

KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

June 1-6, 2010

Aerial Image of Kingston Ash Slide (03/19/2010)



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Date of map imagery: 03/19/2010

Tennessee Valley Authority
Geographic Information & Engineering

Prepared by:
Mary McDermott

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HIGHLIGHTS

- Cumulatively, just over 3,428,100 cubic yards of ash have been removed from the river and east of Dike 2.
- To date, 252 unit trains have been loaded and approximately 2,407,700 tons of ash has been transported to Uniontown, Alabama.

SAFETY

Program Summary

- 3 site specific HSE orientations were conducted for the week – 1,563 to date.
- 3 Safety Observation Reports submitted for the week: 1,158 to date; 1,112 have been closed.

Incidents:

- No incidents or injuries. Last recordable injury was an insect bite to a SWS employee on May 13, 2010.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Ash generated from time-critical activities was removed from the west storage area to the trains.
- Approval was received from EPA and TDEC to use the relic area and the test embankment as sources of material for the trains under careful operation to be in compliance with the Storm Water Pollution Plan and the Dust Management Plan.
- Mayes Construction continued installation of the offsite utilities with 76% complete.

ASH DREDGING & PROCESSING

- A total of 22,083 cubic yards of ash were removed from the river this week by Severson. Dredging resumed east of Dike 2 after the holiday with two dredges.
- Demobilization of the pipeline continues with Civil Projects beginning to cut up the pipeline. Barges were unloaded and are being cleaned.
- Demobilization of the filter press area resumed.
- Work continued dipping from the rim ditch and sluice trench and dredging from the ash pond. Lime treatment at the sluice trench continued this week using Mt. Carmel. Treated ash was hauled directly to the trains for disposal.
- Final concurrence forms are still being drafted and approved by EPA with concurrence from TDEC.
- Efforts continued in the ballfield to move ash to the tracks and to dry the windrows. Much of the ballfield has been emptied.

ASH DISPOSITION

- Loaded 6 unit trains and transported 7 unit trains this week.
- Continued inspection, maintenance, and repair of the rail in the rail yard. The repair work includes replacing ties, checking and re-gauging rail, and continuing to identify additional ties for replacement.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.
- Completing installation of a new drainage system for the south end of the ball field at the convergence of Ash Tracks 1 and 3.

CENOSPHERE RECOVERY

- The EPA and the TDEC requested that the “No Wake” zone be reduced to Emory River Mile (ERM) Marker 1.7 to ERM 2.9. This reduced the “No Wake” zone by about half mile. The zone is enforceable by TVA Police and the USCG.
- River crews worked in the Tennessee River to address four known problem areas.
- Onsite crews worked on removing cenospheres from intake channel and the ponds. There has been a slight increase in the amount of visible cenospheres on the Stilling Pond.

- Other onsite ponds and discharge ponds remain in good shape.

SKIMMER WALL

- Aquarius Marine LLC, Skimmer Wall debris removal contractor, completed rigging the second of three caissons and will lift and decon the caisson on Monday, June 7th.

