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## MEMORANDUM (8 pages)

From: David Porter, SOUTHDIV

To: Lawson Anderson, EnSafe  
Tonya Barker/Rob Williamson, NAS Memphis  
Chris Bartku, SOUTHDIV  
Jack Carmichael, USGS  
Jordan English/Jim Morrison, TDEC (Memphis)  
Sue Hosmer, NAS Memphis  
Keith Johns/Diane Cutler, EnSafe (Raleigh)  
John Karlyk, SOUTHDIV  
Sue Lawley, SOUTHDIV  
LCDR T. Jones/LCDR D. Archambault, NAS Memphis  
Mark Taylor, SOUTHDIV  
Clint Willer, TDEC (Nashville)  
David Williams, EPA Region IV

Subj: NAS MEMPHIS BRAC CLEANUP TEAM (BCT) MEETING, 24-26 JUL 95

Encl: (1) Minutes from 24-26 July BCT Meeting

1. Enclosure (1) is forwarded for your review and information. The list below summarizes follow-up assignments from the BCT meeting:

**EnSafe (Lawson Anderson/Keith Johns/Ben Brantley).**

- Develop schedule and scope for TV inspection of storm sewer line serving former Hangar N-6 and the surrounding area (investigate sewer line in the vicinity of background well No. 5 and include if appropriate).
- Incorporate finding-to-date for all Assembly A SWMUs in the Assembly A RFI report (due 23 August).
- Develop "voluntary corrective action" plans for SWMUs 1 and 60, N-122, and N-7.
- Develop Fact Sheet for next RAB, covering currently status of cleanup program.
- Finalize Technical Memorandum for SWMU 45.

**EPA Region IV (David Williams):**

- Coordinate with Ted Simon in developing an alternative to the MCL TPH cleanup standard using a risk based determination from toxicity levels of the various TPH components.
- Provide review comments on the Tank Management Plan and Work Plans for Assemblies D and E.

**NAS Memphis - Environmental (Tonya Barker/Rob Williamson/Danny Chumney/Randy Wilson/Jim Heide):**

- Coordinate the disposal of IDW using Federal Prisoner labor.
- Investigate the removal of PCB contaminated soil west of Building S-242 (contact Jimmy Black for possible information)

**SOUTHDIV (David Porter):**

- Review Environmental Baseline Survey (EBS) database for sites to include in a "voluntary corrective action" scope with MK - specifically targeting sites were transfer is pending a removal.

SOUTHDIV (Mark Taylor):

- Develop scope with MK for "voluntary corrective action" removals.

TDEC (Jordan English/Jim Morrison):

- Provide review comments on the draft FOSL for the airfield, Tank Removal Plan, and Work Plans for Assemblies D and E.

USGS (Jack Carmichael):

- Investigate USGS capabilities with High Frequency Seismic, including an initial test run before August 31st to take advantage of existing funding.

2. Reminder: next BCT meeting will be 24-26 July.

3. Please call if you have comments and/or questions: (803) 743-0610, DSN 563, e-mail: dlporter@efdsouth.navy.mil.



NAS MEMPHIS BCT MEETING MINUTES  
24-26 JULY 1995

The NAS Memphis BRAC Cleanup Team was convened at 1:00 pm on Monday 24 July in the Environmental Department's conference room in building S-241. The following people were in attendance:

Tonya Barker, NAS Memphis  
Jack Carmichael, USGS (Nashville)  
Jim Morrison, TDEC (Memphis)  
Bill Parks, USGS (Memphis)  
David Porter, SOUTHDIV  
Mark Taylor, SOUTHDIV  
David Williams, EPA Region IV

David Porter discussed the status of the airfield Finding Of Suitability Lease. Funding is still pending for the removal of asbestos in Building N-2 (Air Traffic Control Tower). EPA Region IV has reviewed the draft FOSL and provided comments. These will be incorporated in the final document. Jim Morrison noted that he will check on the status of the state's review on the draft.

A discussion of the agenda items and presentations for the next RAB (August 29th) was postponed until Lawson Anderson, EnSafe, is present.

David Porter noted that CAPT Willis is departing as Commanding Officer, and CAPT Mallory will relieve him. Change-of-command is scheduled for 11 August. CAPT Willis will write members of the RAB, resigning as Navy co-chair, and informing the members of the new Navy co-chair, CAPT Mallory.

David Williams noted that Homestead Air Force Base is doing many "voluntary removals." These voluntary removal do not require a formal work plan, and do not require the normal review process. He was not familiar with the contract mechanism being utilized by the Air Force, but noted that "Hurricane Andrew" money was being used. He also provided copies of a draft EPA directive on "Application of CERCLA Municipal Landfill Presumptive Remedy to Military Landfills", as well as guidance on Corrective Measure Studies.

