

**WEEKLY PROGRESS UPDATE
FOR JANUARY 20 – JANUARY 24, 2003**

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

The following summary of progress is for the period from January 20 through January 24, 2003.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of January 24 is summarized in Table 1.

Table 1. Drilling progress as of January 24, 2003				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-256	Central Impact Area (CIAP-26)	210	81	
MW-257	Base WS-4 sentry well (WS4P-4)	210	65	
bgs = below ground surface				
bwt = below water table				

Commenced drilling of MW-256 (CIAP-26) and MW-257 (WS4P-4).

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-256 and MW-257. Groundwater samples were collected from Bourne water supply, monitoring wells and spring, as part of the December Long Term Groundwater monitoring round, and from recently installed wells.

The following are the notes from the January 23, 2003 Technical Team meeting of the Groundwater Program at Camp Edwards:

Participants

Hap Gonser (AEC)	Tina Dolen (MAARNG)	Dave Hill (IMAARNG)
Bill Gallagher (MAARNG)	Karen Wilson (MAARNG)	LTC Bill FitzPatrick (E&RC)
Todd Borci (EPA)	Meghan Cassidy (EPA)	Jane Dolan (EPA)
Desiree Moyer (EPA)	Jim Murphy (EPA)	Len Pinaud (MADEP)
Mark Panni (MADEP)	Ellie Grillo (MADEP)	Dave Williams (MDPH)
Gina Kaso (ACE)	Ed Wise (ACE)	Heather Sullivan (ACE)
Don Wood (ACE)	Rob Foti (ACE)	Sheila Holt (ACE)
Katarzyna Chelkowska (ACE)	Darrin Smith (ACE)	Marc Grant (AMEC)
John Rice (AMEC)	Kim Harriz (AMEC)	Dick Skryness (ECC)
Larry Panell (Jacobs)	Susan Stewart (Tt-phone)	

Punchlist Items

- #5 Provide comments on MW-219 Corrective Action Report (EPA/MADEP). No comments available to date.
- #6 Provide ASR inquiry letter for Indian Head NAVSTA and Tyndall AFB for EPA review (Corps). Letters to be sent out next week.
- #7 Provide EPA/DEP needs assessment for J-3 GW Pilot test for perchlorate treatment (Corps). Email response to be provided by the end of the week.
- #9 Provide draft CIA perchlorate plume map (Corps). Preliminary cross-sections maps distributed at meeting. Additional geology information is being added to the cross sections.
- #10 Provide Forward Particle Tracks from key northern detections in Monument Beach Well field monitor wells (Corps). Two particle track figures were distributed at the meeting.
- #11 Provide reconciled list of items found from J-2 Range Polygons (Corps). List will be available in approximately 2 weeks.
- #16 Provide records search for past releases in the vicinity of well 40360009 (MADEP). Mark Panni indicated MADEP did not have any record of releases in this area.
- #20 Renew access agreements for PZ208 and PZ211 (Corps). Corps obtained a verbal agreement from the new property owners to sample PZ211. Two-day notification to the owners needs to be provided prior to sampling. Corps may proceed to obtain a written agreement. A letter is being sent to the property owners of PZ208. Jane Dolan (EPA) requested that EPA be provided with the letters being forwarded to the property owners.
- #21 Provide list of monitoring wells with outstanding data with biweekly explosives report (Corps). Guard indicated executing this request would require additional effort over what is currently completed for biweekly reporting. Sampling information is already provided weekly in the Progress Updates, therefore this information will not be provided with the biweekly explosives update.
- #22 Provide direction on preferred form of deliverables; and the official form constituting receipt under the AO (EPA/MADEP). MADEP indicated they preferred electronic deliverables, either by email or CD for larger files. EPA indicated the preferred format varied dependent on the deliverable. A hard copy signature constituted official receipt of a document, however they had accepted fax signatures as official receipt in the past.

Northwest Corner of MMR

Bill Gallagher (MAARNG) summarized the Guard's proposed activities to initiate investigation of Northwest Corner of the base, where perchlorate has been detected in monitoring wells and former supply wells. A plan view map and cross section of the northwest corner were distributed.

