



PORTSMOUTH SITE SPECIFIC ADVISORY BOARD

•OSU Endeavor Center • 1862 Shyville Road • Piketon, Ohio 45661 • (740) 289-5249 •

Environmental Restoration Committee Meeting September 8, 2009 • 4:30 pm.

Co-Chairs

Val E. Francis
Richard H. Snyder

Board Members

Shirley Bandy
Gene Brushart
Dr. Edwin G. Charle, Ph.D.
Bobby E. Graff
Franklin H. Halstead
Sharon E. Manson
Stephen Martin
Daniel J. Minter
Larry A. Parker
Michael E. Payton
Cristy D. Renner
Terri Ann Smith

Agenda

1. Review of Agenda
2. Review of August Summary
3. On-going Remediation Activities
4. On-site Disposal
5. Public Comment Period (15 Minutes)
6. Concerns/Issues

Deputy Designated

Federal Official
Dave Kozlowski

DOE Federal Coordinator

Greg Simonton

Support Services

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Environmental Restoration

Meeting Summary

September 8, 2009 • 4:30 p.m.

The Ohio State University Endeavor Center

1862 Shyville Road, Piketon, OH 45661

Committee Members Present: Gene Brushart, Ed Charle, Stephen Martin, and Larry Parker

Executive Committee: Dick Snyder

DOE Representatives: Dave Kozlowski and Greg Simonton

DOE Employees, Contractors and Regulators: John Klingshirn and Steven Thompson, CDM; Cid Voth and Kristi Wiehle, DOE; Sandy Childers, Bill Franz, Dave Sharp, and Miles Smith, LATA/Parallax; Janie Crowwait, RSI

Liaisons: Maria Galanti and Kris Vanecko, Ohio EPA; Michael Rubadue, Ohio Dept of Health

Support Staff: Julie Galloway and Brandy Moore, EHI

Dick Snyder opened the Environmental Restoration Committee meeting in the absence of the Committee Chair Cristy Renner.

1. Review of Agenda

- Agenda approved

2. Review of August summary

- Summary approved

3. On-going Remediation Activities – Monthly Status

Franz covered the monthly status report.

A copy of this handout is available online at www.ports-ssab.org.

- X-746 Shipping and Receiving Building Removal
- X-701B Groundwater Plume Treatment
- X-344C Investigation/Removal of Concrete Pad
- 7 -Unit Groundwater Plume Investigation
- X-770 Pad Removal

Question/Comment:	Answer:
Parker Where does the Asbestos go?	Franz To the Energy Solutions disposal site in Clive, Utah. Galanti Some of the Asbestos also goes to

	Pike Sanitation.
Snyder When the pad comes out do you resample?	Franz No, when the test is performed they drill down thru the pad, we already have an idea of what is there.
Snyder When does a document become public?	Franz When the document has been released to the Ohio EPA.

4. Presentation: X-701B Soil Sampling Analysis Plan (SAP) Preliminary Results

Klingshirn gave a briefing on the X-701B Soil Sampling and Analysis Plan (SAP) Soil Sampling, conducted to support the source area interim remedial measures that will be funded under the American Recovery and Reinvestment Act.

A copy of this handout is available online at www.ports-ssab.org.

Question/Comment:	Answer:
Snyder Could the TCE be migrating?	Klingshirn Yes, TCE is heavier than water, it will migrate vertically until it hits the shale then it will go horizontal. Kozlowski We have very dense soil at our site so the contamination moves slowly.
Parker What do you contribute to the TCE not being higher under the pond?	Klingshirn We did not expect to see much in the pond area due to the previous technologies done there at the site. The TCE is sitting on the bottom. TCE is 1½ times heavier than water so it wants to sink. The TCE will move to a natural drainage.
Charle What would be your best guess of what is down there?	Kozlowski Below the shale, we have deeper ground water wells; the Sunbury shale is stopping any deeper contamination. Checking the wells on our site is a routine and TCE is not getting down to the ground water in the deeper aquifer.
Snyder At what point is the Sampling Analysis Plan considered done or a success?	Klingshirn Investigation itself is 95% complete. We have investigated 1/3 of the X-701B plume (a four-acre area west of Perimeter Road). We know what is the primary source area. We will not have to wait for all results to meet with the designers on the interim measures. Galanti The regulatory expectation is to clean up the TCE to PRGs: 5 ppb for groundwater and 48 ppb for soils. The first six cells will be the test to make sure the (hydrogen peroxide treatment) recipe is correct.

	Stewart We will attack the source area in that 1/3 area. It's a focused digout of the source area.
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5. Presentation/Discussion: Integrated Groundwater Monitoring Plan

Galanti gave an overview of the Integrated Groundwater Monitoring Plan, explained that Table 1 is a script of what is sampled, also where and why it is sampled. There is a copy of this plan in the EIC, it is also posted on the website, and Cristy Renner has a hard copy. If any of the members have questions or concerns we can set some time aside to go over this in more detail. A copy of this report is available online at www.ports-ssab.org.

6. Presentation: Next in a Series on PORTS Environmental Monitoring Program – National Pollutant Discharge Elimination System (NPDES)

Thompson gave a presentation and stated this is an insert to the binder that you have from the last meeting when Del Baird gave the presentation. A copy of this handout is available online at www.ports-ssab.org.

Question/Comment:	Answer:
Parker Do you do spot checks of the lab?	Thompson DOE Audits that is part of the process to be a certified lab.

