

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

December 13-19, 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

December 13-19, 2010

HIGHLIGHTS

- MACTEC completed their demobilization from the project.

SAFETY

- No site specific HSE orientations were conducted for the week – 1,746 to date. One hundred ninety-seven (197) HSE site orientation refresher courses have been conducted to date.
- Ten (10) Safety Observation Reports were submitted for the week – 1,582 to date; 1,581 have been closed.
- The last recordable injury (a leg sprain) occurred on December 6, 2010.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Mayse Construction continued installing the utility lines across Swan Pond Circle Bridge. Work is planned to be complete by the end of December.

ASH DREDGING & PROCESSING

- No major activities.

ASH DISPOSITION

- MACTEC completed their demobilization from the project.
- Phillips and Jordan conducted clean-up and demobilization activities at the landfill site.

SKIMMER WALL

- Aquarius Marine, LLC continued cleanup and demobilization work.

DIKE REINFORCEMENT

- Due to the weather, only about 20 feet of buttress was completed this week. Construction is at 44% complete.
- Jacobs continued 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" 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. 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 has been suspended, pending a re-evaluation of reference locations.

River System EE/CA Sampling and Analysis

- Ash deposition and submerged sediment sampling was initiated on October 18. Sampling for ash deposits and submerged sediments has been completed in the two Tennessee River reaches. Sampling continues in the Clinch River. Ash deposit and submerged sediment sampling will continue into the month of January.
- Seasonally exposed sediment sampling was initiated on Tuesday, December 14.

Non-Routine Sampling

- None to report.

DREDGE CELL

- Continued ash stacking, but at a slower rate than planned due to wet weather creating higher moisture content in the Dredge Cell.

LATERAL EXPANSION AND ASH POND

- Stantec delivered the 30% Removal Design Package for RDP-0114-A Lateral Expansion Area (Cell 4) Ash Stacking on Friday, December 17.

PLANT ASH DISPOSITION

- No plant ash recovery or processing activities were performed.
- Free Water Volume for future plant ash discharge was maintained by dredging CERCLA ash from the Stilling Pond to the Lateral Expansion.

EMBAYMENT ASH PROCESS

- TVA Civil Projects excavated and hauled ash from the North and Middle Embayments in limited amounts due to the wet conditions.

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.
- Completed, picked up and delivered December *Inside the Cell* newsletter to site and plant employees.
- Submitted full-page photo ad of Kingston Ash Recovery Project milestones to the Roane County News for publication on Friday, December 17.
- Provided site briefings and tours for 2nd anniversary story to Chattanooga Times-Free Press and Roane County News.

