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MINUTES FROM ENVIRONMENTAL CLEANUP PROJECT TEAM MEETING DATED 5 JUNE
2000 CNC CHARLESTON SC
6/5/2000

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

Date: June 5, 2000

Place: SCDHEC, Columbia, S.C. **Time:** 10:30 – 16:00

Attendees: Tony Hunt (SDIV); Tom Beisel, Paul Favara, Dean Williamson (CH2M Hill); Paul Bergstrand, Mihir Mehta, Charles Watson, Susan Peterson, Mike Danielsen, Melissa King, Mansour Malik, Rachel Breidling, David Scaturo (SCDHEC); Dann Spariosu (USEPA)

Leader: Mihir Mehta

Scribe: Paul Favara

CNC Project Team Discussions		
0006-M539	Team	<p>Check-in</p> <ul style="list-style-type: none"> ➤ Discussion of agenda and goals/objectives for meeting ➤ Introduction of new SCDHEC Team Members: Mansour Malik (hydrogeologist) and Rachel Breidling (risk assessor)
0006-M540	CH2M-Jones	<p>Status of Project Tools</p> <ul style="list-style-type: none"> ➤ Analytical database has been assembled and is complete. Working with ENSAFE to resolve discrepancies (e.g., sample ID's without coordinates, coordinates without sample ID's, etc...). ➤ Arcview development in process. The foundation development is nearly complete. ➤ Revised goal to have tool up and running in early July.
0006-M541	Team Discussion	<p>RFI Completion – Zone K</p> <ul style="list-style-type: none"> ➤ The CH2M-Jones contract excludes Clouter Island, which has elements of Zone K. Issue at Clouter Island is primarily mercury in water. Mihir recommended Clouter Island could be a separate zone. Tony will work out how to resolve Zone K elements on Clouter Island (see Action Item 0006-0317). ➤ Current data gaps at Zone K require further groundwater contaminant delineation at SWMU 166. CH2M-Jones will determine how much additional information is necessary at Zone K to complete RFI. See Action Item 0006-0318. ➤ Mihir recommended CH2M-Jones evaluate SCDHEC comments on Zone K. ➤ Need for Zone K scoping meeting or discussion was agreed up. Tentative submission date for Zone K Work Plan Addendum is end of July.

CNC Project Team Discussions		
0006-M542	Team Discussion	<p>RFI Completion – Remaining Zones</p> <ul style="list-style-type: none"> ➤ Mihir commented that the flow chart for RFI Completion Strategy, sent to the team with the minutes to the May 15-17, meeting was acceptable. ➤ After Zone K, Zones F and G Work Plan Addendum's are targeted for submittal in September – December timeframe. ➤ CH2M-Jones will await comments to the Zone H RFI from SCDHEC before proceeding to next phase. Comments on CMS for SWMU 159/AOC 653 and RFI Work Plan Addendum are expected from SCDHEC on August 11, 2000. ➤ Zone I will follow Zone H, with a Work Plan Addendum in last quarter of 2000. ➤ Zones E and L will be the last Work Plan Addendums to be submitted. Zone J also has to be factored into overall schedule. ➤ All Work Plan Addendums will have a schedule included.
0006-M543	Team Discussion	<p>Interim Measures</p> <ul style="list-style-type: none"> ➤ Goals and objectives of IM's were discussed. Mihir wanted to know what the goal of an IM was. Dean commented that the goal is source control and IM's are not intended to be a final remedy. ➤ SWMU 166 and AOC 607 are candidates for treatment with six-phase heating. ➤ A possible alternative for SWMU 196 was excavation with ORC mixed in the backfill. ➤ SWMU 70 and 39 were discussed initially as IM sites but were later categorized as candidate sites for CMS Work Plans. ➤ If a schedule difference between an IM and CMS project is minimal, SCDHEC prefers we use the CMS route. ➤ SCDHEC agreed that groundwater monitoring was an interim action.
0006-M544	Team Discussion	<p>CMS Work Plans</p> <ul style="list-style-type: none"> ➤ SWMU 70 and 39 were targeted as CMS Work Plan Sites. SWMU 70 is a candidate for biological and chemical reduction (for hexavalent chromium). Paul Bergstrand commented that this site is close to a sewer-line repair and that particular attention needed to be paid toward fluctuating water levels. An action item to contact the RDA about the status of this sewer repair is presented as Action Item 0006-0319. ➤ SWMU 39 CMS Work Plan goal needs to be further defined and may include an objective is to collect additional data at the site and determine if ORC or HRC are candidate technologies for controlling off site migration of dissolved organics (e.g., 12DCE). ➤ CMS Work Plans are appropriate when additional data is needed to determine if a technology is applicable (e.g., treatability study). ➤ A CMS Work Plan would be appropriate at a site where an IM has been completed – would be used as a vehicle to demonstrate statement of basis for NFA.

