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MINUTES FROM ORLANDO PARTNERING TEAM MEETING ON 12 NOVEMBER 1996 NTC
ORLANDO FL
11/12/1996
NAVFAC SOUTHERN

ORLANDO PARTNERING**MEETING MINUTES**

Date - November 12-14, 1996
 Location - NTC Orlando
 Team Leader- Wayne Hansel
 Recorder - John Kaiser
 Gate Keeper/Timekeeper - Mac McNeil
 Facilitator- Anne Marie Lyddy

ATTENDEES:**OPT MEMBERS:**

Wayne Hansel
 Lt Gary Whipple
 Oscar "Mac" McNeil
 John Mitchell
 Nancy Rodriguez
 John Kaiser
 Steve McCoy

SUPPORT MEMBERS:

Eric Nuzie (Tier II REP)
 Mark Zill (NTC PW)
 Barbara Nwokike (SDIV RPM)
 Rick Allen (ABB-ES)
 Mark salvetti (ABB**)
 Capt Yesensky (NTC)
 Nick Ugolini (SDIV)
 Ann Marie Lyddy (Facilitator)

GUESTS:

Harry Doo (SDIV **)
 Greg Brown (FDEP)
 Shannon Gleason (ABB **)
 Rich May (ABB**)
 Bill Hall (Newfields**)
 Mike Maughon (SDIV **)
 Tom Conrad (BEI**)
 Gomes Ganapathi (BEI**)
 Gaines Smith (BEI**)
 Kurt Sichelstiel (ABB**)
 Harlan Faircloth (ABB**)
 Mike Campell (B&R)
 Sam Patterson (B&R)

Those marked with a (**) attended only the OU 4 discussions the afternoon of 11/12.

ATTACHMENTS DISCUSSED AT THE MEETING

1. UST/IR Update and Status
 2. PAH Approach handout
 3. ABB's OU 4 IRA Presentation
 4. NewField's (CRTT) OU 4 interim results Assessment Presentation
 5. BEI's OU 4 Presentation
 6. Workplan for SA 52
 7. 7174 CAR presentation material
 8. OU 2 Workplan Comment Responses
 9. OU 1 RAD Resolution presentation
- November 12, 1996**

CHECK-IN, NEW MEMBER INDUCTION

The charter was read in its entirety. Lt Gary Whipple was introduced as well as three Brown and Root people. SOUTH DIV explained that they received only 25 percent of the expected funding for FY 97. Additional moneys would probably not show up until second quarter. Consequently the attendance of all contractors at future OPT meetings was discussed. Brown and Root's OPT member will be the TOM who currently is Steve McCoy.

An ice breaker exercise was conducted by Ann Marie that required the team to develop team strengths and future expectations.

UST, IR, TRANSFER UPDATES

John K presented the IR and UST update status. In addition to the hand out information, two other issues were brought to the OPT. One issue was the significant increase in cost for Orlando Sentinel ad space for the RAP meeting announcements. Thursday and Sunday ad costs went from about \$300 and \$700 to \$780 and over \$3000, respectively. This is because up until now the Sentinel had been charging local retail rates. The new costs reflect the Government cost; which should have been charged all along. The OPT decided to bring the issue to the RAB and get their input. At the Wednesday night meeting the RAB agreed not to place a Sunday ad and to search for other more cost effective ways to advertise RAB business.

The second issue was how the OPT would like to receive updated issues of the Final Study Area Screening Reports. It was agreed that available completed reports, all TABS (53) and the binders would be sent to those on the distribution list. TABS not containing an actual final report will be slip sheeted with appropriate wording.

On Wednesday morning Nick Ugolini and Mark Zill gave a quick update on the current AST/UST removal efforts: 25 tanks had been removed to date and the effort by the Pensacola team should be completed by Thanksgiving. So far two contaminated areas have been found: one AST (bldg 2426) and one UST (bldg 7241-2). **Post Note** : ADD bldgs 7107 and 7125-A.

Wayne gave the transfer update. The ROD is ready to be signed. The EDC is being reviewed by Mr. Cassidy. The Orlando City Council should approve the Capehart Housing transfer during a meeting on the 17th and 18th of November.

