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a joint venture for professional services

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MEMORANDUM

TO: Mark Taylor/David Porter, SOUTHDIV
Tonya Barker/Rob Williamson, NAS Memphis
Jack Carmichael, USGS
David Williams, EPA
Jim Morrison/Jordan English/Clint Willer, TDEC

FROM: Lawson Anderson, E/A&H^{LA}

SUBJECT: Project Update and Projected Schedule of Activities; NAS Memphis RFI; Millington, Tennessee; CTO-094

DATE: November 18, 1994

GEOPHYSICAL SURVEYS: Results of the survey at SWMU 60 (Northside Landfill) indicate a well-defined area of disturbed soil and buried metallic materials on the western end of the SWMU. Other areas appear to be clear. The survey at SWMU 8 (Cemetery Disposal Area) did not reveal any areas of disturbed soil or buried metallic materials. Larry Hughes went back to the site and took additional EM-31 measurements to tighten up the grid, but this did not change the findings. Phil Coop (EnSafe) said that the flat, bermed area revealed by clearing the site fits the description of the area shown to him in the past by George Robertson (former NAS Memphis Environmental Division Director).

DPT SURVEY: The first DPT survey began Monday afternoon, November 14 at SWMU 3 (N-121 Plating Shop Drywell). The work at SWMU 3 should be complete Sunday afternoon. In general, we have been able to collect shallow (10-18 feet; loess) and deep (42-47 feet; fluvial deposits) water samples, but the loess has not yielded water at intermediate depths. As of Friday afternoon, all sample results have been below detection limits (BDL), with one exception. A shallow water sample collected across the street from the drywell had a methylene chloride concentration of 12 ppb. This area will probably be sampled again and split for laboratory confirmation, especially if results for samples collected closest to the drywell (to be collected Saturday and Sunday) are also BDL.

The field laboratory is running EPA Method 8021 (halogenated and aromatic volatile organic compounds; combination of Methods 8010 and 8020) using a GC/ELCD/PID. An ELCD or electrolytic conductivity detector is also known as a Hall detector. It should provide better detection limits than an electron capture detector (ECD).

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Coring of the concrete apron at SWMU 7 (N-126 Plating Shop Drywell) sample locations is scheduled for Saturday. The survey at SWMU 7 should begin Sunday afternoon or Monday morning.

SWMU 45 INTERIM MEASURE: To investigate the source of the paint chips found in the soil sample from beneath the slab, the slab was pulled up (by the SeaBees), revealing another slab underneath. The bottom slab appears to be the original slab, as the four corners (where the roof support posts would have been) had been removed. About one-fourth to one-third of the slab on the east side had been broken up revealing quite a bit of blue paint in the underlying soil. There were also paint stains on the unbroken portion of the slab. It appears (from digging around with a hand shovel) that the stained soil is limited to the east side of the slab.

The proposed plan is:

As with the first slab, treat it by removing 0.60 cm from the surface of the unbroken portion of the slab.

Remove the slab.

Remove any visibly stained soil, then collect a composite confirmation soil sample from the four corners and middle of the slab area.

Containerize the removed soil with the concrete chunks from the broken up portion of the slab and the concrete debris from the planing of the slab.

Collect a disposal characterization sample from the containerized soil and debris.

Treatment of the bottom side of the slab would depend on whether it was stained or was overlying stained soil. The concrete planing subcontractor is scheduled to be onsite Tuesday, November 22.

GRAY AREA INVESTIGATION: All gray area field work has been completed. Most sample locations have been surveyed using GPS. Sample locations remaining to be surveyed include the turkey shoot, one location on Tanya Lake, and the gasoline pits. Sample locations at N-122 and the former MWR shooting range will be resurveyed due to battery failure. The GPS survey of the remaining sample locations will take place the week of November 28.

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CORRECTIVE ACTION MGMT. PLAN (CAMP): The revised CAMP should be ready for distribution this week.

RFI WORK PLAN: We will try to get revised pages out this week. Work has begun on the Assembly B SIPs. Fred Swann of E/A&H will call Rob Williamson Monday morning, November 21 to coordinate a site visit to determine the exact location of SWMU 6 (N-126 Battery Shop Storm Sewer and Ditch).

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