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MINUTES FROM ENVIRONMENTAL CLEANUP PROJECT TEAM MEETING DATED 13  
OCTOBER 1998 CNC CHARLESTON SC  
10/13/1998

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

**Date:** 10/13 & 10/14/98      **Place:** NH-C /Project Team Room      **Time:** 0800 - 15:30

**Attendees:** Tony Hunt, Reece Batten (SDIV); Paul Bergstrand, Johnny Tapia, Ann Clark (DHEC); Dann Spariosu (USEPA); Todd Haverkost, Larry Bowers (EnSafe); Joe Land (GQI)

**Invited Guests:** Ted Blahnik and Fred Erdmann (EnSafe)

**Leader:** Johnny Tapia

**Scribe:** Larry Bowers

**DISCUSSIONS/DECISIONS**

9810-M330	Larry	<p><b>CMS Zone Managers and Key Personnel Bio Sketches</b></p> <ul style="list-style-type: none"> <li>• Larry presented bio sketches of CMS Zone Managers (Ted Blahnik, Don Cooke, May Heflin) and Key CMS personnel (Fred Erdmann, Ronnie Britto, and Madu Patel) to the Project Team.</li> <li>• This information was presented due to a request from DHEC during the last Project Team meeting in August. DHEC sought a list of CMS Zone Managers. The bio sketches satisfied this request and also provided additional personnel information (experience, etc.) that the Project Team should find useful as they will soon be interfacing with many of these CMS engineers.</li> </ul>
9810-M331	Todd	<p><b>AOCs 679 and 680</b></p> <ul style="list-style-type: none"> <li>• Reference handout. Memo dated 12 Oct 98, <i>AOC 679 and AOC 680 GW Monitoring Results, Zone I.</i></li> <li>• Handout details recent RFI activities at these two sites in Zone I.</li> </ul> <p>Two new wells installed at these sites.</p> <ul style="list-style-type: none"> <li>• One well (09AI) constructed near UST excavation pit and down-gradient (AOC 680).</li> <li>• One well (01AI) constructed near “new location” of wash rack (AOC 679). Earlier sampling focused on an area where the wash rack was “thought” to be.</li> <li>• A decision on how to proceed with the RFI is pending based on Project Team review of handout data.</li> <li>• Action Item; EnSafe is to provide additional GW sampling data from these two sites as well as from adjacent property. An ArcView presentation will be developed for area wells and information will then be made available to the Project Team. NFA decisions are pending this presentation.</li> </ul>

<p>– 9810-M332</p>	<p>– Todd</p>	<p><b>Project Team Schedule Update</b></p> <ul style="list-style-type: none"> <li>• Reference handout.</li> <li>• Project Team schedule was discussed and updated accordingly. New schedules will be forwarded to Project Team members within the next week or so.</li> <li>• Schedule priorities: No. 1 – Zone A RFI page changes, No. 2 - Zone A CMS WP review, No. 3 - Zone C CMS WP review, then adjust balance of items accordingly. See new schedule.</li> </ul>
<p>9810-M333</p>	<p>Tony</p>	<p><b>DSMOA Update</b></p> <ul style="list-style-type: none"> <li>• Reference handout.</li> <li>• A question was asked: How long will it take for new DHEC employees to be up to speed? Response from DHEC was that it depends on the experience level of the new employees and that would not be known until the actual hiring process occurs.</li> <li>• A general discussion ensued regarding a recent meeting of the Navy SDIV and NRL, DHEC, SCDNR, and USFWS. Essentially, it is easier to determine the contamination source of Shipyard Creek than it is of the Cooper River. Two studies will occur. Phase I in Oct/Nov 98 by the NRL (additional field work addressing background to be completed) and Phase II in Spring of 99.</li> </ul>
<p>9810-M334</p>	<p>Tony</p>	<p><b>LUR Update</b></p> <ul style="list-style-type: none"> <li>• Reference 2 handouts. <i>A Guide to Establishing Institutional Controls at Closing Military Installations and A Guide to Assessing Reuse and Remedy Alternatives at Closing Military Installations</i>. Both are DOD documents.</li> <li>• The USEPA Land Use Control Assurance Plan was discussed by Dann.</li> <li>• Ann reminded everyone that any land use control would have to comply with the existing permit.</li> <li>• Dann suggested that the Navy provide a list of banned activities (institutional controls) that need to be in affect for clean sites. The Navy would then use their attorneys to determine how to “enforce” and “maintain” these site specific controls.</li> <li>• The following was suggested:</li> <li>• By Joe Land; recommends looking at previous agreements and use them as a starting point for our base.</li> <li>• By Ann Clark; recommends separating technical and political issues. That is, some policies must be agreed upon by other parties such as Tier 2.</li> <li>• By Dann Spariosu; commented that for deed restrictions we need to be concerned about who (what entity) would ensure that the restriction is maintained over a 10 to 20 year period. And if the restriction is not maintained, how would the Navy respond?</li> <li>• By Tony Hunt; recommends that we take an actual site and start the process, any process. Say for SWMU 9.</li> <li>• By Paul Bergstrand; recommends that the process be started on SWMU 2 or SWMU 39 because a landfill (SWMU 9) already has a fairly established plan of attack (deed restrictions, etc.).</li> </ul>
<p>9810-M335</p>	<p>Johnny</p>	<p><b>Pre-RAB Prep</b></p> <ul style="list-style-type: none"> <li>• A general discussion regarding the pending RAB meeting ensued. Meeting agenda items were discussed and pre-RAB preparation activities took place.</li> <li>• Volunteers were asked to help set-up the room prior to the RAB meeting.</li> </ul>

