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MINUTES FROM ENVIRONMENTAL CLEANUP PROJECT TEAM MEETING DATED 8
DECEMBER 1998 CNC CHARLESTON SC
12/8/1998

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

Date: 8 to 9 Dec 98

Place: NH-C /Project Team Room

Time: 0800 - 1700

Attendees: Tony Hunt, Reece Batten, David Dodds (SDIV); Paul Bergstrand, Johnny Tapia (DHEC); Dann Spariosu (USEPA); Jeri Johnson (RDA); Glenn Easterby (CES/CB); Todd Haverkost, Larry Bowers (EnSafe); Joe Land (GQI)

Invited Guests: Jed Heames and other (about 6) DET members

Leader: Reece Batten

Scribe: Larry Bowers

DISCUSSIONS/DECISIONS

9812-M345	Reece	Check-in - Review of ground rules. Check in of PT members.
9812-M346	Paul	DHEC Staffing - DHEC has recently hired a new hydrogeologist. Another additional employee will be hired by mid Jan 99. These two new hires will work under Paul and Johnny and will support the CNC RCRA effort. A toxicologist will also be hired and will be used by PB and JT as part time support. This is part of the DSMOA between the Navy and DHEC.
9812-M347	Joe	Validate Agenda and Establish Parking Lot Items Completed.

9812-M348	Joe and Reece	<p>Oct PT Meeting AI Follow-up</p> <ul style="list-style-type: none"> - A191 - done A192 - done A193 - done A194 - parking lot item A195 - brainstorm today A196 - Glenn's briefing today A197 - done A198 - done A199 - DET SCR available A200 - DET is excavating 2nd round delineation area. Todd says historical maps now show a drum storage area associated with the impacted soil area. A POL storage area similar to SWMU 39 in Zone A A201 - ? A202 - no regs. currently address this so PB wants to send a letter expressing his concerns A203 - JJ says a new sanitary sewer study is being completed now and she will respond post the study A204 - done
9812-M349	Glenn	<p>Tier II Update and Briefing</p> <p>Interactive discussion: what are your expectations of the Tier II link? What can I help you with?</p> <p>Native of CHS, civil engineer, has worked for DOT (briefly) then SDIV and CAFB (current, Head Environmental Department).</p> <p>Tier II consists of US Army, Navy, AF, COE, DHEC, EPA and others ... very large team. Meet quarterly and rotate team leadership and hosting responsibilities.</p> <p>We like to have a Tier I person participate in every meeting. Tier II is interested in having our PT present our story/update at a future meeting to be held at CAFB by mid summer or Fall 99.</p> <p>Appreciates our effort on being focused on results as opposed to process.</p> <p>Glenn also provided some examples of recent Tier I updates (Fort Jackson).</p> <p>Regarding LUR, Tier II is reviewing other state approaches and other DOD approaches and will report back to the Tier I team. Land or permit restrictions were briefly discussed.</p> <p>Commented about Ted Simon's (USEPA toxicologist) probabilistic risk assessment presentation.</p> <p>Other issues touched upon; DSMOA funding for FY 99 and 00, team performance model (Tier II is considering the same thing).</p> <p>Via training sessions from facilitator, Tier II focus areas consist of: expand scope beyond Tier I and remediation issues, what does Tier I want or need from Tier II?, and what are your expectations from Tier II?</p> <p>Glenn requested that we provide a success story to Tier II, any level of success will suffice. We have many success stories, its just a matter of putting them on paper.</p> <p>Tier III wants to complete a measures of metric study (people, \$, and time savings).</p> <p>Next Tier II meeting is in CAE, 8 Apr 99.</p> <p>Tony asked: 1) what are Tier II issues of concern/focus? and 2) how was probabilistic risk assessment viewed by Tier II? This types of assessments are very costly, are used for high risk sites only, and SWMU 2 is a good example of an applicable site.</p>

