

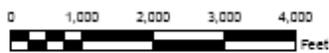
KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

January 17-23, 2011

Aerial Image of Kingston Ash Slide (11/22/2010)



M:\nrcs\img\04p_201012_011.pdf



Date of imagery: 11/22/2010
Surrounding area: 07/23/2010

Tennessee Valley Authority
Geographic Information & Engineering

Prepared by:
Mary McDermott

Issue (Date/Time)
01/25/2011 2:47:35 PM

KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

January 17-23, 2011

HIGHLIGHTS

- EPA conducted a quarterly audit of the air monitoring program on January 19 and 20. There were no findings or issues resulting from the audit, and the formal audit report is forthcoming.

SAFETY

- Six (6) site specific HSE orientations were conducted for the week – 1,765 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 – 1,620 to date; 1,616 have been closed.
- The last recordable incident occurred on December 22, 2010, when a laborer became stuck in the wet ash and experienced back pain. The incident investigation continues.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.

STILLING POND DREDGING

- Dredge operated 15.5 hours and removed 2,720 CY from the Stilling Pond, which was discharged as slurry to the Lateral Expansion.
- A bathymetric survey was completed on January 18th. The results indicated that the Ash Pond had lost volume and the Stilling Pond had gained volume for a net effect of 5% loss in Free Water Volume.

ASH DISPOSITION

Phillips & Jordan completed ash clean-up of the unloading and haul road areas.

SKIMMER WALL

- Jacobs continued design of the navigation light and as-built drawings for the Skimmer Wall.

DIKE REINFORCEMENT

- Approximately 3,100 feet of buttress have been completed.
- The Emory River side of Dike C has been completed except for the peninsula area.
- Crews began preparing for construction along the Intake Channel. Work will begin when the work plan is approved by EPA.
- Jacobs continued to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- 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. There were no rainfall events that triggered storm flow sampling for week ending January 21, 2011,
- Maintenance activities were performed on the automated samplers in the Emory and Clinch rivers last week and will continue this week for the auto sampler in the Clean Water Ditch.
- 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.
- EPA conducted a quarterly audit of the air monitoring program on January 19 and 20. There were no findings or issues resulting from the audit, and the formal audit report is forthcoming.

Data Management

- Electronic data deliverables are flowing into the Equis database.
- Data validation continues for electronic data packages received from the laboratories.

Biota Sampling

- None to report.

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 Tennessee River and all but one location in the Clinch River.
- Ash deposit and submerged sediment sampling continued in the Emory River this week.
- Seasonally exposed sediment sampling progressed in the Emory River this week and is expected to be completed next week.
- Preparations for the bioassay testing continue. A readiness review to finalize the planning is scheduled for the week of January 24.

Non-Routine Sampling

- None to report.

DREDGE CELL

- Continued to excavate ash and associated sediment from the North Embayment for stacking in the central Dredge Cell. Also hauled wet material from stockpile areas in the Dredge Cell to the Ballfield for lime treatment prior to returning to the Dredge Cell.
- Continued lime treatment of wet ash in a series of four "pits" next to the Sluice Trench.
- Established an SOP for monitoring and reporting of the lime treatment process.
- Initiated "brainstorming" team for evaluating closure of the Dredge Cell/Ash Pond and other Best Management Practices.
- Stantec developed a white paper for input by TVA team on codisposal of debris with the ash and sediment from the embayments.

LATERAL EXPANSION AND ASH POND

- TVA Civil Projects placed 1,800 CY of ash from the Middle Embayment for stockpiling.

PLANT ASH DISPOSITION

- TVA Civil Projects dragline excavated 299.3 CY of bottom ash from the south end of the Sluice Trench.
- Development of work packages are underway for planned track removal from the Ballfield.

