

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

November 15-21, 2010

Aerial Image of Kingston Ash Slide (10/21/2010)



Date of imagery: 10/21/2010
Surrounding area: 07/23/2010

Tennessee Valley Authority
Geographic Information & Engineering

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

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HIGHLIGHTS

- To date, 407 unit trains have been loaded, and over 3.9 million tons of ash have been transported to the landfill in Uniontown, Alabama.
- On Wednesday, November 17, the Swan Pond Circle bridge was opened to public traffic, and the underpass haul road was opened to site workers to begin hauling ash from the East Embayment.

SAFETY

- Two (2) site specific HSE orientations were conducted for the week – 1,739 to date. One hundred ninety-seven (197) HSE site orientation refresher courses have been conducted to date.
- Five (5) Safety Observation Reports were submitted for the week – 1,560 to date; 1,553 have been closed.
- No incidents or injuries reported.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Mayse Construction is procuring and fabricating components to install across Swan Pond Circle Road underpass bridge. The utility project is 99% complete. Mayse is demobilizing equipment and dressing up the excavation areas.

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.
- Addition of polymer to rail cars was continued throughout the week as necessary for moisture control.
- 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.
- A MACTEC demobilization planning meeting is being held weekly and an action item list is updated for progress to date.

SKIMMER WALL

- Aquarius Marine, LLC completed setting concrete panels in the Skimmer and made preparations for the concrete cap pours on all three caissons on November 29.

DIKE REINFORCEMENT

- Approximately 100' of buttress was completed this week. Construction is at 43% complete.
- Jacobs continues to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- Surface water sampling for all analyses specified in the EE/CA sampling and analysis plan is complete.
- 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. There was a rainfall event on Tuesday, November 16, that required activation of the automatic samplers.
- Swan Pond Embayment surface water sampling continues routinely once a week at two locations along the Swan

Pond Embayment drainage. A weekly Stilling Pond sample is also being collected.

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.

Biota Sampling

- Raccoon sampling at background locations continues in conjunction with the University of Tennessee.

River System EE/CA Sampling and Analysis

- Ash deposition and submerged sediment sampling was initiated on October 18. Sampling was completed in the Tennessee River last week and initiated in the Clinch River. Sampling will continue into the month of December.

Non-Routine Sampling

- Monthly railcar samples were collected for Toxicity Characteristic Leaching Procedure (TCLP) and paint filter tests.

DREDGE CELL

- The technical team responded to comments from various bidders on the Request for Proposals and assisted Supply Chain in preparing addenda to the RFP.
- Representatives of TVA, Jacobs, and Stantec visited the deep soil mixing levee stabilization projects in New Orleans.
- Stantec delivered the 60% design submittal for the RDP-0113-E North Dredge Cell (Dike C) Perimeter Containment.
- There was no ash stacking performed this past week due to wet weather and wet ash in the embayments, which was not suitable for stacking.

PLANT ASH DISPOSITION

- Civil Projects operated the sluice trench and ash pond areas to process plant-generated ash for disposal.

EMBAYMENT ASH PROCESS

- Mid-State Construction completed the underpass bridge on Swan Pond Circle Road.
- TVA Civil Projects excavated and hauled the first 8,000 cy of ash from the North Embayment.

COMMUNICATIONS

Communications

- Posted to Website: Weekly Report and Weekly Area Resident Update
- Sent weekly update to the CAG, public officials and members of the public who have signed up to receive weekly emails.
- Finished copy for the next edition of *Inside the Cell* newsletter for site and plant employees.

