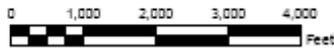


# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

September 27 – October 3, 2010

Aerial Image of Kingston Ash Slide (08/25/2010)



Date of imagery: 08/25/2010  
Surrounding area: 07/23/2010

Tennessee Valley Authority  
Geographic Information & Engineering

File Name: Image08p\_0330023\_0011.pdf

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# KINGSTON ASH RECOVERY PROJECT

## WEEKLY REPORT

September 27 – October 3, 2010

### HIGHLIGHTS

- To date, 364 unit trains have been loaded and approximately 3,522,180 tons of ash transported to the landfill in Uniontown, Alabama.
- Conducted the first in a series of Educational Initiative classes for more than 500 students at Roane County High School and 100 students at Harriman High School.
- In an effort to ease congestion in the mornings during heavy school and work traffic periods on Swan Pond Road near the Kingston Ash Recovery Project site, the morning curfew time (when trains are not allowed to cross Swan Pond Road) has been changed to 7:00 - 7:45 a.m.

### SAFETY

#### Program Summary

- Thirteen (13) site specific HSE orientations were conducted for the week – 1,711 to date. One hundred ninety-six (196) HSE site orientation refresher courses have been conducted to date.
- Forty-five (45) Safety Observation Reports were submitted for the week – 1,454 to date; 1,428 have been closed.
- Three (3) Wet Bulb Globe Thermometer (WBGT) weather alerts were issued last week. These are issued to alert supervisors of the current heat level so they can evaluate their crews for physical effort, PPE requirements and acclimation to determine appropriate maximum stay times and associated work/rest regimens.
- The last recordable injury, an insect bite, occurred on August 2, 2010.

#### Incident:

- September 29, 2010 – at approximately 0645, a dredge was found partially submerged in the Ash Pond. No injuries occurred as a result of this incident. Diesel fuel leaked from the vessel's submerged fuel tanks. The released diesel was contained by turbidity curtains and absorbent materials. An investigation and clean-up efforts to safely remove the dredge from the water are on-going.

### INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Mayes Construction continued installation of the offsite utilities with 98% complete.
- Continued recovering cenospheres from the onsite ponds. Responded to outreach calls as received.

### ASH DREDGING & PROCESSING

- Jacobs continued preparation of the On Scene coordinator (OSC) Report for the time-critical removal action.

### ASH DISPOSITION

- Loaded and transported six (6) unit trains this week. Norfolk Southern requested that no train be shipped on Sunday to reduce congestion and balance the location of the ash cycle set trains.
- Continued monitoring moisture content of the ash and determined that the moisture content is such that we were able to ship all trains without polymer this week.
- On site and at factory inventory of available polymer was conducted and purchasing was requested to notify vendor that polymer inventory exceeds anticipated need.
- Continuing to work with the plant to minimize the impact of the delivery of coal trains, limestone cars, ammonia cars, and the loaded and empty ash trains. Coordinated the delivery of five (5) coal trains last week, which were required to meet the demands for plant production.
- Provided MACTEC with draft demobilization plan and requested a detailed demobilization plan be developed.

Note: Project to date tonnage is calculated as sum of Uniontown tonnages plus MACTEC bucket tonnages for trains without finalized Uniontown weights.

## SKIMMER WALL

- Aquarius Marine, LLC completed setting the sheet piles for the first of three caissons.
- The concrete pour for the first caisson is planned for Friday, October 8.

## DIKE REINFORCEMENT

- Construction on Segment C is suspended until November 2010.
- Stantec continued to work on finalizing design efforts for the buttress.
- Jacobs continued to monitor the dikes at Kingston on a daily basis.

## ROUTINE MONITORING

### Surface Water Sampling

- The fifth of eight rounds of surface water sampling for the river system engineering evaluation/cost analysis (EE/CA) surface water sampling task was completed on Tuesday, September 28, and Wednesday, September 29, at 11 locations on the Emory, Clinch and Tennessee Rivers. This task is also incorporated into the approved Non Time Critical Removal Action (NTCRA) Surface Water Monitoring Plan that became effective with the completion of all ash removal activities on the Emory River.
- Automated samplers have been deployed at two locations in the Clinch River, three locations in the Emory River, and in the Swan Pond Embayment Clean Water Ditch in accordance with the NTCRA Surface Water Monitoring Plan. The samplers on the Emory and Clinch Rivers will be activated whenever local rainfall exceeds 1.0" in a 24-hour period and/or flow on the Emory River at Oakdale exceeds 10,000 cubic feet per second (cfs). The automated sampler in Swan Pond Embayment is activated whenever local rainfall exceeds 0.5" in a 24-hour period.
- Swan Pond Embayment surface water sampling continues routinely once per week at two locations along the Swan Pond Embayment drainage.