9810-M336	Todd	<p><b>Well Inventory and Maintenance Update</b></p> <ul style="list-style-type: none"> <li>• Reference handout. A well condition inventory of every well at the base.</li> <li>• The handout provided well ID, SWMU/AOC, new lock status, repair record and follow-up action taken. Expect that all needed actions will be taken within 2 to 3 weeks from current date.</li> <li>• The nine page handout indicates that 624 wells are presently located at the base, as of 12 Oct 98, and counting.</li> <li>• Todd question to the Project Team. What are your recommendations for visually monitoring the well condition so that damaged wells do not remain ineffective or damaged for long periods of time?</li> <li>• Paul response: How about once per quarter visual inspection for wells that are active (being sampled) and twice a year for wells that are not? Paul then wanted to know who would provide these inspection services. Todd responded that EnSafe would support for as long as EnSafe is under contract with the Navy at the Charleston Naval Base.</li> <li>• Todd informed the team that he intends to update the well inventory list with additional information such as: inspection date, on-going monitoring participant, etc.</li> </ul>
9810-M337	Larry	<p><b>Gas Diffusion Sampler</b></p> <ul style="list-style-type: none"> <li>• Literature regarding the Vobrenskli (spelling) Sampler was made available to interested Project Team members. Most team members were aware of this sampler and its advantages for use at sediment/GW interface for VOCs.</li> <li>• Extra copies of literature were provided to Johnny and Tony.</li> </ul>
9810-M338	Larry	<p><b>CMS Weighing Factors</b></p> <ul style="list-style-type: none"> <li>• Reference handout.</li> <li>• Joe Land assisted Larry with an exercise to obtain Project Team input on weighing factors for the CMS remedial alternative evaluation process.</li> <li>• Results of the exercise, in order of importance: No. 1, protection of HH and the environment; No. 2, source control; No. 3, reduction in T/M/V; No. 4, attainment of cleanup standards; No. 5, long-term reliability and effectiveness; No. 6, compliance with applicable standards for management of wastes; No. 7, implementability; No. 8, cost; No. 9, short-term effectiveness.</li> <li>• This information will assist the CMS report writers during the evaluation and ranking of potential remedial alternatives. Note that the weighing factors are strictly subjective, though the criterion that each alternative is being evaluated against are strictly objective. The weighing factors may be modified during the CMS or not used at all. The PT will have the final say.</li> </ul>