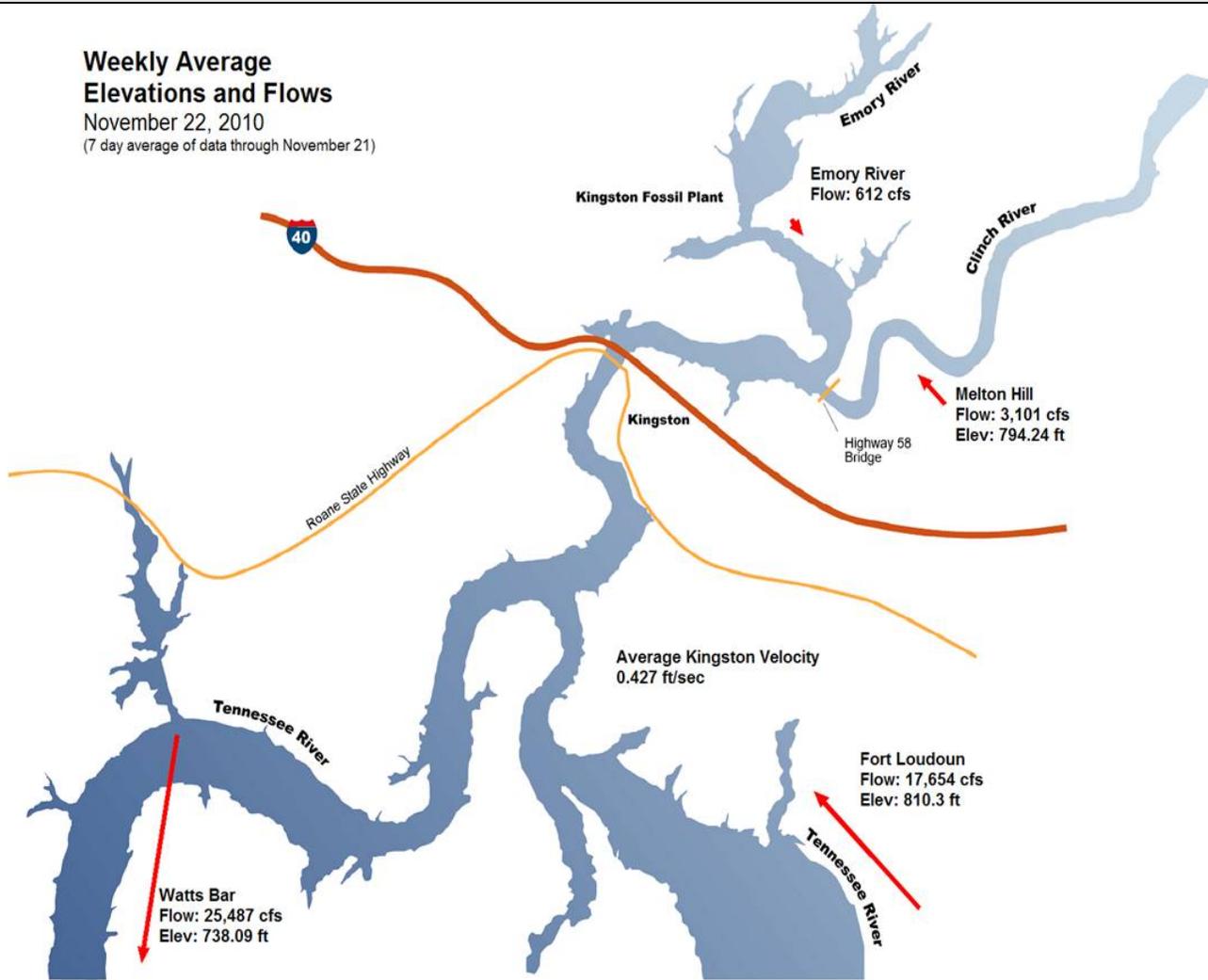
Outreach

- Provided updates to employees, customers, residents, and public officials of site activities.
- Conducted second in a series of classes as part of the site Educational Initiative at Roane County High School.
- Scheduled the first class of the site Educational Initiative for Rockwood High School.
- Updated the Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

