

**PGDP Citizens Advisory Board  
Waste Disposition/Water Quality Task Force  
Meeting Summary  
September 21, 2006 \* CAB Office**

**CAB Members Present:** Bobby Lee, Chair  
Allen Burnett  
Janet Miller  
John Russell  
Jim Smart  
Rhonda Smith

**DOE Representatives Present:** David Dollins

**Commonwealth of Kentucky  
Representatives Present:** Tony Hatton  
Jon Maybriar

**EPA Representative Present:** Debbie Vaughn-Wright

**DOE-related employees present:** Tracey Brindley  
Yvette Cantrell  
Lisa Crabtree  
Bruce Gardner  
John Razor

**Public Present:** Gary Vander Boegh

**Support Staff Present:** Kim Crenshaw

The meeting was called to order at 5:45 p.m.

**Agenda Items**

**Leachate Treatment Facility**

Russell asked if direct measures have been made on characterizing the leachate. Hatton said the Solid Waste permit requires annual monitoring of the landfill. Russell asked if radioactive substances are found in the leachate. Hatton said according to the quarterly reports, the values of gross alpha, gross beta, uranium, radium, and a couple of others, found in the leachate out of the C-746-U-Landfill are relatively low and most of rad data is qualified with the air factor.

Russell said the design of the facility is to treat synthetic organics. He asked if the design was appropriate to treat radioactive substances. Hatton said DOE should answer that question, but according to solid waste regulations, the leachate in a landfill must be collected, stored and disposed of. Disposal and treatment of leachate after generated must be in accordance with the Kentucky Pollutant Discharge Elimination System (KPDES) permit. It is DOE's responsibility to comply with the KPDES permit. Russell said according to the 2004 Environmental Impact Statement (EIS), the one waste stream that is not going to the U-Landfill is the waste stream that justified its existence to start with. The U-Landfill is being utilized for waste streams that were never identified in the EIS.

Russell said the monitoring wells are showing results of gross alpha, gross beta, Technetium-99 (Tc<sup>99</sup>), uranium, polychlorinated biphenyls (PCBs) and others at levels high enough to raise regulator concerns. Hatton said the waste streams that are eligible to enter the U-Landfill are different from the original application but the waste streams permitted in the landfill are the same for any Subtitle D Landfill in the Commonwealth of Kentucky except for the radionuclides DOE has placed in the landfill. Kentucky lost the lawsuit to gain regulatory oversight of the landfill. Russell said the waste that comes to the U-Landfill does not come from municipalities like the other landfills in the state; it comes from a National Priority List Superfund site and as such has a higher risk of having inappropriate substances. He said the CAB has been told that materials not consistent with Subtitle D landfills, such as free liquids, are going into the U-Landfill.

Burnett said the Board received a copy of the letter from the Kentucky Division of Waste Management placing the U-Landfill in groundwater assessment. Hatton summarized the letter. Lee requested the CAB receive a copy of the response from DOE. Russell asked what levels of PCBs were found in the monitoring wells. Hatton said according to the permit reviewers, there are some levels four or five times higher than maximum contaminant level. He said the two things that trigger a groundwater assessment at a solid waste landfill is if a constituent in the groundwater is found that exceeds the maximum contaminant level, and if a constituent continues to show up in a down-gradient well but not in an up-gradient well. Russell asked what level of Tc<sup>99</sup> was found in the monitoring wells. Hatton said the levels were not over drinking water standards. Lee asked what a groundwater assessment entails. Hatton said the owner or operator has to determine the existence, quality, quantity, areal extent and depth of groundwater degradation, and the rate and direction of migration of contaminants in the groundwater and has to be prepared by a qualified professional pursuant. Once the assessment is done, there is a requirement for corrective action.

### **KPDES Permit Review**

Smart said one of his comments is continuity between the permits. He said it would be helpful if the permit listed the modifications and additions from previous permits. Lee asked if a sheet was available that pointed out the changes. Brindley said changes are not summarized in the permit. Smart said another comment is Outfall 001 should have a daily maximum instead of a monthly average. He said he would forward his comments to Lee and she could ask the Board for additional comments.

### **Land Use Maps**

PRS provided some of the end condition graphics the task force had requested. Lee said she asked for the graphics to be geographic information system (GIS) available. Brindley said there are security issues with providing a map indicating the utility lines. Lee requested a GIS layer showing the projects that DOE is working on and the status of those projects or a map indicating all solid waste management units and the category of each type. Brindley said quarries could be generated to specific areas. Lee asked if the task force could get maps with building numbers and utilities removed. Brindley said it would need to be screened for security purposes but items can be removed from the maps to be made publicly accessible. She said if Lee would send a list of her requests, the maps could be screened for security and provided at the next meeting. Knerr asked if DOE has met the task force's expectations for the maps. Lee said yes, if Brindley could work with the CAB on a monthly basis to utilize the GIS database.

### **Concerns/Issues of Waste Acceptance Criteria Compliance at the Landfill (Recommendation)**

Lee asked that staff e-mail the initial draft recommendation, Russell's draft, and Smart's additional information to the task force.

### **Next Month's Agenda**

1. GIS Maps – Questions for Future Reuse
2. Concerns/Issues of Waste Acceptance Criteria Compliance at the Landfill
3. Workplan Report/Updates
4. Next Month's Agenda

The meeting adjourned at 6 p.m.

### **Action Items**

1. DOE will provide a copy of their response to the U-Landfill groundwater assessment.
2. Smart will forward his KPDES comments to Lee and she could ask the Board for additional comments. *Closed, 9/25/06.*
3. Lee will send a list of additional GIS requests to staff to be forwarded to Brindley.
4. Staff will e-mail three draft recommendations to task force for review and discussion. *Closed, 10-5-06*
5. Staff will e-mail Board members for suggestions on future reuse using the GIS database. *Closed, 10-5-06*