NHESP). There were no alternatives close to this location. Mike Jasinski (EPA) inquired if wood chip roads could be used as Jacobs used in the CS-19 work. John Rice (AMEC) pointed out that Jacobs used auger rigs that weigh about half as much as the Barber rigs. AMEC does not recommend using auger rigs because drilling refusal is common and raises the price of well installation, plus the boreholes are crooked making it difficult to install the dedicated pumps. Mr. Borci reaffirmed that this location needs to be completed by September 30.

- Mr. Rice indicated that CIAP-2 would be drilled in the road to avoid disturbing habitat. A pilot hole would be made with a Barber rig and the well would be completed with the Sonic rig, which didn't require such a large drill pad. Other wells within the Impact Area had been drilled using this method.
- Heather Sullivan (ACE) indicated that a map for the next set of proposed well locations for the Central Impact Area was being prepared. Mr. Borci requested that as many cultural features as possible be added to the map.

<u>RRA Mortar Target 9 Update</u>

- Katy Weeks (AMEC) indicated that the extension for the soil removal had been received from EPA. Excavators were arriving Friday 8/3, originally intended to arrive Wednesday 8/1, however safety issues with the excavator needed to be addressed prior to mobilization. Activity will proceed until noon on 8/3, at which time they would need to be shut down for the Air Show. Excavation will commence on 8/6.
- EPA indicated that Comment Resolution Meeting on the Completion of Work Report was OK for 8/9.
- Jane Dolan (EPA) indicated that the letter regarding modifications to the Work Plan Addendum looks OK. Would like AMEC to add explanation of why soil washing is not being completed. Heather Sullivan (IAGWSPO) asked if this change could wait for another addendum that will address site restoration issues. Ms. Dolan agreed to wait.

<u>J-1 Range Work Plan</u>

- Heather Sullivan (ACE) distributed a figure showing proposed soil sampling locations at the J-1 1000m Berm, pursuant to finalizing the scope of the J13L Additional Delineation Workplan. The Draft MOR for the plan was also distributed.
- Seven locations are proposed for sampling in this area.
  - Composite samples at the 2 geophysical anomalies that will be excavated. 1 pre-excavation and 2 post-excavation sample at each anomaly.
  - One sample in anomalous area at the face of the 150m Berm
  - One sample at the presumed location of the former cook-off tests and one boring at this location
  - One sample around the partially buried APV
  - One sample at an anomaly near the range road downrange of the 150m Berm
  - One sample from the face of the 1000m Berm beneath the steel plates
  - One discrete sample from dark soil up range of the 150m Berm
  - Composite samples to be collected from standard grids except for the discrete sample at the 150m Berm.
- Jane Dolan (EPA) had an immediate comment indicating that no sampling had been proposed in grid K41 as had been originally requested.
- Ms. Sullivan requested that EPA provide immediate comment on at least the portion of the program in the anomaly areas that were planned to be excavated next week by Tetra Tech, to avoid delays in the schedule. Comment and a resulting expansion of the scope at the J-1 Berm was provided by EPA subsequent to the Tech meeting.

<u>Water Supply Project</u>

- COL Bleakley (JPO) related that the Sentry monitoring wells have been completed for WS-2 and WS-3. The first of three Sentry wells for WS-1 was currently being drilled. The wells would be sampled when they were completed.

Schedule and Documents

- Marc Grant (AMEC) reviewed the Documents Having/Needing Comments schedule.
    - Response to EPA Comments were being prepared for Demo 1 Soil FSSR – a redline strikeout version.
    - Resolution of J13L Ranges scope of work was continuing. Possible final MOR next week. This will affect 8/13 enforceable deadline to begin work on additional investigation. Todd Borci (EPA) suggested that new start date for this investigation be submitted with integrated MSP and general investigation schedule.
    - Guard received extension approval for Draft ASR to 10/31.
    - Revised MSP Phase 1 Report, HUTA Report, and HUTA FS were added to the Documents to be Submitted list.
- Mr. Borci inquired about the status of the BIP reports. Mr. Grant indicated that the July report is in Guard's hand to review. Additional reports have not been undertaken because of the difficulty of integrating AMEC and Tetra Tech BIPs. Mr. Borci requested another copy of the June report and also indicated that he would be open to an alternative, multi-month reporting format provided it was of reasonable volume.
- Jane Dolan (EPA) noted that the J13L Ranges Additional Delineation Work Plan 2 was not on the Document Status Table. Marc Grant (AMEC) indicated that a schedule for this workplan was addressed in his email regarding scheduling, sent earlier in the week.
- Mike Jasinski (EPA) commented that the public comment period needs to be added to the schedule for the Remedy Selection.

Other Items

- John Rice (AMEC) relayed that in pulling apart the triple tube system utilized by the drill rig, odors similar to the odors exhibited by the PLM in well MW-164 were discovered. The system was thoroughly cleaned and hopefully this will eliminate the interference problems with the profile samples.
- Todd Borci (EPA) inquired about the status of the ASR interviews. CPT Meyer (IAGWSPO) explained that a conference call to discuss proceedings had been set for Friday, 8/3. Mr. Borci requested that Jane Dolan (EPA) be updated regarding the interviews on Monday 8/6. It was his understanding that the private investigator would have no restrictions on the questions he could ask which CPT Meyer affirmed.
- Mr. Borci requested site visits be scheduled for Wednesday 8/8 to the J-3 Range where the rockets were found and to AirMag anomaly locations that he would specify by Monday 8/6.
- Heather Sullivan (ACE) indicated that a fly-over was being scheduled for 9/25 and 9/26.
- Ms. Dolan requested gross alpha results for the J-3 Septic Tank "leachate" samples.
- Dave Hill (IAGWSPO) requested that Ms. Dolan, he, and Tim Dwyer (AMEC) drive-by Greenway Road to locate samples that she requested along the road near Area 46.
- Ms Dolan requested a due date for Response to Comments on the DU Report. CPT Meyer (IAGWSPO) to check.

The Guard, EPA, and MADEP had a meeting on August 9 to discuss technical issues, including the following:

CS-19

- Jason Dalrymple (Jacobs) reported that in drilling and profiling 50MW0020, RDX (0.31, 0.33 ug/L) had been detected at 199 – 205 bgs. A well screen was currently being set at this location. 3-Nitrotoluene (0.37 ug/L) was detected at 20 to 25 ft bwt. A well would also be set at this location.

- Mike Jasinski (EPA) requested that a conference call be set up between the agencies and AFCEE/Jacobs to discuss possible drilling of a second well, further downgradient, even though he understood that EPA had agreed not to drill a second well if profiling results of this first well were below Health Advisories. Mr. Jasinski also requested that a discussion on this matter be added to the IRP Tech meeting agenda.

AIRMAG Data and Validation Locations

- Doug Lam (Tetra Tech) relayed that as of 0900 the HUTA Investigation was completed.
- Mr. Lam indicated that signal strength and laser altimeter height had been added to the AirMag validation tables. Verification of all 64 secondary anomaly picks was also completed. Of the 64 picks, 10 were accounted for as hot rocks, 14 did not have discernable surface material or subsurface anomaly, 12 were single/multiple subsurface hits on the Schoenstadt with no surface debris, 28 had surface features. Of the picks that had been validated by hand excavation, investigation of Anomaly 4-3137 would be investigated further, below 6 ft bgs.
- Tetra Tech/ACE had selected 5 additional picks to investigate based on EPA's request at the 8/2 Tech meeting and the ACE's directive to choose anomalies from a range of signal strengths/altimeter heights in an attempt to calibrate these factors relative to discoveries, as follows:
    - Anomaly 3-2497 on J-1 Range, 600m uprange.
    - Anomaly 4-1730 off Frank Perkins Road.
    - Anomaly 5-1269 small 2000m berm at J-1 Range.
    - Anomaly 5-2860 on Wood Rd on east side of Impact Area
    - Anomaly 5-4648 400m east on Jefferson Road, top of Impact Area, possible burn area.
- Todd Borci (EPA) stated that EPA had selected 9 anomalies to investigate based on the fact the ACE had apparently budgeted for validation of 10, but had not received EPA's concurrence to proceed with the five anomalies that had been intrusively investigated last week. Two of EPA's selections matched the ACE's selections on the first list that had already been validated (4-3137, 3-2760) and 3 selections matched those on the second list (5-2860, 5-1269, 5-4648). Mr. Borci also saw the merits of validating 4-1730. Four additional anomalies that the EPA would like validated (bringing the total to 10 EPA-approved anomalies) were:
    - Anomaly 3-2143 linear anomaly west of L Range
    - Anomaly 3-3335 west of 1000m Berm on J-1 Range
    - Anomaly 4-1586 borrow pit, large anomaly nothing on surface
    - Anomaly 5-4424 valley NW of 5 Point Intersection. Middle target of 3 targets near monitoring well. Mr. Lam indicated that this would have been their 6th pick.
- Leo Montroy (Tetra Tech) explained that MSP Report due on 8/31 would have a chapter on AirMag that would mostly discuss how the AirMag data compared to the ground geophysical data. The AirMag Validation Report due 10/9 would address verification/validation of anomalies.
- A lengthy discussion ensued among Mr. Borci, COL Murphy (NGB), CPT Meyer (IAGWSPO), Raye Lahti (Tetra Tech), and ACE on the use of the AirMag data in the groundwater study, the Guard's versus EPA's confidence in the AirMag findings, what steps should be taken as a follow-up to the MSP Report and the AirMag Validation Report (given the acreage and number of AirMag anomalies), and if the Munitions Survey Report should be delayed until all intrusive investigation of anomalies was completed.
- Mr. Borci stated that his expectation was that the 8 newly selected anomalies would be intrusively investigated, as much of this information as possible would be incorporated into

the report due at the end of the month, the remainder of the findings could be updated in the Final Report.

- Gina Tyo (ACE) suggested that a meeting be scheduled for the middle of September to further discuss results and future activities. Mike Jasinski (EPA) indicated that AMEC should be involved to coordinate verification activities based on areas of concern that were being addressed in the Groundwater Study.
- Mr. Borci indicated that he wanted additional verification of anomalies prior to the winter months, asking how soon additional fieldwork could be completed. Ellen Iorio (ACE) indicated that Tetra Tech was funded through the end of the fiscal year (10/01) with other tasks.

RRA Mortar Target 9 Update

- Scott Veenstra (AMEC) reported that containment pad water was contained in a 400-gallon polyethylene tank and 9 drums. The water represented a mixture of rainwater and decon water. The drums contained the first “batch” of the decon water from the pad, whereas the tank was filled subsequent to the drums. Analytical results of a water sample collected from the tank had been provided to EPA and showed no detections. It was suggested that this water be run through the GAC system.
- Jane Dolan (EPA) indicated that the GACed water should be held pending analysis of the GAC effluent. However, in any case the work plan should be followed. What were the work plan requirements?
- Ms. Dolan further requested that 3 water samples be collected/analyzed from 3 separate drums; one from the top of the drum, one from the middle of another drum, and one from the bottom of a third drum. Dave Hill (IAGWSPO) indicated that he could identify the first drums filled, if they had not been moved. Mr. Hill to coordinate with Harvey McKenzie (AMEC).
- The Additional Delineation Sampling Report had been received by the agencies on 8/2. Mike Jasinski (EPA) indicated that the Guard could expect comments in 2 weeks (8/23).
- Excavation at MT9 commenced on Monday 8/6, the first foot of soil was excavated. A change in the procedure required that the excavation be cleared to 35 ft radius after each foot of soil was removed. As part of this clearance 15 items were identified and will be BIPed today (2 were added with EPA's approval during the meeting). Eight to ten units were found 2 feet or greater below the existing surface (after 1 foot removed).
- Larry Hudgins (Tetra Tech) reported that in soil from the first foot a 60mm target round, 37mm projectile and a 40mm grenade were found at the screening pad that resulted in the change in clearance procedure. Ms. Dolan (EPA) inquired as to why so much had been missed in the clearance. Mr. Hudgins/Mr. Veenstra indicated that the reasons included that some rounds were aluminum, because of preponderance of magnetic hits, and due to the limit of the technology.
- Dave Hill (IAGWSPO) reported that additional UXO clearance would be conducted for site restoration, because of the additional excavation required for planting trees and shrubs. This would be addressed in a pre-restoration clearance work plan addendum.
- Analytical data is expected early the week of 8/20. Removal is ahead of approved schedule to be completed by 8/14. Both heat and density of UXO-related material have been a limiting factor in the work schedule.

RRA FUDS Schedule

- Schedule for RRA H Range site was discussed among Len Pinaud (MADEP), Mike Jasinski (EPA), Jane Dolan (EPA), Heather Sullivan (ACE), and Ellen Iorio (ACE).
- Ultimately, based on the State requirements of approval of work within 21 days of receiving transmittal forms and the schedule to begin soil removal 1½ weeks from 8/13, Len Pinaud

(MADEP) decided that following receipt of transmittal forms from the ACE, MADEP would issue a conditional approval letter. The removal can then be implemented as long as the conditions are followed.

- Ellen Iorio (ACE) stated that responses to comments would be submitted Monday 8/13. Mr. Pinaud and Mr. Jasinski indicated that if comments were received Monday, a site walk Wednesday 8/15 could be used to resolve issues.
- Former H Range site walk scheduled for 1100 on 8/15, participants to meet at Corps trailer.

Central Impact Area – 5 new wells

- Bill Gallagher (IAGWSPO) indicated that Hanni Dinkeloo (NHESP) had approved all well locations except CIAP-8. Ms. Dinkeloo would like to speak with Mr. Borci directly about this location. Record of Action to be provided to Ms. Dinkeloo so that she can discuss location with Mr. Borci and Mr. Pinaud.
- Heather Sullivan (ACE) relayed the Guard's concerns that a lengthy RAC approval process would prevent CIAP-8 from being installed by 10/01, therefore an alternate location (CIAP-9) was being proposed. Mr. Gallagher presented Mr. Borci with a map of the next proposed location that was downgradient of MW-135 northwest of the CIAP-7 location on Monument Beach Road. Mr. Borci indicated that the location was acceptable. Mike Jasinski (EPA) requested time to review the location relative to the CS-19 particle tracks, prior to AMEC completing the RAC.
- Borci/Jasinski requested that Karen Wilson (IAGWSPO) be consulted earlier on in the well location selection process to minimize the amount of refinement required once the agencies were presented with proposed locations.
- Later in the meeting, Mr. Borci inquired about the installation of P-31, a well that had been on hold because of its location within the exclusion zone of the HUTA. Now that the HUTA was completed, EPA would like to have this well drilled and installed as soon as possible. Mr. Borci indicated that this location could be substituted for one of the 8 to be installed by 10/1. John Rice (AMEC) relayed that scrub oak had rehabitated the drill pad and a new RAC would likely be needed for this location, mostly because the RAC process had changed significantly from when this location was originally approved.

Central Impact Area Aquifer Pump Test

- Jay Clausen (AMEC) indicated that the Guard/AMEC agreed that a pump test needed to be conducted for the Central Impact Area as part of the groundwater remedial system design process. The portion of the aquifer in the Central Impact Area may have a higher transmissivity and hydraulic conductivity relative to other areas of the base and therefore previous pump test data generated in other areas of the base may not be representative of conditions in the Central Impact Area.
- Following a brief discussion, Bill Gallagher (IAGWSPO) indicated that, as the agencies were suggesting, the Guard was considering performing the pump test in a portion of the Central Impact Area plume, so that wells installed for the pump test could be potentially utilized for the treatment system, once the pump test was completed.
- Mike Jasinski (EPA) inquired about the schedule for getting a work plan and completing the pump test. Marc Grant (AMEC) stated that pump test work plan would be included with the PSI Work Plan. Based on a 8/23 MOR for the Central Impact Area Groundwater FSSR the Draft PSI Work Plan would be submitted on 10/2. A Final Work Plan would be submitted following a 3-month review process. Jasinski/Borci expressed the EPA's desire to compress the schedule so that drilling of monitor wells to complete the test could be completed before the winter months and to generally expedite the process. Heather Sullivan (ACE) indicated

that the Guard/ACE/AMEC would review the schedule and other tasks requiring completion and evaluate how the PSI Work Plan schedule could be compressed.

ITE Recommendations Update

- Scott Veenstra (AMEC) stated that the soil technologies revised summary report would be submitted at the end of the week. The groundwater technologies report would be submitted at the end of the month.

Munitions Survey Project and Soil/Groundwater Investigation Integrated Schedule

Marc Grant (AMEC) distributed a one-page handout outlining the background and issues related to integrating the MSP and Soil/Groundwater Investigations for five areas: Demo 1 Soil OU, CIA Soil OU; CIA GW OU; J Ranges; and Phase IIb sites.

Phase IIb Sites – Draft MSP reports for three areas (Former A, Former K, Demo 2) will be completed by 11/21. These results should be evaluated relative to soil and groundwater characterization activities that will be discussed in the draft RI that will be submitted 8/20. Todd Borci (EPA) indicated that he did not want to delay the entire Phase IIb effort for the three sites, proposing that the EPA would delay comments on Phase IIb Report for these three sites. These sites could then be set aside as a separate report. In response to Mr. Grant's inquiry, Mr. Borci stated that EPA would accept holding these sites back from the draft Phase IIb Report, if it wasn't already too late. Mr. Grant to let Mr. Borci know if this is the way the Guard would prefer to proceed.

J Ranges – Schedule for the J-1/J-3/L Ranges ADWP #2 needed to be set. Mr. Grant recommended that this WP be started after the RCL on the Draft Report due in September. Relative to setting a begin date for ADWP #1, Mr. Borci considered this as having already started, based on the sampling being completed in the interberm area of the J-1 Range. No extension request was needed, though a letter from the Guard confirming the schedule of subsequent deliverables might be appropriate.

Central Impact Area Soil OU – Changes are needed in the schedule to allow the additional soil data that is being collected to be evaluated. The schedule for HUTA 2 is still being developed and data from this investigation is important for evaluating remedial options for the Central Impact Area. Mr. Borci stated that while EPA agrees that the schedule needs to be adjusted, they did not agree that the HUTA 2 investigation was in the critical path for the remediation of the Central Impact Area. Mr. Grant pointed out that transect data that will be collected in the HUTA 2 showing the distribution of contaminants out from the targets and the drop off rates of UXO was important in understanding the source/transfer mechanism of contaminants to groundwater. Current data are inconclusive as to whether the larger particulate matter or the finer residue are the principal source of contamination to groundwater. Selection of applicable technologies was contingent on understanding this process, since the primary goal of the soil remediation is to protect the aquifer. How could more detailed FS Screening Reports be developed, as EPA has requested, without a more complete understanding of the nature, distribution and transfer of soil contaminants to groundwater? Mr. Borci expressed that this evaluation could be completed as part of the post-screening process, whereas remediation of the area in the vicinity of the targets could be addressed immediately. Futhermore, Mr. Borci indicated that the Guard and EPA obviously saw the process differently. Mr. Borci requested that the Guard put these points in writing for future discussion.

Demo 1 Area Groundwater OU – A list of detailed options that had been emailed previously, was distributed to the agencies. These remedial options were those that were proposed to be evaluated in more detail in the FS. Mr. Borci indicated that these options would require further discussion.

Demo 1 Area Soil OU – A detailed schedule for Demo 1 Soil was distributed. Mr. Borci relayed here that it was critical that the remedy include anomaly excavation. Since the area is an

OB/OD site, UXO is a potential source of contamination. Remediation in this area should not just be considered just a removal action of soil in the kettle hole. Mr. Grant inquired what threshold number of UXO created a groundwater impact? Dave Hill (IAGWSPO) pointed out that not all of the anomalies represented UXO. Mr. Borci concurred with the schedule in general, that the data from the soil borings being completed this week and test pits already excavated be rolled into the Final Soil Report. The PSI Work Plan would then be developed and this should include further validation of anomalies (test pitting, sampling) in the Demo 1 area; the UXO FS should also be tied into this work plan. Mr. Borci would like to discuss the schedule again in two weeks and look at deadlines to formally set for this schedule.

The Guard, EPA, and MADEP had a meeting on August 16 to discuss technical issues, including the following:

Snake Pond Plan Update

- Dave Hill (IAGWSPO) provided an update on the status of USGS plan to place diffusion samplers in Snake Pond.
- USGS had committed to provide an email of the Workplan today, 8/16. The Guard will forward the Workplan to the agencies as soon as it is received. It was Mr. Hill's understanding that the test-line of samplers would be placed along the line of the particle track from MW-171, to the extent that the line could be determined in the field. It was expected that the field test would commence in early September.
- In a follow-up email Jane Dolan (EPA) stated that in a subsequent conversation with Denis LeBlanc (USGS), Mr. LeBlanc indicated that the diffusion samplers would be installed in Snake Pond next Thursday or Friday (8/23-8/24). The results should be available in early September. The placement of the lines was also discussed and may be changed from the location stated by Mr. Hill, based on Ms. Dolan's comments.

CS-19 Wells

- Mike Jasinski (EPA) and Ken Gaynor (Jacobs) provided information on well installation for the CS-19 plume.
- Recently installed 58MW0020 is being developed this week. Soil borings were completed yesterday 8/15. Elevation/location survey of well location can probably be completed next week.
- It was agreed at the IRP-RPM meeting that a second CS-19 well would NOT be installed despite differences noted by EPA regarding the various particle tracks performed for this source area.
- Mr. Jasinski inquired if anyone had noted AMEC's sampling result at 58MW0018A that showed 2,6-DNT concentrations at 30 times the MCL. Mr. Gaynor indicated that they had noted this data that was provided in the "Explosive Detections in Groundwater" spreadsheet distributed to the Tech team by Marc Grant (AMEC). Mr. Gaynor assured Mr. Jasinski that these results would be considered in developing the CS-19 Feasibility Study.

AIRMAG Update

- Ellen Iorio (ACE) indicated that intrusive investigation of the next 10 anomalies had not commenced but would be completed before 8/27. A presentation of the AirMag validation effort was slated for 9/12. The presentation would include a discussion of the verification of the primary and secondary targets and validation of the 15 anomalies that had been/would be intrusively investigated.

- Ms. Iorio requested a waiver for the AirMag letter report due 8/31, since a presentation would be given on 9/12. The presentation materials could be provided to the agencies one week prior to the meeting, on 9/5, so that they could be prepared for discussion of the material.
- Jane Dolan (EPA) inquired if the AirMag data would be included in the revised Munitions Survey Report also due on 8/31. Leo Montroy (Tetra Tech) explained that the AirMag as included in the original MSP report (to include the Gun&Mortar positions and water bodies but not the Central Impact Area) would be presented in Chapter 10 of the revised Report. Ms. Dolan inquired as to when was the content of the report changed, as she had a draft outline that indicated the Central Impact Area data would be included. CPT Myer (IAGWSPO) responded that this was specified in the Response to Comments submitted to EPA in January. Ms. Dolan to check Response to Comments. Mike Jasinski (EPA) stated that EPA would get back to Ms. Iorio on Monday regarding the waiver of the 8/31 letter report.
- Mr. Jasinski inquired about Anomaly 1-250 that was recommended in the original proposal for intrusive investigation. Ms. Iorio indicated that this anomaly was not one of the 10 currently slated to be investigated, but that it could be considered for future efforts. This could be discussed at the 9/12 meeting.

J-1 Range Anomaly Excavation

Larry Hudgins (Tetra Tech) gave a summary of excavation activities.

