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**USACE PBOW
RAB MEETING MINUTES
PLUM BROOK ORDNANCE WORKS
December 12, 2013**

ATTENDEES

Project Manager, USACE Huntington
Project Technical Coordinator, USACE Huntington
USACE Nashville (1)
Ohio EPA NWDO (1)
RAB Members (4)
CB&I (2)
OTIE (3)
Tetra Tech (1)
Visitor (1)

RAB MEETING AGENDA

1. Opening of Meeting – USACE Project Manager
2. TNT A RA-C Phase II Update – OTIE Project Manager
3. Poster Sessions with John Blakeman – OTIE Project Manager
4. Status of Ground Water Sampling – USACE Project Manager
5. Status of Ground Water Decision Document – USACE Project Manager
6. Approved Work Plan (Budget) – USACE Project Manager
7. Project Update and Document Status – CB&I Project Manager
8. Open Topics
9. Schedule Next Meeting

OVERVIEW OF MEETING SCHEDULE

USACE PBOW Project Manager opened the meeting and reviewed the meeting agenda.

STATUS OF TNT A RA-C PHASE II

The Project Manager (PM) from Oneida Total Integrated Enterprises (OTIE) provided an update on the TNT A RA-C Phase II project. The PM outlined the activities that have been completed since the site visit in August 2013 and included a photographic presentation of the activities during the remediation.

- Overview of process monitoring during soil treatment
- Alkaline hydrolysis process
 - Reduced the contaminants to below hazardous concentrations
 - 2,6-DNT concentrations exceeded the remedial goal of 1.5 mg/kg
 - Exceedance of the RG prevented use as backfill in the open excavations
 - Time was a factor in remediating the 2,6-DNT to below RG

- Completed hauling all remediated soil off of the pad
 - Major portion to landfill
 - Some used as backfill in open excavations
- Review of planned activities
 - Remediation pad maintenance
 - Cleaning out the sumps
 - Final walk-through of the AOCs
 - Reseeding AOCs (coordinate w John Blakeman)
 - Road repair activities will be performed in the spring 2014

STATUS OF GROUND WATER SAMPLING, GROUNDWATER DECISION DOCUMENT AND APPROVED WORK PLANS

The USACE Huntington District Project Manager provided an update on the Ground Water Sampling, Groundwater Decision Document and Approved FY14 Budget for upcoming projects. The presentation is provided as an attachment to these minutes and is summarized below:

Ground Water Sampling

- Review of sampling history
- Had planned one last groundwater sampling event but during the work plan review the USACE Center of Expertise (CX) challenged the justification for further sampling
- No objections received from RAB and or Ohio EPA, groundwater sampling is cancelled and well abandonment is in the planning stages.

Ground Water Decision Document

- The Proposed Plan was presented to public on March 29 2012
- Only one comment was received from the public
- The draft Decision Document (DD) included limited groundwater monitoring based on the one public comment
- USACE Louisville District and CX Office of Counsel rejected the proposed monitoring because there is no legal driver since the water is non-potable due to naturally occurring contaminants.
- USACE is moving forward with a No Further Action (NFA) Decision Document

Discussion – A RAB member requested clarification on the groundwater sampling. The USACE PBOW PM confirmed the groundwater sampling would not be taking place and that USACE is moving to a No Further Action Decision Document. The PM explained further that the groundwater is not usable due to the naturally occurring contaminants. The Project Manager from CB&I added that groundwater restrictions would be limited to the water on the PBOW property.

Approved FY14 Budget

- The proposed FY14 budget included funding for three remedial actions: Reservoir No. 2 Burning Ground, Acid Area No. 2 and Acid Area No. 3
- The approved FY14 budget included funding for only the Reservoir No. 2 Burning Ground

Discussion – The USACE Technical Coordinator added that USACE is anticipating an FY15 1st quarter award (October-December 2014) for the acid area projects pending scheduled activities (i.e., Decision Document approval) can be accelerated. A RAB member inquired about the status of other projects at PBOW. The USACE Project Manager explained that those projects were on-going and were not impacted by the defunding of the acid area projects.

PROJECT UPDATE AND DOCUMENT STATUS

The CB&I Project Manager provided an update on several projects. His presentation is included as an attachment to these minutes and is summarized below:

- Reservoir No. 2 Burning Ground
 - Approximately 7,400 cubic yards of nitroaromatic and/or lead contaminated soil to remediate
 - Ohio EPA review of Decision Document was completed in September 2013
 - Awaiting USACE approval of Decision Document

- Wastewater Treatment Plants 1 & 3, TNT A Sewer Line and TNT B Sewer Line
 - USACE CX review of Feasibility Study (FS) is complete
 - Anticipate January 2014 for Ohio EPA and RAB review of FS

- Wastewater Treatment Plant 2, TNT C Sewer Line, Steel Sewer Line
 - USACE has completed the internal review of the Site Characterization Report (SCR), Baseline Human Health Risk Assessment (BHHRA) and Screening Level Ecological Risk Assessments (SLERA)
 - Anticipate early 2014 for Ohio EPA and RAB review of Remedial Investigation (RI) report

- Pentolite Road Redwater Pond Area
 - USACE internal review of the Proposed Plan is complete
 - Approximately 36,600 cubic yards of nitroaromatic-contaminated soil to remediate
 - Anticipate early 2014 for Ohio EPA and RAB review of Proposed Plan and start of 30-day public comment period

- Acid Area 1
 - USACE internal review of the Proposed Plan is complete
 - Approximately 28,000 cubic yards of PCB-contaminated soil to remediate
 - Anticipate early 2014 for Ohio EPA and RAB review of Proposed Plan and start of 30-day public comment period

- Garage Maintenance Area
 - USACE and OEPA reviews are complete
 - Preparation of draft Feasibility Study to begin January 2014

SCHEDULE NEXT MEETING

The next RAB Meeting was tentatively scheduled for Thursday March 6, 2014.