9810-M339	Joe	<p><b>Post-RAB Critique</b></p> <p style="text-align: center;">±</p> <ul style="list-style-type: none"> <li>• meeting environment</li> <li>• Ted's handling of hostile comment from attending visitor.</li> <li>• presentation by Larry and Ted of a highly technical subject in layman's terms</li> <li>• dissemination of information to help make decisions</li> <li>• good ideas to increase RAB participation</li> <li>• great presentation by EnSafe regarding solvent properties and potential remedial technologies</li> <li>• clarification of TAPP program</li> <li>• Chicora Tank Farm update</li> </ul> <p style="text-align: center;">-/Δ</p> <ul style="list-style-type: none"> <li>• slide 6 of Larry's presentation had too much information on it (should have been several slides)</li> <li>• verify mailing list</li> <li>• disruptive audience</li> <li>• no participation from community</li> <li>• negative and misguided comment regarding potential remedial technology</li> <li>• confusing technological information</li> <li>• Navy update was disjointed</li> <li>• RAB not working together</li> <li>• defensiveness regarding radiological fact sheet</li> <li>• possible comment period was not fully utilized</li> <li>• technical presentation was confusing in some areas and a little long</li> <li>• long meeting</li> </ul>
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9810-M340	Reece	<p><b>IM Update</b></p> <ul style="list-style-type: none"> <li>• Refer to second page of Project Team schedule.</li> <li>• SWMU 2: field work completed Jun 98, SCR expected by Dec 98, DET will not excavate anything at SWMU 2 due to current political environment associated with Zone A reuse intentions, \$1 M to excavate at industrial levels and \$2M to excavate at residential levels (DET estimate) and \$100K for asphalt capping.</li> <li>• SWMU 3: SCR completed.</li> <li>• SWMU 8: open ditches have overflowed banks twice (during major storm events only), berms were constructed around open ditches after the first overflow event, however during the Summer of 98 the excavation ditches were widened and the berms were compromised, thus the most recent overflow event.</li> <li>• SWMU 11: caustic pond, RCRA cap work will start soon, soil will be excavated and replaced with clay and required lining material, approx. 30 days to complete, expect completion by Jan 99</li> <li>• SWMU 17: SCR to be completed soon</li> <li>• SWMU 25 and adjacent manhole: work completed, DET has been tasked to remove electrical lamps and components</li> <li>• SWMU 38: excavation completed, confirmation samples exceeded cleanup goals, DHEC has requested to see results of confirmation sampling, DHEC approved back filling and additional sampling about 5 feet out from excavation footprint</li> <li>• SWMU 166: same results and POA as for SWMU 38</li> <li>• Zone G PCBs: C and D debris encountered during excavation, digging on hold till C and D delineated</li> <li>• AOCs 500, 501, and 502 (UXO): SCR expected soon, by Dec 98</li> </ul>
9810-M341	Paul	<p><b>Landscape Well (near SWMU 14)</b></p> <ul style="list-style-type: none"> <li>• landscaping firm wants to install an irrigation well (IW)</li> <li>• also, it has been determined that the State Dept already has installed an IW at the former base</li> <li>• Paul wants to know if the PT has any authority over construction projects at the base (well construction in particular)</li> <li>• question 1: Who provides well information (surrounding wells etc)?</li> <li>• question 2: What mechanism do we want to use to approve IW construction requests?</li> <li>• Todd suggested that Tony and Reece check with the CSO to see if any agreements are currently in place with transfer documents.</li> <li>• Paul suggested that a tech memo be drafted for tenants. This memo would state that tenants must go through the CSO office and the Project Team for approval of any IW construction.</li> <li>• Johnny suggested to Paul that the CSO needs to request certain information from those parties requesting irrigation wells. Paul agreed to provide a list of questions that the IW requestor would need to answer. Paul will pass list to other team members for their input.</li> <li>• CSO will gather pertinent info from IW requestor and then provides this info to DHEC who will determine if GW sampling is required and why.</li> </ul>