- Excavations were started this week. In the first excavation, parts were uncovered close to the surface including tank treads, wheel wells, cogs and other scrap parts. This excavation had been backfilled. One composite sample of the excavated soil would be collected by hand augering in the area of backfilled soil.
- In the second excavation, a M-48 tank with turret and gun barrel and a second turret with gun barrel were uncovered and removed. There were no bullet holes in the tank. The tank engine had been removed. There was no oil staining observed on the soil, although there was some staining on the tank.
- Tetra Tech planned to check the excavation for additional anomalies, excavate if needed, allow for AMEC to collect post-excavation samples, line the base of the excavation with plastic, collect a composite characterization sample of the excavated soil (analyze for explosives, VOCs, EDB, SVOCs, pesticides) and then backfill the excavation.
- The tank will be recycled as scrap.
- Jane Dolan (EPA) indicated that there were several spots in the excavation that she would like sampled. Ms. Dolan to specify in a site visit today (8/16) with Dave Hill (IAGWSPO) and Tim Dwyer (AMEC).
- Mike Jasinski (EPA) requested copies of photographs of the tank removal.
- Ben Gregson (IAGWSPO) reviewed the considerations for a radiation survey of the tank excavation project. There were two considerations 1) the Health and Safety issue for the workers and 2) the scope of screening for the tank. Regarding the first issue, both Tetra Tech and AMEC, the contractors involved with the tank excavation, had Health & Safety plans that considered the risk of the task and specify the monitoring requirements for the task. The companies' H&S personnel and ACE H&S personnel have reviewed the plans and have determined that the field personnel are adequately covered. Regarding the second task, the scope and vision for screening the tank, it was noted that there were no bullet holes in the tank (the implication being that no DU rounds had impacted the tank). However, radiation screening of the tank can be completed. The Guard would like further clarification on what the data will mean.

- Pursuant to guidance on radiation data, Ellen Iorio (ACE) contacted CHPPM who suggested that the tank be screened in accordance with Army Regulation 11-9, Table 5-2. Regulation 11-9 specifies that the tank's radium dials be screened. An action level for their removal is 20 dpm/100cm^2. The action level for DU is dpm/100cm^2. Ms. Iorio inquired if the EPA concurred with these action levels. Ms. Dolan asked for the background document. Ms. Iorio to provide.
- Jay Clausen (AMEC) stated that he was formerly employed by a DOE contractor and offered to provide Ms. Iorio with information regarding interpretation of rad screening results.
- Rob Clemens (AMEC) and CPT Myer (IAGWSPO) pointed out that the scrap contractor will conduct radiation screening of the tank prior to removal. ACE to inquire about the scrap contractor's procedures.
- Ms. Dolan indicated that she wanted an instrument scan (inside and outside of the tank) similar to the one done for the U Tank and steel plates.
- Ms. Iorio asked for clarification on Todd Borci's (EPA) email regarding completing rad surveys for all large-scale excavations. Len Pinaud (MADEP) asked if this was for all buried targets, UXO caches…. what items specifically? Ms. Dolan indicated that this would have to be clarified with Mr. Borci. Heather Sullivan (ACE) indicated that Mr. Borci had wanted a rad survey conducted for the J-1 Range pail excavation.
- Mike Jasinski (EPA) expressed that he was concerned about the Health & Safety of the field personnel. Mr. Pinaud (MADEP) pointed out that this was covered by the H&S Plans and was the responsibility of the contractors. Mr. Clemens pointed out that surveys conducted by AMEC in 1997, Tetra Tech's DU survey and a rad survey conducted by Oakridge DOE personnel had all indicated that there was no site radiation risk above background.
- Ms. Dolan further inquired why Tetra Tech couldn't use the screening protocol for the tank that they had used for the targets. Dave Hill (IAGWSPO) and Mr. Hudgins pointed out that there were no penetration holes – the target survey had been of the penetration holes. Ms. Iorio stated that since there were no penetration holes it seemed obvious that no DU rounds had been fired at the tank. Ms. Dolan pointed out that photographs were in EPA's possession of a Textron test set-up that showed firing into the engine block of a tank.
- Ms. Iorio stated that she would provide Ms. Dolan with the army protocol, review Tetra Tech's rad survey protocol as appropriate, develop a scope of work for a rad survey and solicit the agencies concurrence. Ms. Dolan indicated that Mr. Borci wanted the scope of work this week. Ms. Iorio indicated that that was probably not possible, but the scope would be provided ASAP.
- Ms. Dolan requested that the tank be covered with a tarp and that the excavation be backfilled <u>after</u> the post excavation and backfill samples were collected.

<u>Mortar Target 9 Update</u>

Scott Veenstra (AMEC) presented a summary of the week's activities.

- Water sampling of drums at RRA containment pad was completed on 8/13, as requested by Jane Dolan (EPA).
- EPA comments on the Additional Delineation Sampling Summary Report were expected on 8/23.
- Post excavation sampling at Mortar Target 9 was completed 8/13. Samples were shipped 8/13 for 5-day laboratory TAT.
- Soil was transported to the HUTA for defragging (UXO clearance) and the last batch of soil is staged there. Dave Hill (IAGWSPO) indicated that the Guard was trying to consolidate soil to be excavated at the BIP craters with the remaining Mortar Target 9 soil to maximize hauling efficiency.
- Bill Gallagher (IAGWSPO) indicated that the BIP crater removal was optimistically

scheduled for the end of September. This soil will also be defragged at the HUTA staging pad.

- Heather Sullivan (ACE) commented that Karen Wilson (IAGWSPO) was developing the site restoration scope. The scope would include intrusive UXO clearance to three feet below current (excavated) grade. Tetra Tech will be contracted to complete the restoration including clearance, planting and watering. Ms. Wilson would submit a letter regarding the restoration plan on 8/24.
- Regarding Mike Jasinski's (EPA) inquiry on the ITE Studies, Mr. Veenstra reported that the soil report would be submitted in a week and the groundwater report would follow shortly thereafter, by the end of the month.
- Later in the meeting Ms. Dolan inquired about the RRA Response to Comments letter revision 2. Mr. Veenstra reported that it would be sent to the agencies early next week.

<u>Central Impact Area Wells</u>

- Bill Gallagher (IAGWSPO) indicated that AMEC had developed a list of 8 additional well locations for the Central Impact Area. However, Todd Borci (EPA) had separately specified well locations and the order of installation. Since the locations that Mr. Borci provided were at least as or more readily accessible than those proposed by AMEC, the Guard was in general agreement with Mr. Borci's selections. Heather Sullivan (ACE) indicated that these locations were, in preferred order of installation: CIAP-9, 10, 20, 18, 23, 22, 11, and 12.
- The Guard had requested to combine locations CIAP-11 and CIAP-12 as Mike Ciaranca (MAARNG) had concerns on the need for both locations (which are relatively close together) because they are both located in optimal scrub oak habitat. Mr. Borci had reaffirmed in a follow-up email that both were needed. Mr. Ciaranca was also concerned about CIAP-13 and CIAP-24.
- Len Pinaud (MADEP) inquired about CIAP-8, a location that had been on the first set of 8. Ms. Sullivan indicated that CIAP-9 had been substituted for that location, but that the RAC approval for the CIAP-8 location was still being pursued.
- Ms. Sullivan indicated that Karen Wilson (IAGWSPO) would contact Hanni Dinkeloo (NHESP) about potential concerns with these locations when she returns from vacation next week. Ms. Sullivan would begin the scoping and REC process for this set of 8 wells.
- Mike Jasinski (EPA) inquired about a well that was missing from the maps, location near MW-88 and east of CIAP-17. Ms. Sullivan indicated that Mr. Borci had pointed out this omission and that this proposed location would be added to the maps.

<u>Central Impact Area Groundwater PSI</u>

Jay Clausen (AMEC) outlined the steps and issues related to expediting the Central Impact Area Pump Test that would be a principal focus of the PSI.

- The plan for the pump test is to identify a location for the pumping (extraction) well, forward a map of the location to the Tech team for approval, and following approval, immediately prepare a RAC. Under the present schedule, the pump test work plan is to be submitted on 10/4. AMEC will try to accelerate that schedule, but Mr. Clausen wanted to add a lot of detail to the plan with exact specifications (well screen length, etc), so that it could be handed off directly to the field personnel to implement.
- The current schedule allowed for well installation in late November. AMEC was attempting to accelerate that schedule to install wells in October, but that was questionable. If well installation was accelerated to October, the pump test could be completed in late November or early December, prior to the really cold weather. Otherwise, to avoid the logistical problems introduced by freezing weather (frozen lines, frozen GAC), they would prefer to wait to mid to late March.

- CPT Myer (IAGWSPO) also pointed out that in terms of scheduling the actual test, the range training schedule as well as the HUTA exclusion zone should be consulted. Rob Clemens (AMEC) commented that the same consideration was needed for hunting season.
- Mr. Clausen further indicated that AMEC was considering locating the well in the area of MW-1, which has already been swept for UXO and where there are several gravel pads. This should assist in minimizing REC approval time or eliminate the need for a REC and also UXO clearance.
- Mike Jasinski (EPA) requested a Gantt chart showing a detailed schedule. Mr. Clausen to consult with Marc Grant (AMEC).
- Len Pinaud (MADEP) inquired if conducting the pump test indicated that the Guard was committing to pump and treat for remediation. Mr. Clausen/Mr. Jasinski explained that the pump test was being conducted to define aquifer characteristics to refine the groundwater model. This information was needed to better evaluate remedial alternatives selected for the FS.

<u>HUTA 2 Scope</u>
Ellen Iorio (ACE) stated that this agenda item was added to get feedback from the agencies regarding the proposed HUTA2 scope.

- Jane Dolan (EPA) relayed that EPA did not have an internal discussion on the scope yet. For preliminary comment, Ms. Dolan offered that she liked the transect approach, but not necessarily all the areas that were selected for sampling. Ms. Dolan liked the 5 corners area and the area around the HUTA and air to surface targets, but not the other target areas chosen for investigation. In addition, Ms. Dolan stated that the overall approach "looked good".
- Mike Jasinski (EPA) promised to send an email on Monday 8/20 summarizing EPA concerns and questions regarding the HUTA2 scope.

<u>Former H Range – FUDS</u>
Ellen Iorio (ACE) presented an update on the Former H Range work at EPA's request.

- The contractor (Roy F. Weston) mobilized on 8/13. An anomaly was discovered on the MMR side of the road during a UXO clearance of the access road to the former range. Intrusive investigation resulted in the discovery of a presumed HE mortar round that was scheduled to be BIPed today, 8/16. UXO clearance continued along the road to Camp GoodNews. 12 additional anomalies have been identified that are not related to surface features. The southern-end of the former firing fan extends to Camp GoodNews and the access road clips the fan. Therefore, there is a medium to high probability of finding UXO; and the anomalies identified along the access road will be intrusively investigated. Currently the exclusion zone around the anomaly excavations is not being extended; a 3-sided aluminum engineering control device (known in the vernacular as a "Bud-Lite") is being used to minimize the required exclusion zone. This decision will be reevaluated depending on what is discovered in the initial intrusive investigations. Ms. Iorio notified Camp GoodNews of the BIP and also about the additional anomalies. Tina Dolen (IAGWSPO) also notified the Town of Sandwich, even though the exclusion zone did not extend into Sandwich and notification was not required.
- Len Pinaud (MADEP) requested notification of any additional BIPs, by phone or pager.
- Delineation sampling was started yesterday 8/15. Features to be sampled were identified in a site walk with the ACE, Mark Panni (MADEP) and Jane Dolan (EPA). These included 3 bunkers, an area out from the wetland, and a rubble pile that may be a former bunker.
- Dave Williams (MDPH) requested a copy of the workplan.

- Ms. Dolan requested a regular (once or twice weekly) update on delineation sampling results.

Other Items

- Heather Sullivan (ACE) asked about the status of EPA comments on Tech Memo 01-13. Mike Jasinski (EPA) indicated that review of Tech Memo 01-13 is likely to be delayed as EPA is reviewing the integration schedule provided by AMEC with respect to the Central Impact Area. Ellen Iorio (ACE) asked about comments on the CDC Test Report. Mr. Jasinski relayed that issues with the technical review contract have delayed the review schedule for 8 weeks
- Jane Dolan (EPA) requested a proposal on how and when Snake Pond plumes would be drawn on maps.
- Ms. Dolan requested an update on Textron's schedule of removal activities on J-3 Range. Previous correspondence indicated that removal of the concrete blocks was slated for August. Is this still the schedule?
- Len Pinaud (MADEP) inquired about CIAP-10, if it was to be located 300 feet south of the MW-110 on the CS-19 particle track, as requested by EPA. John Rice to check well location.
- Dave Williams (MDPH) pointed out that the recent table of explosive results showed that the Sandwich, Weeks Pond Sentry wells were non detect for explosives.

The Guard, EPA, and MADEP had a meeting on August 23 to discuss technical issues, including the following:

AirMag Update

Larry Hudgins (Tetra Tech) provided an update on the validation of EPA's 10 AirMag anomaly picks.
Anomaly 4-1586 located off Turpentine Road near old BOMARC site. Subsurface discovery included instrumentation with Raytheon printed on it, large magnets, and glass shards. Debris was covered back up and the area fenced. Ben Gregson (IAGWSPO) indicated that a site-specific Health and Safety Plan would be developed for characterizing this material. Once characterized, the Guard would decide whether this site should be handed over to AFCEE. EPA requested that Mr. Gregson inform the base environmental office and AFCEE-IRP of the findings from this area due to its proximity to the BOMARC site.
Anomaly 5-1269 located at the J-1 2000m Berm, near a 55-gallon drum. 105mm HE round was found at this location, to be BIPed. Todd Borci (EPA) requested the exact location of the round. Mr. Hudgins to provide.
Anomaly 3-2143 located at J-3 Range north of L Range. Two Volkswagen bodies and debris where excavated. Car bodies have impact holes. Jane Dolan (EPA) requested a site visit to the excavation.
Anomaly 4-3137 this was the anomaly that could not be found with hand excavating equipment to 6 ft. At 9 feet, a 15 ft long by 6 ft wide metal container (steel conex box? corrugated quonset hut?) was uncovered. Box was empty.

- Other targets were insignificant. Mr. Borci inquired about the target in the NW corner of the base off of Goat Pasture Road. Mr. Hudgins indicated just trash was observed, no sign of it being a burn pit.
- Geophysics survey at ASP was completed.
- Tetra Tech has developed a list of anomalies that they are recommending to be validated and will be providing this list to the Corps. Gina Tyo (ACE) indicated that she would sit down with the EPA to discuss. Mr. Borci requested that EPA be provided the same

information that was presented to the Corps. The budget allows for validating eight anomalies per area; there are 4 areas. However, in some of the areas there are less than eight anomalies, so all of the anomalies will be validated in these areas. The validation effort is scheduled to start Monday, will begin in areas where all anomalies are to be validated. EPA concurred with this approach. Maps will be provided to EPA today (8/23). Discussion of other anomalies to validate could be conducted at either Wednesday 8/29 meeting or by phone.

- Geophysical survey of the Former K Range will begin tomorrow 8/24. Tetra Tech is in the process of griding Succonsette Pond as the next survey area. Surface clearance of Ant-Tank Gravity Range will begin next week.
- Draft Demo 1 Letter Report will be submitted to agencies 9/24. Draft report presented to Corps does not include data.
- Dave Williams (MDPH) requested a copy of the J-3 Range AirMag map. Mr. Hudgins to provide.

RRA Mortar Target 9 Update

Scott Veenstra (AMEC) provided an update on the RRA-related activities.

- All post-excavation samples were reported as non-detect for explosives.
- Revised Response to Comments on the RRA Completion of Work Report was provided to the agencies by email. A paper copy will be sent out today (8/23).
- EPA comments on the Supplemental Delineation Sampling Summary Report have been emailed to Guard/Corps and will be forwarded to Mr. Veenstra.
- Results of sampling of containment pad decon water from drums will be forwarded to agencies, pending Guard review. Still waiting on pesticide analysis results.
- Larry Hudgins (Tetra Tech) indicated that defragging of soil excavated from MT9 has been completed. Nick Iaiennaro (ACE) approved soil for disposal 8/22, approximately 10 to 15 yards in HUTA staging area. Soil will be held here to combine with BIP crater excavated soil.
- Karen Wilson (IAGWSPO) provided an overview on the site restoration component of soil removal at MT9. Restoration planning is underway. Tetra Tech is working on UXO clearance both for current planting and future activities (monitoring, replanting). Currently, the Guard is developing specific species composite and relative abundance information to determine how the plantings will be distributed. A Site Restoration Schedule will be provided to the agencies by 9/7. Optimal planting time is 9/24 to 10/19, after the weather is cooler but before the first frost. Restoration Plan to be submitted 9/24. Mike Jasinski (EPA) concurred that this overview would suffice as a plan until the formal plan was submitted 9/24.

Snake Pond AOC Delineation Update

Marc Grant (AMEC) proposed that a "plume" map could be developed following submittal of the J-1, J-3, L Ranges Report on 9/5. Draft map would be prepared for the 9/13 meeting, still with a lot of dashed lines. Map could then be developed with agency input over a series of Tech meetings in September. J Ranges and L Range would be included for RDX, HMX and Perchlorate.

Water Supply Update

CPT Meyer (IAGWSPO) explained that JPO personnel were out of town for a meeting. Jane Dolan (EPA) requested that a JPO representative be at the Tech meeting next week. Ben Gregson (IAGWSPO) to call JPO.

HUTA2 Scope

Gina Tyo (ACE) requested that discussion of HUTA2 scope be postponed until Ellen Iorio (ACE) reviewed EPA comments. Todd Borci (EPA) concurred and suggested that comments could be discussed at the Wednesday morning (8/29) meeting if there were multiple questions or by email if there were only 1 or 2 questions.

Data Management and QC

- Heather Sullivan (ACE) distributed a brief written explanation about reporting of Perchlorate concentrations that were not reported by the laboratory (detections were in concentrations below the reporting limit) in several wells from the Central Impact Area. In reviewing Perchlorate data from several wells prior to validation, it had been decided to report these Perchlorate detections as estimated (J) detects at the reported concentration. This information was not passed on to the validation reviewer who eventually validated the data package and who did not request that the laboratory report this data as estimated detects. The laboratory has since been requested to report this data and the validation package will be revised.
- Mark Panni (MADEP) inquired if the end point for sampling a well was if a non-detect was reported. Mr. Panni also inquired if these wells could be sampled as part of the on-going monitoring round for Perchlorate, and if wells in the Central Impact Area or just J Ranges were being sampled for Perchlorate.
- Jane Dolan (EPA) said that it was her understanding that all wells would be sampled a minimum of three times. Marc Grant (AMEC) reported that this was not the case for these Central Impact Area wells, which were response wells for explosive detects. If this is the case, then this requirement needs to be stated during development of the scope of work/Workplan
- Marc Grant (AMEC) provided an overview on how misreported or erroneous data were prevented or corrected. EPA had requested information on three data issues. Corrective Action Report (CAR) forms have been developed for use in tracking errors and the actions taken to correct errors. In the past, the process was informally documented via email. The CAR form has recently developed to formalize the documentation. Two reports were provided as examples.
- MMR-4077 explained the incorrect reporting of a RDX degradation product in a sample.
- MMR-4078 explained misassigned analytical results for groundwater samples from several wells.
- A Corrective Action Report for a third error regarding PDA confirmed explosive result reversals for groundwater profile samples is still being drafted.
- Todd Borci (EPA) inquired about how the recent Perchlorate detection in Snake Pond surface water would be handled. Dave Williams (MDPH) asked if a Corrective Action Report would be generated on this presumed error. Mr. Grant indicated that a CAR would be prepared for the Perchlorate detection in Snake Pond.
- Mr. Grant indicated that samples from the Demo 1 well and Snake Pond were reanalyzed. The Demo 1 sample came up as 18 ppb (approximately what it was reported in the original analysis) and Snake Pond surface water sample came up as non detect. Samples were reanalyzed outside of holding times. Therefore the reanalysis data could not be validated as reliable for Snake Pond sample, even though result for Demo 1 well suggested that samples were still useable. The current hypothesis regarding what happened is that a duplicate Demo 1 well sample was accidentally substituted for surface water sample in the lab. But this hypothesis cannot be proven.
- Mike Jasinski (EPA) requested that a CAR explaining this error be emailed to the agencies by Monday.

- Mr. Borci requested that some qualification of this result be placed in the comment portion or some portion of the database.
- EPA requested that this result be reported and explained at the IART meeting, scheduled for 8/28.
- Jane Dolan (EPA) requested a QA program outline from AMEC. Are laboratory and field audits still being conducted? Mr. Grant to provide information on how the QA/QC Plan is being implemented at 9/6 Tech meeting.

Central Impact Area Pump Test Schedule

- Heather Sullivan (ACE) distributed the proposed pump test schedule, indicating that the schedule did not account for training/hunting.
- Marc Grant (AMEC) indicated that the training schedule is grey in the coming months. It is best to set a schedule for the fieldwork and inform range control - then adjust schedule as necessary. Ben Gregson (IAGWSPO) suggested completing work during the week (rather than on the weekend) when less training was typically conducted.
- Mark Panni (MADEP) inquired if the pumping test meant that the Guard was committing to pump and treat for remediation. CPT Meyer (IAGWSPO) indicated that the pump test would provide additional information on the aquifer characteristics that will be useful in evaluating all the remedial alternatives.
- Heather Sullivan (ACE) indicated that the Guard would provide a map of well locations for the pump test next week. Concurrence on these locations is needed by 9/6 to meet the proposed schedule. Five observation wells and one pumping well have been scoped.
- Adam Balogh (TRC) inquired if the pump test proposal would provide screen depths. Jay Clausen (AMEC) indicated that it would.

Documents and Schedule Status

- Discussion ensued primarily between Marc Grant (AMEC) and Todd Borci (EPA) regarding the combined MSP and groundwater study schedules. EPA to review MSP dates in Gantt chart from Guard's 8/8 letter and MSP2 start date proposed in 7/12 letter. EPA will respond to these letters next week if dates are not acceptable. AMEC to work on revising finalized combined schedule; J Range deliverable schedule, Demo 1 soil, Central Impact Area soil and Central Impact Area groundwater all need be finalized. Mr. Grant to attempt to develop an integrated schedule, although all the issues haven't been completely resolved.
- CPT Meyer (IAGWSPO) pointed out that groundwater study program would have to work around the HUTA2 schedule. Mr. Borci indicated that this was understood; just as the installation of proposed well P-30 had been delayed until HUTA1 work was completed.
- Mike Jasinski (EPA) inquired about the ITE Reports. Scott Veenstra (AMEC) indicated that the schedule had changed slightly from last week's meeting so that internal comments could be incorporated into the reports. Reports will be submitted at the end of August. Feedback on the reports was welcome, although not required. Approval was also not required.
- Mr. Jasinski requested that a discussion of the MOR for Technical Memorandum 01-10 follow the Tech meeting.
- CPT Meyer inquired about the date to discuss the Depleted Uranium study MOR. Jane Dolan (EPA) indicated that it would be another 3 weeks as the people who reviewing the report were out.
- Mr. Borci stated that the comments on the Gun & Mortar Report would be sent out Monday, 8/27.
- Ms. Dolan requested that the date for the J-1, J-3, L Ranges Additional Delineation Workplan #2 be set for 12/17, so that results from Additional Delineation Work Plan #1 can be reviewed prior to proposing additional sampling.

- Mr. Grant proposed an 11/1 deadline for the Demo 2, Former K Range, Former A Range integrated groundwater study/MSP Report. Mr. Borci requested that he be provided with the most accurate figures of the areas with sampling grids, wells and data spreadsheets prior to submission of the report.
- Mr. Borci inquired as to why the bermed Small Arms Ranges sites had not been included in the Phase IIb Report. Mr. Grant indicated that there had been internal miscommunication and that it was their intent to submit this information as a supplement to the Phase IIb Report. Mr. Jasinski (EPA) indicated that the Guard needed to provide this supplement as soon as possible so that comments on the supplement could be included with comments on the Phase IIb Report due back to the Guard on 9/11. Ben Gregson (IAGWSPO) to respond as to whether this could be done.

