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To Lawson Anderson	From David Porter	
Co ENSAFE	Co SOUTHDIV	
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**FAX MEMORANDUM (7 pages)**

**From:** David Porter, SOUTHDIV

**To:**

Lawson Anderson, ENSAFE  
CDR Archambault, NAS Memphis  
Tonya Barker, NAS Memphis  
Jack Carmichael, USGS  
Jordan English, TDEC  
Sue Hosmer, NAS Memphis  
Keith Johns, ENSAFE

Sue Lawley, SOUTHDIV  
CDR Mason, NAS Memphis  
Jim Morrison, TDEC  
Mark Taylor, SOUTHDIV  
Clinton Willer, TDEC  
David Williams, EPA Region IV  
Rob Williamson, NAS Memphis

**Subj:** NAS MEMPHIS BRAC CLEANUP TEAM (BCT) MEETING, 27-30 NOV 94

**Encl:** (1) Meeting Minutes

1. Minutes of the subject meeting are forwarded as enclosure (1).

2. Re January walk-over of ravines: Please let me know when you would like to do this (we must plan in advance if we want to get the services of the Seabees). Do you want to combine this with RAB/BCT meeting the week of 23 January, or plan a separate visit? I plan to be in Memphis 9-13 January if you want to do it separately. Also, there is a Millington Reuse Committee meeting on 13 January for those interested in attending.

3. Updates since BCT meeting:

- All DPT samples from SWMU 1 (Fire Fighting Training Area) were clean.
- DPT rig is back on-site at SWMU 7. Off-site GC/MS confirmation of the DCE hit did not match any of the compounds in the library so it is considered a junk peak. However, there were additional hits in water at the 40 ft level with the pushes over the weekend (DCE, TCE, and PCE). All were < 20 ppb. These hits are also being confirmed by off-site GC/MS. Plan of action is to move outward in a diamond pattern and conduct one more series of pushes, taking water samples only.
- Geoprobe work has been completed at SWMU 45. 17 pushes were conducted and the extent of the plume is determined to be approximately 50' x 50'. Water table varies from 8-12 ft. All water samples at 12 ft were

clean, although there were hits in water samples at 10 ft. We are investigating the possibility of amending the MILCON project to include remediation of the site. Larry Hughes is conducting a geophysical investigation of the area tomorrow to determine if an unknown tank or other source exists in the area.

- SOUTHDIV has initialized action to have our (RAC) Remedial Action Contractor, Morrison Knudsen, conduct Interim Measure removal of the two plating shop dry wells (as soon as additional data becomes available).
- SOUTHDIV has initiated the investigation of both short term (worst case scenario of shutting down the two Memphis Sands potable water wells) and long term solutions to the potable water issue.

4. Please call if you have any corrections, additions, or questions at (803) 743-0610, DSN 563 (e-mail address: [dlp@efdsouth.navy.mil](mailto:dlp@efdsouth.navy.mil)).

*Thanks,  
David*

NAS MEMPHIS BCT MEETING MINUTES  
27-30 NOVEMBER 1994

A meeting of the NAS Memphis BRAC Cleanup Team was convened at 10:30 am on Monday 27 November. The following people were in attendance:

Tonya Barker, NAS Memphis  
CDR D. Clark, NAS Memphis  
Larry Hughes, EnSafe  
Keith Johns, EnSafe  
Jim Morrison, TDEC  
David Porter, SOUTHDIV  
Mark Taylor, SOUTHDIV  
Clinton Willer, TDEC  
Rob Williamson, NAS Memphis  
CAPT Willis, NAS Memphis

David Porter discussed the agenda for the RAB meeting to be held Tuesday night. He noted that Larry Hughes from EnSafe will give a presentation on geophysical investigations at SWMU 8 and 60. He also noted that Phil Whittenburg would be at the meeting Tuesday night to discuss the status of the airport master plan and the community's reuse plan. CDR Clark briefed the BCT on a consent decree being negotiated between NAS Memphis and Memphis and Shelby County Health Department over excess sawdust emissions (in case the issue is raised by Norman LaChapelle at the RAB).

David Porter discussed the agenda for the afternoon RAB tour. Jack Carmichael will conduct the tour.

Mark Taylor added the following items to the BCT agenda:

- metals and cyanide testing at SWMU 3
- additional tritium testing
- N-126 (SWMU 7) overflow pipe from drywell

David Williams added the following items to the BCT agenda:

- follow-up on dump found outside northern fence boundary (ensure contamination is not migrating onto NAS Memphis property)
- FOSLs

Larry Hughes presented the finding from his geophysical work at SWMUs 8 and 60.

The meeting was adjourned for lunch at 11:30.

The RAB Tour was held at 1:00 pm. RAB members Freida Ellerbrook, Charles Smith (with guest), and David Watt attended. Jack Carmichael explained the DPT work in progress at SWMU 7 and the analytical work conducted in the on-site mobile laboratory.

Following the RAB tour, the BCT returned to SWMU 7 to see a water sampled pulled from the DPT rig. The BCT then visited SWMU 45. The pit was full of water, and it was decided to return Tuesday morning after it is pumped out.

The meeting was adjourned for the day at 3:30 pm.