### Sediment Sampling

- None to report.

### Air Sampling

- Air monitoring results, including fixed-station and real-time monitoring results are below ambient air quality criteria.
- TVA currently operates six real-time PM2.5 instruments: a tapered element oscillating microbalance (TEOM) PM2.5 instrument at Lakeshore Drive (PS07); and PM2.5 Beta Attenuation Monitors (BAM) at the northern-most reach of work in the North Embayment (PS13); PS05; PS07; PS08 and PS09. With regulator approval of the revised Air Monitoring Plan, the TEOM is being converted to PM10 and relocated to PS09. PM2.5 average measurements at all stations for the past week were below the action level of 26 ug/m3 averaged over a 24-hour period.

### Data Management

- Electronic data deliverables are flowing into the Equis database.
- Data validation continues for electronic data packages received from the laboratories.
- Migration of data from the TVA Equis to the EPA SCRIBE database is ongoing.

### Biota Sampling

- Raccoon sampling continues in conjunction with the University of Tennessee.
- TVA sample management and quality assurance staff are working with the biota analytical lab to improve sample throughput and prioritize samples for analysis.

### River System EE/CA Sampling and Analysis

- Groundwater well sampling continues with the compliance well sampling performed this week.
- Geoprobe work started this week and borings were completed at five locations.

### Non-Routine Sampling

- Drums containing booms and pads were sampled for waste disposition.

## **DREDGE CELL**

- Civil Projects continued construction of the interim ash stacking within the Dredge Cell per the regulator-approved interim ash stacking plan.
- Total Cumulative Volume Stacked as of 03OCT10 was 71,000 cy based on truck counts and assumed shrinkage factor of 25%. Civil Projects is hauling from the middle embayment to the Central Dredge Cell (Cell 3). Material was also excavated from the relic area (Cell 1) and placed in Cell 3 when the material in Pap's Hill was too wet to support construction vehicles.
- Stantec continued to install geotechnical instrumentation within the Dredge Cell.
- Provided comments on the 60% ash stacking design for the Dredge Cell (Cells 2 and 3), and received Stantec's preliminary response to those comments.
- Received performance-based conceptual drawings and specifications for the RFP for deep mixing vendors for construction of the perimeter containment system.

## **PLANT ASH DISPOSITION**

- Civil Projects operated the rim ditch, sluice trench, and ash pond areas to remove plant-generated ash and process it for disposal.

## **EMBAYMENT ASH PROCESS**

- MidState poured the wing wall extension for the bridge.
- Ash in the middle embayment was excavated and placed in the old dredge cell.

## **COMMUNICATIONS**

### **Communications**

- Posted to the Website: EPA public meeting slide presentation, Weekly Report, and Weekly Area Resident Update.
- Sent the weekly update to the CAG and members of the public who have signed up to receive weekly emails.
- Compiled photos for TVA presentation showing site immediately after the spill and showing the site progress today.
- Finalized copy for *Inside the Cell* newsletter for site and plant employees.