Miscellaneous Issues

- Ken Gaynor (Jacobs) requested a list of the Long Term Monitoring wells. Last week he had seen an AMEC crew sampling a CS-19 well that Jacobs had sampled a day earlier. Jacobs would like to try to coordinate sampling schedules with AMEC.
- Todd Borci (EPA) inquired if 8330NX explosive analysis method was being used for groundwater samples collected from CS-19 monitor wells. Marc Grant (AMEC) to check.
- Jane Dolan (EPA) requested an update on the status of the University of Texas Fate and Transport Study.
- Ms. Dolan requested information on where soil sampling for dyes would be conducted. Was a written proposal being prepared? Mr. Grant indicated that soils were being collected at J-2 Range for dyes analysis.
- Ms. Dolan inquired about Aerial Photographs for 1947, 1958 and 1971. CPT Meyer (IAGWSPO) indicated that Chris Churney (ACE) was analyzing the photographs. Ms. Dolan requested copies of the photographs.
- Ms. Dolan inquired about sampling of the FS-12 Influent/Effluent, was this being completed regularly? Mr. Grant inquired as to EPA's expectations of a sampling schedule. Mr. Borci requested that monthly sampling be completed until enough data was obtained to evaluate the average groundwater quality relative to explosives entering and exiting the extraction system.

EPA convened a meeting of the Impact Area Review Team on August 28, 2001. Topics discussed during the meeting were the Installation Restoration Program CS-18 Site Investigation, the Phase IIb Report, the Central Impact Area Soil Report, and new detections of explosives and perchlorate in groundwater. The tentative date for the next meeting is September 25, 2001.

The Guard, EPA, and MADEP had a meeting on August 30 to discuss technical issues, including the following:

CS-19 Update

Todd Borci (EPA) provided a handout from IRP. The table shows solvents detected in groundwater profile samples collected from the recent boring downgradient of CS-19. EPA will discuss with IRP the need for sampling Volatile Organic Compounds at downgradient wells, with Bill Gallagher to attend for IAGWSPO.

AirMag Update

Ellen Iorio (ACE) provided an update on work completed to date.

- ACE is on schedule for a presentation 9/12 at 0800hrs on the Air Mag results and proposed additional work.
- In other MSP work, Ms. Iorio reported that the Former K Range had 3 of 4 grids cut for the EM-61 survey but the vegetation was very heavy in the 4th grid. ACE proposed changing the survey from EM-61 to a hand-held magnetometer for this grid; EPA agreed.
- Ms. Iorio reported that the survey in Former A Range had located buried practice rockets. Fifty-seven 3.5-inch practice rockets were removed from this location. After surveying ACE will attempt to correlate this find with the Air Mag results. There have been technical difficulties on the Former A Range survey due to the amount of metallic debris; ACE may try a new magnetometer configuration here.
- Larry Hudgins (Tetra Tech) handed out a pick list as requested by EPA.

Snake Pond Diffusion Samplers

Jane Dolan (EPA) had discussions with Denis LeBlanc (USGS) regarding the sampler size. If a larger size is available that will allow collection of perchlorate (as well as explosive) samples, EPA requests that this be used.

J Range Response Plan

- Herb Colby (AMEC) explained that the response plan has been implemented with the exception of the sample that could not be collected from 90PZ0208 (still working on access). Results will be provided in the draft J Range report due 9/5/01.
- Jane Dolan (EPA) indicated that the Memorandum of Resolution for the Additional Delineation Workplan #1 indicated which perchlorate detections would be delineated, it was not clear that the final workplan (also due next week) adequately described how this would happen. There was some discussion of how this would mesh with the Workplan #2 to be provided in December. Guard, EPA, and MADEP agreed that this would be discussed in a breakout session following the 9/13/01 technical meeting, which is when the initial map of plumes will be provided.
- Jane Dolan (EPA) requested Guard to also consider how to delineate perchlorate in soil. Todd Borci (EPA) to provide info to Heather Sullivan (ACE) on a soil analytical method.

University of Texas Fate/Transport Measurements Update

- Jay Clausen (AMEC) explained he has received draft results but has yet to review the data in detail. He expects a final report from University of Texas next month. There is an issue with interpreting how the RDX dissolution results, which are for a constant saturated column, might apply to the intermittent saturation that really occurs due to precipitation.
- Mike Jasinski (EPA) asked that these results be considered in the Demo 1 soil report; they are not explicitly called out in the proposed schedule provided to EPA.

Water Supply Project Update

Todd Borci (EPA) asked that MADEP consider which chemical parameters are monitored for WS-1, which is in the area near detects of TCE and RDX at MW-18. Len Pinaud (MADEP) indicated that MADEP would make appropriate recommendations.

Drilling Schedule

John Rice (AMEC) explained that last week's suggestion to complete P-30 rather than CIAP-4 prior to 9/28/01 would not be feasible because the latter was scheduled for drilling by the Sonic rig and the former (being inside the Impact Area) could not be drilled by the Sonic rig. It was agreed to keep CIAP-4 in the schedule and substitute P-30 for CIAP-2.

Rapid Response Actions

- Heather Sullivan (ACE) asked to schedule comment resolution for the 2nd round of comments on the Completion of Work Report for Round 1; it was agreed to meet on this in 2 weeks.
- There was a discussion of process water treatment; Jane Dolan (EPA) asked that the water be treated prior to disposal.
- Scott Veenstra (AMEC) asked whether post-excavation sampling results might be more appropriate to include in the Completion of Work Report (Round 2) rather than the Supplemental Delineation Report. Jane Dolan (EPA) asked that the results be included in the latter report. Also, that the Completion of Work Report (Round 2) include results for BIPs conducted prior to delineation sampling.

IART Agenda and Action Items

Tina Dolen (IAGWSPO) provided a draft agenda for September, and draft action items for the August meeting. Ms. Dolen suggested that the Demo 1 Groundwater FS be added to the September agenda considering that with the timing of this report (9/25/01) comments will be needed from IART prior to the October meeting. This issue, and the draft action items, will be discussed in the PM/CI meeting to occur later today.

Other Issues

- Heather Sullivan (ACE) mentioned that Guard is preparing a list of EPA comments on TM 01-14 that require clarification or discussion prior to the RCL.
- Todd Borci (EPA) and Millie Garcia-Surette (MADEP) discussed the need for scoping meetings to ensure Guard is aware of agency expectations for reports.
- It was agreed to complete the DU report comment resolution on 9/13/01.
- EPA asked for a schedule for database changes for trace level perchlorate in CIA wells.
- EPA asked that corrections be made to the IART detect tables for unvalidated SVOC.
- EPA asked that the Guard change the "standard" for perchlorate in the IART detect tables and maps from 18ppb to 1.5ppb in accordance with their recent letter.
- EPA asked the Guard to consider when a revised Combined Schedule could be produced and any outstanding scheduling issues to be decided before then.
- EPA asked the Guard to consider shifting the Inset A frame in the weekly progress report maps, to better show all of the J Ranges.

2. SUMMARY OF DATA RECEIVED

Validated data were received during August for Sample Delivery Groups (SDGs) CA3004, 3005; CMR031; MMR595, 600, 601, 602, 603, 604, 605, 606, 607, 609, 610, 616, 618, 620, 621, 623; SMR010, 011, and 012. These SDGs contain results for 8 crater grid samples from UXO detonation craters; 129 groundwater samples from monitoring wells; 78 groundwater profile samples from MW-164, MW-165, MW-166, MW-168, and 90MW104A; 177 soil grab and grid samples from the J-1 Range, Former C, E, H and K Ranges, Gravity Range, GA/GB Ranges, Cleared Areas 1, 4, 6, and 10; and Grenade Court 2.; and 2 samples of the RRA Containment Pad process water.

<u>Validated Data</u>

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) was measured in year 2000 results. Thirteen of the 41 molybdenum exceedances were repeated in consecutive sampling rounds (wells 2S, 2D, 13D, 16D, 46M2, 52D, 52M3, 53M1, 53D, 54M2, 54S, 55D, and 57S). Molybdenum concentrations declined in 12 of these 13 wells. Eight molybdenum exceedances (wells 13D, 16D, 45S, 52D, 53M1, 57S, 57M2, and 81D) were observed in year 2000 results. 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. Five wells (28M1, 142M1, 142M2, 146M1, and 157D) 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.

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

Rush data are summarized in Table 4. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and explosive and VOC analyses for profile samples, are typically conducted in this timeframe. Other types of analyses may be rushed depending on the proposed use of the data. The rush data have not yet been validated, but are provided as an indication of the most recent preliminary results. Table 4 summarizes only detects, and does not show samples with non-detects.

The status of the detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 4. PDA is a procedure that has been implemented for the explosive analysis, to reduce the likelihood of false positive identifications. Where the PDA status is "YES" in Table 4, the detected compound is verified as properly identified. Where the status is "NO", the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 4 includes the following detections:

- Groundwater samples collected from MW-153M1 (Greenway Rd, south of L Range), MW-16S (Demo 2), MW-23M1, MW-37M2, MW-37M3, MW-38M3, MW-43M2, (Central Impact Area Response wells), MW-34M1 and duplicate sample, MW-34M2, MW-75M2 and MW-78M2 (Demo 1) all had detections of RDX that were confirmed by PDA. RDX was detected in these wells in similar concentrations in previous sampling rounds.

- Groundwater samples collected from MW-18M1 (northeast corner of the base, near BA-1) had a detection of RDX that was confirmed by PDA. This is the first detection of RDX in any well screen at the MW-18 location.

- Groundwater samples collected from MW-31M1 (Demo 1) had a detection of 2A-DNT that was confirmed by PDA. 2A-DNT has been detected in this well in a similar concentration as the previous sampling round. However, 4A-DNT, RDX and HMX are usually also detected.

- Groundwater samples collected from MW-76S (Demo 1) had detections of RDX and MNX that were confirmed by PDA. RDX has been detected in this well in a similar concentration in the previous sampling round. In previous rounds, HMX has also been detected. This is the first time this well has been analyzed using method 8330NX, which enables MNX to be detected.

- Groundwater samples collected from MW-77M2 (Demo 1) had detections of 4A-DNT, RDX, HMX and MNX that were confirmed by PDA. RDX, HMX, and 4A-DNT were detected in similar concentrations in the previous sampling round. This is the first time this well has been analyzed using method 8330NX, which enables MNX to be detected.

- Groundwater samples collected from MW-76M1 and MW-76M2 (Demo 1) had detections of RDX, MNX, and HMX, all confirmed by PDA. RDX and HMX were detected in previous sampling rounds in these wells. This is the first time these wells have been analyzed using method 8330NX, which enables MNX to be detected.

- Groundwater samples collected from MW-1M2 and MW-1S (Central Impact Area) had detections of RDX and HMX, confirmed by PDA. RDX and HMX have been consistently detected in MW-1S wells in previous sampling rounds. RDX has also been detected in MW-1M2 in previous sampling rounds, but this is the first detection of HMX.

- Groundwater profile samples collected from MW-176 (Central Impact Area) had detections of 2A-DNT (4 intervals) and 2,4-DNT (2 intervals). The 2,4-DNT detections were confirmed by PDA.

- The groundwater profile samples from MW-177 had detections of dinitrobenzene (9 intervals), 2,4-DNT (1 interval), 2A-DNT (2 intervals), 4A-DNT (3 intervals), nitrobenzene (3 intervals), nitroglycerin (8 intervals), picric acid (6 intervals), 3-nitrotoluene (7 intervals), 4-nitrotoluene (7 intervals), PENT (1 interval), TNT (1 interval) and HMX (1 interval). One nitrobenzene detection, two 4A-DNT detections, one nitrobenzene detection, one 2A-DNT detection and the TNT and 2,4-DNT detections were confirmed by PDA spectra.

- BIP crater samples collected from the item found on 8/7/01 had detections of RDX, HMX, and TNT, which were confirmed by PDA.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

Weekly Progress Update, July 23 – July 27, 2001	8/02/01
Weekly Progress Update, July 30 – August 3, 2001	8/09/01
July 2001 Monthly Progress Report	8/09/90
Weekly Progress Update, August 6 – August 10, 2001	8/16/01
Phase IIb Report (Technical Memorandum 01-15)	8/17/01
Weekly Progress Update, August 13 – August 17, 2001	8/23/01
SAR Addendum to Phase IIb Report (Technical Memorandum 01-15a)	8/30/01
Revised Profile Sampling Method and Turbidity Evaluation (Addendum to Technical Memorandum 99-6)	8/31/01

4. SCHEDULED ACTIONS

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

- Finish Demo 1 Final Soil Report
- Finish installation of 8 Monitor Well Nests in the Central Impact Area
- Continue Central Impact Area Draft Soil Report revision
- Continue Draft J-2 Range Report preparation
- Finish Draft J-1/J-3/L Range Report preparation
- Continue J-1/J-3/L Range Additional Delineation investigation
- Continue Gun/Mortar Draft Final Report revision
- Continue HUTA Draft Report preparation
- Start Phase II (b) Draft Report revision

- Continue Former A/K/Demo 2 Report Preparation
- Start Revised MSP Phase I Draft Report revision
- Finish AirMag Target Lists Draft Report
- Finish Demo 1 Validation Draft Report
- Finish Slit Trench Validation Draft Report
- Finish J-1 Range Vehicle Removal Draft Report
- Finish ASP Geophysics Draft Report
- Finish Geophysical Survey at Former K Range
- Start Former K Range Geophysical Draft Report
- Finish Geophysical Survey of Former A Range
- Start Former A Range Geophysical Report
- Finish Geophysical Survey of Succonsette Pond
- Finish Succonsette Pond Geophysical Report
- Start Geophysical Survey of Demo Area 2
- Continue Groundwater Monitoring Programs
- Continue Draft Revised Archive Search Report revision
- Continue Draft Demo 1 Soil FS Screening Report revision
- Finish Draft Demo 1 Area Groundwater FS Report
- Start Central Impact Area Soil FS Screening Report preparation
- Finish Central Impact Area Groundwater FS Screening Report revision
- Start Central Impact Area Post-Screening Investigation Workplan preparation

5. SUMMARY OF ACTIVITIES FOR DEMO 1

An additional downgradient well location (D1P-8) on Pew Road will be drilled in the coming weeks. Analysis of first, second, and third round groundwater samples from newly installed wells is ongoing. Analysis of soil samples for TOC and other analytes is ongoing. The groundwater Feasibility Study is being prepared.

TABLE 2
SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
58MW0007E	58MW0007E	08/30/2001	58MW0007E	134.00	139.00	0.00	5.00
58MW0009E	58MW0009E	08/29/2001	58MW0009E	133.00	138.00	6.50	11.50
58MW0011E	58MW0011E	08/29/2001	58MW0011E	145.00	150.00	15.70	20.70
HCA08230101AA	A08220101	08/31/2001	CRATER GRAB	0.00	0.25		
HDA07300101AA	A07300101	08/06/2001	CRATER GRAB	0.00	0.25		
HDA07310102AA	A07300102	08/06/2001	CRATER GRAB	0.00	0.25		
HDA08070101AA	A08070101	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070101AA	A08070101	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070102AA	A08070102	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070102AA	A08070102	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070103AA	A08070103	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070103AA	A08070103	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070103AD	A08070103	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070103AD	A08070103	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070104AA	A08070104	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070104AA	A08070104	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070105AA	A08070105	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070105AA	A08070105	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070106AA	A08070106	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070106AA	A08070106	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070107AA	A08070107	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070107AA	A08070107	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070108AA	A08070108	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070108AA	A08070108	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08070109AA	A08070109	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08070109AA	A08070109	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08080101AA	A08080101	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08080101AA	A08080101	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08080102AA	A08080102	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08080102AA	A08080102	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08080103AA	A08080103	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08080103AA	A08080103	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08080104AA	A08080104	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08080104AA	A08080104	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08080105AA	A08080105	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08080105AA	A08080105	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08080106AA	A08080106	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08080106AA	A08080106	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08090101AA	A08090101	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08090101AA	A08090101	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08090101AA	A08090101	08/14/2001	CRATER GRAB	0.00	0.25		
HDA08090101AD	A08090101	08/14/2001	CRATER GRAB	0.00	0.25		
HDA08090102AA	A08090102	08/09/2001	CRATER GRAB	0.00	0.25		
HDA08090102AA	A08090102	08/13/2001	CRATER GRAB	0.00	0.25		
HDA08090102AA	A08090102	08/14/2001	CRATER GRAB	0.00	0.25		
HDA08130101AA	A08130101	08/23/2001	CRATER GRAB	0.00	0.25		
HDA08220101AA	A08220101	08/31/2001	CRATER GRAB	0.00	0.25		
HDA08230101AA	A08220101	08/31/2001	CRATER GRAB	0.00	0.25		
HDJ1.A.2.00128SS7	J1A200128S	08/27/2001	CRATER GRAB	0.00	0.25		

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TABLE 2
SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDJ1200182RSS1	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS1D	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS2	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS3	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS4	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS5	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS6	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS7	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1200182RSS8	J1200182RS	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS2	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS3	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS4	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS5	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS6	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS7	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS8	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2.A.2.00590SS8	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200590SS1	J2A200590S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS1	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS2	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS3	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS4	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS5	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS6	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS7	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS8	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200595SS8D	J2A200595S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS1	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS2	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS3	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS4	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS5	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS6	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS7	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS8	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ2A200600SS8D	J2A200600S	08/27/2001	CRATER GRAB	0.00	0.25		
HDJ1A100043SS1	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS2	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS3	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS4	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS5	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS6	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS6D	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS7	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A100043SS8	J1A100043S	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200106SS1	J1A200106A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200106SS2	J1A200106A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200106SS3	J1A200106A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200106SS4	J1A200106A	08/21/2001	CRATER GRID	0.00	0.25		

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8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDJ1A200106SS5	J1A200106B	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200106SS6	J1A200106B	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200106SS7	J1A200106B	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200106SS8	J1A200106B	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS1	J1A200108A	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS2	J1A200108A	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS3	J1A200108A	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS3D	J1A200108A	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS4	J1A200108A	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS5	J1A200108B	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS6	J1A200108B	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS7	J1A200108B	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200108SS8	J1A200108B	08/22/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS1	J1A200128A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS2	J1A200128A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS2D	J1A200128A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS3	J1A200128A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS4	J1A200128A	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS5	J1A200128B	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS6	J1A200128B	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS7	J1A200128B	08/21/2001	CRATER GRID	0.00	0.25		
HDJ1A200128SS8	J1A200128B	08/21/2001	CRATER GRID	0.00	0.25		
58MW0003-E	FIELDQC	08/30/2001	FIELDQC	0.00	0.00		
58MW0006E-E	FIELDQC	08/29/2001	FIELDQC	0.00	0.00		
58MW0015B-E	FIELDQC	08/28/2001	FIELDQC	0.00	0.00		
58MW0016A-E	FIELDQC	08/31/2001	FIELDQC	0.00	0.00		
ABB0027AAE	FIELDQC	08/08/2001	FIELDQC	0.00	0.00		
ABB0027DAE	FIELDQC	08/09/2001	FIELDQC	0.00	0.00		
ABB0027GAE	FIELDQC	08/10/2001	FIELDQC	0.00	0.00		
ABB0027HAE	FIELDQC	08/21/2001	FIELDQC	0.00	0.00		
ABB0029AAE	FIELDQC	08/22/2001	FIELDQC	0.00	0.00		
G176DAE	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		
G176DAF	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		
G176DCE	FIELDQC	08/15/2001	FIELDQC	0.00	0.00		
G176DFE	FIELDQC	08/16/2001	FIELDQC	0.00	0.00		
G176DQE	FIELDQC	08/17/2001	FIELDQC	0.00	0.00		
G177DAE	FIELDQC	08/24/2001	FIELDQC	0.00	0.00		
G177DKE	FIELDQC	08/27/2001	FIELDQC	0.00	0.00		
G177DME	FIELDQC	08/28/2001	FIELDQC	0.00	0.00		
G177DSE	FIELDQC	08/29/2001	FIELDQC	0.00	0.00		
G178DAE	FIELDQC	08/23/2001	FIELDQC	0.00	0.00		
G178DDE	FIELDQC	08/24/2001	FIELDQC	0.00	0.00		
G178DJE	FIELDQC	08/27/2001	FIELDQC	0.00	0.00		
G178DLE	FIELDQC	08/28/2001	FIELDQC	0.00	0.00		
G178DOE	FIELDQC	08/29/2001	FIELDQC	0.00	0.00		
G178DOE	FIELDQC	08/30/2001	FIELDQC	0.00	0.00		
G178DRE	FIELDQC	08/31/2001	FIELDQC	0.00	0.00		
G180DAE	FIELDQC	08/29/2001	FIELDQC	0.00	0.00		
G180DIE	FIELDQC	08/31/2001	FIELDQC	0.00	0.00		

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OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G18DFE	FIELDQC	08/30/2001	FIELDQC	0.00	0.00		
GAB29T	FIELDQC	08/22/2001	FIELDQC	0.00	0.00		
HC05BB1BAE	FIELDQC	08/16/2001	FIELDQC	0.00	0.00		
HC05BB1BAT	FIELDQC	08/16/2001	FIELDQC	0.00	0.00		
HC05BC1BAT	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		
HC05BD1AAE	FIELDQC	08/08/2001	FIELDQC	0.00	0.00		
HC05BD1AAF	FIELDQC	08/08/2001	FIELDQC	0.00	0.00		
HC05BD1AAT	FIELDQC	08/08/2001	FIELDQC	0.00	0.00		
HC05BE1BAE	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		
HC05CA1BAE	FIELDQC	08/17/2001	FIELDQC	0.00	0.00		
HC05CA1BAT	FIELDQC	08/17/2001	FIELDQC	0.00	0.00		
HC05CD1CAE	FIELDQC	08/29/2001	FIELDQC	0.00	0.00		
HC05CD1CAT	FIELDQC	08/30/2001	FIELDQC	0.00	0.00		
HC05CG1CAE	FIELDQC	08/28/2001	FIELDQC	0.00	0.00		
HC05CG1CAT	FIELDQC	08/28/2001	FIELDQC	0.00	0.00		
HC05CK1AAE	FIELDQC	08/30/2001	FIELDQC	0.00	0.00		
HC05CK1AAT	FIELDQC	08/31/2001	FIELDQC	0.00	0.00		
HC101EG1AAE	FIELDQC	08/07/2001	FIELDQC	0.00	0.00		
HC101NE1AAE	FIELDQC	08/13/2001	FIELDQC	0.00	0.00		
HC101NH1AAE	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		
HC101NK1BAE	FIELDQC	08/08/2001	FIELDQC	0.00	0.00		
HC101NK1BAT	FIELDQC	08/08/2001	FIELDQC	0.00	0.00		
HC101PG1AAE	FIELDQC	08/06/2001	FIELDQC	0.00	0.00		
HC101TB1AAE	FIELDQC	08/09/2001	FIELDQC	0.00	0.00		
HC101TB1AAT	FIELDQC	08/09/2001	FIELDQC	0.00	0.00		
HC101UA1AAT	FIELDQC	08/10/2001	FIELDQC	0.00	0.00		
HC101UC1AAF	FIELDQC	08/09/2001	FIELDQC	0.00	0.00		
HC101UD1AAE	FIELDQC	08/10/2001	FIELDQC	0.00	0.00		
HD101NE1AAF	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		
HD101Q1AAE	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		
HDA07310102AE	FIELDQC	08/06/2001	FIELDQC	0.00	0.00		
HDA07310102AT	FIELDQC	08/07/2001	FIELDQC	0.00	0.00		
HDA08070101AE	FIELDQC	08/09/2001	FIELDQC	0.00	0.00		
HDA08080101AT	FIELDQC	08/13/2001	FIELDQC	0.00	0.00		
HDA08130101AE	FIELDQC	08/23/2001	FIELDQC	0.00	0.00		
HDA08130101AT	FIELDQC	08/23/2001	FIELDQC	0.00	0.00		
HDA08220101AE	FIELDQC	08/31/2001	FIELDQC	0.00	0.00		
HDJ1A100043SS1E	FIELDQC	08/22/2001	FIELDQC	0.00	0.00		
HDJ1A200128SS1E	FIELDQC	08/21/2001	FIELDQC	0.00	0.00		
HDJ2.A.2.00590SS1	FIELDQC	08/27/2001	FIELDQC	0.00	0.00		
LKSNK0005AAT	FIELDQC	08/17/2001	FIELDQC	0.00	0.00		
SP4-91DE	FIELDQC	08/01/2001	FIELDQC	0.00	0.00		
W153M1T	FIELDQC	08/01/2001	FIELDQC	0.00	0.00		
W19SST	FIELDQC	08/24/2001	FIELDQC	0.00	0.00		
W50M3T	FIELDQC	08/06/2001	FIELDQC	0.00	0.00		
W51M1T	FIELDQC	08/02/2001	FIELDQC	0.00	0.00		
W53M3T	FIELDQC	08/01/2001	FIELDQC	0.00	0.00		
W56SST	FIELDQC	08/02/2001	FIELDQC	0.00	0.00		
W66SST	FIELDQC	08/14/2001	FIELDQC	0.00	0.00		

