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NOTES FROM BASE REALIGNMENT AND CLOSURE TEAM MEETING DATED 8 APRIL
2002 CNC CHARLESTON SC
4/9/2002
CH2MHILL

Notes from April 2002 CNC BCT Meeting

PREPARED FOR: Charleston Naval Complex BCT
PREPARED BY: Gary Foster
DATE: April 8 & 9 2002

The April 2002 BCT Meeting was held at SCDHEC's Farrow Road office in Columbia, South Carolina. The meeting began at 1315 hrs on Monday, April 8, 2002, and concluded at 1200 hrs on Tuesday, April 9, 2002.

The meeting began with introductions of team members, agenda review, and action item review. A statused copy of the action items from the March meeting is attached.

Monday, April 8, 2002

Update on Field Activities

CH2M-Jones provided an update on field activities at the following sites:

SWMU 39, 2 and 42: An additional 60 DPT borings for delineation of the plume associated with SWMU 39 are scheduled to be installed starting today. JoCherie witnessed the coring that was performed earlier.

SWMU 196: Performed another round of performance monitoring. Current results show a 85% to 95% reduction of dissolved phase concentrations of chlorobenzenes.

SWMU 25/70: Performed DPTs and well monitoring sampling to evaluate results of the injection of zero valent iron (ZVI) into the groundwater .

SWMU 166: Installed injectors and injected ZVI into the pilot study locations

SWMU 3: Collected soil samples

AOC 561: Installed new wells in preparation for the injection of hydrogen peroxide

AOC 607: Sampled wells and performed perimeter air monitoring. Discussed the expansion of the heating grid at one location based on the review of recent sampling data. Also explained that there was a water line leak in the treatment area and that CPW had been notified, but that the leak was relatively minor and that the repairs could wait until the heating was completed. We indicated that we would sample the water at the surface to verify that it was not contaminated. Paul Bergstrand stated that the most recent report showed an increase in voltage at various locations along the fenceline and requested that more frequent voltage checks be performed. No voltage reading have represented unsafe conditions and there is no evidence that the voltage readings represent a hazard.

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AOC 569: Installed new wells to delineate a VOC plume

SWMU 8: Sampling groundwater to confirm presence of hydrazine & TPH

SWMU 44 - Sampled wells for pH and metals

SWMU 42 and 44 Pathway Forward

Paul Favara gave a presentation showing the results of groundwater sampling in and around these SWMUs. Shallow groundwater is non-detect for VOCs and only DCE is detected in the groundwater in the deeper zone. At SWMU 42 there does not appear to be a source from which the VOC contamination could be from. The data suggest that the groundwater contamination is most likely a part of the SWMU 39 area plume. A new SAP has been generated to further delineate the plume and to verify whether the groundwater contamination in the area is coming from SWMU 39. For SWMU 44, the presentation related to the Response to Comments. One well had a hit of manganese and another beryllium. Following additional sampling and review, CH2M-Jones believes that the manganese could be the result of dredge fill or natural manganese reduction processes and the beryllium the result of low pH. Paul Favara indicated that it was our opinion that the arsenic and antimony found in one well located to the north of SWMU 44 is not related to coal storage activities should be evaluated as a new AOC (AOC 721) that relates to arsenic in soil in the area north of SWMU 44. The presentation showed the results of the recent sampling and provided justification for the request to pursue the contamination separately as AOC 721. A copy of the presentation is provided.

Tuesday, April 9, 2002

Hess Facility Update

Representatives from Amarada-Hess (Steve Freeman and Dawn Johnson) attended today's meeting and gave a presentation regarding the status of the remedial efforts at their facility which borders the northern boundary of the base. A plume attributed to former operations at the oil storage yard has previously been identified as extending onto the base. Amarada-Hess is operating a passive pump and treat system that is wind powered, and more recently supplemented by an electric pump. There are several wells located on the base that they monitor regularly.

Based on CH2M-Jones sampling there have been hits of benzene and MTBE (40 to 50 ppb) which do not appear to be related to any activity by the Navy. When asked about the MTBE, Amarada-Hess stated that they did not believe that it was from any of their operations either as there was never any gasoline (the major source of MTBE) stored at the facility.