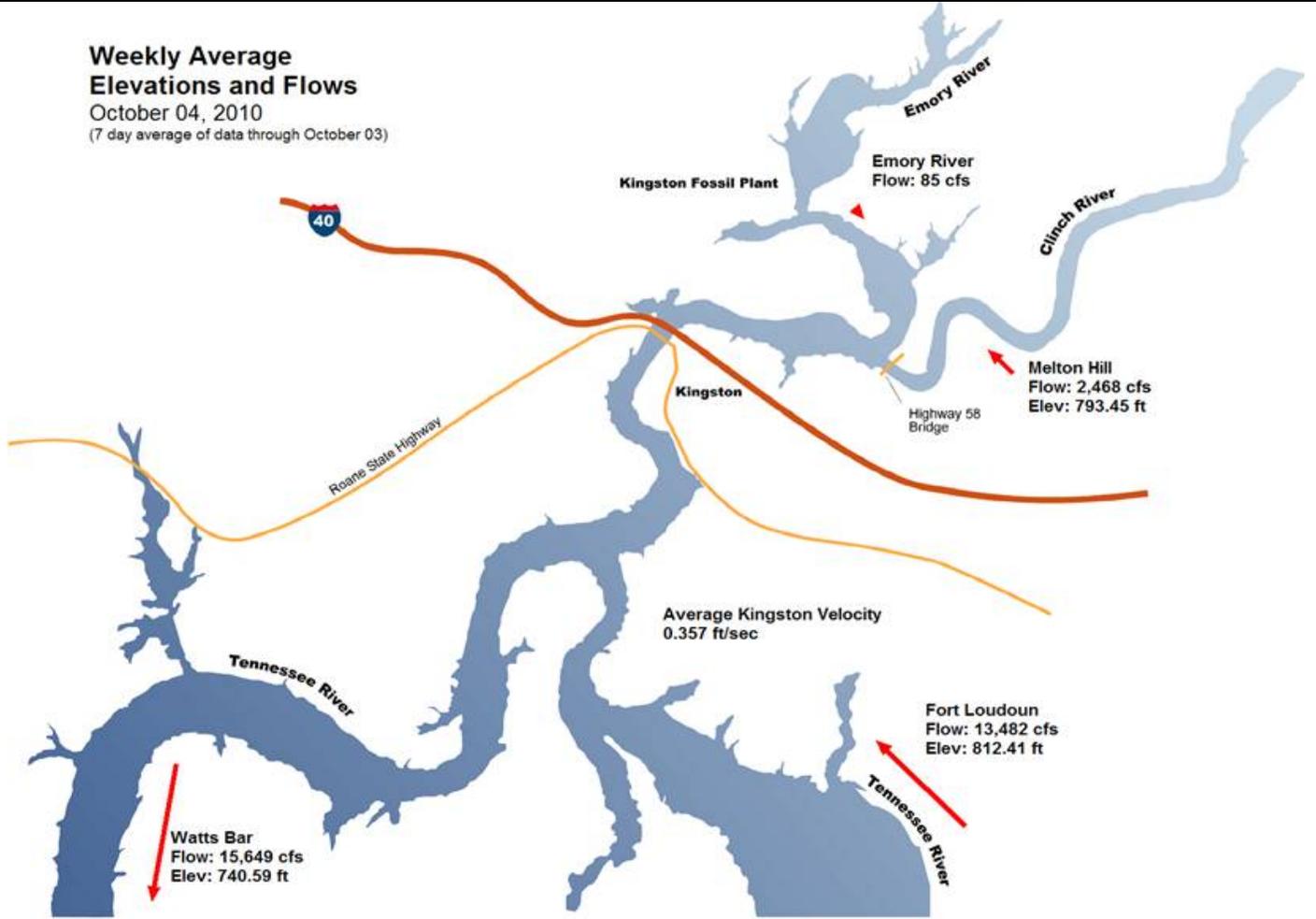
### **Outreach**

- Provided updates to employees, customers, residents, and public officials on site activities.
- Updated the Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Drafted CFC Day of Caring and pizza sale plan.

# RIVER OPERATIONS

## Weekly Average Elevations and Flows

October 04, 2010  
(7 day average of data through October 03)



Kingston Recovery Project		Date: September 27 – October 3, 2010		Field Report	
<b>Safety</b>				<b>Weekly Total</b>	<b>Cumulative Total</b>
Near Misses				0	26
First Aid Incidents				0	74
Recordable Incidents				0	18
Recordable Lost Time Incidents				0	12
<b>Environmental</b>					
<b>Org</b>	<b>Matrix</b>	<b>Samples*</b>	<b>Analyses*</b>	<b>Results*</b>	
TVA	Air - Real-Time (Final)	--	--	267,188	
TVA	Air – Fixed	3,016	--	4,429	
TVA	Surface/Utility Water	4,534	40,205	194,306	
TVA	Ground Water (spring and well)	116	1,311	5,310	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	278	483	3,736	
TVA	Biota	1,778	4,000	47,568	
*Week ending September 30, 2010					
<b>Ash Dredging &amp; Excavation</b>				<b>Weekly Total</b>	<b>Cumulative Total</b>
River	Estimated Cubic Yards (including mechanical dredging)			0	2,762,105
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			0	758,849
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Embayment Excavation	Estimated Cubic Yard			18,810	101,750
Ash Disposal	Estimated Tons			41,374	3,522,183

### Ash Loading to Trains - Weekly as of October 3rd