CNC Project Team Discussions		
		<ul style="list-style-type: none"> ➤ Further discussion regarding when to use CMS versus IM was deferred to the June 12-14 project meeting (ref: Action Item 0006-0320).
0006-M545	Team Discussion	<p>CMS</p> <ul style="list-style-type: none"> ➤ Dean recommended we develop an approach for a plug-in CMS's. This approach would be used for sites where limited excavation and removal are necessary (e.g., SWMU 9) or other single-remedy evaluations are appropriate. ➤ Mahir commented that moving to a CMS phase may be possible at a site where we don't have a Final RFI, provided the site is not affected by other SWMUs or AOCs and characterization is complete at the site. ➤ Discussion of three different types of CMS's: 1) presumptive remedy, 2) focused, and 3) full. The complexity of the site increases from 1 to 3. ➤ Mihir commented that the role of the CMS was to only evaluate alternatives and was not a document that is designed for further data collection.
0006-M546	Team Discussion	<p>Environmental Indicators</p> <p>The following details were agreed upon:</p> <ul style="list-style-type: none"> ➤ If a site is listed as NFA in the RCRA permit, it was considered to be in compliance with 725 and 750. ➤ If a site was recommended for NFA in the RFI, it was considered to be in compliance with 725 and 750. It was acknowledged that this status could change at sites where the RFI was not complete. ➤ If a site was recommended for NFA for groundwater only, it was considered to be in compliance with 750. ➤ With the exception of possibly SWMU 39, SWMU 166, and SWMU 196, compliance at all sites was assumed in groundwater for 725 (protection of human health) since groundwater is not currently being used. ➤ It was agreed that the status of a sites compliance for 725 and 750 had no relevance on the RCRA status of the site. For example, because a site is currently in compliance with 725 and 750 does not mean further characterization or remediation is not required. ➤ The team agreed to evaluate the information we have in hand to determine compliance with 725 and 750. Additional information (e.g., Johnson and Etinger Model) will be considered in the future and may result in a change of the compliance status at the site. ➤ All sites currently listed as "No" in the 725 or 750 column will be further evaluated by Tony and Todd to determine if more site-specific information is currently available to justify a change in status. Tony will lead this effort and present a culled down list at our meetings the week of June 12, where we plan to finalize the 725 and 750 status of all the sites at CNC (ref: Action Item 0006-0321). ➤ David Scaturo indicated that we should try to keep this reasonably simple and base our conclusions on current data. If things change in the future, we can modify future EI plans.
0006-9547	Team	<p>Submission of Reports in FY01 and FY02 (SCDHEC Years)</p> <p>The team agreed the following reports were priorities in FY01.</p> <p><u>FY01</u></p> <p>Work Plan Addendums for K, F, G, I, and J (H if necessary)</p> <p>RFI's for K, F, and G</p>

CNC Project Team Discussions		
		<p>IM's for 166, 196, 607 CMS Work Plans for 70 and 39 Early Transfer Documents CMS's (to be determined)</p> <p><u>FY02</u> For FY02, additional submittals could include: RFI's at E, L, and J Other RCRA reports</p>

