

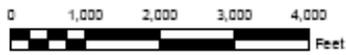
# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

October 4-10, 2010

Aerial Image of Kingston Ash Slide (09/21/2010)



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Date of imagery: 09/21/2010  
Surrounding area: 07/23/2010

Tennessee Valley Authority  
Geographic Information & Engineering

7Prepared by:  
Mary McDermott

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# KINGSTON ASH RECOVERY PROJECT

## WEEKLY REPORT

October 4-10, 2010

### HIGHLIGHTS

- To date, 371 unit trains have been loaded and approximately 3,593,990 tons of ash transported to the landfill in Uniontown, Alabama.

### SAFETY

#### Program Summary

- No 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.
- Fourteen (14) Safety Observation Reports were submitted for the week – 1,468 to date; 1,441 have been closed.
- No 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.

### INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Mayes Construction continued installation of the offsite utilities with 98% complete. All service connections to customers for enhancement of utilities have been completed and water turned on to these customers.
- 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 seven (7) unit trains this week.
- 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.
- 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.
- MACTEC provided brief on status of draft demobilization plan which is on schedule for submittal on October 13.
- Scheduled demobilization planning meeting for October 12.

### SKIMMER WALL

- Aquarius Marine, LLC completed placement of concrete pour in the first caisson (442 cubic yards) of Skimmer Wall on Friday, October 8. The Skimmer Wall rebuild is 25% complete.

### 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 sixth 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, October 5 and Wednesday, October 6, 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. No activations were triggered during the past week.
- Swan Pond Embayment surface water sampling continues routinely once per week at two locations along the Swan Pond Embayment drainage. A weekly Stilling Pond sample is also being collected.

### Sediment Sampling

- None to report.

### Air Sampling

- All air monitoring results from TVA air samplers were below the current Ambient Air Monitoring Plan (AAMP) action levels.
- TVA operates five PM2.5 Beta Attenuation Monitors (BAMs) and one PM10 Tapered Element Oscillating Microbalance (TEOM) 24/7 at fixed stations encircling the KRP. These monitors output hourly gravimetric PM concentrations. BAM gravimetric PM concentrations are posted to the KRP regulator's webpage. TVA also collects filters for PM2.5 gravimetric lab analysis from one BGI sampler, filters for metals analyses from two HiVolume PM10 samplers and two Total Suspended Particulate (TSP) samplers, and filters for silica analysis from two low volume SKC samplers. All the filter samplers are 24-hour samples, located at PS07 (peninsula next to east embayment), and follow the 1/3 day EPA air quality schedule.

### 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.

### River System EE/CA Sampling and Analysis

- A readiness review was held on Monday October 4 for several of the sediment sampling tasks associated with the river system EE/CA. Preparations are being finalized to initiate ash deposition, submerged sediment, and sediment pore water characterization tasks over the next several weeks.
- Groundwater well sampling continues with the sampling of newly-installed wells performed this week.
- Geoprobe work continued this week. Three borings remain to be completed as of the end of the week.

### Non-Routine Sampling

- None to report.

## DREDGE CELL

- Continued ash stacking in the Central Dredge Cell (Cell 3).
- Continued hauling ash from the Relic Area (Cell 1) to the Ballfield.
- Relocated the clay spoils from the underpass construction to the Lateral Expansion (Cell 4) alongside Dike D.

## 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 is forming for placement of approach slabs next week. Bridge is 80% complete.
- Ash was excavated from the middle embayment areas of Pap's Hill and west area and hauled to the Central Dredge Cell interim stacking.

## COMMUNICATIONS

### Communications

- Posted to Website: Weekly Report and Weekly Area Resident Update.
- Emailed weekly update to the CAG and members of the public who have signed up to receive it.
- Took photos to accompany new weekly highlights and submitted.
- Compiled and took photos for showing site immediately after the spill and showing the site progress today.
- Finalized copy for new *Inside the Cell* newsletter for site and plant employees and submitted for printing.