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8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W71M1T	FIELDQC	08/29/2001	FIELDQC	0.00	0.00		
W7DDT	FIELDQC	08/20/2001	FIELDQC	0.00	0.00		
W83DDT	FIELDQC	08/28/2001	FIELDQC	0.00	0.00		
W84SST	FIELDQC	08/27/2001	FIELDQC	0.00	0.00		
58MW0001	58MW0001	08/29/2001	GROUNDWATER	122.00	127.00	4.78	9.78
58MW0001-D	58MW0001	08/29/2001	GROUNDWATER	122.00	127.00	4.78	9.78
58MW0003	58MW0003	08/30/2001	GROUNDWATER	119.00	124.00	1.30	6.30
58MW0006E	58MW0006E	08/29/2001	GROUNDWATER	110.00	115.00	0.00	5.00
58MW0007B	58MW0007B	08/31/2001	GROUNDWATER	188.00	193.00	50.10	55.10
58MW0007C	58MW0007C	08/30/2001	GROUNDWATER	153.00	158.00	15.10	20.10
58MW0007C	58MW0007C	08/31/2001	GROUNDWATER	153.00	158.00	28.16	33.16
58MW0009C	58MW0009C	08/31/2001	GROUNDWATER	168.00	173.00	41.57	46.57
58MW0009E	58MW0009E	08/29/2001	GROUNDWATER	133.00	138.00	6.50	11.50
58MW0011E	58MW0011E	08/29/2001	GROUNDWATER	145.00	150.00	15.70	20.70
58MW0015B	58MW0015B	08/28/2001	GROUNDWATER	130.00	140.00	8.89	18.89
58MW0016A	58MW0016A	08/31/2001	GROUNDWATER	176.00	185.00	54.22	63.22
58MW0016B	58MW0016B	08/30/2001	GROUNDWATER	151.00	161.00	29.50	39.50
58MW0016C	58MW0016C	08/30/2001	GROUNDWATER	116.00	126.00	0.00	10.00
90SNP0001	90SNP0001	08/15/2001	GROUNDWATER			1.00	1.00
90SNP0001	90SNP0001	08/30/2001	GROUNDWATER			1.00	1.00
90SNP0002	90SNP0002	08/15/2001	GROUNDWATER			1.00	1.00
90SNP0002	90SNP0002	08/30/2001	GROUNDWATER			1.00	1.00
SP3-91DA	SP3-91	08/01/2001	GROUNDWATER	70.00	90.00	64.30	84.30
SP4-91DA	SP4-91	08/01/2001	GROUNDWATER	70.00	90.00	50.00	70.00
W109SSA	MW-109	08/22/2001	GROUNDWATER	89.00	99.00	0.00	10.00
W109SSD	MW-109	08/22/2001	GROUNDWATER	89.00	99.00	0.00	10.00
W133M1A	MW-133	08/22/2001	GROUNDWATER	252.00	262.00	101.95	111.95
W133M2A	MW-133	08/22/2001	GROUNDWATER	321.00	331.00	102.60	112.60
W134M1A	MW-143	08/23/2001	GROUNDWATER	250.00	260.00	114.50	124.50
W134M2A	MW-143	08/23/2001	GROUNDWATER	170.00	180.00	34.50	44.50
W134SSA	MW-134	08/06/2001	GROUNDWATER	133.00	143.00	0.00	10.00
W141M1A	MW-141	08/27/2001	GROUNDWATER	190.00	200.00	60.64	70.64
W141M2A	MW-141	08/27/2001	GROUNDWATER	162.00	172.00	32.65	42.65
W141SSA	MW-141	08/24/2001	GROUNDWATER	128.00	138.00	0.00	10.00
W153M1A	MW-153	08/01/2001	GROUNDWATER	199.00	209.00	105.75	115.75
W15M1A	MW-15	08/21/2001	GROUNDWATER	163.00	173.00	51.70	61.70
W15M1D	MW-15	08/21/2001	GROUNDWATER	163.00	173.00	51.70	61.70
W15M2A	MW-15	08/21/2001	GROUNDWATER	144.00	154.00	32.70	42.70
W15M3A	MW-15	08/21/2001	GROUNDWATER	124.00	134.00	13.70	23.70
W162M1A	MW-162	08/15/2001	GROUNDWATER	190.50	200.50	115.30	125.30
W162M2A	MW-162	08/15/2001	GROUNDWATER	125.50	135.50	50.20	60.20
W162M3A	MW-162	08/16/2001	GROUNDWATER	85.00	95.00	9.70	19.70
W164M1A	MW-164	08/21/2001	GROUNDWATER	227.00	237.00	116.30	126.30
W164M2A	MW-164	08/21/2001	GROUNDWATER	157.00	167.00	46.30	56.30
W164M3A	MW-164	08/22/2001	GROUNDWATER	117.00	127.00	6.20	16.20
W165M1A	MW-165	08/16/2001	GROUNDWATER	184.50	194.50	105.30	115.30
W165M2A	MW-165	08/16/2001	GROUNDWATER	124.50	134.50	45.30	55.30
W165M3A	MW-165	08/16/2001	GROUNDWATER	94.00	104.00	14.90	24.90
W175M1A	MW-175	08/13/2001	GROUNDWATER	264.00	274.00	139.25	149.25

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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TABLE 2
SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W175M1A	MW-175	08/22/2001	GROUNDWATER	264.00	274.00	139.20	149.20
W175M2A	MW-175	08/14/2001	GROUNDWATER	199.00	209.00	74.45	84.45
W175M3A	MW-175	08/15/2001	GROUNDWATER	162.00	167.00	37.40	47.40
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	0.00	10.00
W19SSA	MW-19	08/24/2001	GROUNDWATER	38.00	48.00	1.00	10.00
W1DDA	MW-1	08/15/2001	GROUNDWATER	290.00	300.00	170.50	180.50
W1M1A	MW-1	08/16/2001	GROUNDWATER	220.00	225.00	100.90	105.90
W1M2A	MW-1	08/15/2001	GROUNDWATER	160.00	165.00	40.60	45.60
W1SSA	MW-1	08/16/2001	GROUNDWATER	114.00	124.00	0.00	10.00
W29SSA	MW-29	08/08/2001	GROUNDWATER	98.50	105.50	0.00	10.00
W29SSA	MW-29	08/08/2001	GROUNDWATER	98.50	108.50	0.00	10.00
W2DDA	MW-2	08/21/2001	GROUNDWATER	355.00	360.00	207.90	212.90
W2DDA	MW-2	08/21/2001	GROUNDWATER	355.00	360.00	212.90	217.90
W2M1A	MW-2	08/21/2001	GROUNDWATER	212.00	217.00	70.20	75.20
W2M2A	MW-2	08/21/2001	GROUNDWATER	170.00	175.00	28.30	33.30
W2SSA	MW-2	08/21/2001	GROUNDWATER	137.00	147.00	0.00	10.00
W30SSA	MW-30	08/17/2001	GROUNDWATER	26.00	36.00	0.00	10.00
W31DDA	MW-31	08/02/2001	GROUNDWATER	133.00	138.00	43.40	53.40
W31MMA	MW-31	08/02/2001	GROUNDWATER	113.00	123.00	23.20	33.20
W31SSA	MW-31	08/24/2001	GROUNDWATER	98.00	103.00	7.94	12.94
W35M1A	MW-35	08/03/2001	GROUNDWATER	155.00	165.00	65.15	75.15
W35M2A	MW-35	08/03/2001	GROUNDWATER	100.00	110.00	10.14	20.14
W35SSA	MW-35	08/03/2001	GROUNDWATER	84.00	94.00	0.00	10.00
W36M1A	MW-36	08/02/2001	GROUNDWATER	151.00	161.00	72.43	82.43
W36M2A	MW-36	08/02/2001	GROUNDWATER	131.00	141.00	52.42	62.42
W36SSA	MW-36	08/02/2001	GROUNDWATER	73.00	83.00	0.00	10.00
W37M1A	MW-37	08/15/2001	GROUNDWATER	181.00	191.00	58.80	68.80
W37M2A	MW-37	08/15/2001	GROUNDWATER	145.00	155.00	22.80	32.80
W37M2D	MW-37	08/15/2001	GROUNDWATER	145.00	155.00	22.80	32.80
W37M3A	MW-37	08/15/2001	GROUNDWATER	130.00	140.00	8.00	18.00
W38DDA	MW-38	08/22/2001	GROUNDWATER	242.00	252.00	120.70	130.70
W38DDA	MW-38	08/24/2001	GROUNDWATER	242.00	252.00	120.70	130.70
W38M1A	MW-38	08/14/2001	GROUNDWATER	217.00	227.00	95.52	105.52
W38M2A	MW-38	08/14/2001	GROUNDWATER	187.00	197.00	65.48	75.48
W38M2D	MW-38	08/14/2001	GROUNDWATER	187.00	197.00	65.48	75.48
W38M3A	MW-38	08/14/2001	GROUNDWATER	170.00	180.00	48.74	58.74
W38M4A	MW-38	08/14/2001	GROUNDWATER	132.00	142.00	10.64	20.64
W39M1A	MW-39	08/21/2001	GROUNDWATER	220.00	230.00	81.70	91.70
W39M2A	MW-39	08/20/2001	GROUNDWATER	175.00	185.00	36.60	46.60
W40M1A	MW-40	08/16/2001	GROUNDWATER	132.00	142.00	11.20	21.20
W40SSA	MW-40	08/20/2001	GROUNDWATER	116.00	126.00	0.00	10.00
W41M1A	MW-41	08/14/2001	GROUNDWATER	235.00	245.00	104.87	114.87
W41M2A	MW-41	08/02/2001	GROUNDWATER	194.00	204.00	63.70	73.70
W42M1A	MW-42	08/06/2001	GROUNDWATER	206.00	216.00	135.00	145.00
W42M2A	MW-42	08/06/2001	GROUNDWATER	186.00	196.00	115.54	125.54
W42M3A	MW-42	08/07/2001	GROUNDWATER	166.00	176.00	95.46	105.46
W43M1A	MW-43	08/07/2001	GROUNDWATER	223.00	233.00	86.12	96.12
W43M2A	MW-43	08/07/2001	GROUNDWATER	166.00	176.00	95.46	105.46
W43M2A	MW-43	08/07/2001	GROUNDWATER	200.00	210.00	63.30	73.30

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SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W44M1A	MW-44	08/23/2001	GROUNDWATER	182.00	192.00	52.50	62.50
W44M2A	MW-44	08/24/2001	GROUNDWATER	142.00	152.00	12.50	22.50
W44SSA	MW-44	08/24/2001	GROUNDWATER	123.00	133.00	0.00	10.00
W45M2A	MW-45	08/23/2001	GROUNDWATER	110.00	120.00	15.60	25.60
W45SSA	MW-45	08/23/2001	GROUNDWATER	89.00	99.00	0.00	10.00
W46DDA	MW-46	08/06/2001	GROUNDWATER	295.00	305.00	133.20	143.20
W46M1A	MW-46	08/07/2001	GROUNDWATER	262.00	272.00	99.70	109.70
W46M2A	MW-46	08/07/2001	GROUNDWATER	215.00	225.50	52.80	63.30
W46M3A	MW-46	08/07/2001	GROUNDWATER	182.00	192.00	19.30	29.30
W46M3D	MW-46	08/07/2001	GROUNDWATER	182.00	192.00	19.30	29.30
W47M2A	MW-47	08/06/2001	GROUNDWATER	131.50	141.50	31.20	41.20
W47M3A	MW-47	08/06/2001	GROUNDWATER	115.00	120.00	14.80	19.80
W49M1A	MW-49	08/03/2001	GROUNDWATER	160.00	170.00	86.60	96.60
W50DDA	MW-50	08/06/2001	GROUNDWATER	237.00	247.00	116.08	126.08
W50DDD	MW-50	08/06/2001	GROUNDWATER	237.00	247.00	116.08	126.08
W50M1A	MW-50	08/03/2001	GROUNDWATER	207.00	217.00	86.10	96.10
W50M2A	MW-50	08/03/2001	GROUNDWATER	177.00	187.00	56.20	66.20
W50M3A	MW-50	08/06/2001	GROUNDWATER	147.00	157.00	25.98	35.98
W51DDA	MW-51	08/03/2001	GROUNDWATER	264.00	274.00	115.50	125.50
W51M1A	MW-51	08/02/2001	GROUNDWATER	203.00	213.00	54.80	64.80
W51M3A	MW-51	08/02/2001	GROUNDWATER	173.00	183.00	24.70	34.70
W52DDA	MW-52	08/01/2001	GROUNDWATER	369.00	379.00	213.86	223.86
W52M1A	MW-52	08/01/2001	GROUNDWATER	290.00	300.00	134.64	144.64
W52M2A	MW-52	08/01/2001	GROUNDWATER	225.00	235.00	69.86	79.86
W52M3A	MW-52	08/01/2001	GROUNDWATER	210.00	215.00	55.59	65.59
W52SSA	MW-52	08/02/2001	GROUNDWATER	150.00	160.00	0.00	10.00
W53M1A	MW-53	08/02/2001	GROUNDWATER	224.00	234.00	95.80	105.80
W53M2A	MW-53	08/02/2001	GROUNDWATER	194.00	204.00	65.80	5.80
W54M3A	MW-54	08/17/2001	GROUNDWATER	180.00	190.00	26.20	36.20
W56DDA	MW-56	08/01/2001	GROUNDWATER	176.00	186.00	96.80	106.80
W56M1A	MW-56	08/01/2001	GROUNDWATER	156.00	166.00	79.80	89.80
W56M1A	MW-56	08/01/2001	GROUNDWATER	156.00	166.00	79.80	89.80
W56M2A	MW-56	08/01/2001	GROUNDWATER	131.00	141.00	51.80	61.80
W56M3A	MW-56	08/02/2001	GROUNDWATER	106.00	116.00	27.00	37.00
W56M3D	MW-56	08/02/2001	GROUNDWATER	106.00	116.00	27.00	37.00
W56SSA	MW-56	08/01/2001	GROUNDWATER	76.00	86.00	0.00	10.00
W57DDA	MW-57	08/07/2001	GROUNDWATER	213.00	223.00	142.30	152.30
W57M1A	MW-57	08/08/2001	GROUNDWATER	188.00	198.00	99.04	109.04
W57M1A	MW-57	08/08/2001	GROUNDWATER	188.00	198.00	99.04	109.04
W57M2A	MW-57	08/08/2001	GROUNDWATER	148.00	158.00	59.36	69.36
W57M3A	MW-57	08/08/2001	GROUNDWATER	117.00	127.00	28.80	38.80
W57M3A	MW-57	08/08/2001	GROUNDWATER	117.00	127.00	28.80	38.80
W57SSA	MW-57	08/08/2001	GROUNDWATER	85.00	95.00	0.00	10.00
W58SSA	MW-58	08/22/2001	GROUNDWATER	100.00	110.00	0.00	10.00
W59M1A	MW-59	08/20/2001	GROUNDWATER	165.00	170.00	28.90	33.90
W59M2A	MW-59	08/20/2001	GROUNDWATER	150.00	160.00	13.80	23.80
W61SSA	MW-61	08/22/2001	GROUNDWATER	98.00	108.00	0.00	10.00
W63DDA	MW-63	08/28/2001	GROUNDWATER	221.00	226.00	64.30	69.30
W63M1A	MW-63	08/09/2001	GROUNDWATER	244.00	254.00	86.80	96.80

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8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W63M1D	MW-63	08/09/2001	GROUNDWATER	244.00	254.00	86.80	96.80
W63M2A	MW-63	08/09/2001	GROUNDWATER	214.00	224.00	55.97	66.97
W63M2A	MW-63	08/09/2001	GROUNDWATER	214.00	224.00	56.97	66.97
W63M3A	MW-63	08/13/2001	GROUNDWATER	182.00	192.00	24.90	34.90
W63SSA	MW-63	08/13/2001	GROUNDWATER	153.00	163.00	0.00	10.00
W64M1A	MW-64	08/08/2001	GROUNDWATER	129.00	139.00	34.70	44.70
W64M2A	MW-64	08/08/2001	GROUNDWATER	100.00	105.00	5.70	10.70
W64M2D	MW-64	08/08/2001	GROUNDWATER	100.00	105.00	5.70	10.70
W65SSA	MW-65	08/13/2001	GROUNDWATER	116.00	126.00	0.00	10.00
W65SSA	MW-65	08/14/2001	GROUNDWATER	116.00	126.00	0.00	10.00
W66SSA	MW-65	08/13/2001	GROUNDWATER	125.00	135.00	0.00	10.00
W66SSA	MW-66	08/13/2001	GROUNDWATER	125.00	135.00	0.00	10.00
W67M1A	MW-67	08/09/2001	GROUNDWATER	243.00	253.00	83.00	93.00
W67SSA	MW-67	08/09/2001	GROUNDWATER	161.00	171.00	3.00	13.00
W68SSA	MW-68	08/15/2001	GROUNDWATER	84.00	94.00	0.00	10.00
W70SSA	MW-70	08/14/2001	GROUNDWATER	132.00	142.00	2.20	12.20
W71M1A	MW-71	08/28/2001	GROUNDWATER	180.00	190.00	17.90	27.90
W71M1D	MW-71	08/28/2001	GROUNDWATER	180.00	190.00	17.90	27.90
W71SSA	MW-71	08/28/2001	GROUNDWATER	158.00	168.00	0.00	10.00
W72SSA	MW-72	08/09/2001	GROUNDWATER	106.00	116.00	0.00	10.00
W74M1A	MW-74	08/13/2001	GROUNDWATER	170.00	180.00	73.00	83.00
W74M2A	MW-74	08/10/2001	GROUNDWATER	125.00	135.00	28.00	38.00
W74M3A	MW-74	08/13/2001	GROUNDWATER	100.00	110.00	3.00	13.00
W75M1A	MW-75	08/09/2001	GROUNDWATER	140.00	150.00	55.83	65.83
W75M2A	MW-75	08/09/2001	GROUNDWATER	115.00	125.00	30.79	40.79
W75SSA	MW-75	08/10/2001	GROUNDWATER	81.00	91.00	0.00	10.00
W76M1A	MW-76	08/13/2001	GROUNDWATER	125.00	135.00	54.88	64.88
W76M2A	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72
W76M2D	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72
W76SSA	MW-76	08/10/2001	GROUNDWATER	85.00	95.00	14.74	24.74
W77M1A	MW-77	08/13/2001	GROUNDWATER	180.00	190.00	94.12	104.12
W77M2A	MW-77	08/10/2001	GROUNDWATER	120.00	130.00	34.21	44.21
W77SSA	MW-77	08/24/2001	GROUNDWATER	83.00	93.00	0.00	10.00
W78M1A	MW-78	08/14/2001	GROUNDWATER	135.00	145.00	54.20	64.20
W78M2A	MW-78	08/15/2001	GROUNDWATER	115.00	125.00	34.10	44.10
W78M3A	MW-78	08/15/2001	GROUNDWATER	85.00	95.00	0.00	10.00
W79M1A	MW-79	08/16/2001	GROUNDWATER	156.00	166.00	64.00	74.00
W79M2A	MW-79	08/16/2001	GROUNDWATER	116.00	126.00	24.10	34.10
W79SSA	MW-79	08/16/2001	GROUNDWATER	89.00	99.00	0.00	10.00
W7DDA	MW-7	08/20/2001	GROUNDWATER	332.00	342.00	223.50	233.50
W7M2A	MW-7	08/20/2001	GROUNDWATER	170.00	175.00	61.50	66.30
W7M2A	MW-7	08/20/2001	GROUNDWATER	170.00	175.00	61.50	66.50
W7M2D	MW-7	08/20/2001	GROUNDWATER	170.00	175.00	61.50	66.30
W7M2D	MW-7	08/20/2001	GROUNDWATER	170.00	175.00	61.50	66.50
W80DDA	MW-80	08/20/2001	GROUNDWATER	158.00	168.00	111.30	121.30
W80M1A	MW-80	08/20/2001	GROUNDWATER	130.00	140.00	83.20	93.20
W80M1D	MW-80	08/20/2001	GROUNDWATER	130.00	140.00	83.20	93.20
W80M2A	MW-80	08/20/2001	GROUNDWATER	100.00	110.00	53.10	63.10
W80M3A	MW-80	08/20/2001	GROUNDWATER	70.00	80.00	23.10	33.10