9812-M350	Larry	<p>Treatability Study Work Plan Update</p> <p>A verbal briefing was provided to the PT regarding the 3 proposed TS's. AOC 607 (1 TS) and SWMU 166 (2 TS).</p> <p>AOC 607 - vacuum enhanced recovery and groundwater extraction with SVE</p> <p>SWMU 166 - anaerobic/aerobic sequential biodegradation</p> <p>SWMU 166 - six phase heating</p> <p>The verbal briefing included estimated times for work plan completion which is by Christmas 98 for all three work plans. Though it will likely be after Christmas for the six phase heating TS.</p> <p>Each work plan will include: introduction, site description, objectives, treatment theory, pre-engineering estimates of technology viability where applicable, system description, applicable site and system figures, monitoring parameters, O & M, and schedule.</p>
9812-M351	Larry	<p>CMS Report Division</p> <p>Larry proposed that certain Zone H CMS sites being separated (during the report stage) from other Zone H CMS sites. These separated sites are considered minor sites and will require much less effort during the CMS that major sites such as SWMUs 9, 14 and 17.</p> <p>By separating the sites and producing two distinct documents (minor and major sites), time will be saved. The level of review and comment effort required for the minor sites is much less than for the major sites. Therefore, it is proposed to review these first and prior to the major sites, and without waiting for completion of the major sites. Plus, the time required to complete the major sites is much larger than the time for the minor sites. Obviously, an overall zone-specific CMS report would be greatly delayed if it was required to include both minor and major sites in the same document.</p> <p>PT consensus passed to separate minor from major sites in order to expedite the CMS process. This primarily impacts Zone H but minor/major site separation will occur in other zones as necessary and as approved by the PT..</p>
9812-M352	Tony	<p>IW Issue</p> <p>From the Navy perspective, two issues are associated with the State Dept. IW</p> <ul style="list-style-type: none"> - Issue 1 - State Dept. has already installed IW and we need to see construction information. Issue 2 - And how was that well approved for placement to begin with? <p>PB wants to ensure that Navy complies with proposed IW installation standards and that RCRA issues are not compromised. Similar to the Navy's issues.</p>
9812-M353	Tony and Paul	<p>1999 PT Meeting Schedule</p> <ul style="list-style-type: none"> - Adjustments as follows: <p>Feb 99 PT Meeting; 3 Feb start 1000, 4 Feb start 0800, 5 Feb if necessary, 9 Feb if necessary (prior to RAB meeting).</p> <p>Apr 99 PT Meeting; 12 Apr start 1000, 13 Apr start 0800, 14 Apr if necessary.</p>

<p>□ 812-M354</p>	<p>□ odd</p>	<p>Metals in GW Post CAE meeting regarding Zone I RFI, the issue of inorganics in GW surfaced. What do we do with wells that show inorganics, consistently detected, over several quarters of sampling? Todd's memo (12 Nov 98) recommends that we take filtered and unfiltered samples, and TSS and check for correlations amongst the three. 15 to 20 problematic wells were selected from Zones E, C, H and I. Sampling will occur just prior to or post Christmas so data should be available by late Jan at the latest. We might want to consider doing this for problematic dioxin GW sites also. Dann feels that after this additional round of GW sampling for inorganics, we (the PT) should be able to make a decision as to whether 1) additional wells should be re-sampled via the protocol, or 2) conclude that certain inorganics are insignificant at CNC and thus terminate the inorganics issue. Paul wants to also see NTU in addition to the aforementioned analytical data.</p> <p>PT Consensus: Decision rule; Sample 15 to 20 wells and analyze GW per previous description (filter, non filter, TSS). If it is apparent that SS is the problem (obvious correlation between inorganic and TSS concentrations), we then select a few more marginal wells and confirm that fact. However, if GW concentration in the filtered sample is < than MCL or BG, the well can then be designated for NFA as inorganics are a non issue.</p>
<p>9812-M355</p>	<p>Tony</p>	<p>RAB Prep – Nothing unusual other than TAG discussion. Tony will update/revisit TAG and see if RAB is ready to make decision. Go for TAG or drop it. CTF; first tank demolished and 2nd other underway. Per Jeri; City and School district are now very interested in CTF property (economic and public conveyance). This gives the Navy the green light to take out the remaining tanks. Keith Johns reported no new issues.</p>
<p>9812-M356</p>	<p>Joe</p>	<p>Post RAB Plus Tony's presentation (base wide issues) Paul (Tetra Tech NUS) response to RAB member Paul (Tetra Tech NUS) attendance and vote of confidence Not wanting TAG shows that RAB is satisfied with support from existing team Paul (Tetra Tech NUS) did mention cost savings expected by using existing CLEAN II data and by using DET to handle IDW. Dann's response to Lou's concern regarding Tetra Tech NUS involvement.</p> <p>Negative Attendance TAG issue still seems unresolved with RAB Meeting location Second guessing Site visits No call for vote on TAG issue Oil spill information CTF; we did not toot our horn loud or long enough</p>