Eric Nuzie gave a Tier II update. The newly established Tier III will not have contractors as members. Eric was asked about an award the Jacksonville team received. He said they received it basically because they had overcome significant difficulties and issues. He said that although the Orlando team has always performed extremely well, Tier II still felt the team had to work with the new members of its team prior to any note on ultimate success be made.

Captain Yesensky gave his transition brief at 1300. He said that Mr Cassidy should sign the ROD by 18 November. The EDC and Deed for the housing should also be approved by that date. On December 4 and 5 there will be a meeting during which agreements between the City and the Navy to transfer the Southwest corner of the main base and the golf course are expected to be reached. The new goal is to have 66% of the base transferred by January 1, 1998.

PAH APPROACH

Rick Allen showed a couple of slides from a New England study which addressed elevated PAHs in urban areas. John Mitchell expressed concern about the impending transfer of any property that has PAH risk exceedances. Some PAH sites were discussed on Nov 13. Further discussion of PAH approaches was deferred until the December meeting.

AREA "C" OU4 IRA UPDATE AND DISCUSSION:

Wayne introduced the next topic; OU 4 IRA discussions which would lead to a remedial technology decision. Because of the large number of guests and technical support people at the meeting, the OPT meeting ground rules were read and posted for all to see.

John K introduced the ABB presenter, Shannon Gleason, by stating the four basic constraints under which the OPT had directed the Focused Feasibility investigation and draft study. Those

constraints were: scope (funding levels), schedule, exceedances of regulatory standards, and public perceived need for action at Lake Druid.

Shannon presented the Site history, Initial and additional site screening actions and results, pumping test results, the Focused Feasibility Study (FFS), and the over-all RIFS scope. The FFS portion addressed hydraulic control and extraction of the ground water as well as other remedial options that had been reviewed during the study.

Bill Hall from NewFields and Mike Maughon (CRTT members) presented interpretive results from the investigations that have been accomplished at OU 4. They presented a number of source theories and potential options for the RA.

Mac presented BEI's OU 4 interpretive results also and introduced Dr. Gomes Ganapathi. He presented various options that could be used to address the contaminants that exist in the OU 4 IRA study area.

Since all attendees had already visited the site previously, the scheduled site visit was canceled and the team moved directly into discussions on the problem at OU 4.

Ann Marie (the facilitator) tried to define "the problem" and focused discussion on developing an objective around which brainstorming could occur. The original Remedial Action Objective was:

To gain hydraulic control over the portion of the aquifer that provides a direct path for the migration of total VOC concentrations greater than 100 ug/l to Lake Druid.

After significant discussions it was agreed to rewrite that objective as:

To gain control over the migration pathways of VOC concentrations that contribute to surface water exceedances in Lake Druid.

More discussion followed concerning the pathways and potential sources of the contamination. It was agreed that three potential sources of lake contaminants exist, they are:

Ground water, sediments in the lake, and the creek area. The creek is more like a seep or extension of the lake shore and receives its contaminants from the ground water...some described it as a short circuit of ground water heading to the lake.

The following tables are the results of brainstorming for remedial technologies that would fit within the objective and address the three sources. Pros and Cons were then attributed to each of the technologies.

GROUNDWATER	SEDIMENTS	CREEK
Pump and Treat	Air Sparge (diffusers)	Dig and haul***
Air Sparge	Removal actions ***	Backfill with mulch
Iron reactive wall***	Natural attenuation *	Phytoremediation
Enhanced bioremediation***	Enhanced bioremediation	Weir wall
In well stripping	Phytoremediation*	Air Sparging
Natural attenuation*		Enhanced bioremediation
Phytoremediation*		

* These were noted as possible secondary methods.