EMBAYMENT ASH PROCESS

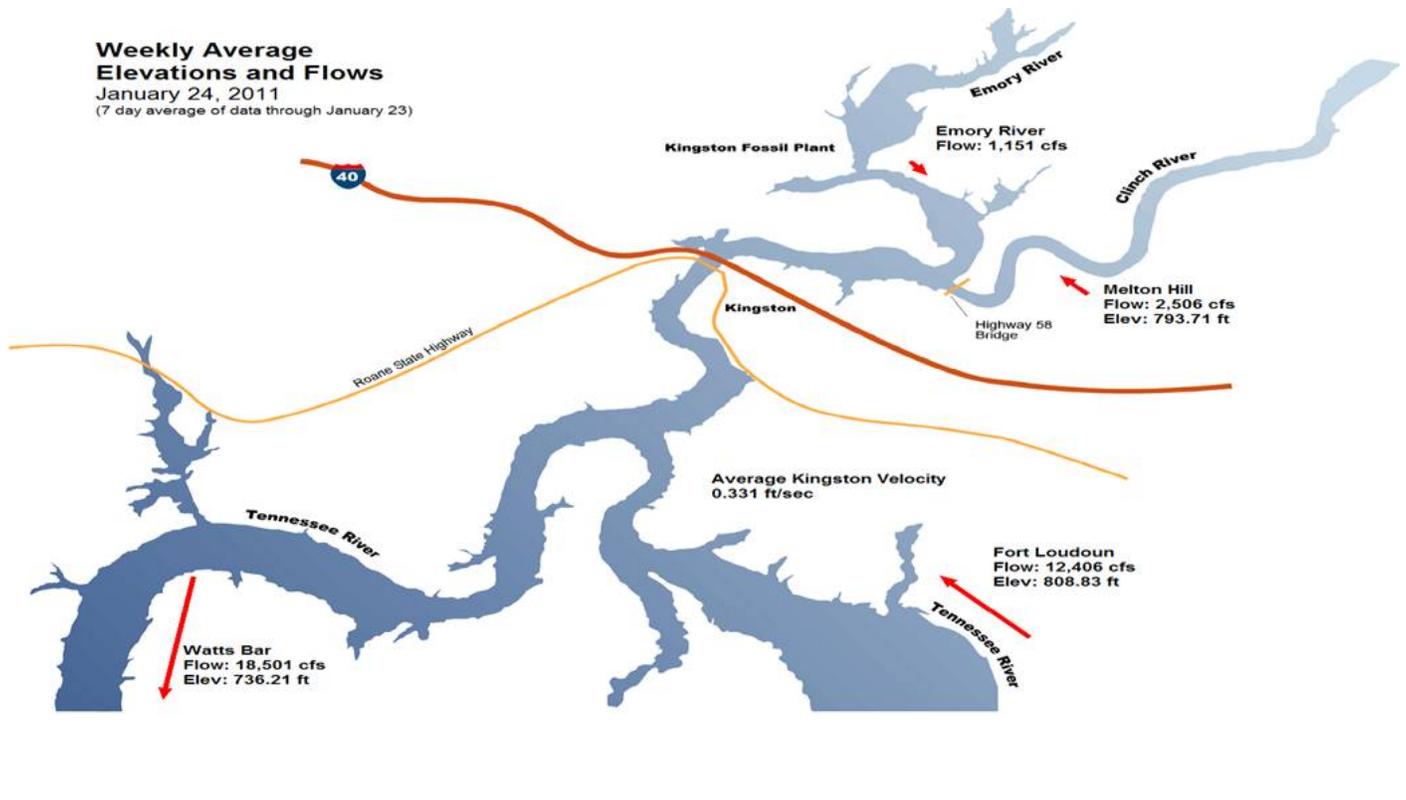
- TVA Civil Projects excavated and hauled over 8,000 CY of ash material from the North Embayment.
- Stantec began sampling and analyzing soil on the former Gupton property site to determine quality and quantity of clay material.