DIKE REINFORCEMENT

- Dike C Buttress work continued. Construction on Segment D was completed. Work on Segment C was begun.
- Buttress construction is about 36% complete.
- Continued to review Segment A & B drawings.
- Continued to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water samples were collected at 10 fixed locations on the Emory, Clinch, and Tennessee Rivers on Tuesday, June 1st, and Friday, June 4th.
- Surface water analytical results are compared to the Tennessee Drinking Water Standards (TDWS) and the Ambient Water Quality Criteria for Fish and Aquatic Life (F&AL) to establish a reference point for evaluating the potential significance of the data.
- Noteworthy results are reported below for Fixed River Location samples collected between 03/01/2010 and 04/23/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, the arsenic was detected in 2 of 18 samples at concentrations well below the TDWS and F&AL. Selenium was not detected in any samples. Thallium was not detected in any Tennessee River sample in February or March.
 - On the Clinch River, arsenic was detected in 62 of 66 samples at concentrations well below the TDWS and F&AL. Thallium was detected in 3 of 66 samples at concentrations above the Tennessee Water Quality Criteria (TWQC). Selenium was not detected in any sample.
 - On the Emory River, arsenic was detected in 54 of 84 samples with all concentrations less than the TDWS and the F&AL. Lead was detected in 52 of 85 samples with one result exceeding the TDWS. Selenium was detected in five samples at concentrations less than the TDWS and F&AL. Thallium was detected in 10 of 85 samples, with all results exceeding the TWQC.
- Dredge plume monitoring resumed with the re-start of dredging in the mouth of Swan Pond Embayment.
- Plumes in the vicinity of dredging operations contain large amounts of suspended ash that settle out quickly and are not representative of overall water quality in the Emory River. Comparing Plume results to those from Fixed Station Locations provides an indication of the effectiveness of silt curtains and other Best Management Practices (BMPs) employed by the project
- Swan Pond Embayment surface water sampling continued routinely twice per week at two locations along the Swan Pond Embayment drainage ditches.

Sediment Sampling

- Four sediment sampling transects were completed in the Emory, Clinch, and Tennessee Rivers. Samples were collected using a box core sampler for visual observation of the presence of ash deposition. The results are being compiled in a summary report.

Air Sampling

- The majority of air monitoring results, including fixed-station and real-time monitoring results are below ambient air quality criteria. Where instantaneous PM10 measurements above 150 micrograms per cubic meter (ug/m^3) were recorded, they were associated with wood fires or around railroad and utility work.
- TVA currently operates six real-time PM2.5 instruments: a tapered element oscillating microbalance (TEOM) PM2.5 instrument at Lakeshore Drive (PS07); and PM2.5 Beta Attenuation Monitors (BAM) at the northern-most reach of proposed work in the North Embayment (PS13); PS05; PS07; PS08 and PS09. When the revised Air Monitoring Plan is approved, the TEOM will be converted to PM10 and relocated to PS09. PM2.5 average measurements at all stations for the past week were below the action level of $26 \text{ ug}/\text{m}^3$ averaged over a 24-hour period.

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

- Monitoring of activity at bird boxes continues, including sampling eggs and hatchlings. A number of hatchlings were shipped to a laboratory for analysis.
- Turtle trapping and sampling will be continuing over the next several weeks.

Non-Routine Sampling

- None to report.

FINAL REMEDIATION

- Submitted the draft Non-Time-Critical Removal Work Plan (RAWP) to EPA and TDEC on June 3, 2010.
- EPA approved the Sampling and Analysis Plan (SAP) for the River System on June 1, 2010.
- Received comments on the Draft Leaching Test Plan from EPA.

DREDGE CELL

- Stantec presented conceptual design of dredge cell perimeter containment to EPA and TDEC on Friday, June 4th.
- TVA Civil Projects continued re-contouring the Central Dredge Cell Subgrade with approximately 35% complete.

EMBAYMENT ASH PROCESS

- Ash consolidation continued in the north embayment by TVA Civil Projects.
- Diversion road and haul road construction continued by TVA Civil Projects.
- Swan Pond Circle Road Underpass Bridge Construction bid packages were evaluated. Award is planned for next week.

COMMUNICATIONS

Communications

- Posted to Website: Weekly Report, Weekly Area Resident Update, and no-wake zone change update.
- Continued to work on addendum to the Community Involvement Plan with information about the Engineering Evaluation/Cost Analysis.
- Sent weekly update to members of the public who have signed up to receive it.
- Continued to handle calls from the news media.
- Picked up and delivered Dredge Report to site and KIF employees.
- Worked on Kingston Ash Recovery Project update column for Roane County News.
- Completed and issued Availability Session ad for local newspapers.

Outreach

- Provided updates on site activities to the Community Advisory Group.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Updated message boards along Swan Pond Road announcing Availability Session.
- Worked on Kingston Ash Recovery Project Site update column for Roane County News.
- Updated site bulletin boards with safety and site information.
- Worked with Stantec to develop 3-D driving models for the CAG.