Action Items			
Item #	Status	Responsible	Action Item
0002-A273	Done	Tony	Hand deliver Zone E WP retraction letter to DHEC 3/28/00. Outcome: Letter was provided 5/12/00.
0002-A274	Done	Dann	Schedule GIS Training for SCDHEC. Tony will assist with this item to see if SDIV's computer room can be used. Possibly schedule as part of the May meeting. Outcome: The training was scheduled at SDIV on 7/12/00.
0002-A275	Incomplete	Team	Schedule meeting for Zone G RFI scoping. EnSafe has provided CH2M Hill a draft scoping package; however, they are awaiting completion of the analytical database transfer to develop a GIS presentation to as a tool to assist the team during the scoping meeting. Outcome: Pending
0002-A276	Incomplete	SCDHEC	Schedule an additional site visit to SWMU 17 to get additional info on tanks and sumps. Outcome: The site visit is still pending.
0002-A277	Incomplete	Tony	Arrange for deep well at SWMU 196 and prepare scoping for IM to stop the surface water discharge. Outcome: The deep well has been installed. The IM scoping is still pending.
0002-A278	Done	Tony/EnSafe	SWMU 166 Pilot Study - original action was to add transition discussion to March agenda (preliminary discussion of whether or not the pilot study needs to be called an IM so the system can continue to be operated. Outcome: The system was shut off 4/14.
0002-A280	Done	Team	<ul style="list-style-type: none"> □ Bldg 177 (AOC 573); Propose additional sampling by March PT mtg. - Tony This action was revised at the March meeting to have the Zone E WP retraction letter state that the proposal to include conduct additional sampling would be addressed in the Zone E WP addendum when submitted by CH2M Hill. □ SCDHEC will issue a letter by 19 Feb 2000 requested additional work in this area. □ EnSafe check the well cap on SWMU 9 by the old Post Office. Outcome: Item 1 was completed when the letter mentioned in 0002-A273 was submitted. Item 2 was complete when a letter was issued 5/12. Item 3 was addressed by EnSafe personnel who closed and locked the protective casing.
0003-A281	Ongoing	Team	Resume rotating the team leader, identify primary agenda topics for the next meeting at the end of the current meeting, solicit additional agenda items 2 weeks prior to the meeting, and distributing the agenda 1 week prior to the meeting. Outcome: This action item will be ongoing as part of the team meetings.
0003-A282	Done	Tony/Gabe	The Navy needs to determine if the ownership of tanks has been transferred at facilities which have new tenants who are currently operating the tanks. Outcome: It was determined that the tenants pay the registration fees but the Navy remains responsible for compliance reporting.
			Need to verify that the ERAs in the Zone F, G, and K RFI reports follow the steps provided in the ERA "Process"

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0003-A283	Done	Todd	guidance document. Outcome: The ERAs do not currently follow the guidance in the Process document. CH2M Hill will be responsible for updating the ERAs.
0003-A284	Done	Team	At the April 10 th team meeting be prepared to discuss the Zone F RFI Work Plan Addendum comment responses and the scoping packing for completing the RFI. Outcome: The scoping was completed at the April meeting.
0003-A285	Incomplete	Tony/Gabe	Develop a comprehensive list of all oil water separators at CNC. Outcome: Pending - A status brief was given at the May meeting.
0003-A286	Done	Tony	Check on providing team members with electronic copies of the aerial photos from the most recent flyover. Outcome: The CD was provided on 5/16.
0003-A287	Incomplete	CH2M Hill	Provide a map showing the current extent of groundwater contamination and groundwater flow direction for all sites included in the plan. Outcome: The need for these maps will be discussed as the groundwater monitoring plan is finalized.
0003-A288	Done	Mihir	Provide CH2M Hill comments on the Draft Groundwater Monitoring Plan by April 25 th . Outcome: Comments were provided.
0003-A289	Incomplete	CH2M Hill	Provide an updated Groundwater Monitoring Plan prior to the May meeting. Outcome: Pending
0003-A290	Done	Todd	Update Project Team member list. Outcome: Updated list was e-mailed to Tony on 4/12.
0003-A291	Done	Tony	Provide SCDHEC a letter by 4/7 which states the Navy's official position regarding notifying property owners adjacent to the Annex of the groundwater contamination found on the Navy's property. Outcome:
0003-A293	Incomplete	CH2M Hill	Develop strategy for completing the delineation of groundwater contamination at the Annex.
0003-A294	Done	Mihir	Provide comments on the Zone G RFI Work Plan Addendum by 4/3. Outcome: Comments were sent out via e-mail on 3/31/00.
0003-A295	Incomplete	CH2M Hill	Prepare responses to SCDHEC's comments on the Zone I RFI Report and develop a strategy for completing RFI. Outcome: Pending
0003-A296	Done	Tony	Have EEG check on replacing the two well caps missing from the standpipes at SWMU 8. Outcome: EnSafe replaced the caps for the Navy.
			Review the draft Environmental Indicator form prepared by Mihir and provide feedback on format and provide feedback