COMMUNICATIONS

Communications

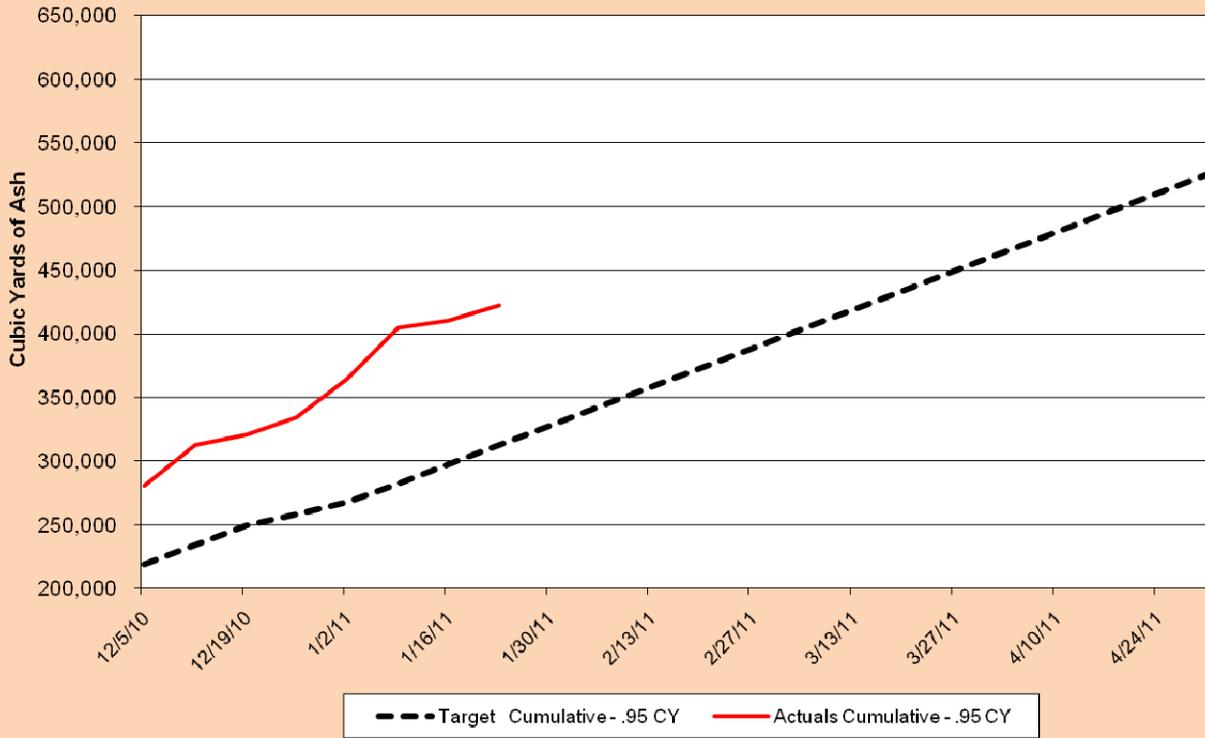
- Added Weekly Report and Weekly Area Resident Update to Kingston Ash Recovery website.
- Sent weekly update to the CAG, public officials and members of the public who have signed up to receive weekly emails.
- Finished copy for January edition of *Inside the Cell*.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

RIVER OPERATIONS



Kingston Recovery Project		Date: January 17-23, 2011		Field Report	
Safety				Weekly Total	FY - Cumulative Total
Near Misses				0	0
First Aid Incidents				0	3
Recordable Incidents				0	2
Recordable Lost Time Incidents				0	0
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time (Final)	--	--	267,188	
TVA	Air – Fixed	3,839	--	5,626	
TVA	Surface/Utility Water	5,108	44,190	216,130	
TVA	Ground Water (spring and well)	163	1,678	6,871	
TVA	Ash	77	102	1,673	
TVA	Soil/Sediment	362	753	5,007	
TVA	Biota	2,351	5,234	62.966	
*Week Ending 01/20/11					
Ash Removal / Excavation	Non-Time-Critical			Weekly Total	Cumulative Total
Middle Embayment	Estimated CY (modified to an in-place volume)			-1,588	240,897
North Embayment	Estimated CY (modified to an in-place volume)			8,452	80,000
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-Embayment to Ballfield	Estimated CY (modified to an in-place volume)			0	45,948
From North Embayment to Ballfield	Estimated CY (modified to an in-place volume)			3,281	18,852
From Mid Embayment to Lateral Expansion	Estimated CY (modified to an in-place volume)			1,818	35,091
From North Embayment to Lateral Exp	Estimated CY (modified to an in-place volume)			0	6,103
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)			9.859	263,531
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)			255	103,549

Ash Excavation from Embayments - Weekly as of January 23rd



Ash Stacking in Dredge Cell - Weekly as of January 23rd

