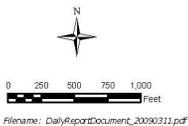


# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

May 11 - 17, 2009



Legend		
<span style="color: green;">—</span> Dike #2	<span style="color: brown;">—</span> Skimmer Wall	<span style="border: 1px solid orange; padding: 2px;"> </span> Ash Processing Facility
<span style="color: yellow;">—</span> Dike C	<span style="color: pink;">—</span> Weir # 1	
<span style="color: red;">—</span> Dike D	<span style="border: 1px solid red; padding: 2px;"> </span> Proposed Dredge Segment	

Date of map imagery: Feb. 25, 2009

Tennessee Valley Authority  
OE&R - ER&S  
Geographic Information & Engineering

Prepared by:  
Mary McDermott

Issue (Date/Time)  
05/18/2009 1:09:17 PM

# KINGSTON ASH RECOVERY PROJECT

## WEEKLY REPORT

May 11 – 17, 2009

### HIGHLIGHTS

- Completed bathymetric survey on the Emory River. Results are undergoing review and will be available the week of May 18<sup>th</sup>.
- First draft of the dredging time critical action memorandum completed.
- Queen City mobilized to site and began rail spur construction.
- All rail transportation tests completed successfully with offloading of rail cars at disposal sites this week.

### INFRASTRUCTURE/ASH MANAGEMENT

#### Engineering

- Continuing work on the engineering and Design Change Notice (DCN) for the car wash.
- Received approval of the DCN for the ramp at Dike C.
- Implemented the Request for Information process for the program.

#### Roads

- The Civil Projects Group (CPG) is scheduled to construct the ramp at Dike C next week.

#### Utilities

- No construction activity at this time.

#### Water Management

- Completed excavating ash and contouring the base of Sediment Pond 2A and preparing to install the stand pipe. Have hauled a total of approximately 67,400 cubic yards of ash from the Sediment Ponds and area east of Dike 2 to the Ash Processing Area.
- Continued construction of the clean water ditches – from the north embayment to Dike 2.
- Began installing a temporary rock road in the north embayment for accessibility to construct the berm and move the ash from the northern most point of the embayment.
- Continued excavating the discharge outlets east of Dike 2 for the clean water lines and Sediment Pond 1A.
- Continued installation of check dams and re-contouring of area for effective water management/drainage.
- Performed Storm Water Pollution Prevention Plan (SWPPP) inspections as required.
- Another rain event on Thursday evening caused most of the area to be too wet to work Friday. A reduced crew worked Friday – working ash and clay to dry it out.

#### Dust/Erosion Control

- 14.8 acres of Flexterra applied during this week.
- 306 acres of Flexterra applied since January 31, 2009.
- Working with TVA personnel on additional short and long term remedies for dust control – seeding, alternatives to Flexterra.

### ASH DREDGING & PROCESSING

#### Environmental Data Collection

- Continued daily TSS monitoring at KIF NPDES 001. The May monthly average through Thursday May 12<sup>th</sup> is 11.13 mg/L.
- Dredge plume monitoring was performed Monday through Saturday, May 11-16, 2009.

#### Dredging

- Due to a series of weather events and mechanical issues approximately 14,000 cubic yards of material was recovered from the Emory River.

- Dredging cumulative to date volume - 138,000 cubic yards.
- Bathymetric surveying of the Emory River (all dredging segments) was completed and the data is being evaluated to determine the effect of the May 3<sup>rd</sup> and 4<sup>th</sup> high flow conditions on the ash in the river.
- Ash Stilling Pond dredging commenced on Friday, May 15<sup>th</sup>, as a short term test.
- Planning for relocating the TVA 18" dredge from the settling pond to the Emory River commenced.
- Planning for establishing a north barge off-loading station on the northern end of Segment 1 was performed to support additional debris removal required in Segment 1.
- Preparation of the Dredging and Ash Processing Action Memorandum also commenced.

#### **Ash Processing**

- The Ash Processing and Storage area contains approximately 190,000 cubic yards of fly ash. A portion of the stockpile is from dredging and recovery operations and the remainder is from the embayment area (material excavated from the installation of storm water ponds and clean/dirty water ditches).
- Dredging material was recovered from the Ash Recovery Ditch with one excavator. Wet ash was processed through windrowing.

#### **ASH DISPOSITION**

- Held construction meeting with Queen City and Phillips and Jordan to coordinate civil improvements around North Plant Access Road and haul route. These improvements include widening of haul route, relocation of guard shack, relocation of North Plant Access Road near guard shack, relocation of wheel wash and backfilling of drainage ditch.
- Vendor unloading from Ash Loading Test was completed this week. Operations at the Perry County Landfill (for Phillips and Jordan) took place on Tuesday and Wednesday (May 12<sup>th</sup> and 13<sup>th</sup>) in poor weather conditions, but all 7 rail cars were unloaded successfully. Veolia unloading took place on Friday May 15<sup>th</sup> for the MACTEC railcars and was completed successfully.