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8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W80SSA	MW-80	08/17/2001	GROUNDWATER	53.00	58.00	6.20	16.20
W81DDA	MW-81	08/17/2001	GROUNDWATER	184.00	194.00	156.60	166.60
W81M1A	MW-81	08/17/2001	GROUNDWATER	128.00	138.00	98.10	108.10
W81M1D	MW-81	08/17/2001	GROUNDWATER	128.00	138.00	98.10	108.10
W81M2A	MW-81	08/16/2001	GROUNDWATER	53.00	58.00	23.40	33.40
W81M2A	MW-81	08/16/2001	GROUNDWATER	53.00	58.00	23.40	33.40
W81M3A	MW-81	08/16/2001	GROUNDWATER	83.00	93.00	54.00	64.00
W81SSA	MW-81	08/16/2001	GROUNDWATER	25.00	35.00	0.00	10.00
W81SSA	MW-81	08/17/2001	GROUNDWATER	25.00	35.00	0.00	10.00
W82DDA	MW-82	08/22/2001	GROUNDWATER	125.00	135.00	94.70	104.70
W82M1A	MW-82	08/17/2001	GROUNDWATER	104.00	114.00	73.90	83.90
W82M2A	MW-82	08/17/2001	GROUNDWATER	78.00	88.00	48.10	58.10
W82M3A	MW-82	08/22/2001	GROUNDWATER	54.00	64.00	23.80	33.80
W82SSA	MW-82	08/17/2001	GROUNDWATER	25.00	35.00	0.00	10.00
W83DDA	MW-38	08/28/2001	GROUNDWATER	105.00	115.00	69.25	79.25
W83M1A	MW-83	08/23/2001	GROUNDWATER	110.00	120.00	74.29	84.29
W83M2A	MW-38	08/27/2001	GROUNDWATER	85.00	95.00	46.06	56.06
W83M3A	MW-38	08/27/2001	GROUNDWATER	60.00	70.00	23.80	33.80
W83SSA	MW38	08/23/2001	GROUNDWATER	33.00	43.00	0.00	10.00
W84DDA	MW-83	08/23/2001	GROUNDWATER	190.00	200.00	150.80	160.80
W84M1A	MW-84	08/24/2001	GROUNDWATER	140.00	150.00	100.70	110.70
W84M2A	MW-84	08/27/2001	GROUNDWATER	104.00	114.00	64.50	74.50
W84M3A	MW-84	08/27/2001	GROUNDWATER	79.00	89.00	39.60	49.60
W84M3A	MW-84	08/27/2001	GROUNDWATER	79.00	89.00	39.60	49.60
W84SSA	MW-84	08/27/2001	GROUNDWATER	54.00	65.00	14.30	24.30
DW080201	GAC WATER	08/02/2001	IDW	0.00	0.00		
DW080301	GAC WATER	08/03/2001	IDW	0.00	0.00		
DW081401	GAC WATER	08/14/2001	IDW	0.00	0.00		
LC102Q1AAA	102Q	08/24/2001	OTHER	0.00	0.50		
G176DAA	MW-176	08/14/2001	PROFILE	130.00	130.00	16.20	16.20
G176DBA	MW-176	08/15/2001	PROFILE	140.00	140.00	26.20	26.20
G176DCA	MW-176	08/15/2001	PROFILE	150.00	150.00	36.20	36.20
G176DCD	MW-176	08/15/2001	PROFILE	150.00	150.00	36.20	36.20
G176DDA	MW-176	08/15/2001	PROFILE	160.00	160.00	46.20	46.20
G176DEA	MW-176	08/15/2001	PROFILE	170.00	170.00	56.20	56.20
G176DFA	MW-176	08/16/2001	PROFILE	180.00	180.00	66.20	66.20
G176DFD	MW-176	08/16/2001	PROFILE	180.00	180.00	66.20	66.20
G176DGA	MW-176	08/16/2001	PROFILE	190.00	190.00	76.20	76.20
G176DHA	MW-176	08/16/2001	PROFILE	200.00	200.00	86.20	86.20
G176DIA	MW-176	08/16/2001	PROFILE	210.00	210.00	96.20	96.20
G176DJA	MW-176	08/16/2001	PROFILE	220.00	220.00	106.20	106.20
G176DKA	MW-176	08/16/2001	PROFILE	230.00	230.00	116.20	116.20
G176DLA	MW-176	08/16/2001	PROFILE	240.00	240.00	126.20	126.20
G176DMA	MW-176	08/16/2001	PROFILE	250.00	250.00	136.20	136.20
G176DNA	MW-176	08/17/2001	PROFILE	260.00	260.00	146.20	146.20
G176DOA	MW-176	08/17/2001	PROFILE	270.00	270.00	156.20	156.20
G176DPA	MW-176	08/17/2001	PROFILE	280.00	280.00	166.20	166.20
G176DQA	MW-176	08/17/2001	PROFILE	290.00	290.00	176.20	176.20
G177DAA	MW-177	08/24/2001	PROFILE	195.00	195.00	7.50	7.50

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BWTS = Depth below water table, start depth, measured in feet
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TABLE 2
SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G177DBA	MW-177	08/24/2001	PROFILE	200.00	200.00	12.50	12.50
G177DCA	MW-177	08/24/2001	PROFILE	210.00	210.00	22.50	22.50
G177DCD	MW-177	08/24/2001	PROFILE	210.00	210.00	22.50	22.50
G177DDA	MW-177	08/27/2001	PROFILE	220.00	220.00	32.50	32.50
G177DEA	MW-177	08/27/2001	PROFILE	230.00	230.00	42.50	42.50
G177DFA	MW-177	08/27/2001	PROFILE	240.00	240.00	52.50	52.50
G177DFD	MW-177	08/27/2001	PROFILE	240.00	240.00	52.50	52.50
G177DGA	MW-177	08/27/2001	PROFILE	250.00	250.00	62.50	62.50
G177DHA	MW-177	08/27/2001	PROFILE	260.00	260.00	72.50	72.50
G177DIA	MW-177	08/27/2001	PROFILE	270.00	270.00	82.50	82.50
G177DJA	MW-177	08/27/2001	PROFILE	280.00	280.00	92.50	92.50
G177DKA	MW-177	08/27/2001	PROFILE	290.00	290.00	102.50	102.50
G177DLA	MW-177	08/27/2001	PROFILE	300.00	300.00	112.50	112.50
G177DMA	MW-177	08/28/2001	PROFILE	310.00	310.00	122.50	122.50
G177DNA	MW-177	08/28/2001	PROFILE	320.00	320.00	132.50	132.50
G177DOA	MW-177	08/28/2001	PROFILE	330.00	330.00	142.50	142.50
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50
G177DRA	MW-177	08/28/2001	PROFILE	360.00	360.00	172.50	172.50
G177DRD	MW-177	08/28/2001	PROFILE	360.00	360.00	172.50	172.50
G177DSA	MW-177	08/29/2001	PROFILE	370.00	370.00	182.50	182.50
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50
G177DUA	MW-177	08/29/2001	PROFILE	390.00	390.00	202.50	202.50
G178DAA	MW-178	08/23/2001	PROFILE	145.00	145.00	5.60	5.60
G178DCA	MW-178	08/23/2001	PROFILE	165.00	165.00	25.60	25.60
G178DDA	MW-178	08/24/2001	PROFILE	175.00	175.00	35.60	35.60
G178DDD	MW-178	08/24/2001	PROFILE	175.00	175.00	35.60	35.60
G178DEA	MW-178	08/24/2001	PROFILE	185.00	185.00	45.60	45.60
G178DFA	MW-178	08/24/2001	PROFILE	195.00	195.00	55.60	55.60
G178DFD	MW-178	08/24/2001	PROFILE	195.00	195.00	55.60	55.60
G178DGA	MW-178	08/27/2001	PROFILE	205.00	205.00	65.60	65.60
G178DHA	MW-178	08/27/2001	PROFILE	215.00	215.00	75.60	75.60
G178DIA	MW-178	08/27/2001	PROFILE	225.00	225.00	85.60	85.60
G178DJA	MW-178	08/27/2001	PROFILE	235.00	235.00	95.60	95.60
G178DKA	MW-178	08/27/2001	PROFILE	245.00	245.00	105.60	105.60
G178DLA	MW-178	08/28/2001	PROFILE	255.00	255.00	115.60	115.60
G178DMA	MW-178	08/28/2001	PROFILE	265.00	265.00	125.60	125.60
G178DNA	MW-178	08/28/2001	PROFILE	275.00	275.00	135.60	135.60
G178DOA	MW-178	08/29/2001	PROFILE	285.00	285.00	145.60	145.60
G178DPA	MW-178	08/29/2001	PROFILE	295.00	295.00	155.60	155.60
G178DQA	MW-178	08/30/2001	PROFILE	305.00	305.00	165.60	165.60
G178DQD	MW-178	08/30/2001	PROFILE	305.00	305.00	165.60	165.60
G178DRA	MW-178	08/31/2001	PROFILE	310.00	315.00	175.60	180.60
G179DAA	MW-179	08/31/2001	PROFILE	150.00	150.00	9.60	9.60
G179DBA	MW-179	08/31/2001	PROFILE	160.00	160.00	19.60	19.60
G180DAA	MW-180	08/29/2001	PROFILE	170.00	170.00	14.00	14.00
G180DBA	MW-180	08/29/2001	PROFILE	180.00	180.00	24.00	24.00
G180DCA	MW-180	08/29/2001	PROFILE	190.00	190.00	34.00	34.00
G180DDA	MW-180	08/29/2001	PROFILE	200.00	200.00	44.00	44.00
G180DDD	MW-180	08/29/2001	PROFILE	200.00	200.00	44.00	44.00

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SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G180DEA	MW-180	08/29/2001	PROFILE	210.00	210.00	54.00	54.00
G180DFA	MW-180	08/30/2001	PROFILE	220.00	220.00	64.00	64.00
G180DGA	MW-180	08/30/2001	PROFILE	230.00	230.00	74.00	74.00
G180DGD	MW-180	08/30/2001	PROFILE	230.00	230.00	74.00	74.00
G180DHA	MW-180	08/30/2001	PROFILE	240.00	240.00	84.00	84.00
G180DIA	MW-180	08/30/2001	PROFILE	250.00	250.00	94.00	94.00
G180DKA	MW-180	08/30/2001	PROFILE	270.00	270.00	104.00	104.00
G180DLA	MW-180	08/30/2001	PROFILE	280.00	280.00	114.00	114.00
G180DMA	MW-180	08/30/2001	PROFILE	290.00	290.00	124.00	124.00
G180DNA	MW-180	08/31/2001	PROFILE	300.00	300.00	144.00	144.00
G180DOA	MW-180	08/31/2001	PROFILE	310.00	310.00	154.00	154.00
G180DPA	MW-180	08/31/2001	PROFILE	320.00	320.00	164.00	164.00
G180DQA	MW-180	08/31/2001	PROFILE	330.00	330.00	174.00	174.00
G180DRA	MW-180	08/31/2001	PROFILE	340.00	340.00	184.00	184.00
GAB29A	MW-179	08/22/2001	PROFILE	36.00	36.00	1.70	1.70
ABB0026AAA	B-26	08/08/2001	SOIL BORING	1.00	2.00		
ABB0026BAA	B-26	08/08/2001	SOIL BORING	2.00	4.00		
ABB0026CAA	B-26	08/08/2001	SOIL BORING	6.00	8.00		
ABB0026DAA	B-26	08/08/2001	SOIL BORING	10.00	12.00		
ABB0027AAA	B-27	08/09/2001	SOIL BORING	1.00	2.00		
ABB0027BAA	B-27	08/09/2001	SOIL BORING	2.00	4.00		
ABB0027CAA	B-27	08/09/2001	SOIL BORING	6.00	8.00		
ABB0027DAA	B-27	08/09/2001	SOIL BORING	10.00	12.00		
ABB0027EAA	B-27	08/09/2001	SOIL BORING	14.00	16.00		
ABB0027EAA	B-27	08/21/2001	SOIL BORING	14.00	16.00		
ABB0027FAA	B-27	08/09/2001	SOIL BORING	18.00	20.00		
ABB0027GAA	B-27	08/10/2001	SOIL BORING	22.00	24.00		
ABB0027HAA	B-27	08/10/2001	SOIL BORING	26.00	28.00		
ABB0027HAA	B-27	08/21/2001	SOIL BORING	26.00	28.00		
ABB0027IAA	B-27	08/10/2001	SOIL BORING	30.00	32.00		
ABB0027JAA	B-27	08/10/2001	SOIL BORING	34.00	36.00		
ABB0027JAA	B-27	08/21/2001	SOIL BORING	34.00	36.00		
ABB0027KAA	B-27	08/10/2001	SOIL BORING	38.00	40.00		
ABB0027LAA	B-27	08/10/2001	SOIL BORING	42.00	44.00		
ABB0028AAA	B-28	08/08/2001	SOIL BORING	1.00	2.00		
ABB0028BAA	B-28	08/08/2001	SOIL BORING	2.00	4.00		
ABB0028CAA	B-28	08/08/2001	SOIL BORING	6.00	8.00		
ABB0028DAA	B-28	08/08/2001	SOIL BORING	10.00	12.00		
ABB0028DAD	B-28	08/08/2001	SOIL BORING	10.00	12.00		
ABB0029AAA	B-29	08/22/2001	SOIL BORING	5.00	7.00		
ABB0029BAA	B-29	08/22/2001	SOIL BORING	10.00	12.00		
ABB0029CAA	B-29	08/22/2001	SOIL BORING	15.00	17.00		
ABB0029DAA	B-29	08/22/2001	SOIL BORING	20.00	22.00		
ABB0029EAA	B-29	08/22/2001	SOIL BORING	25.00	27.00		
ABB0029FAA	B-29	08/22/2001	SOIL BORING	30.00	32.00		
S121DAA	MW-121	08/14/2001	SOIL BORING	0.00	0.50		
HC05BA1AAA	05BA	08/08/2001	SOIL GRID	0.00	0.25		
HC05BA1BAA	05BA	08/08/2001	SOIL GRID	0.25	0.50		
HC05BA1CAA	05BA	08/08/2001	SOIL GRID	0.50	1.00		

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TABLE 2
SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC05BB1BAA	05BB	08/16/2001	SOIL GRID	0.25	0.50		
HC05BC1BAA	05BC	08/16/2001	SOIL GRID	0.25	0.50		
HC05BD1AAA	05BD	08/08/2001	SOIL GRID	0.00	0.25		
HC05BD1AAD	05BD	08/08/2001	SOIL GRID	0.00	0.25		
HC05BD1BAA	05BD	08/08/2001	SOIL GRID	0.25	0.50		
HC05BD1CAA	05BD	08/08/2001	SOIL GRID	0.50	1.00		
HC05BE1BAA	05BE	08/14/2001	SOIL GRID	0.25	0.50		
HC05BF1BAA	05BF	08/14/2001	SOIL GRID	0.25	0.50		
HC05CA1AAA	05CA	08/17/2001	SOIL GRID	0.00	0.25		
HC05CA1BAA	05CA	08/17/2001	SOIL GRID	0.25	0.50		
HC05CA1BAD	05CA	08/17/2001	SOIL GRID	0.25	0.50		
HC05CA1CAA	05CA	08/17/2001	SOIL GRID	0.50	1.00		
HC05CB1AAA	05CB	08/08/2001	SOIL GRID	0.00	0.25		
HC05CB1AAD	05CB	08/08/2001	SOIL GRID	0.00	0.25		
HC05CB1BAA	05CB	08/08/2001	SOIL GRID	0.25	0.50		
HC05CB1CAA	05CB	08/08/2001	SOIL GRID	0.50	1.00		
HC05CC1AAA	05CC	08/08/2001	SOIL GRID	0.00	0.25		
HC05CC1BAA	05CC	08/08/2001	SOIL GRID	0.25	0.50		
HC05CC1CAA	05CC	08/08/2001	SOIL GRID	0.50	1.00		
HC05CD1AAA	05CD	08/29/2001	SOIL GRID	0.00	0.25		
HC05CD1BAA	05CD	08/29/2001	SOIL GRID	0.25	0.50		
HC05CD1CAA	05CD	08/29/2001	SOIL GRID	0.50	1.00		
HC05CE1AAA	05CE	08/29/2001	SOIL GRID	0.00	0.25		
HC05CE1BAA	05CE	08/29/2001	SOIL GRID	0.25	0.50		
HC05CE1CAA	05CE	08/29/2001	SOIL GRID	0.50	1.00		
HC05CF1AAA	05CF	08/28/2001	SOIL GRID	0.00	0.25		
HC05CF1AAD	05CF	08/28/2001	SOIL GRID	0.00	0.25		
HC05CF1BAA	05CF	08/28/2001	SOIL GRID	0.25	0.50		
HC05CF1CAA	05CF	08/28/2001	SOIL GRID	0.50	1.00		
HC05CG1AAA	05CG	08/28/2001	SOIL GRID	0.00	0.25		
HC05CG1BAA	05CG	08/28/2001	SOIL GRID	0.25	0.50		
HC05CG1CAA	05CG	08/28/2001	SOIL GRID	0.50	1.00		
HC05CH1AAA	05CH	08/28/2001	SOIL GRID	0.00	0.25		
HC05CH1BAA	05CH	08/28/2001	SOIL GRID	0.25	0.50		
HC05CH1CAA	05CH	08/28/2001	SOIL GRID	0.50	1.00		
HC05CI1AAA	05CI	08/29/2001	SOIL GRID	0.00	0.25		
HC05CI1BAA	05CI	08/29/2001	SOIL GRID	0.25	0.50		
HC05CI1CAA	05CI	08/29/2001	SOIL GRID	0.50	1.00		
HC05CJ1AAA	05CJ	08/30/2001	SOIL GRID	0.00	0.25		
HC05CJ1BAA	05CJ	08/30/2001	SOIL GRID	0.25	0.50		
HC05CJ1CAA	05CJ	08/30/2001	SOIL GRID	0.50	1.00		
HC05CK1AAA	05CK	08/30/2001	SOIL GRID	0.00	0.25		
HC05CK1BAA	05CK	08/30/2001	SOIL GRID	0.25	0.50		
HC05CK1CAA	05CK	08/30/2001	SOIL GRID	0.50	1.00		
HC05CL1AAA	05CL	08/30/2001	SOIL GRID	0.00	0.25		
HC05CL1BAA	05CL	08/30/2001	SOIL GRID	0.25	0.50		
HC05CL1CAA	05CL	08/30/2001	SOIL GRID	0.50	1.00		
HC101EG1AAA	101EG	08/07/2001	SOIL GRID	0.00	0.25		
HC101EG1AAD	101EG	08/07/2001	SOIL GRID	0.00	0.25		

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SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC101EG1BAA	101EG	08/07/2001	SOIL GRID	0.25	0.50		
HC101EG1CAA	101EG	08/07/2001	SOIL GRID	0.50	1.00		
HC101GJ1AAA	101GJ	08/06/2001	SOIL GRID	0.00	0.25		
HC101GJ1BAA	101GJ	08/06/2001	SOIL GRID	0.25	0.50		
HC101GJ1CAA	101GJ	08/06/2001	SOIL GRID	0.50	1.00		
HC101GK1AAA	101GK	08/06/2001	SOIL GRID	0.00	0.25		
HC101GK1AAD	101GK	08/06/2001	SOIL GRID	0.00	0.25		
HC101GK1BAA	101GK	08/06/2001	SOIL GRID	0.25	0.50		
HC101GK1CAA	101GK	08/06/2001	SOIL GRID	0.50	1.00		
HC101HA1AAA	101HA	08/06/2001	SOIL GRID	0.00	0.25		
HC101HA1AAD	101HA	08/06/2001	SOIL GRID	0.00	0.25		
HC101HA1BAA	101HA	08/06/2001	SOIL GRID	0.25	0.50		
HC101HA1CAA	101HA	08/06/2001	SOIL GRID	0.50	1.00		
HC101JB1BAA	101JB	08/14/2001	SOIL GRID	0.25	0.50		
HC101NC1BAA	101NC	08/07/2001	SOIL GRID	1.50	2.00		
HC101NC1BAD	101NC	08/07/2001	SOIL GRID	1.50	2.00		
HC101ND1AAA	101ND	08/13/2001	SOIL GRID	0.00	0.25		
HC101ND1BAA	101ND	08/13/2001	SOIL GRID	0.25	0.50		
HC101ND1CAA	101ND	08/13/2001	SOIL GRID	0.50	1.00		
HC101NE1AAA	101NE	08/13/2001	SOIL GRID	0.00	0.25		
HC101NE1BAA	101NE	08/13/2001	SOIL GRID	0.25	0.50		
HC101NE1CAA	101NE	08/13/2001	SOIL GRID	0.50	1.00		
HC101NF1AAA	101NF	08/07/2001	SOIL GRID	0.00	0.25		
HC101NF1AAD	101NF	08/07/2001	SOIL GRID	0.00	0.25		
HC101NF1BAA	101NF	08/07/2001	SOIL GRID	0.25	0.50		
HC101NF1CAA	101NF	08/07/2001	SOIL GRID	0.50	1.00		
HC101NG1AAA	101NG	08/07/2001	SOIL GRID	0.00	0.25		
HC101NG1BAA	101NG	08/07/2001	SOIL GRID	0.25	0.50		
HC101NG1CAA	101NG	08/07/2001	SOIL GRID	0.50	1.00		
HC101NH1AAA	101NH	08/14/2001	SOIL GRID	0.00	0.25		
HC101NH1AAD	101NH	08/14/2001	SOIL GRID	0.00	0.25		
HC101NH1BAA	101NH	08/14/2001	SOIL GRID	0.25	0.50		
HC101NH1CAA	101NH	08/14/2001	SOIL GRID	0.50	1.00		
HC101NI1AAA	101NI	08/07/2001	SOIL GRID	0.00	0.25		
HC101NI1BAA	101NI	08/07/2001	SOIL GRID	0.25	0.50		
HC101NI1CAA	101NI	08/07/2001	SOIL GRID	0.50	1.00		
HC101NJ1AAA	101NJ	08/13/2001	SOIL GRID	0.00	0.25		
HC101NJ1BAA	101NJ	08/13/2001	SOIL GRID	0.25	0.50		
HC101NJ1CAA	101NJ	08/13/2001	SOIL GRID	0.50	1.00		
HC101NK1AAA	101NK	08/07/2001	SOIL GRID	0.00	0.25		
HC101NK1BAA	101NK	08/07/2001	SOIL GRID	0.25	0.50		
HC101NK1CAA	101NK	08/07/2001	SOIL GRID	0.50	1.00		
HC101OD1AAA	101OD	08/09/2001	SOIL GRID	0.00	0.25		
HC101OD1BAA	101OD	08/09/2001	SOIL GRID	0.25	0.50		
HC101OD1CAA	101OD	08/09/2001	SOIL GRID	0.50	1.00		
HC101OE1AAA	101OE	08/09/2001	SOIL GRID	0.00	0.25		
HC101OE1BAA	101OE	08/09/2001	SOIL GRID	0.25	0.50		
HC101OE1CAA	101OE	08/09/2001	SOIL GRID	0.50	1.00		
HC101OF1AAA	101OF	08/10/2001	SOIL GRID	0.00	0.25		

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8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC101OF1AAD	101OF	08/10/2001	SOIL GRID	0.00	0.25		
HC101OF1BAA	101OF	08/10/2001	SOIL GRID	0.25	0.50		
HC101OF1CAA	101OF	08/10/2001	SOIL GRID	0.50	1.00		
HC101OG1AAA	101OG	08/10/2001	SOIL GRID	0.00	0.25		
HC101OG1BAA	101OG	08/10/2001	SOIL GRID	0.25	0.50		
HC101OG1CAA	101OG	08/10/2001	SOIL GRID	0.50	1.00		
HC101OH1AAA	101OH	08/07/2001	SOIL GRID	0.00	0.25		
HC101OH1AAD	101OH	08/07/2001	SOIL GRID	0.00	0.25		
HC101OH1BAA	101OH	08/07/2001	SOIL GRID	0.25	0.50		
HC101OH1CAA	101OH	08/07/2001	SOIL GRID	0.50	1.00		
HC101OI1AAA	101OI	08/10/2001	SOIL GRID	0.00	0.25		
HC101OI1BAA	101OI	08/10/2001	SOIL GRID	0.25	0.50		
HC101OI1CAA	101OI	08/10/2001	SOIL GRID	0.50	1.00		
HC101OJ1AAA	101OJ	08/07/2001	SOIL GRID	0.00	0.25		
HC101OJ1BAA	101OJ	08/07/2001	SOIL GRID	0.25	0.50		
HC101OJ1CAA	101OJ	08/07/2001	SOIL GRID	0.50	1.00		
HC101OK1AAA	101OK	08/07/2001	SOIL GRID	0.00	0.25		
HC101OK1BAA	101OK	08/07/2001	SOIL GRID	0.25	0.50		
HC101OK1CAA	101OK	08/07/2001	SOIL GRID	0.50	1.00		
HC101OL1AAA	101OL	08/08/2001	SOIL GRID	0.00	0.25		
HC101OL1BAA	101OL	08/08/2001	SOIL GRID	0.25	0.50		
HC101OL1CAA	101OL	08/08/2001	SOIL GRID	0.50	1.00		
HC101OL1CAD	101OL	08/08/2001	SOIL GRID	0.50	1.00		
HC101OM1AAA	101OM	08/09/2001	SOIL GRID	0.00	0.25		
HC101OM1BAA	101OM	08/09/2001	SOIL GRID	0.25	0.50		
HC101OM1CAA	101OM	08/09/2001	SOIL GRID	0.50	1.00		
HC101PE1AAA	101PE	08/06/2001	SOIL GRID	0.00	0.25		
HC101PE1AAD	101PE	08/06/2001	SOIL GRID	0.00	0.25		
HC101PE1BAA	101PE	08/06/2001	SOIL GRID	0.25	0.50		
HC101PE1CAA	101PE	08/06/2001	SOIL GRID	0.50	1.00		
HC101PF1AAA	101PF	08/06/2001	SOIL GRID	0.00	0.25		
HC101PF1BAA	101PF	08/06/2001	SOIL GRID	0.25	0.50		
HC101PF1CAA	101PF	08/06/2001	SOIL GRID	0.50	1.00		
HC101PG1AAA	101PG	08/06/2001	SOIL GRID	0.00	0.25		
HC101PG1BAA	101PG	08/06/2001	SOIL GRID	0.25	0.50		
HC101PG1CAA	101PG	08/06/2001	SOIL GRID	0.50	1.00		
HC101PH1AAA	101PH	08/07/2001	SOIL GRID	0.00	0.25		
HC101PH1AAD	101PH	08/07/2001	SOIL GRID	0.00	0.25		
HC101PH1BAA	101PH	08/07/2001	SOIL GRID	0.25	0.50		
HC101PH1CAA	101PH	08/07/2001	SOIL GRID	0.50	1.00		
HC101PI1AAA	101PI	08/07/2001	SOIL GRID	0.00	0.25		
HC101PI1BAA	101PI	08/07/2001	SOIL GRID	0.25	0.50		
HC101PI1CAA	101PI	08/07/2001	SOIL GRID	0.50	1.00		
HC101PJ1AAA	101PJ	08/07/2001	SOIL GRID	0.00	0.25		
HC101PJ1BAA	101PJ	08/07/2001	SOIL GRID	0.25	0.50		
HC101PJ1CAA	101PJ	08/07/2001	SOIL GRID	0.50	1.00		
HC101TB1AAA	101TB	08/09/2001	SOIL GRID	0.00	0.25		
HC101TB1BAA	101TB	08/09/2001	SOIL GRID	0.25	0.50		
HC101TB1CAA	101TB	08/09/2001	SOIL GRID	0.50	1.00		