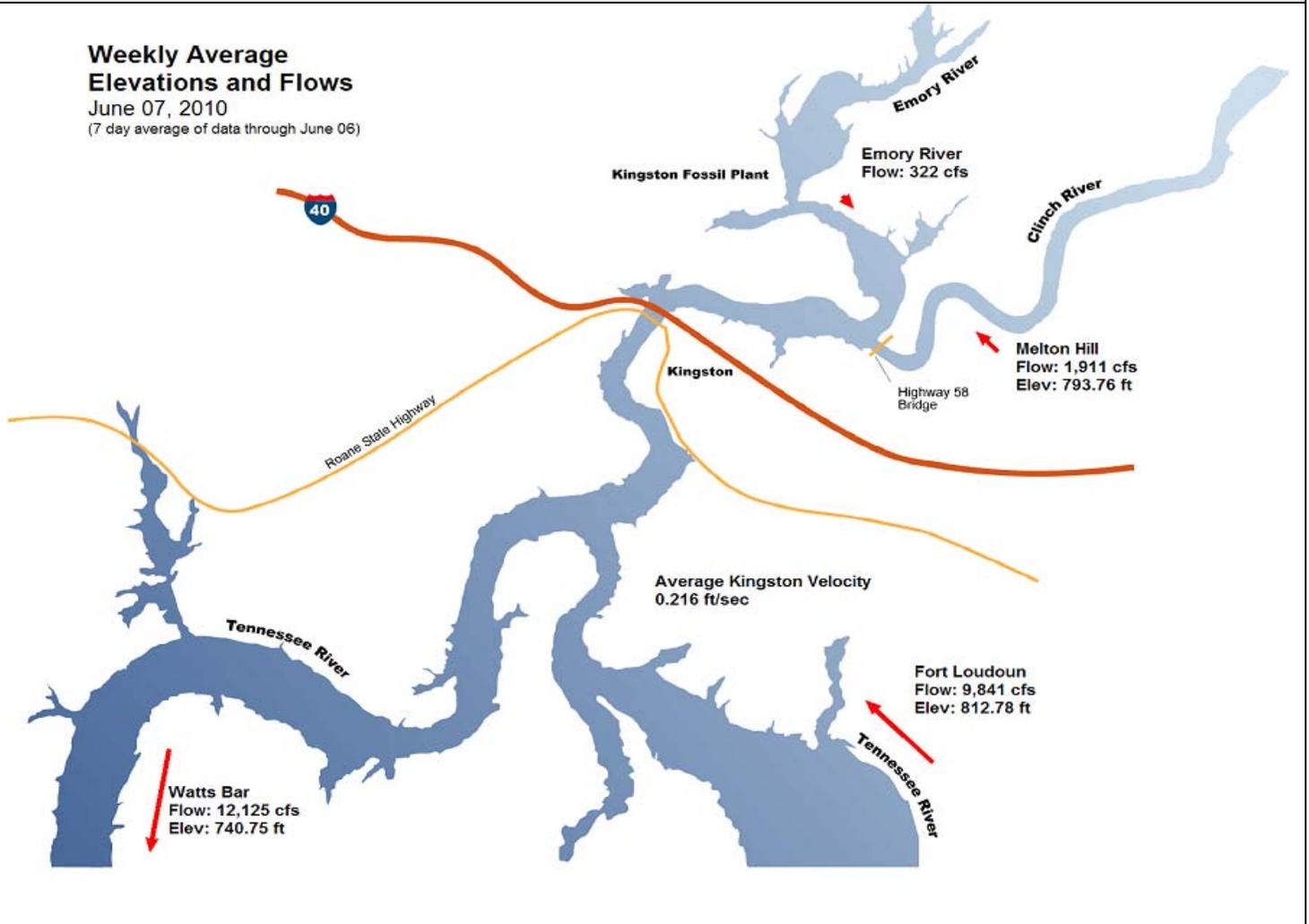
Other

- Held opening of the Emory River event for site employees, local elected officials and other invited guests.