The meeting was reconvened Tuesday morning at 8:00 am. The follow people were in attendance:

Lawson Anderson, EnSafe  
Jack Carmichael, USGS  
Larry Hughes, EnSafe  
Jim Morrison, TDEC  
Bill Parks, USGS  
David Porter, SOUTHDIIV  
Mark Taylor, SOUTHDIIV  
Clinton Willer, TDEC  
Rob Williamson, NAS Memphis

Jack Carmichael briefed the BCT on the DPT work complete to date. He noted the following:

- 4 piezicones were pushed at SWMU 3.
- Refusal at SWMU 3 was in the 44-47 ft range (down to the fluvial at all locations).
- At SWMU 3, water samples were collected from top of fluvial; however, not getting water from the loess, except with vacuum (were able to get intermediate water at some locations using a vacuum).
- Submission of logs to health department must be qualified, as the piezicone reading are calibrated to Florida soils and do not directly correspond to soils at NAS Memphis.
- Water sample from 16-17 ft across the street from SWMU 3 (between two existing monitoring wells) showed a level as 12 ppb methylene chloride - believed to be an anomaly.
- 5 piezicones were pushed at SWMU 7 (4 in concrete/1 in adjacent gassy area). No water in the intermediate zone (12-14 ft to the top of the fluvial). Soil samples were taken at the 10-12 and 20-22 ft levels. Water was sampled at refusal (37 ft).
- K value for fluvial was noted between  $10^{-6}$  cm/sec to  $10^{-7}$  cm/sec.

The BCT discussed the strategy for rotosonic drilling at SWMU 3 in January. It was decided to have a angled rotosonic boring to collect data from the bottom of the drywell, then use the data to have Morrison Knudsen (the Navy's Remedial Action Contractor) conduct a removal of the drywell. There was some discussion about using rotosonic to install a well in the fluvial, but it was noted that a fluvial monitoring well already exists at the

site. It was also decided that all existing monitoring wells at SWMU 3 and 7 would be tested.

The BCT visited SWMU 45. Robert Smith briefed the team on the petroleum contaminated soil found when they began to dig under the pad. After discussing the issue, it was decided to bring in a geoprobe to determine the extent of contamination and cover the hole with plastic to keep out rainwater.

After leaving SWMU 45, the team visit the drums found in the SWMU 6 ditch to the west of the aircraft parking apron. In walking the area, Clint Willer noted a pile of rusted 9 volt batteries. David Williams noted one of the drums was bulging. The team discussed conducting a field walk-over of ravines and overgrown areas in January with the help of the SeaBees.

The meeting was adjourned for lunch at 11:30 am.

The meeting was reconvened at 1:00 pm with a site visit to SWMUs 8, 60, and 36. A site visit was also made to the potential new SWMU in the edge of a pasture north of the NWR stables. Due to the presence of several drums, it was decided to handle the new areas as a SWMU.

Upon return from the field visits, the BCT reviewed the BCT Status Update to be presented to the RAB. It was decided to brief the RAB on the new site.

Rob Williamson noted that the SeaBees would be available to assist in the January walk-over of ravines.

Per Sue Hosmer, in response to the station's press release on DPT, TV Channel 5 called and requested an interview at 2:00 pm on Wednesday.

The meeting was adjourned for the day at 4:00 pm.

A RAB meeting was held at 7:00 pm - minutes will be forwarded separately.

The meeting was reconvened on Wednesday morning at 8:30 am. The following people were in attendance

Lawson Anderson, EnSafe  
Tonya Barker, NAS Memphis  
Jack Carmichael, USGS  
Keith Johns, EnSafe  
Jim Morrison, TDEC  
David Porter, SOUTHDIV  
Mark Taylor, SOUTHDIV  
Clinton Willer, TDEC  
Rob Williamson, NAS Memphis

The BCT discussed the RAB. Everyone thought the room layout and sound system were improvements over past meetings and should be continued. Regarding the Airport Master Plan meeting on December 13th, Clint Willer thought it was important that someone attend. Since the BCT will be in Cincinnati, RAB Williamson will attend and report back to the BCT on public participation at the meeting. Clint Willer also suggested that at the January RAB meeting we suggest shifting to less frequent meeting, perhaps quarterly, with interim updates from the BCT.

The team discussed the concept of an electronic bulletin board system for use by the RAB. It was decided that although it was a noble idea, it was too complicated, too costly, and not feasible. It was noted that the Base Transition Office computer will be available for use by the public.

Bill Parks, USGS, delivered preliminary results from the SWMU 7 DPT hole in the grassy area to the south of Hangar N-126. The results showed a 1,1 dichlorethene (DEC) level of 60-85 ppb in the water at 40 ft (top of the fluvial). Much discussion ensued, which resulted in the following plan of action:

- Move DPT rig back to SWMU 7 and conduct additional pushes in the grassy area between the initial hit and potable water well No. 1 (have Public Works follow-up on utility lines in the area to facilitate DPT work).
- Have roto sonic drill rig on-site in January, and place wells based on additional DPT information.
- Immediately sample two Memphis Sands potable water wells (wells No. 1 and 2) using on-site laboratory to ensure integrity of aquifer - sample weekly thereafter using on-site laboratory (lab can detect at 5 ppb). Shut down wells if we get a hit.
- Have DPT contractor excavate apparent overflow pipe from drywell to determine where it discharges.
- Cut back on use of potable water wells No. 1 and 2 as much as possible.
- Have SOUTHDIV investigate alternatives for potable water system, both short term (worst case scenario of immediately shutting down both Memphis Sands wells) and long term solutions.
- Rush off-site analysis of samples (Jack Carmichael to get DPT contractor to use their off-site laboratory).
- Notify the Memphis and Shelby County Health Department of the findings (qualify as preliminary and that we are confirming the results). SOUTHDIV to draft letter, and NAS Memphis to sign.

Russell Harris, potable water treatment plant operator, briefed the BCT on the water system. He stated that he could not shut down both Memphis Sands wells because of turbidity problems with the deeper wells. He noted that wells 1 and 2 were sampled in February (detection limit of .5 ppb). Mr. Harris stated that he

might be able to clear the turbidity in well No. 4 with 24 hour pumping into North Fork Creek for several months.

The meeting was adjourned at 12:00 pm.

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