

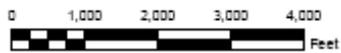
KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

February 28 – March 6, 2011

Aerial Image of Kingston Ash Slide (01/24/2011)



Filename: ImageDW_20110124_8-11a.tif



Date of imagery: 01/24/2011
Surrounding area: 02/27/2010

Tennessee Valley Authority
Geographic Information & Engineering

Prepared by:
Mary McDermott

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

February 28 – March 6, 2011

HIGHLIGHTS

- TVA Civil Projects excavated and hauled over 17,000 CY from the North Embayment.

SAFETY

- Twenty-one (21) site specific HSE orientations were conducted for the week – 1,806 to date. One hundred ninety-nine (199) HSE site orientation refresher courses have been conducted to date.
- Twenty-five (25) Safety Observation Reports were submitted for the week – 1,698 to date; 1,693 have been closed.
- The last recordable incident occurred on December 22, 2010.

INFRASTRUCTURE/ASH MANAGEMENT

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

STILLING POND DREDGING

- No activity.

ASH DISPOSITION

- All shipment and disposal tonnage data is now final.
- Maintenance plans are under development on the 2011 rail yard inspection.

ASH SLURRY POND/POND TSS CONTROL

- A bathymetric survey of the main ash pond was completed on March 1, 2011, and indicated continued loss of storage. The free water volume of the main ash pond and the stilling pond is 94,936,084 gallons.
- TSS sampling was performed throughout the ash slurry system and used to control polymer addition rates.
- TSS sampling early in the week indicated an increase in solids content of both ash and stilling pond discharge waters and the rate of polymer addition was increased to reverse this trend. Results on Thursday indicated that TSS had returned to normal levels.
- The polymer addition rate remained at the increased level as another significant rainfall event was predicted for the weekend.

ASH PROCESSING

- S&S Railroad Construction continued removal of rails from Ash Track 3 (AT-3).
 - Four days of work were performed by S&S this week, as the crew returned Tuesday.
 - All work was performed without incident or accident.
- Ballfield mass balance after adjustment for LIDAR survey on February 8 indicates that 47,177 cubic yards of ash remain to be removed to return the Ballfield to 770' elevation

SKIMMER WALL

- No activity.

DIKE REINFORCEMENT

- Revisions to the draft design for the diffuser area of the buttress continued.
- Continued construction on buttress along the intake channel. Approximately 3,600 feet (61%) of the buttress has been completed.

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 was a rainfall event that triggered storm flow sampling for the Embayment and the Emory and Clinch Rivers on Monday, February 28, 2011.
- 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

- Spring amphibian sampling is ongoing.

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 and Clinch River reaches and Emory River Reach A. Ash deposition and submerged sediment sampling continued in Emory River Reach B this week.
- A replenishment water collection continues in support of the first round of bulk sediment bioassay.

Non-Routine Sampling

- North Embayment confirmation sampling continues. Samples are screened onsite and samples that pass the screening are shipped for PLM analysis. Additional confirmation sampling will be ongoing as sectors of the North Embayment are excavated.
- Additional paint chip sampling from the intake channel bridge was conducted for TCLP metals analysis.

DREDGE CELL

- Held meeting with engineers to resolve comments from TVA reviewers on the 90% removal design package for the North Dredge Cell (Dike C) Perimeter Containment.
- Continued to haul untreated ash from the North Embayment to the Central Dredge Cell and lime-treated ash from the Ballfield to the Central Dredge Cell for ash stacking. A portion of the ash was used to prepare a flat platform for use by the subsequent stabilization contractor demonstration project. Hauling was suspended on Monday and Tuesday due to rain.

LATERAL EXPANSION

- Received letter from Stantec describing recontouring within the Lateral Expansion in preparation for ash stacking. Also described stockpiling of materials on top of the relic portion of the Dredge Cell or against Dike D.
- Held meeting with Stantec to resolve comments from TVA reviewers on the 60% removal design package for the Lateral Expansion (Cell 4) Ash Stacking.
- Stantec began mobilization for installation of geotechnical instrumentation in the Lateral Expansion area.

PLANT ASH DISPOSITION

- TVA Civil Projects dragline excavated 816 CY of bottom ash from the south end of the sluice trench.

EMBAYMENT ASH PROCESS

- TVA Civil Projects excavated and hauled over 17,000 CY of ash from the North Embayment.

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.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Submitted *Inside the Cell* newsletter copy for edits and approval.
- Produced and submitted newspaper ad to appear in Roane County News and The Shopper discussing closing of the Outreach Center in Kingston.