7. Public Comment

None

8. Concerns/Issues

Question/Comment:	Answer:
Brushart DOE has been going through this cleanup for years and now accelerated cleanup for possibly 20 years. If we are cleaning up the waste now what about more waste generated from new projects, potentially centrifuge, or another initiative like the Clean Energy Park in the future? How do you answer that?	Kozlowski Cannot speak for Clean Energy or American Centrifuge, we will analyze what has to be done for new concepts, and our cleanup will evaluate all those analysis. An estimate of volumes and types of waste that would be generated and how it would be dispositioned was done for the DUF6 project under the Environmental Impact Statement. For storage of nuclear materials, they must follow Nuclear Criticality Safety requirements and follow the safety basis for any potential impacts from operations.

9. Review of Action Items

- DOE will release any documents at the public release stage
- EHI will post the Integrated Groundwater Monitoring Plan to the website
- EHI will provide the Cross-Reference from the Portsmouth Gaseous Diffusion Plant Environmental Sampling Binder

Meeting adjourned

The ER committee was combined with a new committee at the October 3, 2009, SSAB meeting; the October meeting was cancelled. The new committee will meet Tuesday, November 10, 2009 at 4:30 pm.



Portsmouth Gaseous Diffusion Plant

September 8, 2009

Monthly Environmental Projects Update to the Site Specific Advisory Board

X-746 Shipping and Receiving Building Removal

- Engineering Evaluation/Cost Analysis (EE/CA), Removal Action Work Plan and Confirmatory Sampling Work Plan have all been approved by DOE and Ohio EPA.



Workers remove universal waste (bulbs, ballasts) from the X-746 Building prior to demolition.

- Asbestos removal is 80% complete.
- Confirmatory soil samples to be taken week of September 7, 2009.
- Demolition equipment has been received and work will begin on the south end of the structure the week of September 7.
- Completion of building removal is expected by the end of September 2009.

X-701B Groundwater Plume Treatment

- Initial results have been obtained from soil core samples collected during July 2009 at 90 locations in the X-701B groundwater plume area.
 - TCE analysis 100% complete for 360 samples.
 - Total Oxidant Demand analysis 100% complete for 720 samples.
 - Metals analysis 76% complete for 38 samples.
 - Radiological analysis 83% complete for 60 samples.
 - PCB analysis 0% complete for 33 samples.
 - Results will be used to support design of the interim measures to accelerate trichloroethylene (TCE) groundwater remediation (funded under Stimulus)

[Note: Separate presentation on preliminary soils Sampling Analysis Plan (SAP) results.]

X-344C Investigation/ Removal of Concrete Pad

- The characterization work plan activities and final report are completed.
- No contaminants of potential concern were detected above preliminary remediation goals and risk-based screening levels.
- Ohio EPA has stated no further remediation will be necessary at X-344C (except removal of concrete pad) but a No Further Action determination will not be made until the entire northern Quadrant IV area is reviewed in the future and addressed in a modification to the Quadrant IV Decision Document.
- Demolition and removal of concrete pad/storage tank supports to be completed by September 30, 2009.





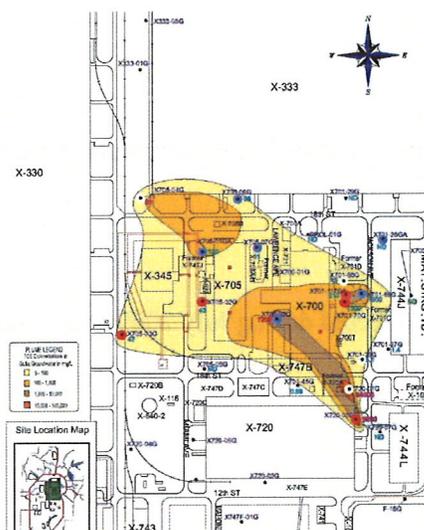
Portsmouth Gaseous Diffusion Plant

September 8, 2009

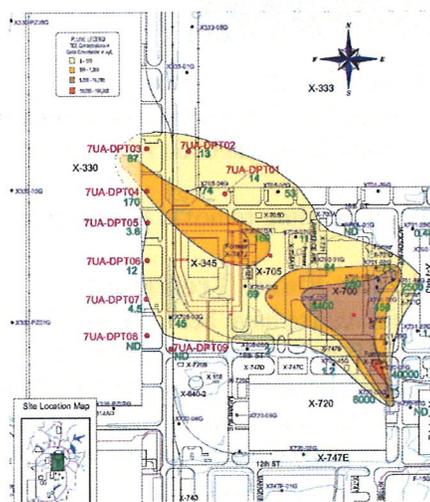
Monthly Environmental Projects Update to the Site Specific Advisory Board

7-Unit Groundwater Plume Investigation

- Conducted Membrane Interface Probe (MIP) field screening investigation from June 9-13, 2009 to characterize potential source areas at the former X-701C Neutralization Pit, the former X-720 Neutralization Pit and an aboveground storage tank (X-700T).
- The MIP screening identified a hot spot of trichloroethene (TCE) at the X-700 TCE aboveground tank area not previously identified.
- The aquifer performance test was completed on August 3-6, 2009.
- Followed MIP screening by installing and sampling 11 Direct Push Technology (DPT) borings on eastern portion of plume on August 11-18, 2009 (Note: the western portion of the plume had been sampled via 9 DPT borings in late June).
- MIP and DPT data have provided a new 7-unit plume configuration:



7-Unit Plume – June 2009



7-Unit Plume – August 2009

X-770 Pad Removal

- For efficiencies, schedules are being reviewed for removal of the X-770 concrete pad; the pad could be removed separately or potentially in coordination with the X-760 Chemical Engineering Building pad after demolition of the X-760 structure. No new updates.