CH2M-Jones described our proposal for the injection of hydrogen peroxide into the groundwater at SWMU 38. The location of the proposed injection wells are adjacent to the Amarada-Hess property, away from the plume but near the storage tanks. It is anticipated that approximately 600 gallons of a diluted 50% hydrogen peroxide solution will be injected. CH2M-Jones requested that Amarada-Hess research the drawings, underground utilities,

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material currently being stored in the tanks, and any other concerns and provide a response of their findings. It was stated that this investigation could be completed by the end of the week. Paul Favara suggested that a conference call with GeoCleanse (subcontractor performing the injection) take place to answer any questions/concerns.

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Approach in Addressing Dioxin RFI Data

Vijaya led a discussion regarding how CH2M-Jones proposes to address the dioxin issue. SCDHEC expressed concern about using 1 ppb as a COPC screening criterion on a sitewide basis. Further discussion ensued and it was decided that Vijaya would issue a memo detailing our position on dioxins. In general, dioxins at a site should be screened against RBCs and if appropriate, grid or background levels. The 1 ppb EPA action level could be considered later in the RCRA process as a consideration when making risk management decisions but will not be used as a COPC screening value.

Phase III FOST/EBST and LUC Update (Project Managers Session)

The draft Phase III FOST/EBST was issued last month and is currently being reviewed. SCDHEC stated that they would have their comments by April 15. Dann Spariosu indicated that the EPA's comments would not be completed by this date but that they would expedite their review and return comments as soon as possible. Tony Hunt indicated that the Navy would not obtain a signature on the Phase III FOST until the Regulatory comments were received and resolved. Based on their review to date, SCDHEC identified several issues:

- Paul Bergstrand requested a list of NFA sites
- Could not confirm that several of the sites were already in the Permit as NFA (ex AOC 660)
- Facility 89 - EBS discusses storage of paint solvents, etc but there is no AOC or SWMU associated with this facility. Questioning why.
- Facility 1640 - SCDHEC requested a copy of the closure documents (was SWMU 40, located within SWMU 2)
- SWMU 136/663 - Description and building do not correlate
- These were presented as examples only of some of their findings/concerns and a complete list will be developed. The 3 volumes of the Phase III FOST/EBST have been divided amongst the 3 SCDHEC teams for review.
- SCDHEC has been reviewing the comments from the Navy concerning the land use control management plan (LUCMP) that is part of the Permit modification which recently completed the Public comment period. Responses are expected by next week.

Robert Ryan of the RDA was present during the Phase III FOST and LUC discussions and also provided the following updates regarding the RDA's activities:

- Building 68 demolition contract is scheduled to be awarded next week.

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- Site work at facility NS-2. The tenant jumped ahead of the permit approval process and started filling an area where monitoring wells exist. The tenant has also expressed a desire to use an existing O/W separator. FOSL generation is in process.

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Status of Deliverables and Submittal Tracker Update

A quick review and status of documents under review by DHEC and EPA followed.

List of Attendees:

U.S. Navy: Rob Harrell, Tony Hunt

USEPA: Dann Spariosu

SCDHEC: Jerry Stamps, Jack Gelting, Paul Bergstrand, Gill Rennhack, and Mansour Malik.

CH2M-Jones: Gary Foster, Dean Williamson, Tom Beisel, Vijaya Mylavarapu, Paul Favara and Richard Garcia.

EnSafe: Steve Parker

Amarada Hess: Steve Freeman and Dawn Johnson (Tuesday only)

RDA: Robert Ryan (Tuesday only - part time)

Action Items from March BCT Meeting

- DHEC to research the status of SWMU 17, PCB site. Jo Cherie to look back for a document she believes is missing regarding this site. **Tom Beisel to assist.**
- CH2M-Jones to provide DHEC an update of AOC 701 (Gas/Service Station). **Forthcoming**
- CH2M-Jones to provide updated GIS to DHEC. New version is presently being developed and is under review at CH2M. **Still reviewing, intend to issue in near future**
- CH2M-Jones to investigate request from NOAA to abandon wells near Coastal Service Center. RTC-4 is planning an expansion of this facility to the South. It appears that there are 2 wells in this location. Also one additional well is located near an O/W separator at or near this location. **CH2M-Jones will recommend that wells remain**
- Navy to evaluate ways to better Public Communication from the project. Perform a better job at informing public of environmental advances and progress at the site and inform as to the availability of documents. Tony Hunt to document success of project to date.
- DHEC to provide a copy of the upcoming changes to SCHEC well regulations. **Regulation to become effective 4/26/02**

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- CH2M to provide an updated submittal Tracking Report to BCT members. **Provided**
- DHEC to provide comments from Part B revision. **Expect to issue comments next week**
- Navy is to provide Remount Road Improvement document from SCDOT.

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