RIVER OPERATIONS

Weekly Average Elevations and Flows

June 07, 2010
(7 day average of data through June 06)



MEETINGS/CONFERENCE CALLS

Date	Time	Subject
06/07	0800	Environmental Group Meeting (ICP Conference Room)
06/07	1000	Aquatic Resources Studies (Team Room)
06/07	1000	Programs & Activities (Trailer 1 Meeting Room)
06/07	1100	North Dredge Cell (Dike C) Perimeter Containment Kick Off Meeting (ICP Conference Room)
06/07	1200	MACTEC Safety Meeting (Trailer 1 Meeting Room)
06/07	1300	Environmental Staff Meeting (Team Room)
06/07	1400	Schedule Updates (Old ICP Conference Room)
06/07	1400	Review of PMP (Team Room)
06/08	0930	BCP Meeting (ICP Conference Room)
06/08	0930	Communications (Team Room)
06/08	1000	TVA Communications (Team Room)
06/08	1100	Dredge Cell Embayment Design/Construction (ICP Conference Room)
06/08	1100	Plant Ash (Team Room)
06/08	1230	Budget Cut Items (Team Room)
06/08	1300	Rules & Procedures (Team Room)
06/08	1330	Dredge Team Meeting (ICP Conference Room)
06/08	1400	Rebaseline First Draft Estimate Review (Old ICP Conference Room)
06/08	1440	Dike C Meeting (ICP Conference Room)
06/09	0900	Non-Time-Critical Weekly Meeting (ICP Conference Room)
06/09	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
06/09	1330	Test America Weekly Call (Conference Call)
06/09	1430	Data Management Meeting (ICP Conference Room)
06/09	1500	Continuation of Dredge Progress (Old ICP Conference Room)
06/10	1000	Quality Meeting (ICP Conference Room)
06/10	1000	Pace Telephone (Conference Call)
06/10	1000	Progress Meeting for Utilities (Team Room)
06/10	1130	HSE Staff Meeting (ICP Conference Room)
06/10	1300	Environmental Alignment (ICP Conference Room)
06/10	1300	Accident Investigations (Team Room)
06/10	1400	SOP Meeting (Team Room)
06/10	1430	Dr. Nickell Meeting (Old ICP Conference Room)
06/11	0900	Jacobs Senior Manager Meeting (Team Room)
06/04	1400	Rebaseline First Draft Estimate Review (Old ICP Conference Room)
Daily	0730	TVA Monitoring Wells Meeting (Trailer 1 Meeting Room)
Daily	0730	Site Safety Orientation (Old ICP Conference Room)
Daily	1500	Continuation of Dredge Progress & Contingency Plan (ICP Conference Room)
Mon-Thur	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date: June 1-6, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				0	48
First Aid Incidents				0	34
Recordable Incidents				0	11
Recordable Lost Time Incidents				0	12
Cenosphere/Debris Removal				Weekly Total	Cumulative Total
Outreach		Light Debris Removal – Land (bags)		0	18,867
Divisions A, B,C,D Cleanup		Division Shoreline Cleanup (bags)		426	105,912
Total		Tons of Light Debris		0	959.57
Cenosphere Slurry		Gallons		48,000	14,010,000
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	236,895	
TVA	Air – Fixed	2,258	--	3,281	
TVA	Surface/Utility Water	3,879	33,919	163,912	
TVA	Ground Water (spring and well)	93	1,073	4,287	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	263	444	3,297	
TVA	Biota	1,049	2,469	27,117	
*Week ending June 4, 2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (including mechanical dredging)			22,083	2,669,319
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			0	758,849
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			193,300	2,407,700

NOTE: Total dredged from the river has been adjusted to include ongoing survey adjustments and all of Severson (current dredging contractor), TransAsh (prior dredging contractor), mechanical dredged from Severson and Aquarius, and TVA reported hydraulic and mechanical dredging to date.

Ash Loading to Trains - Weekly as of June 7th