Site-wide Groundwater (TNT and RWP Areas)

USACE – Huntington District
 Huntington, WV
 12 December 2013



US Army Corps of Engineers
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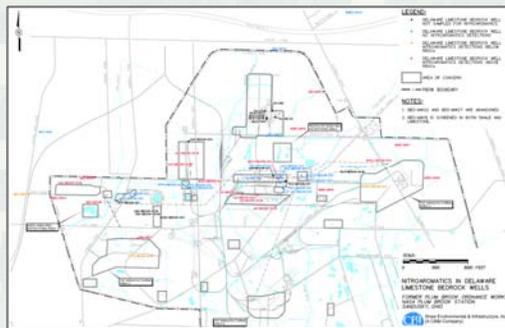
History of Groundwater Investigation

- May-June 1995 – Dames & Moore Site-Wide GW Investigation
- September-October 1996 – IT Corporation Site-Wide GW Investigation
- August 1997-May 1998 – 4 Quarterly GW Measurements of Wells and 2 Semi-Annual Sampling Events
- September 2001 – Site-Wide GW Sampling
- September 2001-June 2004 – 10 Quarterly Background GW Sampling Events
- 2002 – GW Investigation, Data Summary, and Evaluation
- June 2004 – Last Site-Wide GW Sampling
- September 2000-Ongoing – Measurement of GW Levels by OTIE



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DOD-Related Contaminant Hits



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Proposed Plan

- ▶ Proposed No Further Action (NFA) presented to the public 29 March 2012
- ▶ Comment from Mark Bohne (summarized)
 - Although extensive investigation, assessment, and remediation has taken place, based on the size of the former facility, it is possible that additional contaminated sites exist
 - Groundwater sampling from both the overburden/shale and bedrock monitoring wells should continue for two reasons:
 - 1) past remediation was successful, indicative of a reduction in chemical impact or,
 - 2) future remediation must be initiated if chemical levels show that another point source exists



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Decision Document

- ▶ Draft included limited groundwater monitoring based on comment from Mark Bohne and potential for non-potable off-site groundwater usage
- ▶ LRL and CX OC rejected monitoring as there is no legal driver based on non-potable condition of groundwater due to naturally occurring constituents
- ▶ Final DD moving forward as NFA



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Groundwater Sampling

- ▶ Last site-wide groundwater sampling was performed in 2004
- ▶ Groundwater flow patterns have changed with the reactor decommissioning in 2012
- ▶ Funded to perform one last groundwater sampling event
- ▶ During Work Plan review, CX challenged justification for performing sampling
- ▶ Sampling event was placed on hold pending discussion with the PBOW RAB
- ▶ In the absence of any objection from the RAB and/or OEPA, the groundwater sampling will be cancelled and well abandonment planning will commence.



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Approved Work Plan (Budget)

- ▶ Draft Work Plan included funding for remedial actions
 - Reservoir No. 2 Burning Ground
 - Acid Area No. 2
 - Acid Area No. 3
- ▶ Final Work Plan approved included funding only for the Reservoir No. 2 Burning Ground



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Project Update and Document Status

CB&I Federal Services
Knoxville, Tennessee
12 December 2013



US Army Corps of Engineers
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Reservoir No. 2 Burning Ground

- ▶ Total of approximately 7,400 CYs lead and/or 2,4-DNT contaminated soil to remediate
- ▶ OEPA review of DD completed September 2013
- ▶ DD to be submitted to USACE for final approval

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Site Updates

- ▶ Reservoir No. 2 Burning Grounds
- ▶ Wastewater Treatment Plant 1&3 / TNTA Sewerline / TNTB Sewerline
- ▶ Wastewater Treatment Plant 2 / TNTC Sewerline / Steel Sewerline
- ▶ Pentolite Road Redwater Pond Area
- ▶ Acid Area 1
- ▶ Garage Maintenance Area



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Wastewater Treatment Plant 1&3/ TNTA Sewerline / TNTB Sewerline

- ▶ Feasibility Study USACE-CX review complete
- ▶ Minimal surface soil contamination only
- ▶ Anticipate January 2014 for OEPA and RAB review of FS



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Wastewater Treatment Plant 2/ TNTC Sewerline / Steel Sewerline

- ▶ Remedial Investigation Report (SCR, BHHRA, & SLERA) USACE internal review complete
- ▶ Anticipate early 2014 for OEPA and RAB review of RI Report



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Acid Area 1

- ▶ Total of approximately 28,000 CYs PCB contaminated soil to remediate
- ▶ Proposed Plan - internal USACE review complete
- ▶ Anticipate early 2014 for OEPA and RAB review of Proposed Plan and start of 30-day public comment period



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Pentolite Road Redwater Pond Area

- ▶ Proposed Plan - internal USACE review complete
- ▶ Total of approximately 36,600 CYs nitroaromatic-contaminated soil to remediate
- ▶ Anticipate early 2014 for OEPA and RAB review of Proposed Plan and start of 30-day public comment period



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Garage Maintenance Area

- ▶ Sellite and Unloading Areas Risk Documents (BHHRA/SLERA) – USACE and OEPA reviews complete
- ▶ Feasibility Study – preparation of draft to begin January 2014



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