David Porter discussed items of interest from the Philadelphia BCT conference. One of these was the use of an "iron curtain" as a remediation technology for TCE. Another was radioactive waste. A presentation by the Navy's radiation support office (which handles all radioactive waste for the Navy) was given which stated that a typical Naval air station in the 1950s and 1960s had a paint shop where radium paint was used for airplane dials and gauges. Bill Parks and Jack Carmichael noted that we have gamma ray logs from the drilling operations, and they do not show any radiation except one well in the cockfield (test hole No. 4), and this is probably natural. David Williams stated that in addition to radium dials, in the past runway paint was often radioactive. Both David Williams and Jim Morrison noted that they have people on their

staff that are capable of doing a radiation survey, and will check into the possibility of having a survey conducted.

David Porter discussed the funding outlook for the remainder of FY95, and for FY96. He stated that there will be little additional money this fiscal year. There will probably be money to fund the asbestos removal in N-2 (Air Traffic Control Tower), but the Interim Measures removal at SWMUs 66 and 67 will be delayed until funds become available in FY96 (hopefully October 1995). He provided members of the team with cost-to-complete data through FY98.

The BCT conducted a field visit to two areas of concern on the south side (non-BRAC). The first of these was a fire extinguisher training pan. The environmental department recently discovered the pan and had the fire department cease operations. Debbie Hutson from the Fire Department, provided information about the pan. She noted that it is approximately 4 inches deep, and is used approximately once per month. Approximately 5 gallons of fuel is used per training session. The pan has been in use since the mid 1980s, and has a metal removable cover. The pan was observed to be full of rain water, and does not appear to leak.

The second area was a PCB storage near S-242. PCB contaminated soil was removed from the area in the late 1980s. According to Larry Jones (NAS Memphis), 100 plus drums of soil were removed. Larry Jones will check the files and also check with Jimmy Black (former environmental coordinator) for more details.

The meeting was adjourned for the day at 4:00 pm. The meeting reconvened the next morning at 8:00 am. Due to lack of air conditioning in S-241, the meeting was transferred to the Engineering Department conference room on the 2nd floor of Building S-236. The following people attended:

Jack Carmichael, USGS (Nashville)  
Jim Morrison, TDEC (Memphis)  
Bill Parks, USGS (Memphis)  
David Porter, SOUTHDIV  
Mark Taylor, SOUTHDIV  
David Williams, EPA Region IV

The first items of discussion were the two sites visited during the field investigation of the previous day. For the former PCB transformer storage area, it was decided to take PCB samples from the site (both surface and hand auger). If sampling shows contamination, then the site may become a new SWMU. Sampling should also check for noticeable soil discoloration. Use of field screening testes for PCBs may be possible, depending on the detection limit. This would allow a greater number of samples. For the fire extinguisher training area, the conclusion of the team was to remove the pan and take one soil sample. No further action will be needed unless the sample indicates contamination.

Jack Carmichael provided an update on high frequency seismic. USGS is capable of doing this work through their office in Connecticut. They schedule on a 1st come 1st served basis, and can

be at NAS Memphis in November. Jack Carmichael will check on the possibility of getting them on site before the end of August to conduct a pilot to determine the feasibility of using the technique at NAS Memphis. This would allow funding under the original contract award (funds expire August 31st under this award). He will review the scope of work to determine if seismic studies fall within the guidelines.

The team discussed the areas to be investigated using the technique. Bill Parks showed the team a draft drawing of the top of the Cook Mountain formation he generated based on the existing data. He feels that it is possible that there are three faults on the base, one of which he hypothesized is south of SWMU 7. The use of the high frequency seismic across these areas, specifically around Hangar N-126, could be used to better define the geology and pinpoint locations where DNAPLs would be likely to migrate.

Bills Park and Jack Carmichael also noted that it appears that Big Creek currently flows through a straightened man-made channel, and that the natural channel is possibly to the south of the current channel. It is possible that ground water is therefore flowing under Big Creek and discharging to the natural channel. For example, the sewage lagoons could be discharging to the south rather than the north, therefore the investigation of the lagoons should include sampling on all sides of the lagoons.

Jack Carmichael provided the team with a status update on the groundwater modeling efforts. A pump test will be performed before the end of August on well at SWMU 40. The water will be discharged to the sanitary sewer. Jack Carmichael will provide information and a memo for Rob Williamson to forward to the POTW about this operation.

The meeting was adjourned for lunch at 11:30 am, and reconvened at 12:45 pm with the following people participating:

- Lawson Anderson, EnSafe
- Tonya Barker, NAS Memphis
- Chris Bartku, SOUTHDIV
- Jack Carmichael, USGS (Nashville)
- Ken Fulmar, ROICC
- Mike Jones, ROICC
- Jim Morrison, TDEC (Memphis)
- Bill Parks, USGS (Memphis)
- David Porter, SOUTHDIV
- Mark Taylor, SOUTHDIV
- Steve Travis, Morrison Knudsen (Cleveland)
- David Williams, EPA Region IV
- Vic Young, Fisher and Arnold

Chris Bartku provided a history and the currently status of the work plan for the Interim Measures removal at SWMUs 66 and 67. Steve Travis and David Williams discussed specific EPA Region IV comments on the work plan. Jim Morrison stated that he would provide

comments from TDEC before 4 August. It was decided that to the extent possible, non-site specific sections of the final work plan would be as generalized as possible to allow reference in future MK work plans. Future MK work plans will include site-specific information, and will reference where possible information in this plan (similar to what was done at SWMU 45 - a brief site-specific work plan that referenced the comprehensive RFI work plan).

