

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

March 8 - 14, 2010

Aerial Image of Kingston Ash Slide (01/11/2010)



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Date of map imagery: 01/11/2010

Tennessee Valley Authority
E&T - Environmental Resources
Geographic Information & Engineering

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

MARCH 8 - 14, 2010

HIGHLIGHTS

- Cumulatively, just over 2,807,400 cubic yards of ash have been removed from the river and east of Dike 2.
- To date, 176 unit trains, with a total of approximately 1,634,700 tons, have been loaded and transported to Alabama.
- No incidents occurred this week.
- Queen City Railroad completed installation of Track 3 and Norfolk Southern accepted it on March 11, 2010.
- At the request of the EPA, the Bureau of Reclamation has provided an individual to be onsite to review construction activities on the dike.
- TVA's Ash Recovery Project General Manager presented EE/CA information to Kingston Lions Club, Harriman Rotary, and Bearden Rotary.
- Conducted March 9th Availability Session at Kingston Outreach Center from 5:30-7 p.m.

SAFETY

Program Summary

- 31 site specific HSE orientations conducted for the week – 1352 to date.
- 28 Safety Observation Reports submitted for the week – 730 to date; 586 have been closed.

Recordable Incidents

- No recordable incidents occurred this week.

Non-Recordable Incidents

- No non-recordable incidents occurred this week.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Lime treatment in the east embayment continued on day and night shifts. Roughly 27,175 cy of ash were treated and moved from the area to storage.
- Another 3,650 cy of ash east of Dike 2 was removed to storage or to the trains.
- Queen City Railroad completed installation of Track 3 and Norfolk Southern accepted it on March 11, 2010.
- The offsite utilities contractor continued installation of water and gas lines.

ASH DREDGING & PROCESSING

- A total of 39,625 cy of ash were removed from the river this week using an assortment of 4 dredges.
- The fifth dredge was completed and installation of the E-Trac system completed. The new dredge was deployed to the river and the McKenzie removed for installation of the E-Trac system.
- The removal of Weir 1 began Friday of this week and continued through the weekend. The rock was taken to the ballfield.
- Work continued on dipping from the sluice trenches. Some material was processed through the filter presses although mechanical problems with the feed dredge, lightening, and a safety stand down reduced production significantly this week. A compliance/safety walkthrough of the filter press area was conducted on March 12 by TVA, Jacobs, and Coast Guard personnel.
- Construction of a platform into the lateral expansion area began this week. The platform will be used to dip ash from the area freeing room up to allow future dredging discharges.
- An amphibious trackhoe continued dipping directly from the ash pond.
- Lime treatment of sluice trench material and filter press cake continued the first part of this week but was stopped on Friday.
- Work continued on completing cutting and grading roads in the ballfield to elevations allowing drainage and on cutting drainage ditches next to the roads.

ASH DISPOSITION

- Loaded and transported 5 unit trains this week.
- Have loaded and transported 176 unit trains for a total of approximately 1,634,700 tons.
- Heavy rains in Alabama shut down the unloading operations for one day during the week.
- Continued inspection, maintenance, and repair of the rail in the rail yard.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.

CENOSPHERE RECOVERY

- Boat crews worked three outreach calls along the Tennessee River.
- One boat crew manned the southern boom in the Emory River.
- The rivers are in good shape with limited debris and cenospheres.
- Large amounts of cenospheres continued to collect in the Ash Pond as a result of dredging activities.
- Crews worked to keep the weir areas clean.

SKIMMER WALL

- Contract awarded to Aquarius Marine to remove skimmer wall debris from intake channel.

