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NAS JACKSONVILLE
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MINUTES FROM 4 JANUARY 1994 MEETING TO DISCUSS OPERABLE UNIT 3 (OU 3)
REMEDIAL INVESTIGATION FEASIBILITY STATUS NAS JACKSONVILLE FL
1/21/1994
ABB ENVIRONMENTAL



Meeting 7889
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MEETING MINUTES

**OPERABLE UNIT 3
NAS JACKSONVILLE**

DATE: January 21, 1994

DATE OF MEETING: January 4 & 5, 1994

PLACE: ABB Environmental Services, Inc's Arlington, VA Office

SUBJECT: Operable Unit 3 - RI/FS Work Plan Review of Draft Chapters 1 and 2,
NAS Jacksonville, Jacksonville, Florida

PREPARED BY: Peter L. Redfern

ATTENDEES:

ABB Environmental Services, Inc.

SOUTHNAVFACENGCOM

Conrad Bernier
Wayne Britton
Greg Beumel
Peter Redfern

Joel Murphy

PURPOSE: To reach a mutual understanding of the purpose of ABB-ES's presentation to FDEP and EPA on January 12 and 13, 1994 and to present ABB-ES's findings and recommendations to date.

DISCUSSION:

- 1.0 Joel opened the meeting by stating that with respect to the Presumptive Remedies, he felt that we now know a considerable amount about the site, considering the Work Plan scoping activities conducted to date. He acknowledged that we may not have gathered sufficient information to adequately design a presumptive remedy. As such, he is willing to live with a success rate of one in three chances with respect to this issue.

- 2.0 Wayne Britton gave a brief field investigation overview, closing his presentation by stating that as part of the proposed work plan he would be recommending that ABB-ES take "filtered samples" for metals analyses. This decision was based on his inability to place much credence in the unfiltered samples obtained

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by the CPT rig. Joel stated that he was aware of the problem of filtered vs unfiltered samples but would not permit ABB-ES to conduct additional analytical testing as the regulatory agencies do not accept filtered sample results based upon the potential chance of alteration the filter media may have on the final results.

- 3.0 Joel stated that ABB-ES needed to provide a narrative rationale within the Draft Final Work Plan for the modification of the pesticide data results. Wayne Britton indicated that the basis for this modification would be included accordingly.
- 4.0 With reference to Section 2.4 within the Draft Chapter 1 & 2 of the Work Plan, Joel stated his preference for a total TOX map, showing the total contamination at depths ranging from 0 to 20-feet, 21 to 60-feet, and 61-feet to the depth of investigation. He is looking for "...a reasonable snap shot of what exists".
- 5.0 Wayne explained that PCE is encountered in selected areas, i.e., in the vicinity of the dry cleaners. Additionally, TCE, DCE, DCA (all breakdowns of PCE) were encountered. DCE further breaks down into vinyl chloride, which breaks down into Methyl chloride. Chloroform, a break down of carbon tetrachloride; carbon disulfide; and methylene chloride were also encountered. Joel stated that methylene chloride was encountered during a previous investigation at Site P151. He also indicated that methylene chloride is used as a stripping agent and is thus washed off into the industrial sewer. He further stated, that the industrial sewer flow moves south along Wright Street to a pump station where it pumped North to the industrial treatment plant. Joel indicated that there was a probability that this gravity sewer has been leaking over the years, which could result in methylene chloride being in the groundwater.
- 6.0 Wayne indicated that the carbon disulfide was encountered in the middle layer of the surficial aquifer, which may be considered a high sulfide bearing aquifer layer, existing naturally within the environment. This will be compared against background conditions found during the field investigation for OU1.

Joel stated that carbon disulfide found during the field investigation was probably coming from the cold carbon stripping process that is used in stripping graphite from airplane parts.

- 7.0 The issue of background sampling done previously at OU1 was brought up as providing a sound basis for understanding what might be considered as naturally occurring materials in the environment. ABB-ES will review data for comparison to that encountered at OU3.