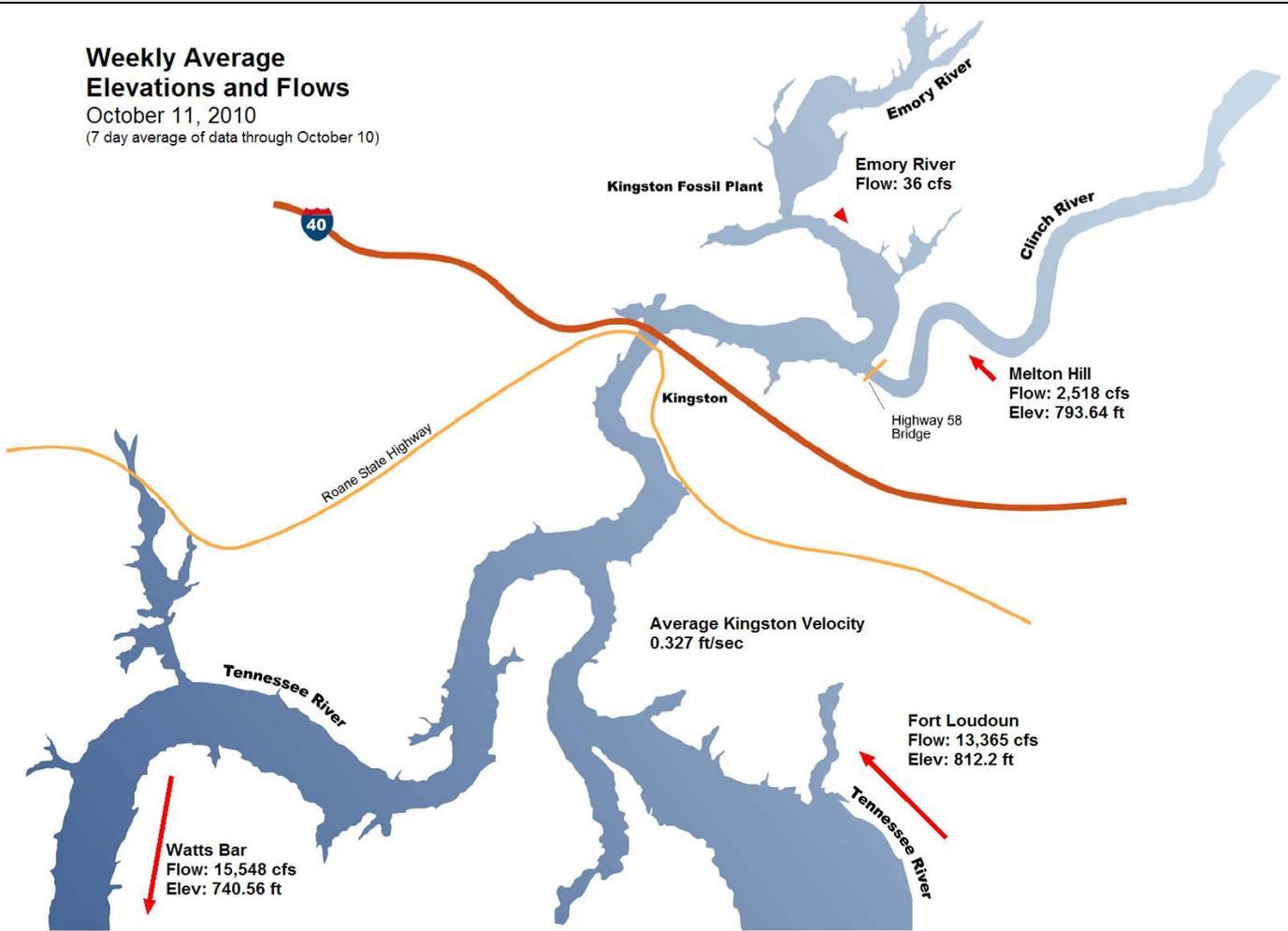
### Outreach

- Provided updates to employees, customers, residents, and public officials on site activities.
- Conducted a briefing and tour for TVA Board of Director William Graves.
- Posted updated site and safety information on site bulletin boards.
- Conducted the final Part One presentation of the Educational Initiative to students at Harriman High School.
- Met with presenters about potential topics for second class in the Educational Initiative for Roane County and Harriman High Schools.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