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TABLE 2
SAMPLING PROGRESS
8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC101TC1AAA	101TC	08/09/2001	SOIL GRID	0.00	0.25		
HC101TC1BAA	101TC	08/09/2001	SOIL GRID	0.25	0.50		
HC101TC1CAA	101TC	08/09/2001	SOIL GRID	0.50	1.00		
HC101TD1AAA	101TD	08/09/2001	SOIL GRID	0.00	0.25		
HC101TD1BAA	101TD	08/09/2001	SOIL GRID	0.25	0.50		
HC101TD1CAA	101TD	08/09/2001	SOIL GRID	0.50	1.00		
HC101UA1AAA	101UA	08/09/2001	SOIL GRID	0.00	0.25		
HC101UA1BAA	101UA	08/09/2001	SOIL GRID	0.25	0.50		
HC101UA1CAA	101UA	08/09/2001	SOIL GRID	0.50	1.00		
HC101UB1AAA	101UB	08/09/2001	SOIL GRID	0.00	0.25		
HC101UB1BAA	101UB	08/09/2001	SOIL GRID	0.25	0.50		
HC101UB1CAA	101UB	08/09/2001	SOIL GRID	0.50	1.00		
HC101UC1AAA	101UC	08/10/2001	SOIL GRID	0.00	0.25		
HC101UC1BAA	101UC	08/10/2001	SOIL GRID	0.25	0.50		
HC101UC1CAA	101UC	08/10/2001	SOIL GRID	0.50	1.00		
HC101UD1AAA	101UD	08/10/2001	SOIL GRID	0.00	0.25		
HC101UD1BAA	101UD	08/10/2001	SOIL GRID	0.25	0.50		
HC101UD1CAA	101UD	08/10/2001	SOIL GRID	0.50	1.00		
HC46EA1CAA	46EA	08/16/2001	SOIL GRID	0.50	1.00		
HD05C1AAA	05C	08/30/2001	SOIL GRID	0.00	0.25		
HD101OE3CAA	101OE	08/09/2001	SOIL GRID	0.50	1.00		
HD101OI4BAA	101OI	08/10/2001	SOIL GRID	0.25	0.50		
HD101Q1AAA	101Q1	08/14/2001	SOIL GRID	0.00	0.25		
HD46E1CAA	46E	08/21/2001	SOIL GRID	0.50	1.00		
HD46E2CAA	46E	08/21/2001	SOIL GRID	0.50	1.00		
LKSNK0004AAA	LKSNK0004	08/17/2001	SURFACE WATER	1.00	1.00		
LKSNK0004AAA	LKSNK0004	08/29/2001	SURFACE WATER	0.00	1.00		
LKSNK0005AAA	LKSNK0005	08/17/2001	SURFACE WATER	1.00	1.00		
LKSNK0005AAA	LKSNK0005	08/29/2001	SURFACE WATER	0.00	1.00		
LKSNK0005AAD	LKSNK0005	08/17/2001	SURFACE WATER	1.00	1.00		
HCPE87FA1AAE	FIELDQC	08/13/2001	FIELDQC	0.00	0.00		
HCPE87FA1AAF	FIELDQC	08/13/2001	FIELDQC	0.00	0.00		
PPSPD1A	PPSPD1	08/13/2001	OTHER	0.00	0.00		
PPSPD2B	PPSPD1	08/13/2001	OTHER	0.00	0.00		
PPSPD3C	PPSPD3	08/13/2001	OTHER	0.00	0.00		
HCPE87101AAA	PE87101	08/13/2001	SOIL GRID	0.00	0.50		
HCPE87251AAA	PE87251	08/13/2001	SOIL GRID	0.00	0.50		
HCPE87251AAD	PE87251	08/13/2001	SOIL GRID	0.00	0.50		
HCPE87351AAA	PE87351	08/13/2001	SOIL GRID	0.00	0.50		
HCPE87351AAD	PE87351	08/13/2001	SOIL GRID	0.00	0.50		
HCPE87FA1AAA	PE87FA1	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87101AAA	PE87101	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87103AAA	PE87103	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87105AAA	PE87105	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87107AAA	PE87107	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87251AAA	PE87251	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87253AAA	PE87253	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87255AAA	PE87255	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87257AAA	PE87257	08/13/2001	SOIL GRID	0.00	0.50		

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OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDPE87351AAA	PE87351	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87353AAA	PE87353	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87355AAA	PE87355	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87357AAA	PE87357	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87FA1AAA	PE87FA1	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87FA2AAA	PE87FA2	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87FA3AAA	PE87FA3	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87FA4AAA	PE87FA4	08/13/2001	SOIL GRID	0.00	0.50		
HDPE87FA5AAA	PE87FA5	08/13/2001	SOIL GRID	0.00	0.50		
0.G.0.00110.0.T	TRIP BLANK 110	07/30/2001	FIELD QC				
0.G.0.00111.0.T	TRIP BLANK 111	07/31/2001	FIELD QC				
0.G.0.00112.0.T	TRIP BLANK 112	08/01/2001	FIELD QC				
0.G.0.00113.0.T	TRIP BLANK 113	08/03/2001	FIELD QC				
5.A.1.01022.1.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.10	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.2.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.3.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.4.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.5.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.6.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.7.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.8.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01022.9.0	A.1.01022.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.1.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.10	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.2.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.3.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.4.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.5.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.6.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.7.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.8.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01026.9.0	A.1.01026.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.1.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.10	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.2.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.3.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.4.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.5.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.6.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.7.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.8.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01030.9.0	A.1.01030.R	08/01/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.1.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.10.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.2.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.3.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.4.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.5.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		

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8/1/2001-8/31/2001

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
5.A.1.01035.6.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.7.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.8.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01035.9.0	A.1.01035.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.1.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.10	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.2.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.4.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.5.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.6.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.7.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.8.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01036.9.0	A.1.01036.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.1.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.10.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.2.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.3.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.4.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.5.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.6.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.7.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.8.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01037.9.0	A.1.01037.R	08/03/2001	CRATER GRID	1.00	1.25		
5.A.1.01038.1.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.10.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.2.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.3.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.4.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.5.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.6.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.7.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.8.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.A.1.01038.9.0	A.1.01038.R	08/03/2001	CRATER GRID	1.25	1.50		
5.F.0.00001.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00002.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00003.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00004.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00005.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00006.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00007.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00008.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00009.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00010.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00011.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00012.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00013.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
5.F.0.00014.2.0	Test Plot 5 Lift 2	07/31/2001	SOIL GRID				
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		

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8/1/2001-8/31/2001

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ST.F.3.00003.1.0		07/31/2001	SOIL GRID	2.30	2.90		
ST.F.3.00004.1.0		08/01/2001	SOIL GRID	2.00	2.50		
0.G.0.00117.0.T	TRIP BLANK 117	08/16/2001	FIELD QC				
WE.A.1.00001.3.0	WE08130101	08/16/2001	CRATER GRID	0.00	0.25		
J1.F.3.00001.1.0	J1.3.00001	08/16/2001	SOIL GRID	1.00	1.25		
J1.F.3.00002.1.0	J1.3.00002	08/16/2001	SOIL GRID	1.00	1.25		
0.G.0.00114.0.T	TRIP BLANK 114	08/08/2001	FIELD QC				
0.G.0.00115.0.T	TRIP BLANK 115	08/09/2001	FIELD QC				
0.G.0.00116.0.T	TRIP BLANK 116	08/09/2001	FIELD QC				
5.F.0.00001.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00001.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00002.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00002.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00003.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00003.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00004.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00004.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00005.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00005.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00006.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00006.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00007.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00007.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00008.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00008.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00009.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00009.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00010.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00010.4.0	Test Plot 5 Lift 4	08/09/2001	SOIL GRID				
5.F.0.00011.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
5.F.0.00012.3.0	Test Plot 5 Lift 3	08/07/2001	SOIL GRID				
7.A.1.01046.1.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.10.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.2.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.3.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.4.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.5.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.6.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.7.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.8.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		
7.A.1.01046.9.0	SP.A.1.01046.R	08/09/2001	CRATER GRID	0.25	0.50		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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 AUGUST 2001

Thursday, August 30, 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	W31SSA	05/02/2001	8330N	2,4,6-TRINITROTOLUENE	5.20		UG/L	7.30	12.30	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	72.79	77.79	2.00	X
90MW0022	WF22XA	02/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.40		UG/L	72.79	77.79	2.00	X
90MW0022	WF22XA	09/30/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20		UG/L	72.79	77.79	2.00	X
90WT0013	WF13XA	01/16/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20	J	UG/L	0.00	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

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 AUGUST 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-1	W01SSA	12/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.10	J	UG/L	0.00	10.00	2.00	X
MW-1	W01SSD	12/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.40		UG/L	0.00	10.00	2.00	X
MW-1	W1M2A	05/01/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.80		UG/L	39.90	44.90	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	04/30/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	15.00		UG/L	46.40	56.40	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	73.00	83.00	2.00	X
MW-147	W147M1A	02/23/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.70		UG/L	90.00	100.00	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

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

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-19	W19S2D	07/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	260.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	02/12/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	250.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	09/10/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	240.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	05/12/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	150.00	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	05/23/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	160.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	08/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	290.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	12/08/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	200.00		UG/L	0.00	10.00	2.00	X
MW-2	W2M2A	05/03/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.10		UG/L	27.10	32.10	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	W31SSA	05/02/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	81.00		UG/L	7.30	12.30	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

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

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

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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	04/30/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.30	J	UG/L	47.26	57.26	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

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LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-73	W73SSA	07/09/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	50.00	J	UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	09/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	63.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	11/02/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	57.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	06/02/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	44.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	09/05/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	11/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	28.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSD	11/14/2000	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	0.00	10.00	2.00	X
MW-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	W76SSA	05/07/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.10		UG/L	14.20	24.20	2.00	X
MW-76	W76M2A	05/07/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	56.00		UG/L	34.10	44.10	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	05/07/2001	8330N	HEXAHYDRO-1,3,5-TRINITRO	28.00		UG/L	54.20	64.20	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

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

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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1997 THROUGH AUGUST 2001

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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	75.00	85.00	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
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

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LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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TABLE 3
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1997 THROUGH AUGUST 2001

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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	91.83	10.00	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	0.00	12.00	6.00	X
90WT0013	WF13XA	01/14/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	0.00	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

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LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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
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

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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)

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
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	W142M1A	01/29/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	20.00		UG/L	95.10	96.83	6.00	X
MW-142	W142M2A	01/29/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	11.00		UG/L	95.10	96.83	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-157	W157DDA	05/03/2001	SW8270	BIS(2-ETHYLHEXYL) PHTHAL	8.10		UG/L	195.60	205.60	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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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 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/16/01-8/31/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
HDA08070101AA	A08070101	08/09/2001	CRATER GRAB	0.00	0.25			8330N	2,4,6-TRINITROTOLUENE	YES
HDA08070101AA	A08070101	08/09/2001	CRATER GRAB	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HDA08070101AA	A08070101	08/09/2001	CRATER GRAB	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W153M1A	MW-153	07/24/2001	GROUNDWATER	199.00	209.00	105.90	115.90	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W16SSA	MW-16	07/23/2001	GROUNDWATER	125.00	135.00	0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W18M1A	MW-18	07/26/2001	GROUNDWATER	171.00	176.00	126.00	131.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W1M2A	MW-1	08/15/2001	GROUNDWATER	160.00	165.00	40.60	45.60	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W1M2A	MW-1	08/15/2001	GROUNDWATER	160.00	165.00	40.60	45.60	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W1SSA	MW-1	08/16/2001	GROUNDWATER	114.00	124.00	0.00	10.00	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W1SSA	MW-1	08/16/2001	GROUNDWATER	114.00	124.00	0.00	10.00	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W23M1A	MW-23	07/30/2001	GROUNDWATER	225.00	235.00	95.60	105.60	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31MMA	MW-31	08/02/2001	GROUNDWATER	113.00	123.00	23.20	33.20	8330NX	2-AMINO-4,6-DINITROTOLUENE	YES
W34M1A	MW-34	07/31/2001	GROUNDWATER	151.00	161.00	70.80	80.80	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W34M1D	MW-34	07/31/2001	GROUNDWATER	151.00	161.00	70.80	80.80	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W34M2A	MW-34	07/30/2001	GROUNDWATER	131.00	141.00	50.55	60.55	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W37M2A	MW-37	08/15/2001	GROUNDWATER	145.00	155.00	22.80	32.80	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W37M2D	MW-37	08/15/2001	GROUNDWATER	145.00	155.00	22.80	32.80	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W37M3A	MW-37	08/15/2001	GROUNDWATER	130.00	140.00	8.00	18.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W38M3A	MW-38	08/14/2001	GROUNDWATER	170.00	180.00	48.74	58.74	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W43M2A	MW-43	08/07/2001	GROUNDWATER	200.00	210.00	63.30	73.30	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W75M2A	MW-75	08/09/2001	GROUNDWATER	115.00	125.00	30.79	40.79	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76M1A	MW-76	08/13/2001	GROUNDWATER	125.00	135.00	54.88	64.88	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76M1A	MW-76	08/13/2001	GROUNDWATER	125.00	135.00	54.88	64.88	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W76M1A	MW-76	08/13/2001	GROUNDWATER	125.00	135.00	54.88	64.88	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W76M2A	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76M2A	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W76M2A	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W76M2D	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76M2D	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W76M2D	MW-76	08/13/2001	GROUNDWATER	105.00	115.00	34.72	44.72	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W76SSA	MW-76	08/10/2001	GROUNDWATER	85.00	95.00	14.74	24.74	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76SSA	MW-76	08/10/2001	GROUNDWATER	85.00	95.00	14.74	24.74	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES

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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 7/16/01-8/31/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W77M2A	MW-77	08/10/2001	GROUNDWATER	120.00	130.00	34.21	44.21	8330NX	4-AMINO-2,6-DINITROTOLUENE	YES
W77M2A	MW-77	08/10/2001	GROUNDWATER	120.00	130.00	34.21	44.21	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W77M2A	MW-77	08/10/2001	GROUNDWATER	120.00	130.00	34.21	44.21	8330NX	HEXAHYDRO-1-MONONITROSO-3	YES
W77M2A	MW-77	08/10/2001	GROUNDWATER	120.00	130.00	34.21	44.21	8330NX	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W78M2A	MW-78	08/15/2001	GROUNDWATER	115.00	125.00	34.10	44.10	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G175DPA	MW-175	07/20/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G175DPA	MW-175	07/20/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	2,6-DINITROTOLUENE	YES
G175DPA	MW-175	07/20/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DPA	MW-175	07/20/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	NITROGLYCERIN	NO
G175DPA	MW-175	07/20/2001	PROFILE	285.00	285.00	160.90	160.90	8330N	PICRIC ACID	NO
G175DQA	MW-175	07/20/2001	PROFILE	295.00	295.00	170.90	170.90	8330N	NITROGLYCERIN	NO
G175DRA	MW-175	07/20/2001	PROFILE	305.00	305.00	180.90	180.90	8330N	2,6-DINITROTOLUENE	YES
G175DRA	MW-175	07/20/2001	PROFILE	305.00	305.00	180.90	180.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DRA	MW-175	07/20/2001	PROFILE	305.00	305.00	180.90	180.90	8330N	NITROGLYCERIN	NO
G175DSA	MW-175	07/20/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	2,6-DINITROTOLUENE	YES
G175DSA	MW-175	07/20/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DSA	MW-175	07/20/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	3-NITROTOLUENE	YES
G175DSA	MW-175	07/20/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	NITROGLYCERIN	NO
G175DSA	MW-175	07/20/2001	PROFILE	315.00	315.00	190.90	190.90	8330N	PENTAERYTHRITOL TETRANITRA	NO
G175DTA	MW-175	07/20/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	2,6-DINITROTOLUENE	YES
G175DTA	MW-175	07/20/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G175DTA	MW-175	07/20/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	3-NITROTOLUENE	YES
G175DTA	MW-175	07/20/2001	PROFILE	325.00	325.00	200.90	200.90	8330N	NITROGLYCERIN	NO
G176DDA	MW-176	08/15/2001	PROFILE	160.00	160.00	46.20	46.20	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G176DFD	MW-176	08/16/2001	PROFILE	180.00	180.00	66.20	66.20	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G176DOA	MW-176	08/17/2001	PROFILE	270.00	270.00	156.20	156.20	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G176DOA	MW-176	08/17/2001	PROFILE	270.00	270.00	156.20	156.20	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G176DPA	MW-176	08/17/2001	PROFILE	280.00	280.00	166.20	166.20	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G176DPA	MW-176	08/17/2001	PROFILE	280.00	280.00	166.20	166.20	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G177DKA	MW-177	08/27/2001	PROFILE	290.00	290.00	102.50	102.50	8330N	1,3-DINITROBENZENE	NO
G177DKA	MW-177	08/27/2001	PROFILE	290.00	290.00	102.50	102.50	8330N	3-NITROTOLUENE	NO
G177DKA	MW-177	08/27/2001	PROFILE	290.00	290.00	102.50	102.50	8330N	4-NITROTOLUENE	NO

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TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/16/01-8/31/01

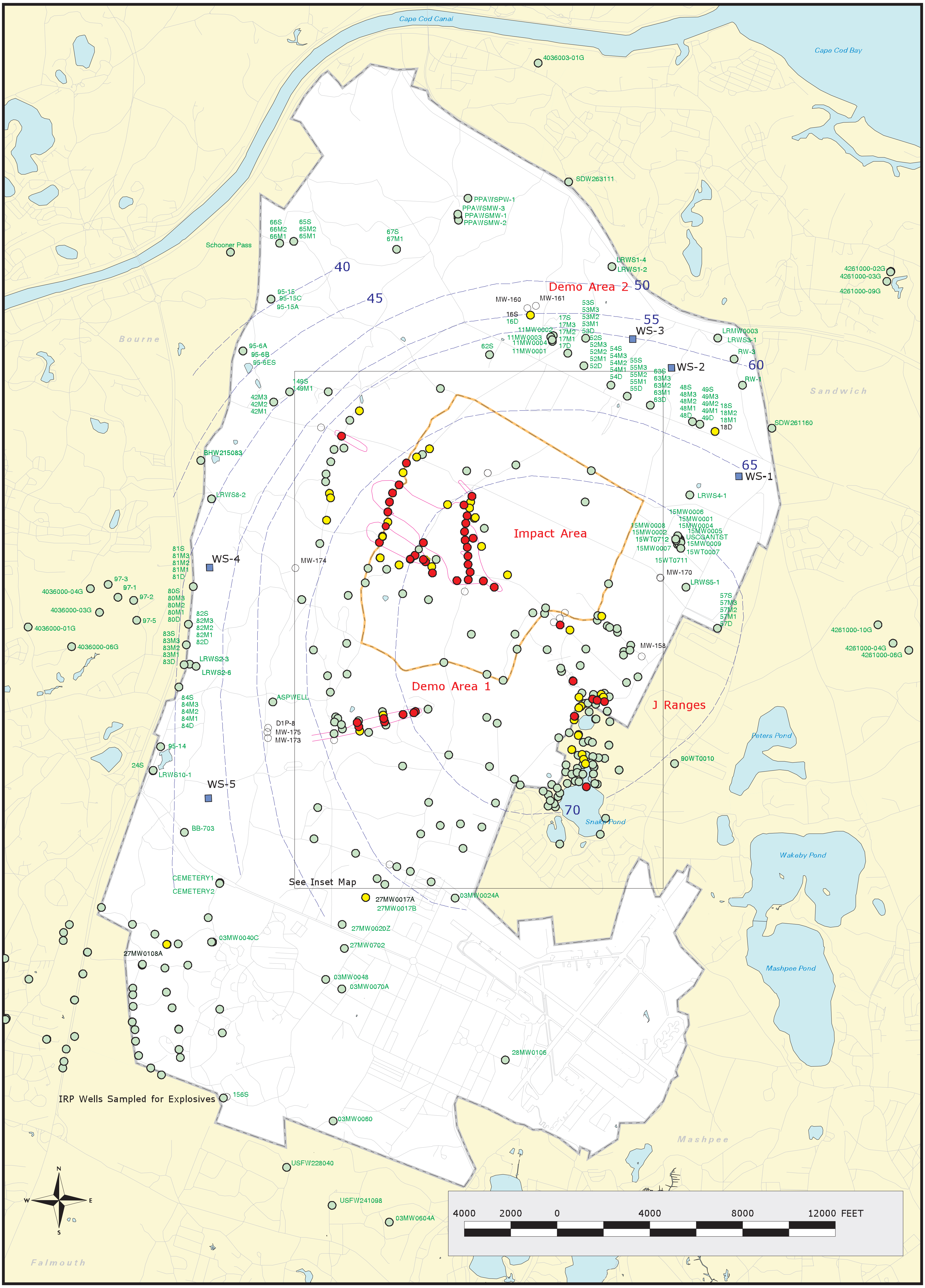
OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G177DKA	MW-177	08/27/2001	PROFILE	290.00	290.00	102.50	102.50	8330N	NITROBENZENE	NO
G177DKA	MW-177	08/27/2001	PROFILE	290.00	290.00	102.50	102.50	8330N	NITROGLYCERIN	NO
G177DKA	MW-177	08/27/2001	PROFILE	290.00	290.00	102.50	102.50	8330N	PICRIC ACID	NO
G177DLA	MW-177	08/27/2001	PROFILE	300.00	300.00	112.50	112.50	8330N	1,3-DINITROBENZENE	NO
G177DLA	MW-177	08/27/2001	PROFILE	300.00	300.00	112.50	112.50	8330N	NITROGLYCERIN	NO
G177DMA	MW-177	08/28/2001	PROFILE	310.00	310.00	122.50	122.50	8330N	1,3-DINITROBENZENE	NO
G177DMA	MW-177	08/28/2001	PROFILE	310.00	310.00	122.50	122.50	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G177DMA	MW-177	08/28/2001	PROFILE	310.00	310.00	122.50	122.50	8330N	3-NITROTOLUENE	NO
G177DMA	MW-177	08/28/2001	PROFILE	310.00	310.00	122.50	122.50	8330N	PENTAERYTHRITOL TETRANITR/	NO
G177DNA	MW-177	08/28/2001	PROFILE	320.00	320.00	132.50	132.50	8330N	1,3-DINITROBENZENE	NO
G177DNA	MW-177	08/28/2001	PROFILE	320.00	320.00	132.50	132.50	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
G177DNA	MW-177	08/28/2001	PROFILE	320.00	320.00	132.50	132.50	8330N	3-NITROTOLUENE	NO
G177DNA	MW-177	08/28/2001	PROFILE	320.00	320.00	132.50	132.50	8330N	4-NITROTOLUENE	NO
G177DNA	MW-177	08/28/2001	PROFILE	320.00	320.00	132.50	132.50	8330N	NITROGLYCERIN	NO
G177DNA	MW-177	08/28/2001	PROFILE	320.00	320.00	132.50	132.50	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	NO
G177DOA	MW-177	08/28/2001	PROFILE	330.00	330.00	142.50	142.50	8330N	1,3-DINITROBENZENE	NO
G177DOA	MW-177	08/28/2001	PROFILE	330.00	330.00	142.50	142.50	8330N	3-NITROTOLUENE	NO
G177DOA	MW-177	08/28/2001	PROFILE	330.00	330.00	142.50	142.50	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
G177DOA	MW-177	08/28/2001	PROFILE	330.00	330.00	142.50	142.50	8330N	4-NITROTOLUENE	NO
G177DOA	MW-177	08/28/2001	PROFILE	330.00	330.00	142.50	142.50	8330N	NITROGLYCERIN	NO
G177DOA	MW-177	08/28/2001	PROFILE	330.00	330.00	142.50	142.50	8330N	PICRIC ACID	NO
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50	8330N	1,3-DINITROBENZENE	NO
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50	8330N	3-NITROTOLUENE	NO
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50	8330N	4-NITROTOLUENE	NOI
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50	8330N	NITROBENZENE	YES
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50	8330N	NITROGLYCERIN	NO
G177DPA	MW-177	08/28/2001	PROFILE	340.00	340.00	152.50	152.50	8330N	PICRIC ACID	NO
G177DRD	MW-177	08/28/2001	PROFILE	360.00	360.00	172.50	172.50	8330N	1,3-DINITROBENZENE	NO
G177DRD	MW-177	08/28/2001	PROFILE	360.00	360.00	172.50	172.50	8330N	4-NITROTOLUENE	NO
G177DRD	MW-177	08/28/2001	PROFILE	360.00	360.00	172.50	172.50	8330N	PICRIC ACID	NO
G177DSA	MW-177	08/29/2001	PROFILE	370.00	370.00	182.50	182.50	8330N	1,3-DINITROBENZENE	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

TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/16/01-8/31/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G177DSA	MW-177	08/29/2001	PROFILE	370.00	370.00	182.50	182.50	8330N	3-NITROTOLUENE	NO
G177DSA	MW-177	08/29/2001	PROFILE	370.00	370.00	182.50	182.50	8330N	4-NITROTOLUENE	NO
G177DSA	MW-177	08/29/2001	PROFILE	370.00	370.00	182.50	182.50	8330N	NITROGLYCERIN	NO
G177DSA	MW-177	08/29/2001	PROFILE	370.00	370.00	182.50	182.50	8330N	PICRIC ACID	NO
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	1,3-DINITROBENZENE	NO
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	2,4,6-TRINITROTOLUENE	YES
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	2,4-DINITROTOLUENE	YES
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	3-NITROTOLUENE	NO
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	4-NITROTOLUENE	NO
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	NITROBENZENE	NO
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	NITROGLYCERIN	NO
G177DTA	MW-177	08/29/2001	PROFILE	380.00	380.00	192.50	192.50	8330N	PICRIC ACID	NO
G177DUA	MW-177	08/29/2001	PROFILE	390.00	390.00	202.50	202.50	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

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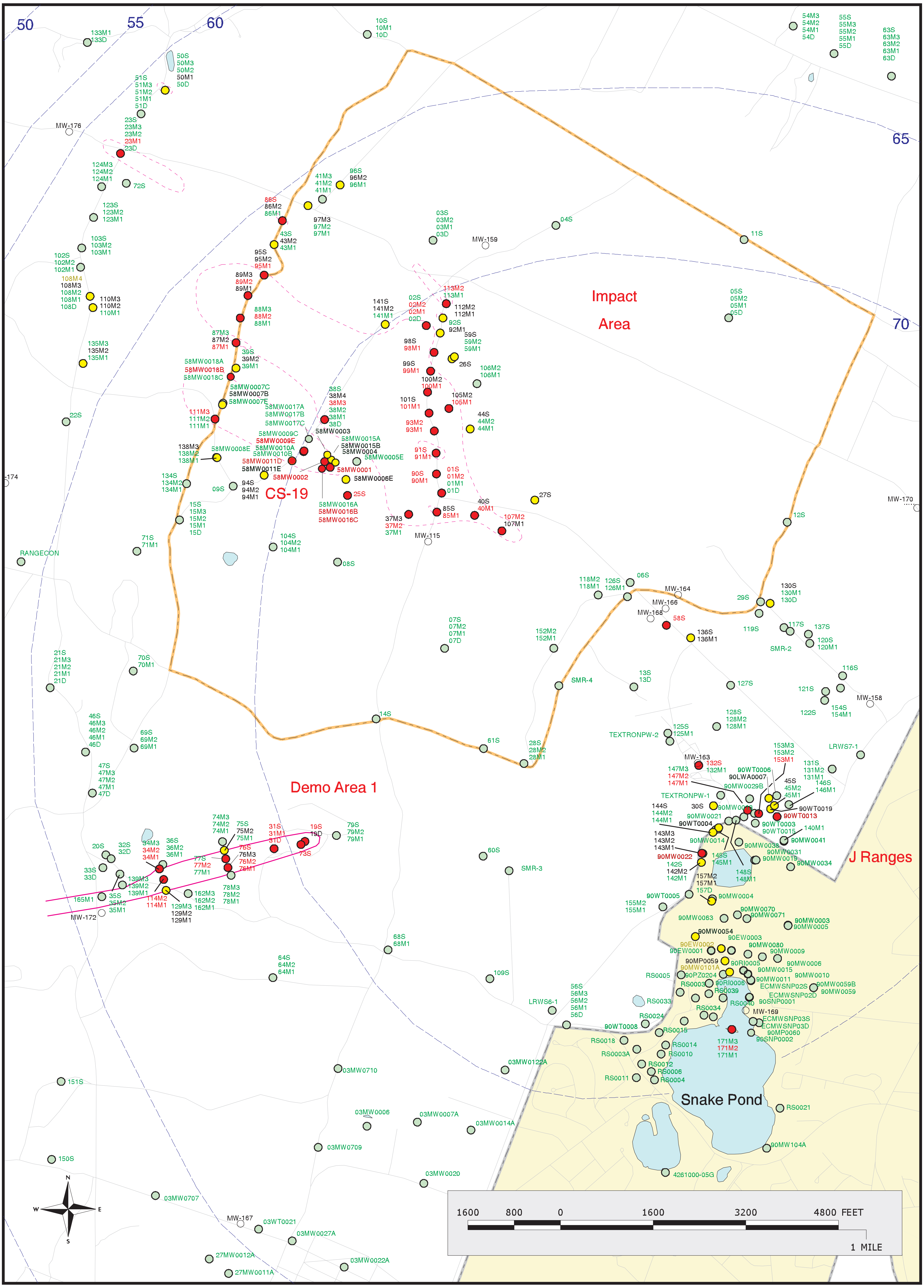
IAGWSP

Figure 1

Explosives in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01

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

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Impact Area Groundwater Study Program

Figure 1 - INSET MAP
Explosives in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01
Analyte Group
1

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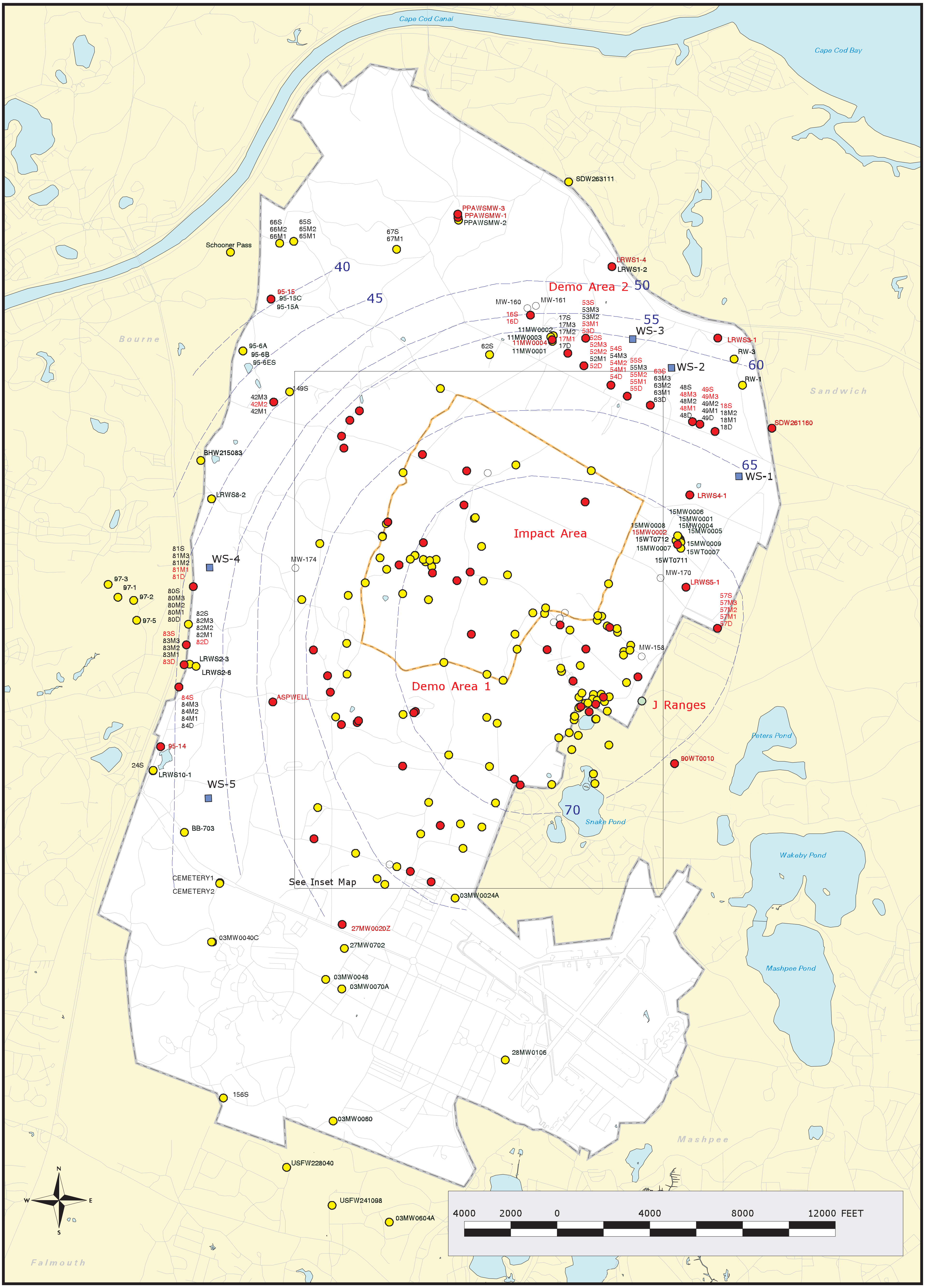

LEGEND

- 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

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Impact Area Groundwater Study Program

Figure 2
Metals in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01
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2

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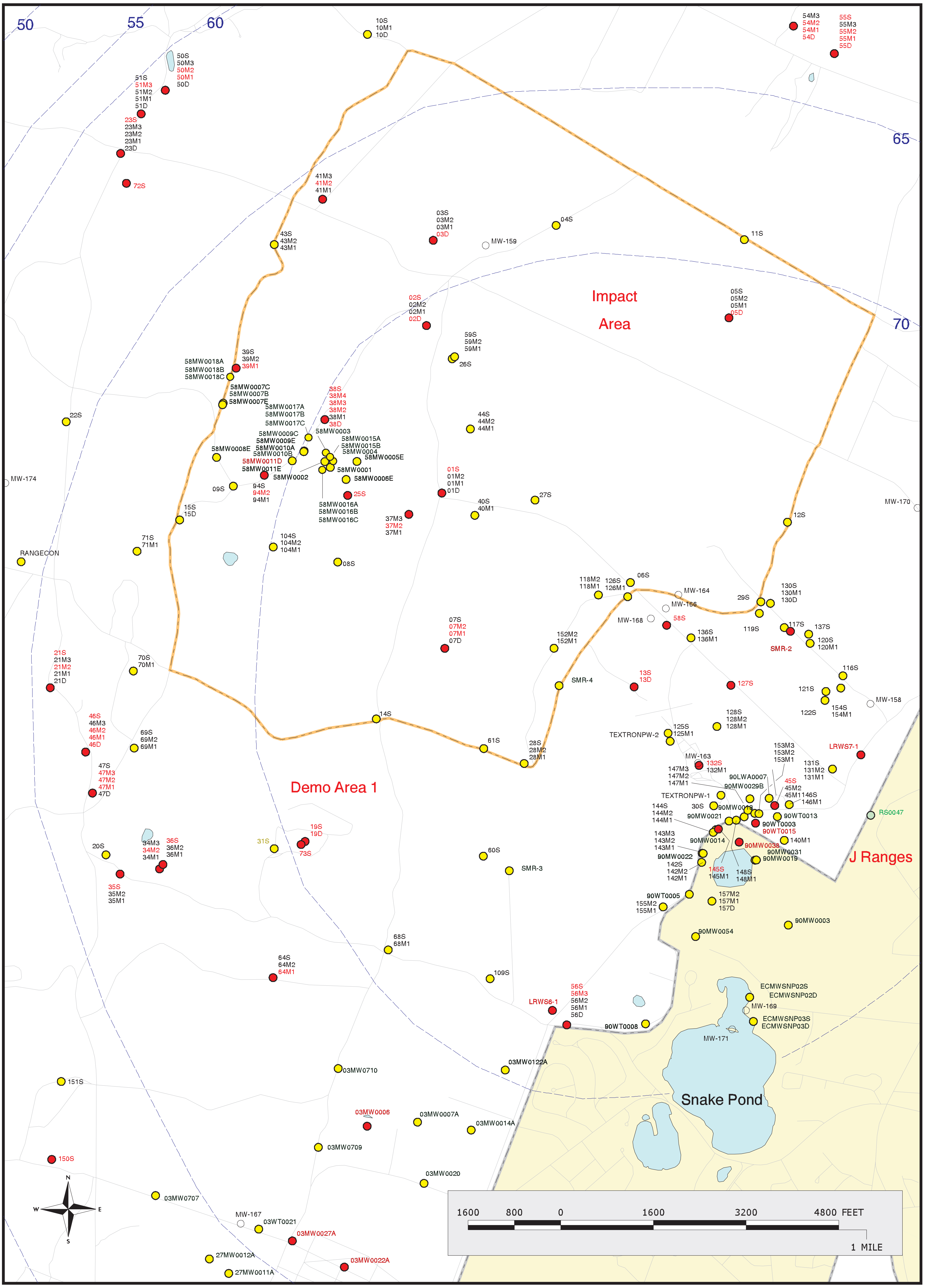

LEGEND
- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

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

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Impact Area Groundwater Study Program

Figure 2 - INSET MAP
Metals in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01
Analyte Group
2

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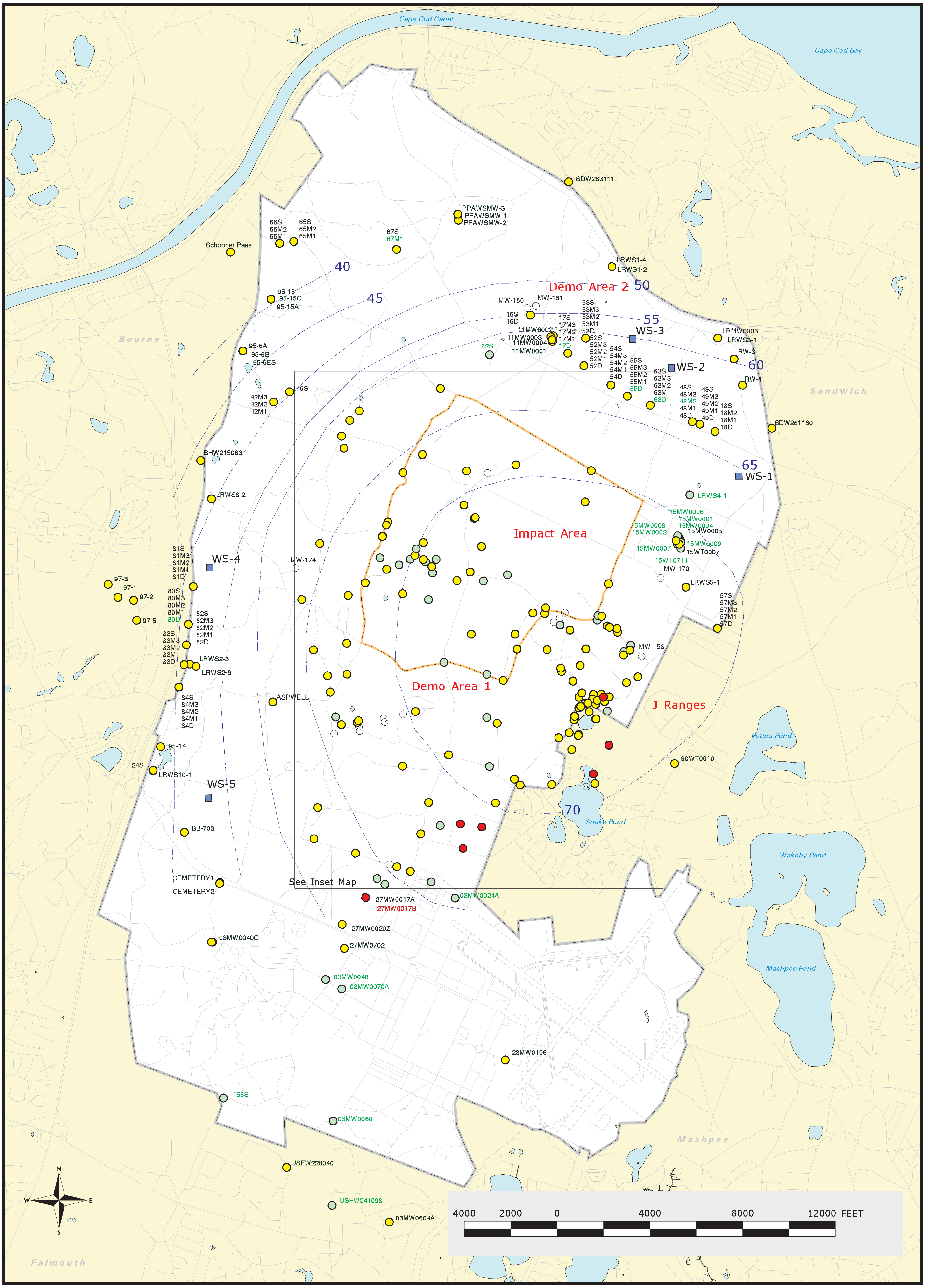

LEGEND

- 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 3

VOCs in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01

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3

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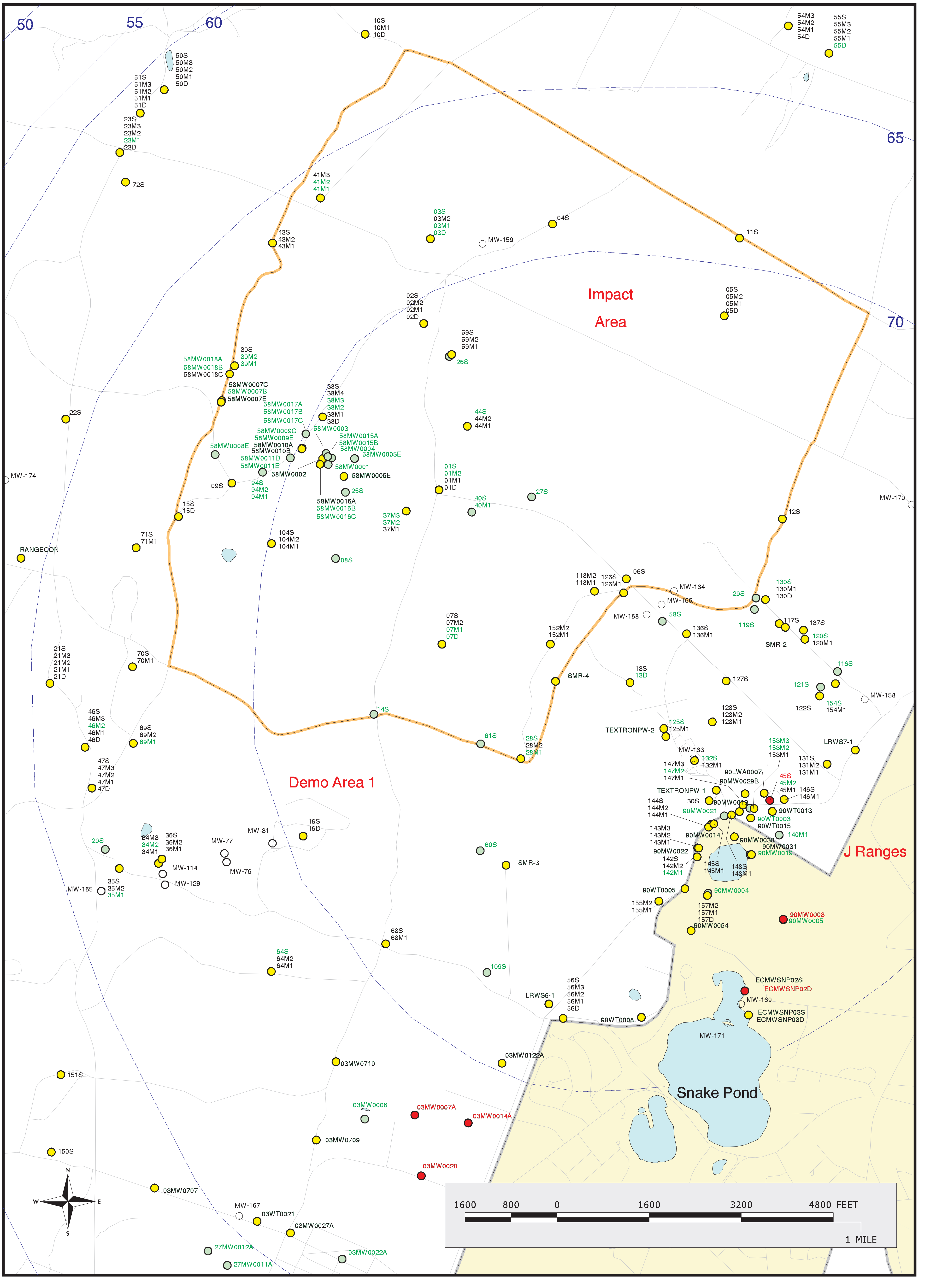