9812-M357	Joe	<p>New Member Drill</p> <ol style="list-style-type: none">1) What you need to know about me.2) What you need to know about the team.3) What I expect from you.4) What you can expect from me. <p>Joe led the team on the new member drill. David Dodds replaces Tony as EIC. Tony replaces Daryl as BEC. Daryl departed SDIV and is now working for the South Carolina DNR.</p>
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9812-M358	Tony	<p>Landfill Reuse Redevelopment</p> <p>- Tony and Jeri informed the team of a potential “quick track” transfer of property (about 75 acres) in Zone G to an interested lessee.</p> <p>The area of interest includes the area from Viaduct and 13th Streets to Halsey Street and from the Cooper River to Bainbridge Blvd., for the most part.</p> <p>The area would be developed with a warehouse(s) and administration building (typically part of the warehouse) and a lay-down area(s) for heavy equipment. Break bulk material. No cargo containers.</p> <p>The team brain-stormed potential problems or issues that need to be further investigated in regards to a rapid transfer of property in Zone G.</p> <p>Potential problems or issues or hurdles to redevelopment:</p> <p>1) possible excavation (site dev.) in area of required remediation footprint of warehouse(s) should not be area of known GW contamination (though this shouldn't be a show stopper) deal falls apart due to misunderstanding might find other contaminated areas during redevelopment (unlikely though) perception of potential tenant of future headaches (environmental) too many regulatory hurdles placed in front of development not decisive early enough develop at a site where a final remedy is not in place if asphalt is required for lay down area, are other options avail.? remedy at SWMU 8 may be in center of desired lay down area additional time required to response to RDA request and shifting of PT priorities</p>
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9812-M359	Tony	<p>Zone C C/RTCs</p> <p>- Only a few major issues were selected for discussion by the PT. Not all 90 comments were discussed.</p> <p>TPH; it was agreed that EnSafe (Todd) would produce a memo similar to the memo produced several years ago for the PT which cited TPH issues, concerns, and nonconcerns. The memo will address TPH constituents, risk, the RCRA process and how TPH fits, and how remedial alternatives will address TPH constituents indirectly as part of a RCRA CMS/CMI.</p> <p>David said that he has been involved with a site that had the same issue (eg, addressing TPH in a RCRA regulatory setting) and he will help drafting the memo as necessary.</p> <p>PT consensus; the memo will summarize the scientific and technical basis of TPH and how it relates to the RCRA program.</p> <p>Noisette Creek and SWMU 44; the former coal storage yard is “conditionally NFA (per DHEC)” with respect to Noisette Creek if it can be shown that the site no longer acts as a contaminant source to the creek. But if the creek is impacted (surface water standards exceeded) then the site needs to be addressed. This is true for all sites at the base, per DHEC.</p> <p>Per DHEC; AOC 512 is NFA for soil and GW; AOC 518 should initially be addressed by a DET ISM and then EnSafe should follow up to ensure that all RBC exceedances have been treated; AOC 700 GW still needs to be addressed as it appears that downgradient GW was never sampled.</p>
9812-M360	Tony	<p>Further Discussion on Landfill/Zone G Redevelopment</p> <p>Jeri provided a footprint of area (not buildings) that tenant is considering.</p> <p>Conference call set-up for Monday, 14 Dec 98, at 1:30 PM to further discuss issue and address potential redevelopment obstacles.</p>
9812-M361	Ted	<p>DET ISM Update</p> <p>Reference handout outlining recent DET activities at selected CNC sites (Zone A grid, AOC 699, SMWU 38, SWMU 8, SWMU 166, Zone G Grid PCBs, SWMU 11, SWMU 25, dye testing, Zone E electrical vault, SWMU 9)</p>
9812-M362	Todd	<p>Zone K RFI C/RTCs</p> <p>DHEC wants dioxin referenced to the soil RBC of 4.3 ng/kg instead of the 1 ppb Times Beach cleanup level. Don't use 1 ppb as a screening level.</p> <p>Todd stated that TEQ ranged from 0.01 to 11.9 ng/kg in Zone K. No concentration gradients were noted.</p> <p>Dann wants to know if any BG levels have been established - no was the answer.</p> <p>Todd suggested that we present the existing data in a format that highlights the lack of concentration gradients or likely sources. This will be summed up in the RTCs.</p> <p>Re GW dioxin issue: EnSafe will re-sample several dioxin impacted wells. The wells were only sampled once and thus the re-sample effort.</p> <p>SWMU 164; site building will be re-evaluated for floor drains, cracks, etc. at the request of DHEC.</p> <p>AOC 693/694; Clouter Island and Hg in soil. Will take soil samples from outer boundaries of site and will re-sample temp. wells for VOCs, SVOCs, and metals. Will also visually inspect temp. wells for physical condition.</p> <p>AOC 696; no more sampling is required. Will discuss DET ISM report in RFI report.</p> <p>AOC 698; proposed a few additional samples along piping run.</p>