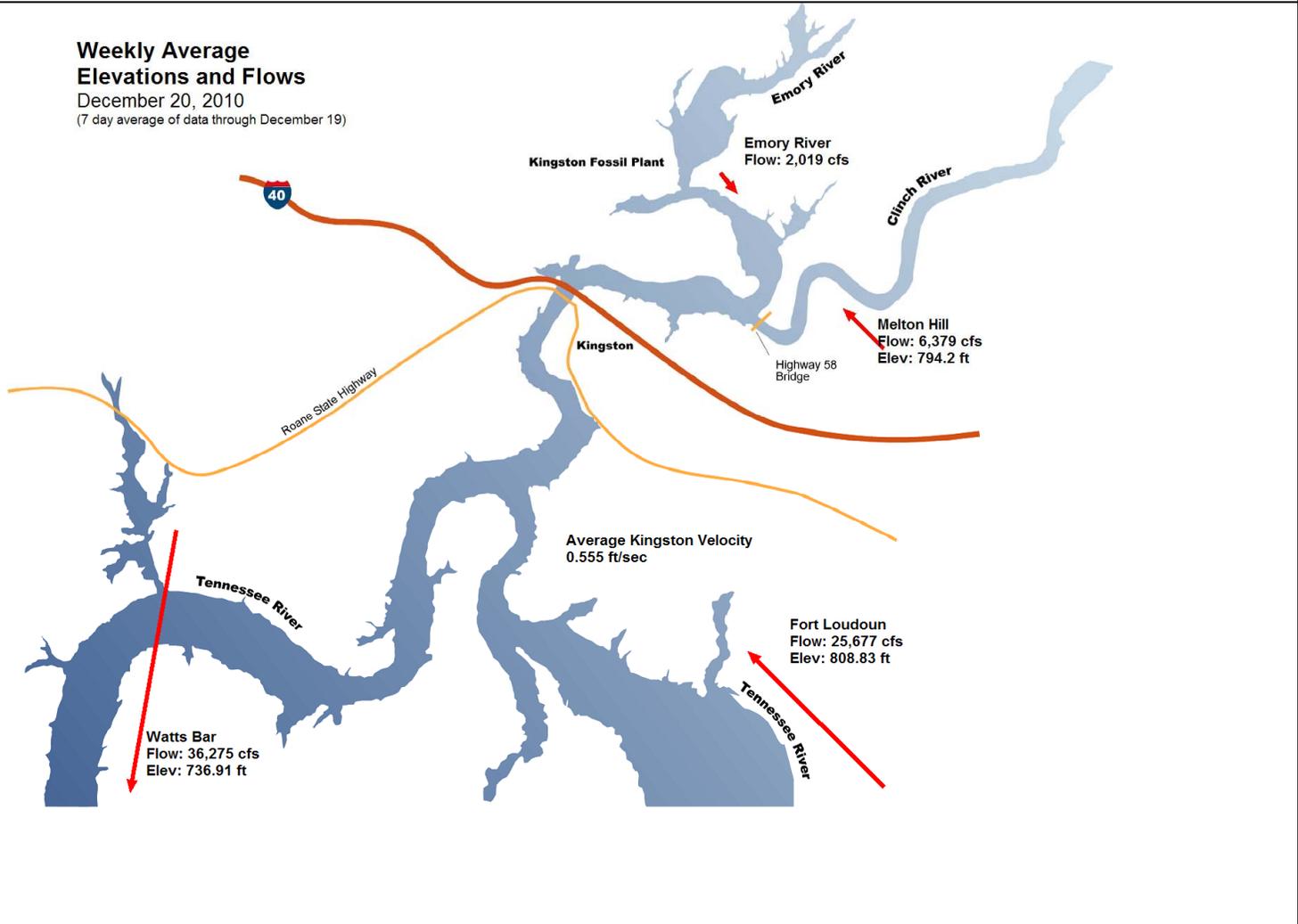
Outreach

- Provided updates to employees, customers, residents, and public officials on site activities.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

Other

- Provided briefing and tour about Kingston Fossil Plant gypsum pond leak to the Roane County Mayor, the Kingston Mayor, the Roane County News, and the Chattanooga Times-Free Press. Provided information to the News Sentinel.

RIVER OPERATIONS



Kingston Recovery Project		Date: December 13-19, 2010		Field Report	
Safety		Weekly Total		FY - Cumulative Total	
Near Misses		0		0	
First Aid Incidents		0		3	
Recordable Incidents		0		1	
Recordable Lost Time Incidents		0		0	
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time (Final)	--	--	267,188	
TVA	Air – Fixed	3,607	--	5,196	
TVA	Surface/Utility Water	5,061	44,003	215,087	
TVA	Ground Water (spring and well)	150	1,530	6,236	
TVA	Ash	77	102	1,673	
TVA	Soil/Sediment	361	765	5,036	
TVA	Biota	2,430	5,321	64,987	
*Week Ending 12/16/10					
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)			0	153,988
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)			0	458,924
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			0	4,021,935
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)			2,675	21,987
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)			0	43,633
From North Embay to Ballfield	Estimated CY (modified to an in-place volume)			0	7,733
From Mid Embay to Lateral Expansion	Estimated CY (modified to an in-place volume)			5,434	9,928

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)			2,252	212,654
Ash Stacking South Dredge Cell (Cell 1)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Lateral Expansion (Cell 4)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Ash Pond	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Placement in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			5,434	57,308