# RIVER OPERATIONS

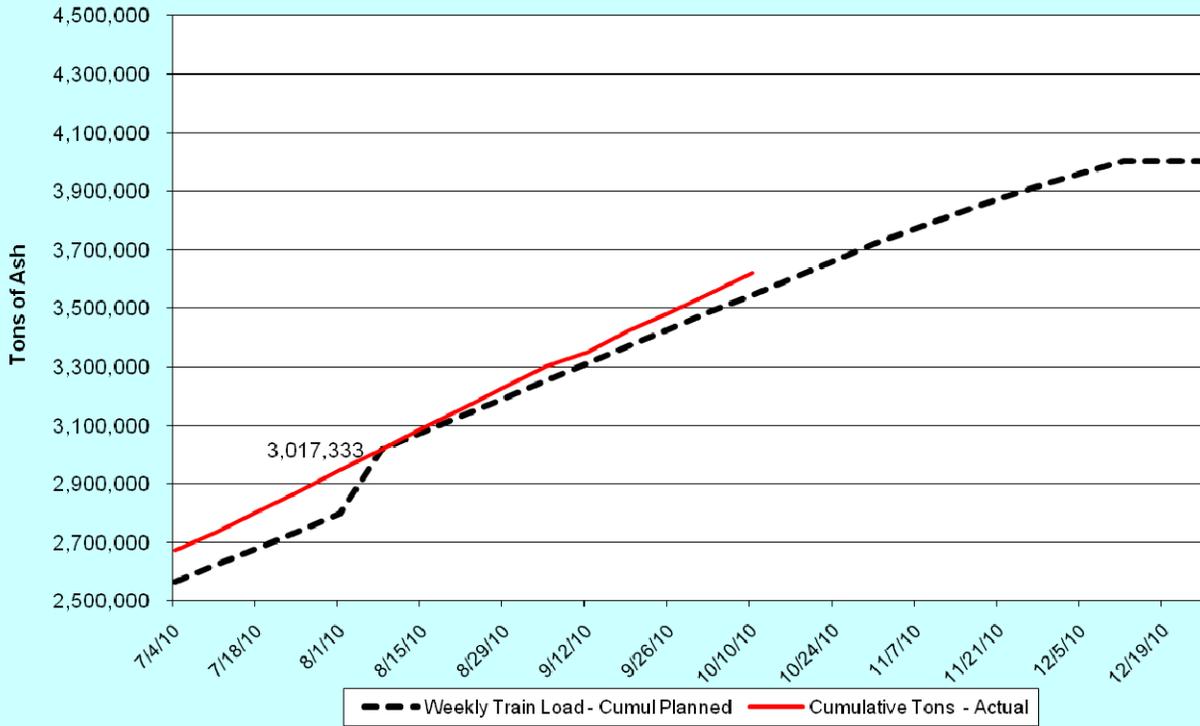
## Weekly Average Elevations and Flows

October 11, 2010  
(7 day average of data through October 10)



Kingston Recovery Project		Date: October 4-10, 2010		Field Report	
<b>Safety</b>				<b>Weekly Total</b>	<b>FY - Cumulative Total</b>
Near Misses				0	0
First Aid Incidents				0	0
Recordable Incidents				0	0
Recordable Lost Time Incidents				0	0
<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	3070	--	4,483	
TVA	Surface/Utility Water	4,564	40,508	195,587	
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	1,795	4,034	47,869	
*Week Ending 10/07/10					
<b>Ash Removal</b>	<b>Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
River Dredging				NA	2,772,786
East of Dike 2				NA	736,691
Sluice Trench	Estimated CY (modified to an in-place volume)			8,109	114,048
West Storage	Estimated CY (modified to an in-place volume)			0	198,664
Dredge Cell (Cell 1)	Estimated CY (modified to an in-place volume)			21,575	256,149
Dredge Cell (Test Embankment Cell 3)	Estimated CY (modified to an in-place volume)			16,156	136,426
Lateral Expansion (Cell 4)	Estimated CY (modified to an in-place volume)			874	37,753
Ash Excavation (Mid-Embay to Ballfield)	Estimated CY (modified to an in-place volume)			0	2,000
<b>Ash Disposal</b>	<b>Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
Ash Disposal	Estimated Tons			71,842	3,593,994
<b>Ash Removal / Excavation</b>	<b>Non-Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
Middle Embayment	Estimated CY (modified to an in-place volume)			26,710	121,596
North Embayment	Estimated CY (modified to an in-place volume)			0	0
From Dredge Cell	Estimated CY (modified to an in-place volume)			544	7,150
From West Storage (TC)	Estimated CY (modified to an in-place volume)			0	23,896
From Mid-Embay to Ballfield	Estimated CY (modified to an in-place volume)			0	2,000
<b>Ash Stacking</b>	<b>Non-Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
Subgrade Recontouring Central Dredge Cell (Cell 3)	Estimated CY (modified to an in-place compacted volume)			0	41,444
Ash Stacking Central/North Dredge Cell (Cells 2 & 3)	Estimated CY (modified to an in-place compacted volume)			22,950	93,640

Ash Loading to Trains - Weekly  
as of October 10th



Ash Excavation from Embayments - Weekly  
as of October 10th

