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MINUTES FROM ENVIRONMENTAL CLEANUP PROJECT TEAM MEETING DATED 9 JUNE  
1998 CNC CHARLESTON SC  
6/9/1998

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Minutes**

**Date:** 6/9/98

**Place:** NH-C/Project Team Room

**Time:** 0800 - 1700

**Attendees:** Tony Hunt, Reese Batten, Daryle Fontenot, Dann Spariosu, Paul Bergstrand  
Johnny Tapia, Ann Clark, Dave Backus, Todd Haverkost Joe Land

**Invited Guests:** Ted Blahnik, Larry Bowers, Don Cook (EnSafe), Jeri Johnson (RDA), Tom  
Fresilli (BCO), Kevin Tunstall (DET)

**Leader:** Todd Haverkost

**Scribe:** Dave Backus

**Discussion/Decisions**

9806-M309	Joe	<p><b>Team Performance Survey Results</b></p> <ul style="list-style-type: none"> <li>• All members rated our team as “performing”</li> <li>• Results showed greatest areas for improvement:             <ul style="list-style-type: none"> <li>- Quality</li> <li>- Schedules</li> <li>- Interpersonal Skills</li> <li>- Team Norms</li> </ul> </li> </ul> <p>Areas that were identified for “We could do better as a Team”:</p> <ul style="list-style-type: none"> <li>- Clear written communication</li> <li>- Recognize/document successes</li> <li>- Innovative thinking</li> <li>- Advance information</li> <li>- Less paper/ more work at the table</li> <li>- Meet schedules</li> <li>- Follow through on new information</li> <li>- Time management/schedules</li> <li>- Clean/turn-over of sites</li> <li>- Trust (90% rule)</li> </ul>
9806-M310	Johnny	<p><b>Zone A RFI Report Comments</b></p> <ul style="list-style-type: none"> <li>• Dioxin results should be screened against the RBC, not EPA’s 1ppb standard.</li> <li>• If SWMU 1 is to be separate from SWMU 2, it will require a SWMU 1-specific risk assessment. Report will be revised to clearly separate 1 from 2. SWMU 1 will have its own risk assessment and recommendations.</li> <li>• Johnny has concern that well 05 at SWMU 2 was abandoned, but had the highest contaminant detections of all the SWMU 2 wells. This well has been damaged by heavy equipment and was abandoned due to the damage sustained to its surface completion. This well was also very turbid and never cleared up during original development. Suggestion made to proceed with soil remediation, then install additional wells to further assess groundwater concerns. Johnny stated that the RFI Report should clearly explain the plans for further groundwater assessment at this site.</li> </ul>