Outreach

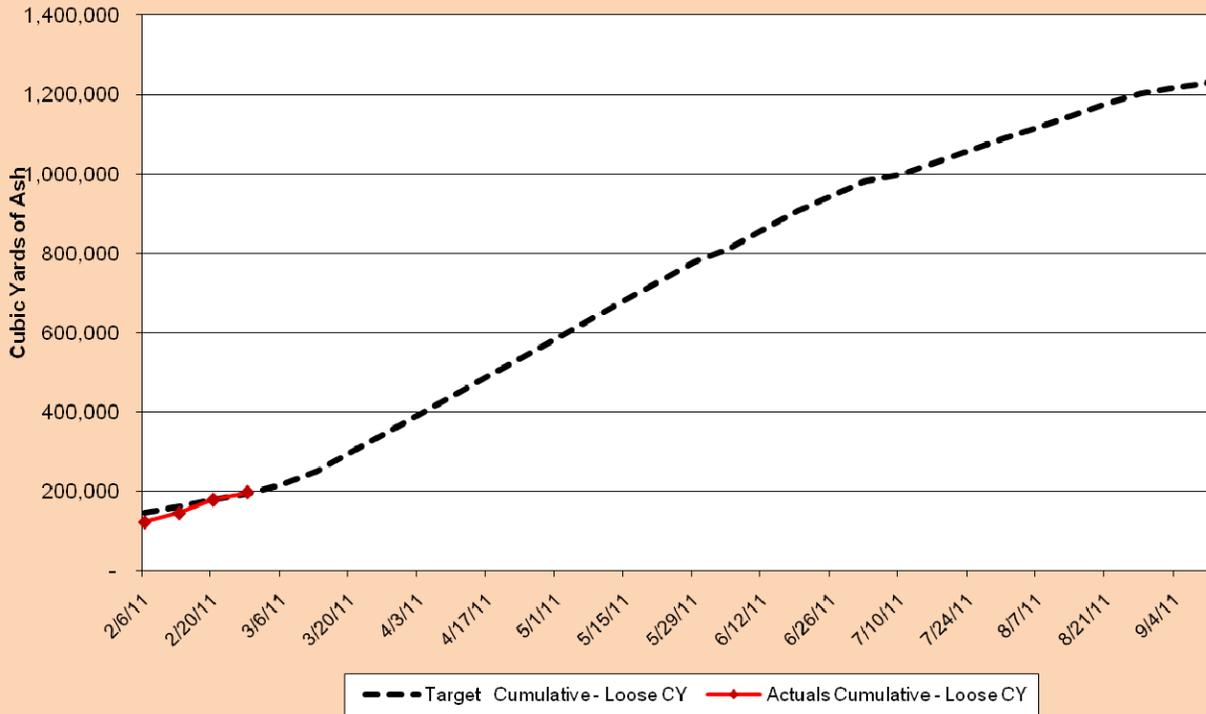
- Prepared and hand-delivered information to local residents regarding the soil testing taking place on TVA purchased properties along Swan Pond Road.

RIVER OPERATIONS

Note: River Operations data not reported this week.

Kingston Recovery Project		Date: February 28 – March 6, 2011		Field Report	
Safety				Weekly Total	FY - Cumulative Total
Near Misses				0	0
First Aid Incidents				0	7
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	4,174	--	6,115	
TVA	Surface/Utility Water	5,204	45,089	220,492	
TVA	Ground Water (spring and well)	166	1,699	6,925	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	555	1,044	6,733	
TVA	Biota	2,410	5,406	64,619	
*Week Ending 03/03/11					
Ash Removal / Excavation	Non-Time-Critical			Weekly Total	Cumulative Total*
From West Storage TC to Dredge Cell	Estimated CY (modified to an in-place volume) Time Critical			0	17,834
Mid Embay to Dredge Cell	Estimated CY (modified to an in-place volume)			0	173,702
North Embay to Dredge Cell	Estimated CY (modified to an in-place volume)			12,616	117,039
From Dredge Cell	Estimated CY (modified to an in-place volume)			0	5,336
From Mid-Embay to Ballfield	Estimated CY (modified to an in-place volume)			-1,264	32,779
From North Embay to Ballfield	Estimated CY (modified to an in-place volume)			1,731	32,771
From Mid Embay to Lateral Expansion	Estimated CY (modified to an in-place volume)			546	26,735
From North Embay to Lateral Exp	Estimated CY (modified to an in-place volume)			0	4,555
From North Embay to Mid Embayment	Estimated CY (modified to an in-place volume)			3,198	3,198
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	30,930
Subgrade Recontouring North Dredge Cell (Cell 2)	Estimated CY (modified to an in-place compacted volume)			3,198	3,198
Subgrade Recontouring Lateral Expansion (Cell 2)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Central/North Dredge Cell (Cells 2 & 3)	Estimated CY (modified to an in-place compacted volume)			17,478	286,028
Ash Stacking South Dredge Cell (Cell 1)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Lateral Exp (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 in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			-6,818	45,210

Ash Excavation from North Embayment - Weekly
as of March 6th



Ash Stacking in Dredge Cell - Weekly
as of March 6th