- The Guard is conducting the following activities:
 - 1) Looking for spill information in the vicinity of Well 4036009. Mark Panni (MADEP) had indicated that the spill that had been discussed in last week's Tech meeting might have occurred in a different area. However, there still may be monitoring wells in the vicinity of Well 4036009 and the Corps is investigating information regarding these wells for possible sampling and analysis for perchlorate. Any information provided by these wells, which would have a defined screen interval, would likely be useful in assessing the source of perchlorate detections in Well 4036009, which does not have a defined screen interval.
 - 2) Looking for additional information on the 95-15 well series installed by AFCEE. The Groundwater Program currently samples two wells in this series, which are immediately upgradient of the Regional Technical School Well. These wells are seen as more useful (and easier) to sample than the Tech School well since they have defined screen intervals and the Tech School well does not. Wells in this series in addition to those sampled under the current monitoring are known to exist. Rose Forbes (AFCEE) has been contacted for well location and construction information.

- 3) Proposed to install a monitor well at the base boundary, upgradient of Well 4036009 on the particle backtrack. This well to provide information on the source of the detection of perchlorate in Well 4036009. And provide a southern boundary to perchlorate detected in MW-66S at GP-16.
 - 4) Investigate location of private well noted on Schooner Pass' WWT permit application and located north of MW-66 just beyond the MMR boundary.
- Tina Dolen (MAARNG) inquired about the Porto' Call development, if any well development was occurring for that property. Mr. Gallagher stated that this property development was on hold. A brief discussion followed regarding where and which housing development was being discussed.
 - Todd Borci (EPA) inquired about results from explosives analysis at the Schooner Pass well, if the chromatograms had been reviewed to determine if explosives were detected below reporting limits. In Mr. Borci's opinion this information would be useful for establishing the consistency of the groundwater quality at this location, since below reporting limit concentrations of RDX had been observed in all past analyses for the well. Mr. Gallagher indicated the Guard/Corps would discuss this issue internally, prior to providing a response.
 - Len Pinaud (MADEP) pointed out that the proposed well location was nearly 3000 feet upgradient of Well 4036009. Mr. Pinaud favored a location closer to Well 4036009. Mr. Gallagher noted that a closer location was not considered because of the logistical concerns of drilling on private property.
 - Jane Dolan (EPA) indicated the proposed well on a backtrack from Well 4036009 seemed to be an appropriate location, but inquired as to what the Guard's plan was to further investigate detections of perchlorate in MW-66 just to the north.
 - Mr. Pinaud further questioned what the Guard's follow-on approach would be if a detection was or was not observed in the proposed monitoring well. Mr. Pinaud stated MADEP would not agree with any drilling locations until they were presented with written documentation (at least an email) of how a proposed well would fit into the broader plan of investigation, including:
 - Investigation objectives
 - A conceptual site model
 - Data quality objectives
 - Investigation approach
 - Proposed follow-on steps
 - Hap Gonser (ACE) concurred this was a reasonable request.
 - Guard to outline the objectives and approach for the Northwest Corner of the base in a letter to the agencies to be submitted in two weeks.

CDC Progress Update

Frank Fedele (ACE) provided an update on CDC progress.

- Since the last update, the CDC had been operational for six days. During that time period 2,258 items were destroyed for a total of 7,260 destroyed through last Thursday, 1/16. 10,850 items remain; the majority are 20MM rounds.
- The CDC was back into operation starting today, the first day this week. The Corps is currently working on procuring the services of the CDC into the first few weeks of February, if needed.
- Jane Dolan asked how the 40MM rounds were being addressed. Mr. Fedele indicated, as stated in the Guard's 12/12/02 letter, the Corps was exploring options for their disposal. The Corps is expecting a white paper presenting alternatives from their contractor in the next couple weeks.
- Todd Borci inquired if the 20MM lot numbers were being recorded to identify a source of the munitions. Mr. Fedele to check with Nick Iaiennaro (ACE).

MSP3 and Southeast Ranges Update

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

Ox Pond. The Schonstedt survey was completed. A draft map of findings should be available next week.

Former Demo sites (Inactive Demo sites). The Schonstedt survey is scheduled to begin next Tuesday, 1/28, followed by the EM61 survey.

NBC Ranges. Preparation work has been completed. EM61 Survey is scheduled to begin on Tuesday, 1/28.

Drilling In SE Ranges – J1P-18 (MW-253) is being developed.

- Todd Borci indicated a letter was sent to the Guard yesterday requesting the implementation of the J-3 Range MSP3 Workplan. The request was made knowing that work at lower priority areas such as the Former Demo areas, were initiated this week and therefore, resources could be shifted to accommodate this work. EPA's request to be discussed in an After Meeting.

Bourne Update

Bill Gallagher (MAARNG) summarized issues related to the Bourne area.