99806-M310	Jjohnny	<p>The Navy has no plans to address the TPH issue if it can be shown that it resulted from a non-regulated application of petroleum products. Need explanation of why well 04 at SWMU 38 was sampled for metals only.</p> <ul style="list-style-type: none"> <li>• SWMU 38 section has 2 missing pages in the risk section (59 &amp; 60).</li> <li>• SWMU 39 – Clarification on overlap of screened intervals. Todd indicates that overlap should not be more than a foot at a few wells, and EnSafe never screens across confining units.</li> <li>• Johnny would like to see 1,2-Dibromochloropropane included in the risk assessment for groundwater at SWMU 39. Dann suggested adding a sentence stating that the addition of this constituent to the assessment would not change the risk outcome.</li> <li>• Check to see if a page is missing from Table - 10.4.31 (VOC list seems short).</li> <li>• Check Table - 10.4.37, EPC's are lower than highest detections in the plume.</li> <li>• Table - 10.4.51 has missing MCL's</li> <li>• Need discussion of QC Data when chemicals are eliminated from consideration in the risk assessment.</li> <li>• Paul is curious about Quarterly Groundwater Monitoring.</li> <li>• Possible oil/water separator and possible septic tank, make sure that investigation of these is not lost.</li> <li>• SWMU 43 – Recommendation is for NFA, but there were exceedances for methylene chloride and chromium at one sub-surface soil sample.</li> <li>• Additional geo-probe was performed at this site due to methylene chloride. None was detected in groundwater.</li> <li>• Grid-based sampling - High arsenic at soil boring 06.</li> <li>• Did additional sampling, but no discussion of results in report. Johnny recommends removing the soil at this location with no CMS follow up.</li> <li>• Once these changes are made, Johnny is comfortable with conditional approval pending Paul's comments.</li> </ul> <p><b>EnSafe was given 2 weeks to submit these changes.</b></p>
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9806 - M311	Tony	<p><b>SWMU 25 Update</b>  Lines in the electric vault are still energized.</p> <p>Water was pumped out and found to be non-hazardous, but had a pH of greater than 12.</p> <p>DET will not work in the vault if the lines are energized.</p> <p>SCE&amp;G is not satisfied that the vault is not a hazardous atmosphere.</p> <p>Suggestion made to have Reece talk directly to SCE&amp;G about their concerns with the perceived hazards in the vault.</p>
9806 - M312	Tony	<p><b>AOC 678 Discussion</b>  4 - World War II era underground storage tanks have been identified in records.</p> <p>The SDIV UST Program has agreed to investigate whether the tanks are still present.</p> <p>When the storage tank associated with the O/W Separator was removed, there was evidence of a petroleum release. DET excavated soil from the back of NS-26 toward the river.</p> <p>Site has evolved into 2 issues:  1) Historic underground petroleum tanks, DPT results showed low-level VOC's &amp; SVOC's in the area of the tanks.  2) Second issue stemmed from process closure work with the O/W Separator. Wells surrounding NS-26 have detected solvents. Once we have the results of the UST detections, we will have a better idea of how many additional samples are needed.</p>
9806 - M313	Charlie	<p><b>Monitored Natural Attenuation Update</b>  August/September will be the next complete round of GW sampling. MTBE will be included for all VOC analyses, CO<sub>2</sub> will also be added. Sulfide, Total iron, and Total nitrogen will be added, chloride will be excluded from future sampling.  BTEX sites will be sampled for heterotrophic microbe counts.  Methane results were very high in many samples.  The additions and deletions of parameters are proposed and certainly open to input from the team. Looking for feedback on the proposals made in the first round summary by next month's meeting.</p>
9806 - M314	Daryle	<p><b>Pre-RAB Discussion</b></p> <ul style="list-style-type: none"> <li>• RAB attendance metrics will be reviewed tonight.</li> <li>• Will update asbestos and lead-based paint programs.</li> <li>• Update UST Program status.</li> <li>• Two University of Charleston students will present a poster session on the reuse of Chicora Tank Farm.</li> <li>• Review the Technical Assistance Public Participation Program (TAPP).</li> <li>• Update on shellfish closure in Shipyard Creek (DHEC).</li> </ul>
9806 - M315	Tony	<p><b>SWMU 3 Interim Measures Update</b>  DHEC agrees that this waste stream is not a listed RCRA waste. The Navy will characterize the waste under the D-List.</p>

9806 - M316	Joe	<p><b>RAB Debrief</b></p> <p style="text-align: center;">±</p> <ul style="list-style-type: none"> <li>• Daryle TAPP Presentation</li> <li>• No. of community members</li> <li>• Attendance</li> <li>• Dr. Moricki Presentation</li> <li>• Ban on SY Creek recv'd well</li> <li>• Response to Wannetta</li> <li>• Daryle trustworthy</li> </ul> <p style="text-align: center;">-/Δ</p> <ul style="list-style-type: none"> <li>• Rushed lead and asbestos updates</li> <li>• Too many technical words</li> <li>• Community disappointed?</li> <li>• Questions about DET going away]</li> <li>• Community: in late - leave early</li> </ul>
9806 - M317	Joe	<p><b>Team Improvement Discussion</b></p> <p>Document review process</p> <p>Joe conducted a sticky drill where team members provided input of needs for the following categories concerning documents:</p> <ul style="list-style-type: none"> <li>- Changes</li> <li>- Review</li> <li>- Sending</li> <li>- Tracking</li> <li>- Approval</li> </ul> <p>Tony was elected to compile the input under each heading with a goal of reducing to paragraph form. These paragraphs will provide the basis of a standard operating procedure for how the team conducts business.</p> <p><b>Team consensus to change “Conditional Approval” to “Approval with Contingencies”</b></p>
9806 - M318	Daryle	<p><b>Hess Update</b></p> <p>Hess provided the Navy with results of the latest sampling data. They have performed a vacuum extraction test which proved to be a viable remediation option. Report on feasibility test to DHEC next week. Corrective Action Plan due to DHEC next month. Hess will be moving forward with Phase II sampling.</p>
9806 - M319	Johnny	<p><b>AOC 607/SWMU 166 Comments</b></p> <p>Clean up standards have not been established for groundwater, until this issue is resolved MCL's will be the standards for groundwater at this site. EnSafe will review the comments provided and develop responses and/or work plan revisions. The Navy is still persuing the re-classification of the aquifer at Naval Base Charleston.</p>
9806 - M320	DET	<p><b>Interim Measure Update</b></p> <p>See Attached Update Sheets</p> <p><b>Recommendation made to cease skimming activity at SWMU 17, Consensus Passed.</b></p> <p>DET is going to bring in an Industrial Hygenist to assess the requirements of working in the vault at SWMU 25. Paul requested that the DET look at the plastic cover at SWMU 25, his inspections has shown that it is deteriorating.</p>
9806 - M321	Tony	<p><b>Lead Clean up Standard Discussion</b></p> <p>EEOC office at shipyard reported ethnic records of shipyard workers to Navy Headquarters. Tony will try to get a copy of these records, once the data is in hand, EPA will plug the demographic data into the lead exposure model.</p>