Action Items			
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0003-A297	Incomplete	Team	by May meeting. Outcome: Pending
0004-A298	Incomplete	Dann	Provide team a copy of Tim Fields policy statement on action levels for lead based paint. Outcome: Pending - to be completed by 5/26.
0004-A299	Done	Tony	Will check on the Navy's policy regarding LBP in school facilities and other occupied spaces where children may be present. Outcome: The policy statement was provided on 5/16.
0004-A300	Done	Tony/Ann	Discuss with RDA the status of ACM in buildings to be renovated and demolished. Outcome: The Navy will only address ACM where it is damaged, friable, and accessible.
0004-A301	Incomplete	SCDHEC/ EPA	Review the EDC Phase I FOST response to comments and the revised document by May 12 th . Outcome: The document was not provided to the agencies until approximately one week before the May meeting which was did not provide adequate time for review. The new due date is 6/5/00.
0004-A302	Withdrawn	Tony/Dann/ Ann	Ask respective counsel or management about the permit transfer for clean parcels. Will the permit continue to apply to those parcels? Outcome: Pending
0004-A303	Incomplete	Dann	Check with Ted Simon regarding not using BEQ for PAH delineation during the RFI. Outcome: Pending
0004-A304	Done	EnSafe	Include Building 1824 within AOC 619 as part of the RFI. Outcome: Noted in the response to comments in the work plan addendum.
0004-A305	Done	Dean	Type up boundary definition language and provide. Outcome: Provided to the team via e-mail.
0004-A306	Done	Tony	Provide Paul a copy of 1346 rapid assessment. Outcome: Provided on CD.
0004-A307	Done	EnSafe	Submit revised responses to Zone F Work Plan Addendum comments along with figures of proposed work and a brief narrative describing the work. Outcome: The package was submitted to the team; however, since CH2M Hill will be responsible for completing the work they need an opportunity to review the package and possibly modify the recommendations.
0005-A308	New	Tony	Provide a draft inventory of all of the OWS at CNC.
0005-A309	New	Tony	Provide Paul B. an example of the monthly UST compliance reports by 5/26.
0005-A310	New	Navy	Complete an inspection of all of the monitoring wells to determine the condition of protective covers and locks.

Action Items			
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0005-A311	New	Tony	Distribute the updated project team member list.
0005-A312	New	Tony	Determine if Gabe has made arrangements to transfer the FDS reports to CH2M Hill.
0005-A313	New	Paul F.	Revisit the status of the GIS programming in June to determine if it will be possible to use an example from the Charleston project for training.
0005-A314	New	Mihir	E-mail the appendices to the permit to CH2M Hill by 5/31.
0005-A315	New	Tony	Have the well at Ce De Candy sampled and the results available prior to the June meeting.
0005-A316	New	Mihir	Review the "site boundary" definition developed at the April team meeting and provide feedback.
0006-A317	New	Tony	Tony will resolve how to resolve the Zone K components on Clouter Island. Clouter Island is not currently in the scope of the CH2M-Jones contract. The result of this action item will determine if ENSAFE or CH2M-Jones will address the Zone K sites on Clouter Island.
0006-A318	New	CH2M-Jones	CH2M-Jones will determine what additional field information is necessary to complete the RFI at Zone K. Additionally, CH2M-Jones will present a sampling strategy to further characterize SWMU 166 for the purpose of supporting an IM Work Plan.
0006-A319	New	CH2M-Jones	CH2M-Jones will contact the RDA to determine the status of sewer repair around SWMU 25 and SWMU 70. With this information, we can determine impact on water levels in the vicinity.
0006-A320	New	Team	Team will re-visit when an IM is appropriate (as compared to a CMS Work Plan) at the meetings on June 12-14.
0006-A321	New	Tony	Tony will take the lead on evaluating all the sites with "No" in the 725 or 750 column of the EI table drafted by CH2M-Jones. Tony will present this at the meetings at June 12-14.