*** These were removed from further consideration in the IRA due to various constraints such as funding or time.

PROS	AND <u>Pump and Treat</u>	CONS FOR GROUNDWATER
Well known (Hydraulically)		O&M costs are high
Form of containment		Will not initially decrease lake contamination
Cuts off influx of contaminants to the lake		Does not remediate
Creates a controlling environment		Possibly eliminates GW predictability

Air Sparging

Creates a barrier at the lake
Potentially inexpensive
Low O&M
Consistent with final solution
Compatible with Sed. air sparging
Does remediate

Potential channeling (dense layer & fine sands)
Pilot test
Uncontrolled air emissions
Potential for mounding of GW
Leaves contamination below the sparge line
Contingencies are required

In-well stripping

Could go deeper than air sparging
Can recover off gas (vapors)
No channeling
Proven in Europe
Consistent with final solution
Does remediate
Positive press (innovative)

May cost more than air sparging
Constructibility problems
O&M costs (air emissions)
Effect on wetlands area
Pilot test
Less mature technology
Contingencies are required

PROS

AND

CONS FOR SEDIMENTS

Air Sparging

Treats contaminants in the lake
Inexpensive
Promotes bioremediation

Uncontrolled air emissions
Increased surface water contamination
Water may be too shallow
Ecological impact
Physio-chemical impact on lake
No effect on Ground water
Possible permitting issues

Bioremediation

Inexpensive
Does remediate
Direct impact on the lake

Pilot test
No effect on Groundwater
Possible permitting issues

Pros and Cons for the creek area were only briefly discussed. It was agreed that other than filling it with organic matter to fix the "short circuit", it could be treated consistent with sediments with air sparge. It was noted that anything placed into the creek (fill or organic matter) would also become contaminated, and such placement may require permitting.

Following closing remarks it was agreed to stop discussions at this point (7:30 PM) and let the OPT reconvene in the morning to address the issues again.

NOVEMBER 13

STUDY AREA 22 AND 52 WORKPLAN:

The letter report that was issued in October for SA 22 results was reviewed. It was agreed to accept the recommendation in the report to change the classification from 7/Gray to 1/White. The SA will move to a final document for signatures.

The Workplan for SA 52 was presented by Rick Allen. The OPT agreed to proceed with the Workplan as written.

OU 4 CONTINUED DISCUSSIONS

Greg Brown from FDEP sat in on the OU 4 discussion. John M. reconfirmed that surface water standards have been exceeded and needed to be addressed. He also confirmed that ground water had to meet surface water standards at the point of the nearest well to an open body of water and that no action was not an option.

Greg Brown suggested that horizontal air sparging (with a trench) might be an option. An attempt at ranking the groundwater technologies (1 for least favorable and 3 for most favorable) in the following categories was made. The categories were:

Timeliness of installation, Cost, Wetlands impact, Community acceptance, Implementability or constructability, and Effectiveness.

Nancy asked about the timeliness of Pump and treat implementation; assuming ABB would finish designs in late December/early January, BEI estimated they might be able to implement it in 120 days (assuming funding exists). Tom Conrad suggested that if quick action was required the well that was used during the pumping test could be used to set up a skid mounted GW extraction system. Nancy also asked about how all the technologies rank with the Remedial Criteria. Following further discussions it was decided that more information on all technologies and options was needed before a better decision could be made.

It was decided that ABB would take the lead in developing an informational matrix that would address the Remedial Criteria and those items listed above. They would also look into potential permitting issues and do some contaminant mass transfer calculations. The informational matrix would also address possible combined options and/or phases of implementation.

7174 CAR REVIEW/PRESENTATION

Mirna Barq from ABB presented the results from the 7174 CAR. She also opened discussion on possible remediation alternatives that would be included in the RAP. Because of significant amounts of free product around MW 11, the recommendation was made to excavate that area and remove the previously abandoned tanks that exist under the old island. One method that was discussed was the removal of all asphalt covering the contaminated soil and in essence, land farm the exposed soil. Discussions with Greg Brown and John M. indicated that removal of the covering was okay, but because of air emissions issues, the soil could not be tilled. It was also noted that sampling under the 7174 building was not done. Finally, it was also noted that the oil/water separator tank behind the building was still being used for illegal oil disposal, presumably by unauthorized trespassers.