9812-M363	□	<p>Close and Wrap-up</p> <p>Plus DET update small focused group dealt with tough issues RDA presence comfortable making decisions Zones C and K C/RTC went well David's participation as a new member Discussion on reuse and redevelopment of RDA interested area lunch together Tetra Tech NUS introduction CTF resolution and desire for reuse by school system new member drill Glenn's update on Tier II</p> <p>Negative prepare agenda in advance, be more prepared with agenda items surprises revisitation, lack of follow through landfill (Zone G really) redevelopment topic changed last minute data provided on redevelopment topic schedule not kept current did not get to IC issue BTC not available during important landfill discussion</p>
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Action Items

9812-A205	Tony	Fed to Fed transfer and land use language. To JT by 11 Dec.
9812-A206	Dann	Provide Jay Bassett with real estate information. By 20 Dec.
9812-A207	Tony	Provide list of LUC examples to Tier II. Use Zone A. By April PT meeting.
9812-A208	Larry	Provide list of minor/major CMS sites to DHEC. By 19 Dec.
9812-A209	Paul	Bring copy of draft IW standards to next PT meeting. By Feb PT meeting.
9812-A210	Tony	Discuss with Billy Drawdy and determine importance of IW (State Dept.) information and other proposed well at US Border Patrol (?). By 8 Jan.
9812-A211	Paul	Draft a summary of base-wide environmental investigations and cleanup activities for RAB. By Feb PT meeting.
9812-A212	Jeri	Provide map of area that tenant wants and space requirements (foot print) of warehouse(s) and lay down area(s). By 24 Dec.
9812-A213	Larry	Determine if SWMU 8 backfill gravel will adversely impact the on site development of a lay down area. By Feb PT meeting.
9812-A214	Tony	Evaluate GW flow at AOC 700 and determine need for downgradient wells. By 24 Dec.
9812-A215	Tony	Complete conference call with PT on 14 Dec at 1:30 PM regarding property transfer in Zone. By 14 Dec.
9812-A216	Todd	Provide BEQ BG values for all zones. By 11 Dec.