LEGEND

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

Figure 3 - INSET MAP

VOCs in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01

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Sources & Notes

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

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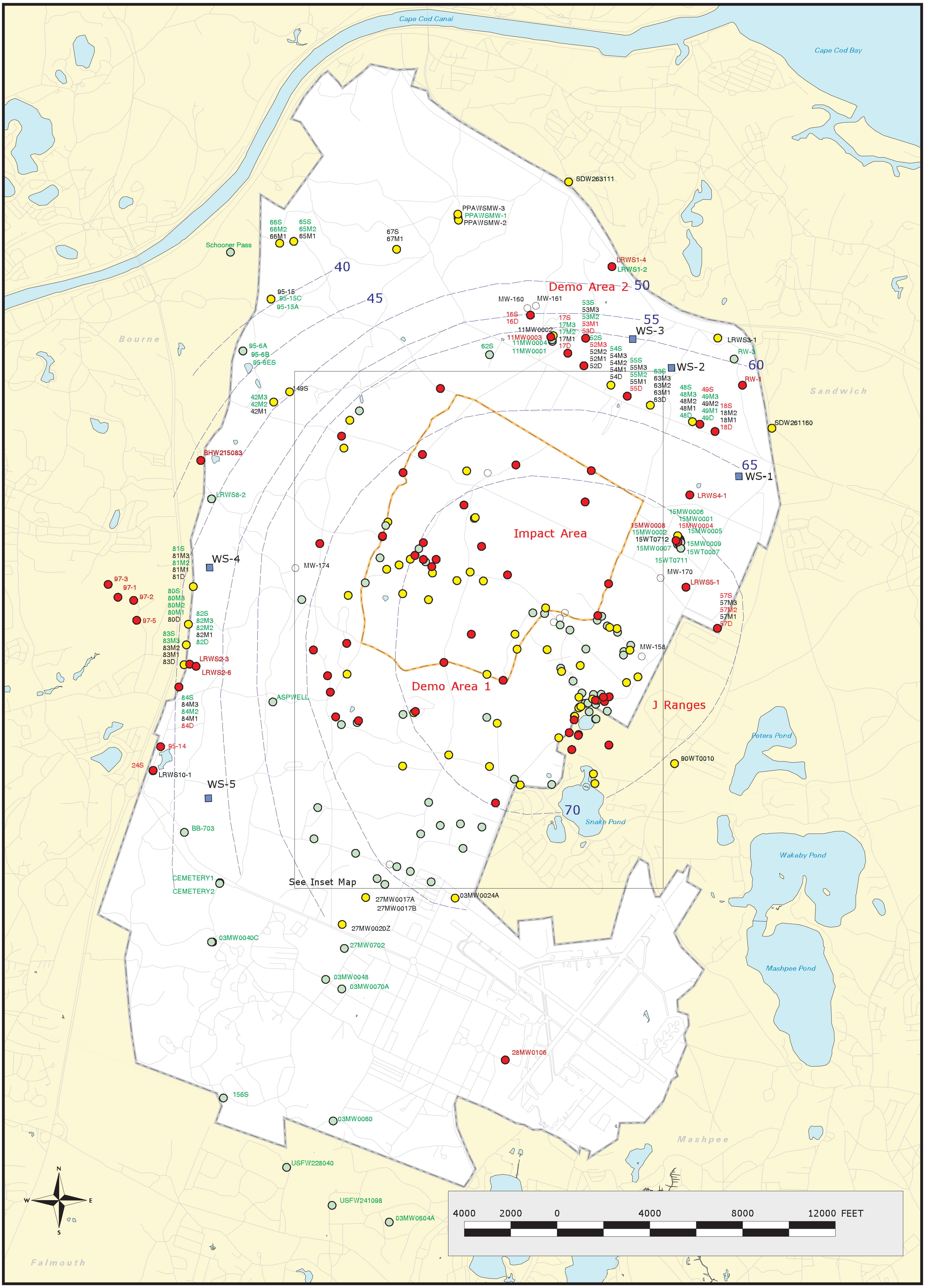

LEGEND

- 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,
NADS3, FIPsZone 2001, Units: Meters

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Figure 4
SVOCs in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01
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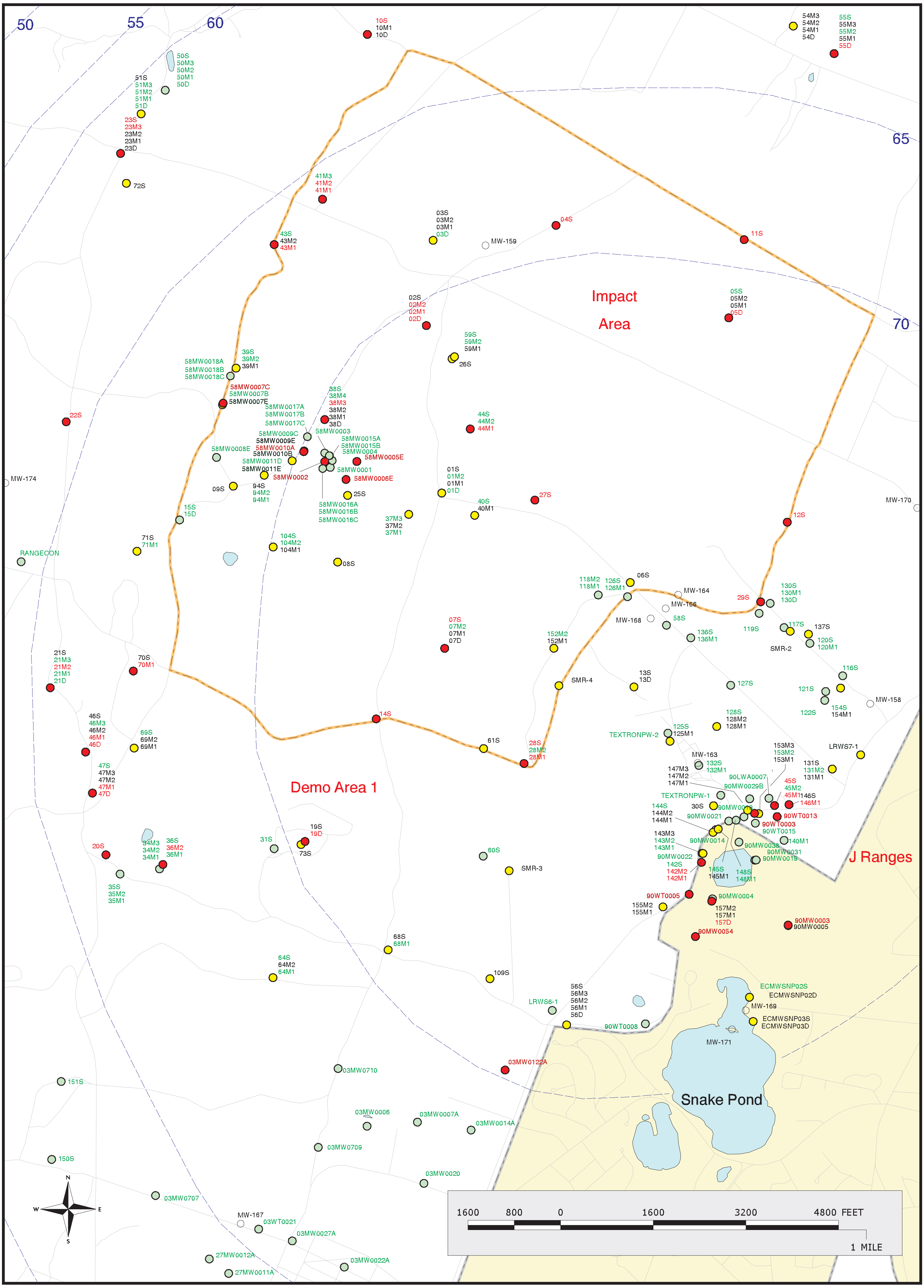

LEGEND

- 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

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Figure 4 - INSET MAP
SVOCs in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01
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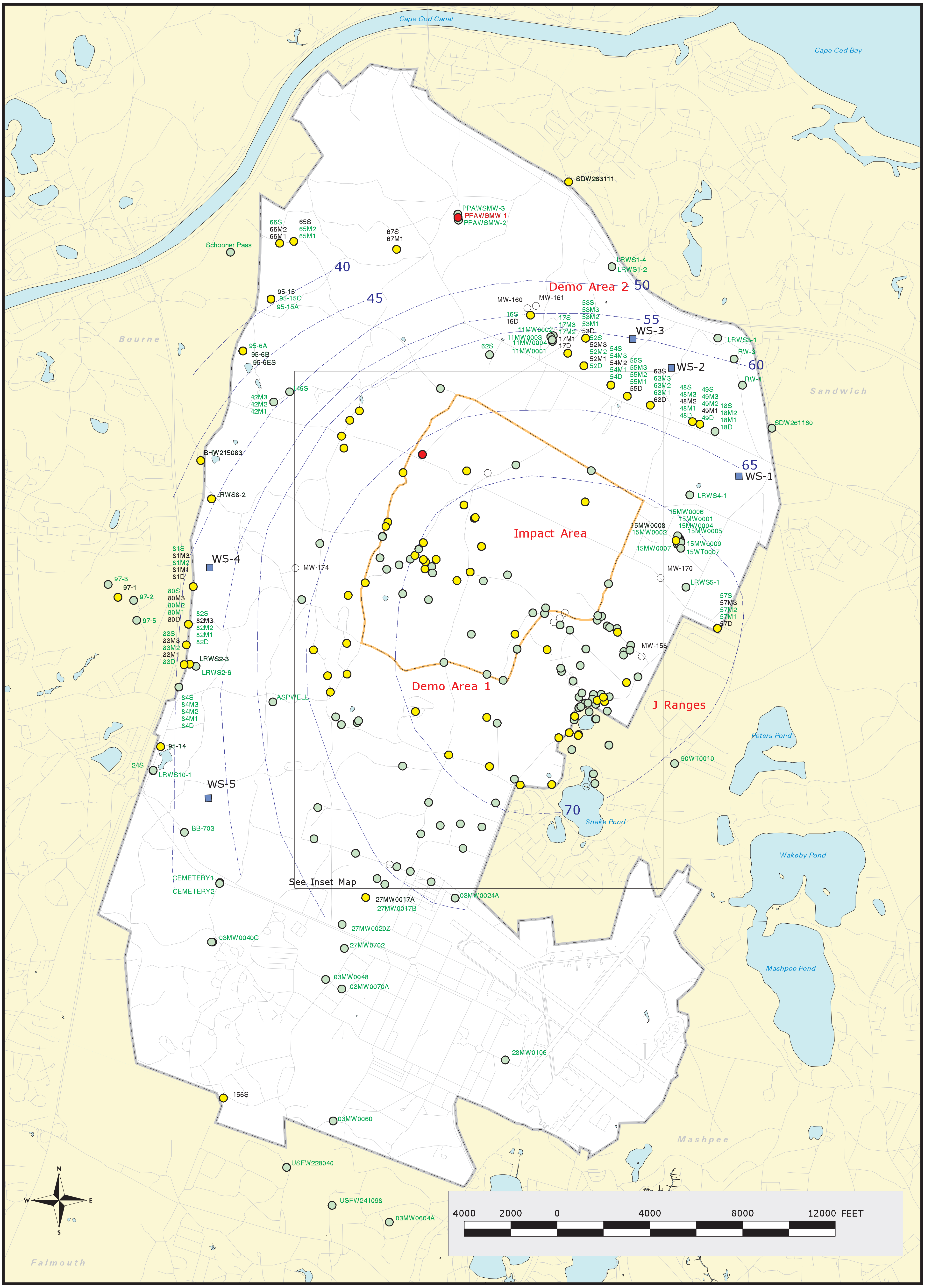

LEGEND

- 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 08/24/01

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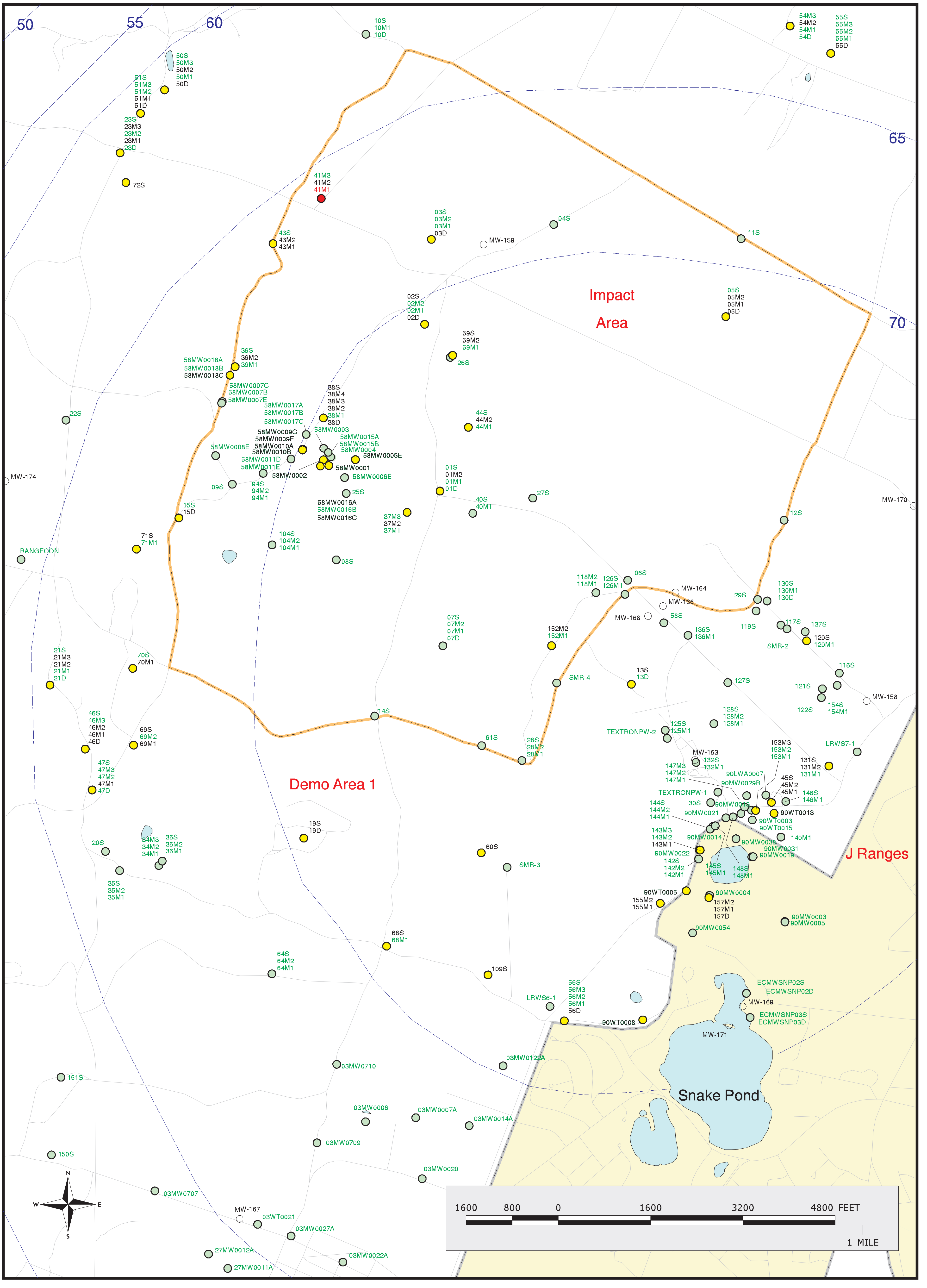

LEGEND

- 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

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Figure 5 - INSET MAP
Herbicides and Pesticides in Groundwater
Compared to MCL/HAs
Validated Data as of 08/24/01
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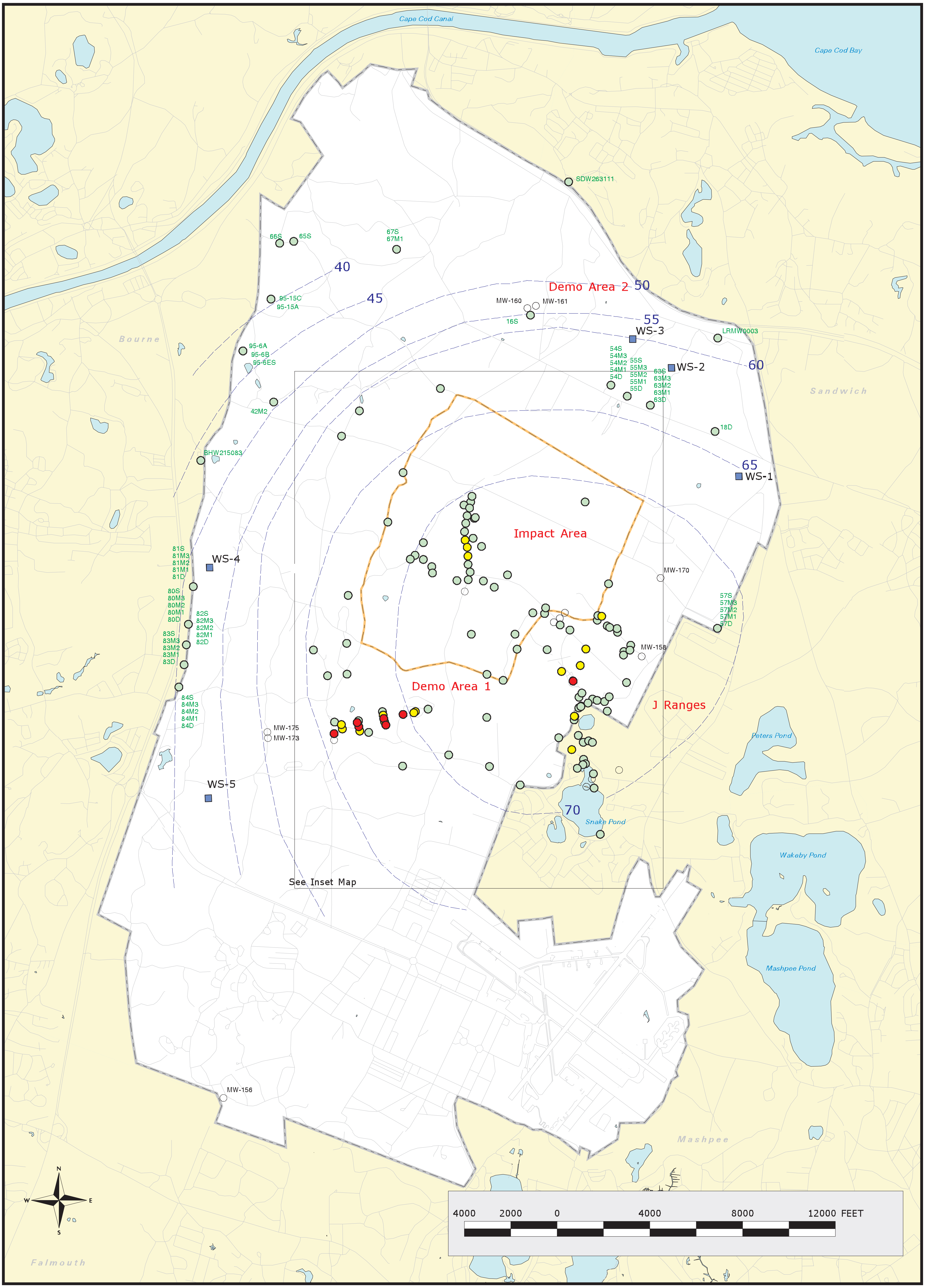

LEGEND

- 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,
NADS3, FIPsZone 2001, Units: Meters

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Figure 6
Perchlorate in Groundwater
Compared to Safe Exposure Limit
Validated Data as of 08/24/01
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6

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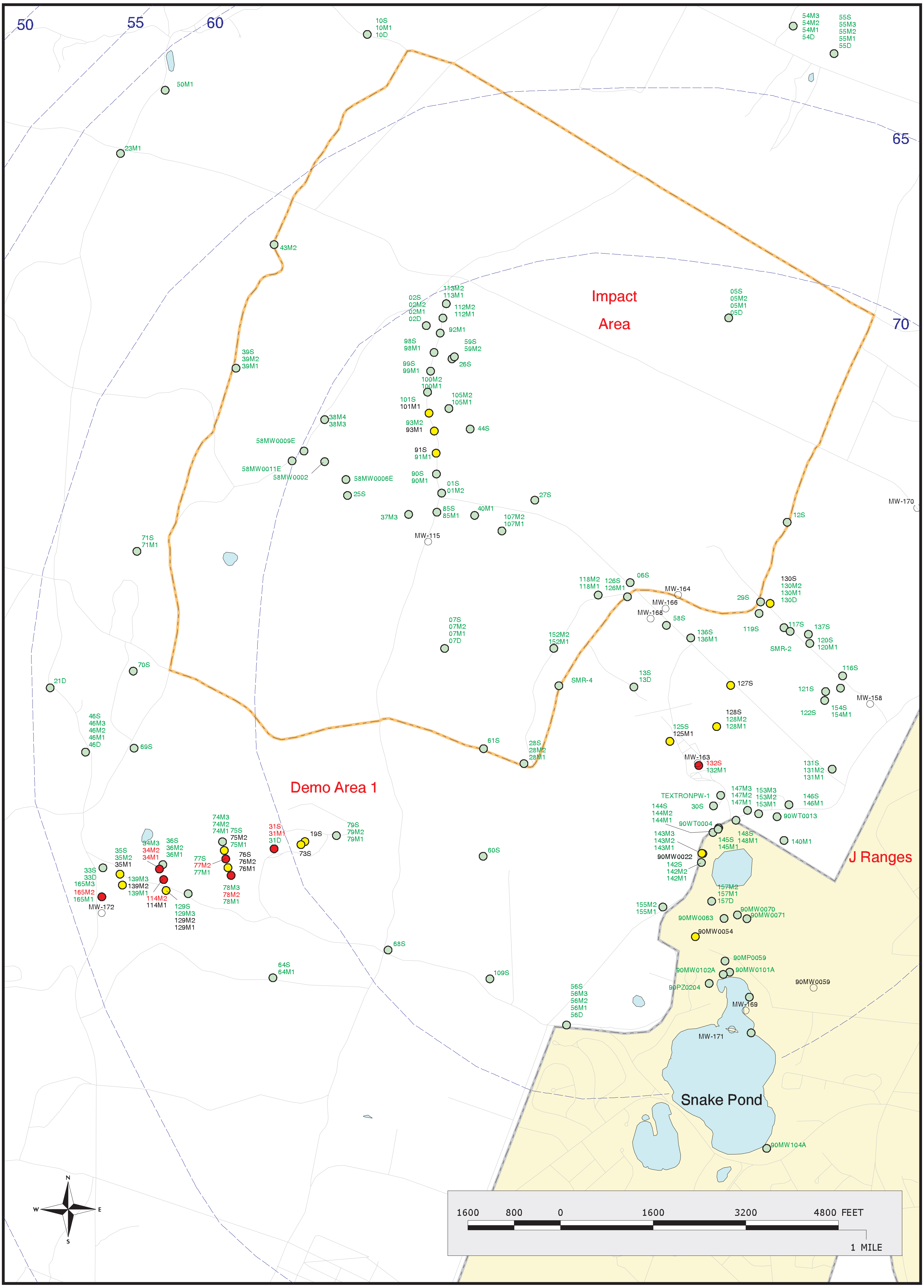

LEGEND

- 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

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Figure 6 - INSET MAP

Perchlorate in Groundwater
Compared to Safe Exposure Limit
Validated Data as of 08/24/01

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6

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