9806 - M322	Todd	<p><b>Zone I RFI Presentation</b>  AOC 672/673 - Arsenic was the only COC identified. Additional samples have bounded the arsenic distribution.  <b>Team Consensus for no further sampling.</b></p> <p>AOC 678 - Issues are arsenic and thallium in shallow groundwater. Recommend revising the RFI Report with latest data.  <b>Team Consensus for no further sampling.</b></p> <p>AOC 688 - One occurrence of metals and DEHP exceeding MCL's. Also found one isolated hit of Aroclor 1260.  <b>Team Consensus to amend the report with no further sampling.</b></p> <p>AOC 685 - BEQ's and arsenic are driving risk.  <b>Team Consensus for no further sampling, proceed to report.</b></p> <p>GRD 11 and 11D - VOC's in groundwater appear to isolated, but no idea where they came from. Paul would like to know if the soil samples at the time of drilling exhibited VOC or organic vapors on the FID.  <b>EnSafe will report at the next Telecon.</b></p> <p>SWMU 177 - Petroleum concerns with soil, Monitoring well 01 has low hit of acenaphthene. Can this site be turned over to the UST Program?  <b>Team Consensus to collect a few more samples on the west side of the site. Discuss the results at the next Telecon.</b></p> <p>AOC 690 - All samples at potential disposal area came back clean.  <b>Team Consensus for no further sampling along the perimeter road, also reference the DET completion report and compare results to generic RGO's in the RFI Report.</b></p>		
9806 - M323	Joe	<p><b>Wrap Up</b></p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center; vertical-align: top;"> <math>\pm</math> <ul style="list-style-type: none"> <li>• Great Location</li> <li>• Zone A RFI Report</li> <li>• Team Improvement Process</li> <li>• Tackled tough issues</li> <li>• Quick DHEC response on 607/166</li> <li>• SWMU 166 site visit</li> <li>• Accomplished agenda items</li> <li>• Well run meeting</li> <li>• DET Update</li> <li>• Jed as DET Contact</li> </ul> </td> <td style="text-align: center; vertical-align: top;"> <math>-\Delta</math> <ul style="list-style-type: none"> <li>• Couple of facility disruptions</li> </ul> </td> </tr> </table>	$\pm$ <ul style="list-style-type: none"> <li>• Great Location</li> <li>• Zone A RFI Report</li> <li>• Team Improvement Process</li> <li>• Tackled tough issues</li> <li>• Quick DHEC response on 607/166</li> <li>• SWMU 166 site visit</li> <li>• Accomplished agenda items</li> <li>• Well run meeting</li> <li>• DET Update</li> <li>• Jed as DET Contact</li> </ul>	$-\Delta$ <ul style="list-style-type: none"> <li>• Couple of facility disruptions</li> </ul>
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### Action Items

9806 - A184	EnSafe	Address Johnny's Zone A RFI Report Comments and provide updated pages by 6/26/98.
9806 - A185	Reece	Talk directly with SCE&G to determine what their concerns are with the electric vault at SWMU 25.  Provide recommendations at next meeting.  EnSafe CIH will consult with Reece to identify program for protection of workers.
9806 - A186	Paul	Review AOC 678 package and determine next steps. Review on the next Telecon with Todd and Tony.  Monday 29 June 98 @ 1000 EDT.
9806 - A187	EnSafe	Provide site-specific recommendations for future MNA by 6/19/98 To include:  SWMU 39 SWMU 9 SWMU 17 SWMU 166 SWMU 25 SWMU 75 AOC 607  Recommendation packages on the following by next month's meeting:  SWMU 65 SWMU 172 & AOC 526 AOC 551 AOC 569
9806 - A188	Tony	Compile results of the Team Input from the "Sticky Drill" concerning Team Improvement Criteria.  Provide paragraphs to the team at next PT Meeting.
9806 - A189	Ted Larry	Provide AOC 607/SWMU 166 response to comments to Paul by 6/18/98.  Follow that with a conference call to work out differences.  Also cover reassessing some UST sites for RCRA constituents.