- Four of five ROAs for proposed upgradient wells were submitted for Karen Wilson's review this week.
- Results of resampling of 1-88A and from sampling 1-88B were non detect. Reanalysis of the 12/30 sample from 1-88A experienced matrix interference. A material (possibly Liquinox from cleaning the pump) appeared to be co-eluting with perchlorate and obscuring the perchlorate peak on the chromatogram. The sample has been sent to STL Denver for LCMS analysis, which will not be effected by the interferent compound. 1-88A has had 2 rounds of non-detect since the unvalidated detection of 1.24 ug/L in December.
- Revised Bourne plume map was distributed. This map had been revised from the previous draft presented at the last Bourne meeting, by including only wells in the plume with three consecutive detects, removing the 1 ppb contour, and removing the shading. BWD and Haley & Ward were not in favor of distributing the previous draft of the map out of concern of alarming the public unnecessarily. BWD and Haley & Ward had not reviewed the latest mapped revision.

Documents and Schedules

Marc Grant (AMEC) reviewed priorities for documents submitted to the agencies and dates for several comment resolution meetings.

- Priorities:
- 1) HUTA2 All Transect Report comments
 - 2) HUTA1 additional comments
 - 3) G&M COC Letter Report comments – Per last week's Tech meeting, EPA stated they were focusing on this letter as their top priority.
- CRMs:
- 1) Lab F&T Studies. EPA to check with contractor.
 - 2) TM 01-1 Soil Background Supplement. EPA is close on providing contractor comments, will discuss in after meeting. Requires decision on how to proceed from Guard.
 - 3) TM 02-2 Small Arms Ranges Report. Scheduled for 2/06.
 - 4) TM 02-4 Method Comparability Study for Explosives in Soil. EPA concurrence on 1/22, MADEP sending concurrence tomorrow, 1/24.
 - 5) MSP3 J-1 and J-3 Range Polygon Report: TBD.

Miscellaneous

- Todd Borci requested an updated range use schedule that indicated which Gun Positions and Small Arms Ranges are planned to be used.

2. SUMMARY OF DATA RECEIVED

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

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

Table 3 includes detections from the following areas:

Bourne Area

- Groundwater samples from 02-01M2; 02-03M2; 02-05M1, M2, M3; 02-09M1, M2 and duplicate had detections of perchlorate. The results were similar to the previous sampling rounds.
- Groundwater samples from 02-10M1, M2, M3 and 02-15M1, M2, M3 had detections of chloroform.

Central Impact Area and Downgradient

- Groundwater samples from MW-99M1, MW-108M4, MW-135M2, and MW-178M1 had detections of explosives that were confirmed by PDA spectra. The results were similar to the previous sampling rounds.

Southeast Ranges

- Groundwater samples from 90MW0019, 90WT0003, and 90WT0006 had detections of various explosives that were not confirmed by PDA spectra. There have never been validated detections of explosives in these wells.
- Groundwater samples from 90MW0022 had detections of nitroglycerin and 1,3,5-trinitrobenzene that were not confirmed by PDA spectra. There have never been validated detections of these explosives in this well.
- Groundwater samples from 90MW0034 and 90WT0004 had detections of explosives that were confirmed by PDA spectra. The results were similar to the previous sampling rounds.

DELIVERABLES SUBMITTED

Weekly Progress Update for January 6 – January 10, 2003	01/20/2003
Draft RRA/RAM Plan Demo 1 Groundwater Operable Unit	01/21/2002
Weekly Progress Update for January 13 – January 17, 2003	01/24/2003

3. SCHEDULED ACTIONS

Scheduled actions for the week of January 27 include complete drilling of MW-256 (CIAP-28) and MW-257 (WS4P-4), and commence drilling of MW-258 (D1P-17). Groundwater sampling at the Bourne water supply and monitoring wells and as part of the December LTGM round will continue.

4. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume is being conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit and as the Interim Action for groundwater remediation is being designed. Drilling at D1P-17 will commence the week of January 27.

Pumping and treating groundwater at the toe of the Demo 1 plume and at Frank Perkins Road has been selected as an Interim Action to address the Demo 1 Area Groundwater Operable Unit. The Draft RRA/RAM Plan, describing this action, was submitted to the agencies and the IART on January 21, 2003. The informal public comment period on this document begins on January 28, 2003 and extends until February 11, 2003. A Rapid Response Action/Release Abatement Measure (RRA/RAM) is also being planned to address soil contamination at Demo 1.