It was agreed that the Pensacola PWD team would remove the oil/water separator tank; ABB would sample under the building; ABB would draft and send a letter to FDEP (and all parties) that recommends the extent of tank and soil removal; Bechtel (or the Pensacola team) would unearth and remove the abandoned tanks, free product, contaminated soil and asphalt covering; ABB would install and sample a new well south-southwest of MW 12 after the tank excavation. ABB would generate a CAR addendum addressing the tank soil and free product removal, then address further actions in the RAP.

OU 2 COMMENT REVIEW

Brown and Root's Mike Cambell distributed copies of their OU 2 Workplan comment resolutions for all to read. There were no major comments and no changes that would affect the scope of investigations. Nancy asked that others at EPA be given more time to respond to the letter. It was agreed that Brown and Root would incorporate the comments into the workplan and publish the document as a Final Report for review and comment. If there were further changes, they would be submitted as errata pages.

OU 1 RAD RESOLUTION

Rick Allen presented tables that showed the correlation between elevated alpha and beta results with elevated NTUs. The results help explain the upgradient elevated rads and supports the hypothesis of altered ground water chemistry adjacent th the land fill and the mobilization of radionuclides.

The OU 1 Final RI Report is being drafted at this time. John M. will discuss this issue with Tim Barr in advance. Rick Allen will provide full analytical results to John M. The Final Report will be submitted in December. Any additional changes will be made via errata pages.

DISCUSSION OF UST/AST/OIL-WATER SEPARATOR CARS

The following CAR sites were discussed.

- 109 NFA confirmed
- 230 NFA confirmed
- 607 NFA confirmed
- 7211 Over develop one more time and review for NFA (lead hit)
- 200 Needs more investigation; include ground water flow direction; needs more wells especially at the site of the old diesel tank; need to address exceedance of Phenanthrene.
- 224 NFA confirmed
- 218 Need to address the rise in Benzene after over development.
- 1053 NFA confirmed for the O/W separator.
- 7175 NFA confirmed for the O/W separator.

NOVEMBER 14

Lt Gary Whipple could not be present for this portion of the meeting; he gave his proxy to Wayne. Steve McCoy was also not in attendance for this portion and gave his proxy to Nancy.

FOSL/FOST DISCUSSION

There are currently several FOSLs with FDEP and EPA for review. They address among other areas; RTC, the southwest corner of mainbase, and the GOAA parcel. John and Nancy raised an issue with current language which reads in one area "...digging is unallowed except with the approval of the Navy". and "...the area is suitable for its intended use". Some areas like SA 39 and areas in the GOAA parcel have PAH problems and/or other contaminate problems where digging would put workers at risk and residential land use would not be okay. It was decided that the FOSLs need to be rewritten to specifically address Study Areas or even parts within a Study Area that have usability or investigative restrictions. Notes will be added to specify restrictions based on current conditions and intended land use.

SECONDARY STANDARDS ISSUE

John M. raised a concern brought to him by Tim Barr of FDEP. There have been some Study Areas such as 19 and 26 where secondary State standards have been exceeded by for example iron and aluminum. What should be done about definition and then future action was discussed. John agreed to talk to Tim again and possibly invite him to our meeting in Tallahassee next month. This issue was not resolved. For those SAs such as 19 and 26 that have been recently signed, ABB will hold those until this is resolved. John also asked that SA 39 and 40 be added to the PAH issue paper. In order to better support the FOSL for the southwest corner and SA 27, ABB will better define the PAH and PCE hits.

In a related issue, John M. suggested that if SA maps show exceedances for which additional sampling was done and cleared the issue, the maps should be changed or annotated so the number is not questioned in the future.