RIVER OPERATIONS

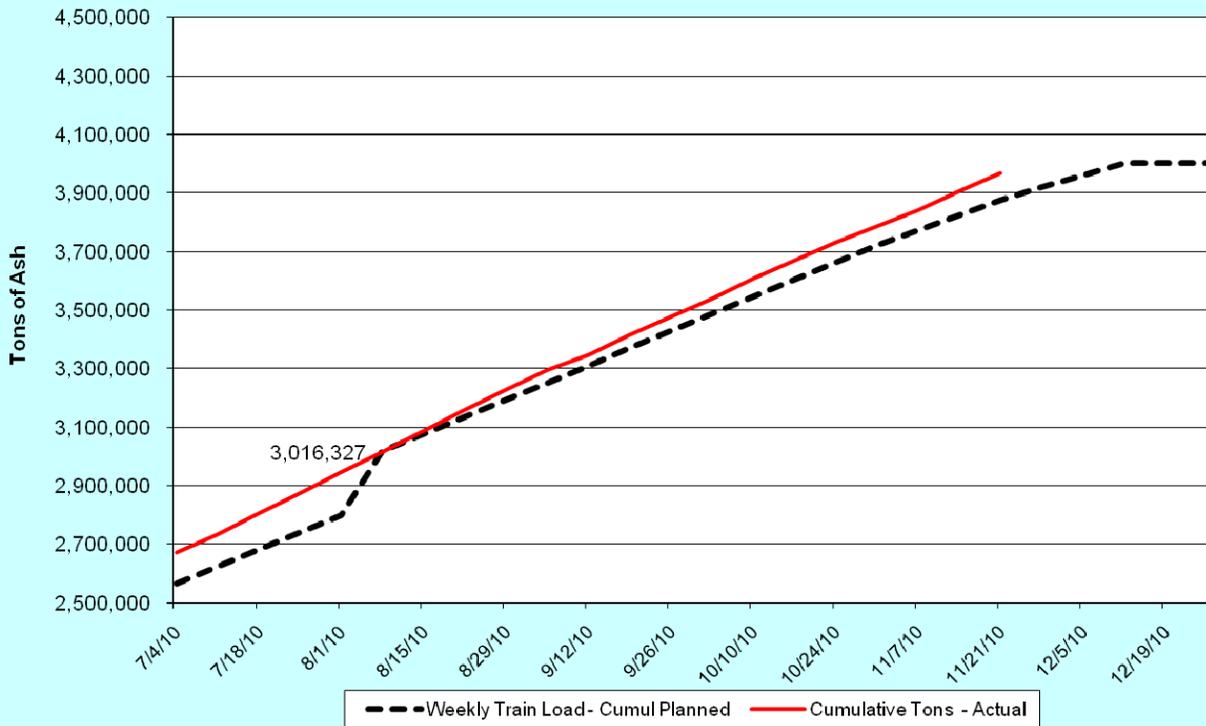
Weekly Average Elevations and Flows

November 22, 2010
(7 day average of data through November 21)



Kingston Recovery Project		Date: November 15-21, 2010		Field Report	
Safety				Weekly Total	FY - Cumulative Total
Near Misses				0	0
First Aid Incidents				0	0
Recordable Incidents				0	0
Recordable Lost Time Incidents				0	0
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time (Final)	--	--	267,188	
TVA	Air - Fixed	3,411	--	4,981	
TVA	Surface/Utility Water	4,966	43,424	211,643	
TVA	Ground Water (spring and well)	136	1,476	6,047	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	307	586	4,490	
TVA	Biota	2,369	5,182	63,323	
*Week Ending 11/18/10					
Ash Removal	Time-Critical			Weekly Total	Cumulative Total
River Dredging				NA	2,772,786
East of Dike 2				NA	736,691
Ash Movement to Ballfield	Time-Critical				
Sluice Trench	Estimated CY (modified to an in-place volume)			4,786	146,234
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)			25,666	416,737
Dredge Cell (Test Embankment Cell 3)	Estimated CY (modified to an in-place volume)			0	147,816
Lateral Expansion (Cell 4)	Estimated CY (modified to an in-place volume)			0	41,078
Ash Excavation (Mid-Embay to Ballfield)	Estimated CY (modified to an in-place volume)			0	2,000
Ash Disposal	Time-Critical			Weekly Total	Cumulative Total
Ash Disposal	Estimated Tons			50,225	3,941,416
Ash Removal / Excavation	Non-Time-Critical			Weekly Total	Cumulative Total
Middle Embayment	Estimated CY (modified to an in-place volume)			0	238,953
North Embayment	Estimated CY (modified to an in-place volume)			0	0
From Dredge Cell	Estimated CY (modified to an in-place volume)			0	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)			16,365	23,569
From North Embay to Ballfield	Estimated CY (modified to an in-place volume)			7,733	7,733
Ash Stacking	Non-Time-Critical			Weekly Total	Cumulative Total
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)			20,729	196,022
Ash Placement in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			24,098	25,080

Ash Loading to Trains - Weekly
as of November 21st



Ash Excavation from Embayments - Weekly
as of November 21st