Chris Bartku noted that in the future, MK should be able to begin field work 3 to 4 months after the initial site visit.

After a break, Chris Bartku, Ken Fulmer, Mike Jones, and Steve Travis departed, and Russell Harris and Randy Wilson joined the group.

Randy Wilson provided BCT members with a copy of the EnSafe-generated Tank Closure Plan. The document is a management tool that discusses tanks in the BRAC area and the Navy's intent to either remove or leave in place. The plan covers regulated and unregulated underground and aboveground tanks, and oil/water separators. The team established 11 September as a due date for comments, with a request from David Porter that comments be provided before that date if at all possible. David Williams requested that the plan be arranged into sections to isolate the SWMUs from non-SWMUs. Randy Wilson suggested the following: (1) tanks to remain in place, (2) regulated tanks, (3) non-regulated tanks, and (4) SWMUs.

Vic Young discussed effort underway for the well head protection program. A draft plan should be available in October, and a final should be available to submit to TDEC in November. Russell Harris discussed the addition of a settling basin at the water treatment plant (vs the installation of a new well to replace the No. 1 Memphis Sands well). Such a basin would allow the use of the Ft. Pillow wells without blending the water with Memphis Sands wells.

Jim Morrison requested that Rodney Lumpkins be included in all future BCT meeting/agenda announcements.

Tonya Barker reported that the activity has decided to place the IDW from the Assembly A investigation at SWMU 41 (DRMO Salvage Yard). She noted that prison labor would not be available until September. She also noted that the new CO may have a different view on the use of prison labor. Lawson Anderson raised the question about investigation of the site (should disposal of the material be postponed until the site is assessed?).

Lawson Anderson provided an update on the TV inspection of the storm sewer lines. He stated that work could begin by the end of August, and field work would take approximately one week. The BCT reviewed the storm sewer maps and the lines to be inspected. Jack Carmichael noted that another line to consider is along Navy Road, which could offer a possible explanation to the PCE found in background well No. 5.

The team discussed monitoring well requirements. Additional monitoring is out of scope with the Navy's current contract with EnSafe. Additional money, which will not be available until FY96, will be required. The team decided that all wells should be sampled at least one more time.

This should be coordinated with the Assembly E field work if possible - coupled with existing data this would provide sampling during groundwater high and low periods. Landfills will be monitored quarterly for 1 year, then every 6 months for two years.

The meeting was adjourned for the day at 4:00 pm, and reconvened on Wednesday morning, same location, at 8:00 am with the following people attending:

Lawson Anderson, EnSafe  
Tonya Barker, NAS Memphis  
Jack Carmichael, USGS (Nashville)  
Jim Morrison, TDEC (Memphis)  
Robert Moser, EnSafe (Memphis)  
Bill Parks, USGS (Memphis)  
David Porter, SOUTHDIV  
Mark Taylor, SOUTHDIV  
David Williams, EPA Region IV

Lawson Anderson discussed that GPS matching problems their contractor is experiencing with the mapping effort. Also, he noted that the Technical Memorandum for SWMU 45 has been drafted and provided to NAS Memphis and SOUTHDIV for review prior to release to TDEC and EPA Region IV.

The team discussed possible "voluntary corrective actions" which would be grouped into one contract action with MK. The team decided that EnSafe will develop work plans for the following areas: SWMUs 1 and 60, N-122 (Welding Shop), and N-7. MK will be directed to develop removal work plans for the plating shop dry wells and the aboveground tank site at the riding stables. David Porter will review the EBS database to determine if any sites have transfer linked to a removal action. All team members were asked to develop potential sites to include with the MK contract.

Debbie Hutson from the Fire Department clarified information provided to the team on the fire extinguisher training area during the site visit on Monday. She has worked for the Fire Department since 1988, and to her knowledge, nothing except gasoline was every used in the pan. Contents of the pan had not been washed into the adjacent drainage ditch. Also, there is not a similar pan at the north side station. She noted that Halon extinguishers were once used, but dry chemical types were currently employed for the training. Jim Morrison requested that the compounds in the extinguishers be investigated. If the extinguishers contain a substance of concern, then take one sample at the site. Otherwise, no further action is required.

Robert Moser discussed the Corrective Measures Study (CMS) process.

Regarding testing for dioxins at SWMU 5, the team decided that samples should be taken at points where PAHs were found during the previous investigation. These samples will be worked into the field investigation for Assembly D (scheduled for Oct/Nov)

The team discussed comments on the Follow-Up Gray Area Work Plan, and reviewed the proposed sampling scheme at SWMU 60. Also, the team discussed the CAMP schedule. David Williams requested that an updated be developed based on a realistic schedule.

The meeting was adjourned at 10:40 am.