MEETING CRITIQUE

GOOD

- Lively discussion on OU 4
- Technical discussion on OU 4
- Envir. Justice brief by EPA at the RAB
- New Member involvement
- Quieter air conditioner

NOT SO GOOD

- Guests did not follow rules
- Brainstorming rules not followed
- John Mitchell lost it
- Mac McNeil lost it
- OU 4 discussion went too long on the 12th
- John K. not prepared for the PAH issue
- John M. and Nancy also not prepared for PAH issue

OPT ACTION ITEMS FROM PREVIOUS MEETINGS

No.	Mtg	Topic	Assign	Action / Discussion / Decision	Due	Complete
53	9607	IR	JK	Add SA-39, 40 will be resampled and results provided in a draft tech memo. SA-45 is NFA and the report will be placed in the Final Site Screening Report.	10/15/96	10/15/96
55	9608	IR	WH	Contact COE about installing wells or doing CPT to top of the Hawthorn on GOAA property south of Herndon Annex.	9/15/96	10/25/96
61	9609	IR	JK	Send OU4 data to CURT and input on possible technologies	10/15/96	9/30/96
62	9609	IR	BN	Schedule meeting between ABB and CURT	10/15/96	10/15/96
63	9609	MISC	WH	Update address list include Nick U., Barbara and Capt. Yesensky.	10/15/96	10/15/96
64	9609	IR	NR/JM	Review ABB's response to comments draft RI report OU1 and let JK know if we don't agree with any of the responses.	10/15/96	10/15/96
65	9609	IR	JM	Send copies of Site Screening Investigations for SA 48 and 52 to OPT.	10/15/96	10/15/96
66	9609	IR	JM	Check distance of well adjacent to the lake	10/15/96	10/15/96
67	9609	MISC	JM	Success Story; OPT communication with other teams.		
68	9609	MISC	WH	Success Story: FOST/FOSL actions		
69	9609	MISC	JK	Success Story; UST funding and priorities.		
70	9609	MISC	WH	Inform Team Leader if any agenda/special interest from the City to be included in debrief session.		
71	9610	IR	JK	Correlate RAD hits with TSS	11/13/96	11/13/96
72	9610	IR	JK	Refine PAH workplan to site that exceed reuse action levels.	11/13/96	
73	9610	IR	OPT	Decision: NFA for SA50 approved as long as it is restricted for industrial reuse.		
74	9610	IR	JK	Resample well with exceedances at SA 48	11/12/96	11/12/96
75	9610	IR	JK	Post site and delineate soil and GW contamination		
76	9610	IR	OPT	Decision: Approved NFA SA 8		
77	9610	MISC	OPT	Approved FOSL format to lease utilities at McCoy		
78	9610	MISC	WH	Send final of Utilities FOSL to JM and NR		
79	9610	IR	JK	Refine PAH workplan to site which exceed reuse action levels	11/13/96	
80	9610	IR	JK	Remove wells when parcel is ready to transfer		

OPT ACTION ITEMS FROM THIS MEETING

81	9611	MISC	OPT	Decision: Sunday RAB announcements will no longer be placed due to costs.		
82	9611	IR	JK	Final Screening reports, TABS(53) and binders will be sent to those on the distribution list		
83	9611	IR	OPT	Decision: The RAO is; To gain control over the migration pathways of VOC concentrations that contribute to surface water exceedances in Lake Druid.		
84	9611	IR	OPT	Decision: Accept recommendations in the SA 22 report and change classification from 7/Gray to 1/White (NFA).		
85	9611	IR	OPT	Decision: Approved the workplan for SA 52.		
86	9611	IR	JK	Develop an information matrix for IRA technologies and provide to BEI for input prior to Decembers meeting.		
87	9611	UST	JK	Provide guidance ltr for 7174 tank,soil, and FP removal. Also provide CAR ADD. after removal and sampling actions.		
88	9611	UST	NU	Direct the removal action at 7174 to include asphalt cover.		
89	9611	UST	GW/NU	Direct removal of O/W separator at 7174.		
90	9611	IR	SM	Publish OU 2 Workplan as final for review.		
91	9611	IR	RA	Provide a copy of OU 1 MW28 and 29 results to FDEP.		
92	9611	IR	JM	Discuss OU 1 RADs issue with Tim Barr. Also invite him to the December meeting to discuss Secondary Standards.		
93	9611	IR	JK	Publish OU 1 RI Report as final for review.		
94	9611	IR	WH	Rewrite FOSL to address UST/IR contaminated or restricted land areas. Add SA 39 and 40 to PAH issue.		