9810-M342	Ted	<p><b>AOC 607 and SWMU 166 TS Update</b></p> <ul style="list-style-type: none"> <li>• Ted provided a brief rundown on the TS schedule for these two sites.</li> <li>• Presently waiting to receive the results of some CMS field data. Draft TS Work Plans should be ready prior to Thanksgiving. Will line up subcontractors by Nov 98. Construction should start in Jan 99. TS will likely start (system startup/shakedown) by Feb 99. Expect a 3 month operational period (approx.). TS report by Jul 99, approx.</li> <li>• Johnny requested that the TS schedule be included in the work plan and Ted said no problem. Johnny also questioned Ted on the screening process and how these three technologies were selected for TS work at these two sites. Ted briefly described the screening process and how these technologies were retained for further evaluation.</li> <li>• Paul was concerned about sanitary sewer line sink at AOC 607 and how its future refurbishment would affect the TS and/or final remedy.</li> <li>• Ted also reminded everyone that we are not 100% confident that the selected technology (or any technology for that matter) will work under actual site conditions. And that is why a pilot scale TS has been recommended and will be completed. However, scale-up to a final remedy should be possible if the TS determines that the selected technology adequately meets cleanup objectives.</li> </ul>
9810-M343	Jerry ? (Joe Land's boss)	<p><b>Team Performance Model (TPM)</b></p> <ul style="list-style-type: none"> <li>• Jerry provided a brief rundown on the TPM; what it is and how it can aid our team.</li> <li>• He requested that we take our time to complete the TPM survey and mail or fax back to GQI in the next few weeks. Results will be tabulated and reported back to the Project Team. Improvements to our team process are possible so please complete all surveys.</li> </ul>

9810-M344	Joe	<p><b>Wrap-up</b></p> <ul style="list-style-type: none"> <li>• Next meeting will be 7 to 9 Dec 98 in Charleston. Leader and time keeper will be Reece.</li> </ul> <p style="text-align: center;">±</p> <ul style="list-style-type: none"> <li>• relaxed environment and team</li> <li>• IM update by Reece</li> <li>• well repair inventory by Todd</li> <li>• smaller group</li> <li>• schedule update</li> <li>• good list of action items</li> <li>• Reece did good job wearing multiple hats (filling in for several absent people)</li> <li>• high comfort level</li> <li>• followed agenda</li> </ul> <p style="text-align: center;">-/Δ</p> <ul style="list-style-type: none"> <li>• Tony absent</li> <li>• RDA absent</li> <li>• light schedule</li> <li>• BTC absent</li> <li>• TPM briefing, expected more</li> <li>• no decisions made</li> <li>• no group team activity</li> <li>• lack of success stories</li> </ul>
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### Action Items

9810-A191	EnSafe/Navy	Provide a 1 to 2 page summary of why we are considering waste consolidation at the base. By first week of Nov.
9810-A192	Todd	Provide additional GW sampling data on AOC 679 and 680. Include surrounding well data if available and relevant. Provide ArcView presentation of data. By 30 Oct.
9810-A193	Tony	Email version of PT schedule to all PT members. By 19 Oct.
9810-A194	Tony and Johnny	Revise DSMOA scheduling and listing. By Dec PT meeting.
9810-A195	DHEC/EPA/Navy/RDA	Take draft IC guidelines and implement plan from EPA and Tony's site-specific information. Consider Zone A as one parcel for transfer. What type of restrictions will be placed on it? By Dec PT meeting.
9810-A196	Ann	Propose Tier II assistance with LUR issue. For an update/information gathering goal only. Tier II would act as a "subgroup" that might be able to help us. By Dec PT meeting.
9810-A197	Reece	Have DET replace plastic covering at SWMU 25. By 19 Oct.
9810-A198	Reece	Provide PCB results at manhole adjacent SWMU 25. Info to Johnny. By 19 Oct.
9810-A199	Reece	SWMU 38, get confirmation results and discuss with DHEC and EnSafe via conference call. By 19 Oct.
9810-A200	Reece	SWMU 166, Confirmation sample update to DHEC and EnSafe. By 19 Oct.
9810-A201	Tony	Check on transfer agreement to see if there are "no dig" provisions/restrictions in place. By 1 Nov.
9810-A202	Paul	Send CSO IW information requirements. This will be a draft requesting comments. By 28 Oct.
9810-A203	Ted	Check with RDA on status of AOC 607 sewer line rehab status. By 1 Nov.
9810-A204	All team members	Complete TPM survey and mail or fax back to Joe Land at GQI. By 30 Oct.