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MEMORANDUM

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SUBJECT: Project Update #21; NSA Memphis RFI; Millington, Tennessee; CTOs-094/106

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(NOTE: The last project update was numbered 19, but should have been #20)

FISH TISSUE ANALYSIS (SWMU 9) — A draft human health risk assessment (HHRA) has been prepared using the tissue analysis results for the catfish collected from the sewage lagoons (SWMU 9). The HHRA has been reviewed internally (within E/A&H), is now being revised, and should be available for BCT review next Thursday, May 30. Preliminary results indicate there could be a risk exceeding the standard EPA threshold under a subsistence or frequent consumption scenario. These results should be considered preliminary for a number of reasons, including the lack of background fish data, lack of knowledge about the source of the contaminants, and because whole fish, rather than filets, were analyzed. PCBs and DDE, the main contributors to risk, tend to accumulate in the liver and skin, rather than in the edible filets.

SWMU 10 (NORTHSIDE LANDFILL-EASTERN PORTION) CSI — The geoprobe and hand auger sampling were completed last week. No volatile organic compounds (VOCs) were detected in soil. Low concentrations of toluene were detected in groundwater at five sampling points located across Dakar Street from SWMU 5 (Aircraft Fire Fighting Training Facility). Toluene concentrations ranged from 2.1 - 4.6 µg/L at 20 feet (loess) and 2.0 - 5.6 µg/L at 50 feet (fluvial deposits). The tap water RBC and MCL for toluene are 750 µg/L and 100 µg/L, respectively. Analytical results for soil samples collected from the gullies and landfill surface have not been received from the offsite laboratory.

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GEOPROBE INVESTIGATION OF NORTH FUEL FARM (TANKS 336/337) — The geoprobe investigation was completed last week. Releases were discovered on the south side of Tank 337 and along the 10-inch gravity pipeline used to fill both tanks. The release near the tank extends out about 15 feet from the tank and the release along the 10-inch pipe is about 75 feet long and 35 feet wide. The maximum TPH (GRO+DRO) concentrations in the vicinity of the tank and the 10-inch pipeline were 1,790 mg/kg and 399 mg/kg, respectively. Groundwater sampling was conducted around the tanks only. Water was not present in the loess, so all groundwater samples came from the fluvial deposits. There was a single 1,1-Dichloroethene hit (2.2/1.6 μg/L duplicates) in the fluvial deposits groundwater.

SWMU 67 (HORSE PASTURE DISPOSAL AREA) — The 50-gallon waste oil tank (now thought to have been a kerosene tank) was not sampled because there was not enough liquid in it to make it worthwhile. Its contents were soaked up and the tank will be cleaned before turning it over to DRMO for disposal. The 55-gallon drum containing what appeared to be water was sampled and analyzed for VOCs at the onsite laboratory. No VOCs were detected.

TEM/GEOLOGICAL/CHEMICAL INFORMATION MAPS OF SWMU 7/APRON AREA — These maps will consist of a series of upper and lower fluvial deposits maps integrating TEM and field data along with groundwater monitoring results. Maps based on the maximum concentration detected at each well location will be prepared for perchloroethylene, trichloroethane, and carbon tetrachloride. Maps will also be prepared for the daughter products of each of these compounds. The maps should be available for review by the BCT next Thursday.

3-D DESKTOP MODEL AND MAPS OF BASEWIDE GEOLOGY — The 3-D desktop model, previously described as being of the SWMU 7/apron area, will actually be a basewide model in order to show more topographic relief. This model should be available in about two months, along with a series of basewide geology maps integrating TEM and field data.

DOWNHOLE GEOPHYSICAL LOGGING OF WELLS — Downhole induction/gamma ray logging of the recently installed monitoring wells was completed this week. Twenty seven wells were logged, including the new background wells, one well per Assembly E SWMU, one well each at SWMUs 15 and 21, and a number of wells on the apron.

SWMU 40 (SALVAGE YARD NO. 1) USTs — The presence of the two USTs at SMWU 40 has been verified by excavating the overlying soil. The USTs will be removed under the Navy UST program.

VOLUNTARY CORRECTIVE ACTION WORK PLANS — The status of the various work plans is as follows:

SWMU 18	The work plan for removal of this UWT should be ready for Navy review the first week of June.
SWMU 3	The work plan for removal of the dry well should be ready for Navy review by the middle of next week.
SWMU 7	The work plan for removal of the dry well should be ready for Navy review by the middle of next week.
Gasoline Pits	The work plan for removal of the gasoline pits along the edge of the airfield apron should be ready for Navy review by the middle of next week.

STATUS OF DELIVERABLES — An updated Deliverable Schedule table is being prepared for distribution next week. The status of some of the major documents is provided below.

Assembly A

SWMU 1	Navy comments received; USGS reviewing draft
SWMU 3	Final (Revision 1) submitted to BCT
SWMU 5	Draft for BCT review scheduled for production Thursday, May 30
SWMU 7	On hold pending further investigation results
SWMU 8	Waiting on results of recent additional sampling; revised draft will be submitted to Navy/USGS after incorporating new data
SWMU 60	Incorporating results of additional sampling; revised draft should be ready for Navy/USGS review during first week of June

Assembly B

SWMU 40	BCT comments received; will include PRE when Revision 1 is prepared
DITCHES	BCT comments received, except ecological risk assessment comments; will finalize Assembly B report upon receipt of these comments (sent revised eco risk section to EPA on May 21)

Assembly C

SWMU 15	Will prepare RFI report after receipt of groundwater data
SWMU 21	Will prepare RFI report after receipt of groundwater data
SWMU 26	PREs and BCT comments have been incorporated into Revision 1 which is scheduled for production tomorrow; after Navy review, will submit to BCT
SWMU 27	Same as SMWU 26
SWMU 62	Same as SWMU 26

Assembly D

USGS comments on Draft CSI report have been received; Navy will bring their comments to BCT meeting next week

Assembly E

Draft RFI report being prepared; waiting on groundwater data

Assembly F

Draft CSI work plan has been submitted to BCT

Assemblies G and H

Draft CSI work plans will be combined and prepared after approval of Assembly F work plan.

Corrective Action Management Plan

Revisions to the CAMP are about 75 percent complete. A copy should be available for Navy review during the first week of June.