#### **CENOSPHERE RECOVERY**

- Continue to remove debris and cenospheres generated from the heavy rain on Sunday, May 3<sup>rd</sup>.
- Increased subcontractor work force to 66 people and increased the number of barge mounted vacuum units to six.
- Continued to use the barge mounted excavator to remove large debris.
- Areas of focus have been maintaining the booms and intake channel in Division A and B, the waterfront park in Kingston and the area down river referred to as Lake Harbor.
- Individual outreach calls have been addressed as equipment frees up.

#### **SKIMMER WALL**

- No significant activity.

#### **DIKE REINFORCEMENT**

- Stantec has completed 48 of the 74 proposed borings for analyzing dike stability. Stantec is working on getting as much data as possible for the May 21<sup>st</sup> Root Cause Report. Poor weather slowed progress. There are two crews working on data collection.
- Received approval from the regulators to cut off the trees and repair the riprap along Dike-C. A decision on root ball removal is pending.
- Completed improving the lower embankment road at Dike C. The improvements are required to allow access for repairing the riprap.
- Construction of new access ramp at Dike C to begin next week.

## ROUTINE MONITORING

### Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, Wednesday, and Friday, May 11<sup>th</sup>, 13<sup>th</sup>, and 15<sup>th</sup>, respectively.

### Air Sampling

- Fixed-location and real-time monitoring continued. On Tuesday, May 12<sup>th</sup>, a hand-held, real-time particulate measurement was reported to exceed the PM10 24-hour particulate standard of 150 ug/m<sup>3</sup>; however, the technician reported the strong odor of smoke from a nearby fire.

### Data Management

- Electronic data packages continue to be received from the metals re-analysis of surface water samples collected in January and February 2009. The new results are comparable to the earlier results.

### Other Projects

- Homogenate aliquots from fish samples collected in early April from the KIF Stilling Pond were received from Oak Ridge National Laboratory and shipped to Pace Laboratories in Green Bay, WS for metals analyses. Final fish unvalidated results are anticipated to be available by May 22<sup>nd</sup>.

## FINAL REMEDIATION

- A decision was made this week to not use bottom ash for the base layer of the dredge cell test. Instead, rock will be used. Work continued on preparing the sub base drainage.
- Efforts continue to compile all existing environmental data to support upcoming data quality objectives workshops.

## SAFETY

- 93 site specific HSE orientations conducted for the week, 243 to date.
- 6 Safety Observation Reports submitted for the week; 43 to date; 21 of which have been closed.
- Conducted first Safety Coaching Visit at the Skimmer Wall area, the next SCV is scheduled for June 17<sup>th</sup>.
- On May 11, 2009 at approximately 10:45 am, a boat was filled with roughly 11-12 bags of debris to be moved north of the dock to the shoreline to be unloaded. When leaving the area, the weight in the boat wasn't distributed evenly and when trying to make a left turn, the boat began to take water. The individuals on the boat tried to throw off the bags to get rid of some weight which did not work. The individuals then bailed out and swam to the shore, less than 30 feet. The boat was then tied to a nearby response boat and water was removed via a vacuum truck. A stand down was held later that day and safe boating practices and safety priorities were reviewed with the SWS team.
- On Saturday morning, an earth slide was identified along the slope from the clean water ditch up to the access road from Swan Pond Rd. to T-2 dike. Upon investigation, it appears as though storm water runoff softened the slope enough to cause the slide.
- Submitted for internal review the updated Site Wide Safety and Health Plan per the Hazardous Waste Operations and Emergency Response requirements outlined in 29 CFR 1910.120. Received 4 proposals for training per these requirements, an award for a training vendor should be issued by close of business May 18, 2009.

## COMMUNICATIONS

### Stakeholders

- Conducted site tours and updates for legislative staffers.
- Continued scheduling CIP interviews and followed up with confirmation letters.
- Conducted CIP interviews of public officials and residents.