- 8.0 Joel stated that he would be comfortable for comparison purposes using field data previously analyzed under EPA Level II, which experienced an 80% correlation factor, as compared against the 10% samples analyzed, which followed Level III analytical procedures. His contention is that the screening data should just be showing whether or not the site is contaminated, nothing else. In the presentation of this data, Joel felt that it would be appropriate to present "*order of magnitude*" contamination.
- 9.0 Wayne stated that we have limited data points with respect to semi VOAs, as the on site lab could not perform this laboratory function, with the only analytical results presented coming from the 10% submitted to the off site laboratory.
- 10.0 Joel requested that we confine the TPH investigation to those pipeline source areas where TPH contamination was encountered. He stated that we should use personnel from ABB-ES's Orange Park office to conduct a drawing evaluation of those documents which show fueling systems common to the helicopter flight line within OU3. Specifically, that ABB-ES conduct the investigation now if these personnel are available. Should they not be available, we should include this requirement within the Draft Work Plan.
- 11.0 Wayne stated that as part of the Work Plan RI requirements he would be requesting that all wells and piezometers within the AOC be sampled as one event, conducting a full screen analyses. In view of the large number of wells installed about Building 873 (Test Stand) a selection of appropriate wells at this location will be made rather than sampling all well locations.
- 12.0 As a means of developing a better understanding of the hydraulic conductivity at various locations about the AOC, Joel has requested that ABB-ES conduct five slug tests, including the cost within the Cost-to Complete for OU3.
- 13.0 From information taken from a site map of Camp Forrester (Johnston) dating from the 1920s Joel states that there was a *garbage dump* shown, which could harbor most anything. Based upon his concern of the contents at this location, Joel requested that we locate the dump and include the installation of monitoring wells to evaluate the groundwater conditions about the area. Additionally, Joel has requested that ABB-ES include the installation of cluster wells at the SW corner of Building 780 and West of Building 101D. The number of wells should be based upon local site stratigraphy. He further stated that there will be a requirement to install:
- two well clusters inside Building 101...one cluster in the Jetline and the other cluster in the P3 Hangar to the south of Building 101;

- one cluster each at Building 101S and 101T;
- one cluster near CPT location #43.

In consideration of the building usage, Joel pointed out that ABB-ES will need to develop a supportable rationale to install these wells for review by NADEP personnel.

- 14.0 The discussion of unfiltered vs filtered samples was again raised. ABB-ES postulated that should we use a filter media that was both non-absorbent and non-adsorbent, this might address the question of whether or not there is an issue of dissolved metals at the site. Wayne emphasized his position by stating that every CPT location presently shows metal levels exceeding ARARs. To establish a better understanding of background levels developed under OU1 a comparison should be made, showing a range of what exists to that found at the OU3 area. Joel stated that unless this information will be useful on an engineering basis he doesn't want to do anything further with respect to this issue. Wayne stated that with respect to the engineering basis Joel was referencing, ABB-ES felt that the issue of metals needed to be dealt with, considering that the ARARs were exceeded for arsenic, lead, chrome, and cadmium about the OU3 investigation.
- 15.0 Joel pointed out that any water data taken from the temporary wells as part of the P-615 investigation could be unreliable.
- 16.0 Joel raised the question of whether or not ABB-ES would be recommending any further soil borings within the AOC. He suggested that soil borings might be appropriate to further investigate PSC 14. ABB-ES responded that it may also be necessary to bring the CPT rig back to fill in any voids that may be determined, following a complete review of the soil stratigraphy data.
- 17.0 Joel emphasized that it was his desire that the *"...engineering side needs are presented in the Work Plan so we are addressing the full body of needs"*. Specifically, Joel reiterated his previous position that everything necessary with respect to the feasibility study/presumptive remedies should be included within the Work Plan...one shot data gathering.
- 18.0 Joel pointed out that PSC 15 field investigation needs should be incorporated within the Work Plan. This area was not included within ABB-ES original field scoping activities. Additionally, ABB-ES needs to propose a specific field investigation program for each of the 20 sites previously identified by Stan Garrison at NAS Jacksonville.



If there are any errors of omissions with respect to the above, please contact the writer.

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