### Communications

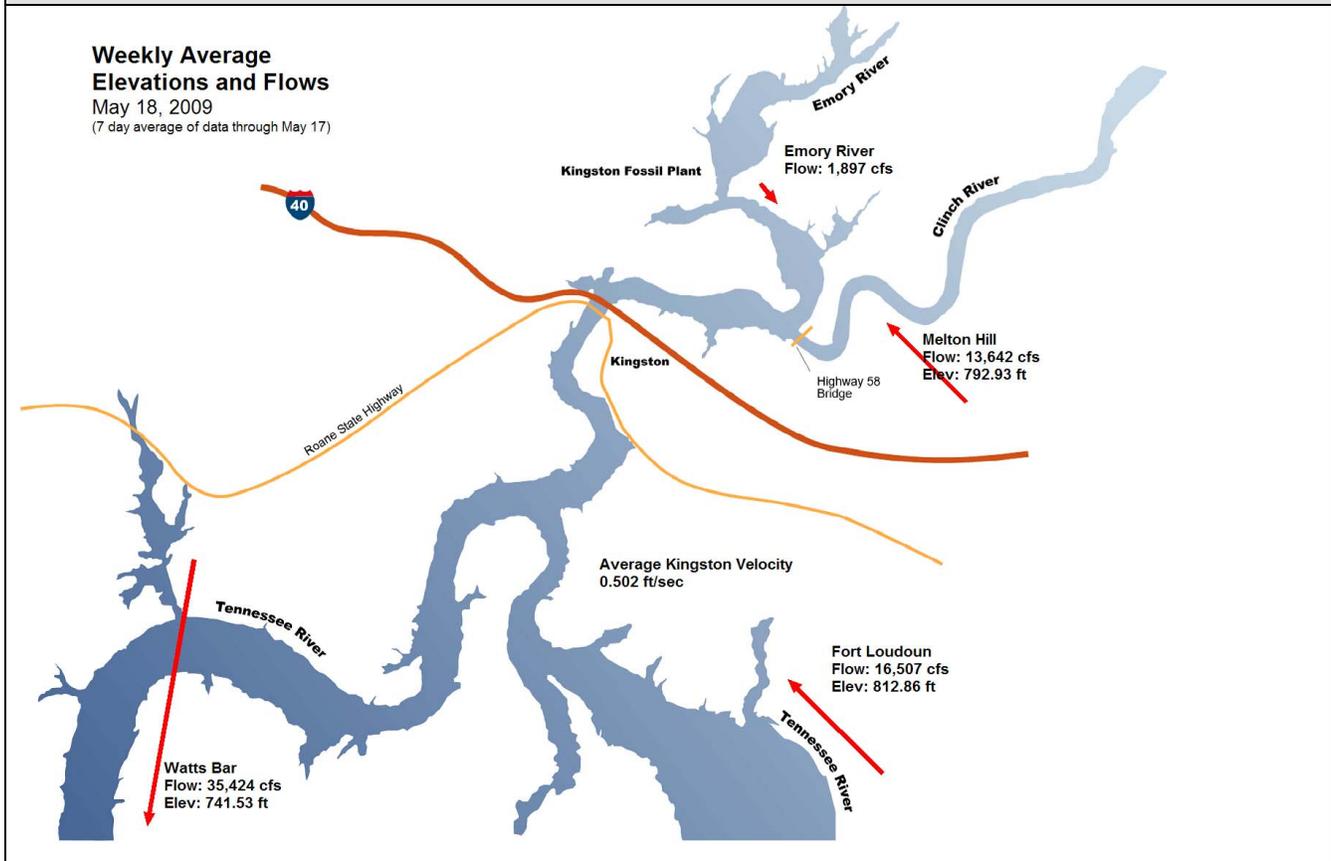
- Issued news release and responded to media questions on EPA/TVA agreement.
- Posted to TVA's Kingston Webpage: Information on the EPA Order and Agreement, and updates on Water

and Air Sampling.

**Outreach Events**

- Continued appraisals and offers on properties TVA is willing to purchase.
- Worked with River Operations on flood letters and name/address corrections.
- Sent out “no” purchase letters to those residents who have filed recent claims and to those who had previously gotten “deferred” letters.
- Worked with operations to handle numerous reports from residents about cenospheres and debris along the Emory River.

**RIVER OPERATIONS**



Meetings/Conference Calls		
Date	Time	Subject
05/18	1500	EPA/TDEC Telecon
05/19	1200	Phase I Dredge RFP Pre-Proposal Meeting (ICP Conference Room)
05/20	0900	KIF Recovery Staff Meeting (ICP Conference Room)
05/21	1130	Document Control Meeting (Team Room)

**Safety Status/Personnel Casualty Summary**

	Since Last Report	Adjustments To Previous Op Period	Total Involved
First Aid	0	0	8
Recordable Incidents	0	0	2
Lost/Restricted Time Incident	0	0	0

**Cenosphere/Debris Removal**

Recovered Materials		Quantity	
		Weekly Total	Cumulative Total
Outreach	Light Debris Removal – Land (bags)	0	18,867
Divisions A, B,C,D Cleanup	Division shoreline cleanup (bags)	3,718	52,814
Total	TONS OF LIGHT DEBRIS	0	835.23
Cenosphere Slurry (gallons)		306,000	4,933,500

**Environmental**

Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	verified
TVA	Air (Real-Time)	1,356*	42,424**	42,424	42,424
TVA	Air (Analytical)	14*	1,371**	1,263**	1,039
TVA	Surface/Utility Water	60	1,348	1,228	198
TVA	Ground Water (spring and well)	0	5	5	2
TVA	Ash	0	81	84	50
TVA	Soil/Sediment	0	63	59	9
		*May 11-14	**Totals as of May 14		

**Dredging**

Dredging			Weekly Total	Cumulative Total
River	Estimated Cubic Yards		14,000	138,000
Ash Pond	Estimated Cubic Yards		0	45,000