DIKE REINFORCEMENT

- Dike C Buttress work continued. Approximately 1,040 feet of buttress have been completed.
- No safety incidents this week. Crews remain involved and proactive with the safety program. Still working to improve the project SOR participation. Refocused the JSA process to ensure separate contractors review the same JSA for a specific work area.
- At the request of the EPA, the Bureau of Reclamation has provided an individual to be onsite to review construction activities.
- Continued to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water monitoring at the ten fixed river locations occurred on Monday, March 8th. On Friday, March 12th, afternoon severe weather in the area resulted in a safety hold on outside work. As a result, the following locations were not sampled: ERM 12.2, ERM 4.0, CRM 4.0, and CRM 5.5.
- 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. Although the most impacted section of the Emory River has been closed to public use, the Emory, Clinch, and Tennessee Rivers are classified for use for Recreation and as a source for Domestic Water Supplies. However, closure of the most impacted reach of the Emory River during the ash recovery operation must be considered in these comparisons.
- Noteworthy results are reported below for Fixed River Location samples collected between 01/04/2010 and 02/12/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, the detectable arsenic concentrations were well below the TDWS. Selenium was not detected in any samples.
 - On the Clinch River, arsenic was detected in all samples at concentrations well below the TDWS and F&AL. Selenium was not detected in any samples.
 - On the Emory River, detected concentrations of arsenic and selenium were less than the TDWS and F&AL.
- Daily monitoring of dredge plumes continued. TVA and EPA continued the compilation of turbidity measurement data from the mouth of the Emory River to ERM 4.0. The data are being compiled and plotted on Mondays and Wednesdays to determine that turbidity curtain placement is effective to prevent any adverse trends as the dredging operation continues.
- 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 continues routinely twice per week at two locations along the Swan Pond Embayment drainage ditches. Sampling occurred on Tuesday March 9 and Thursday March 11. An additional set of embayment samples was collected on Friday, March 12th, due to local rainfall > 0.5".

Sediment Sampling

- A vibecore crew completed core sampling in the KIF Intake channel to collect samples for cesium-137 characterization. Twenty-one locations were sampled. Data are being compiled as results are received from the laboratory.

Air Sampling

- The majority of air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria.
- TVA's real-time tapered element oscillating microbalance (TEOM) PM2.5 instrument is operating at the Lakeshore Drive (PS07) air monitoring location. Overall, PM2.5 measurements for the past week were well below the action level of 26 micrograms per cubic meter.
- Additional real-time instruments have been ordered.
- EPA is planning to collect co-located samples at two of the TVA air monitoring stations. Logistics are under review by site EPA staff.

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

- No activity to report.

Non-Routine Sampling

- Sampling continued for characterization of used oil drums and drums containing absorbent pads to support disposition of these items.

FINAL REMEDIATION

- Prepared draft Removal Action Work Plan for internal review. Held interactive planning session with TVA, Stantec, and Jacobs to assist in planning and scheduling of non-time-critical actions.
- Awaiting comments on draft Action Memorandum.

DREDGE CELL

- Just over 3,000 cy of ash were taken to the test embankment. The east side of the test is complete. The west side cannot be completed until it is buttressed. Site preparation for the buttress was completed.

COMMUNICATIONS

Communications

- Posted to website: Toxicity Testing Information; EPA Final Time Critical Dredging Guidelines; Weekly Report and Weekly Area Resident Update information.
- Completed Dredge Report for site and plant employees.
- Submitted Community Involvement Plan (CIP) for internal approval.
- CIP Responsiveness Summary was finalized and will be posted next week.
- Sent weekly update to members of the public who have signed up to receive it.
- Continued to handle calls from the news media.

Outreach

- Mailed EE/CA Fact Sheet to Roane County residents with information on how to comment on the different alternatives.
- Project Manager presented EE/CA information to Kingston Lions Club, Harriman Rotary, and Bearden Rotary.
- Conducted March 9th Availability Session at Kingston Outreach Center from 5:30-7 p.m.
- Provided various updates on utility installation and site activities to the Community Advisory Group.
- Updated Administrative Record with work plans.
- Continued to handle calls and visits from residents.
- Continued to gather comments on various administrative record documents.

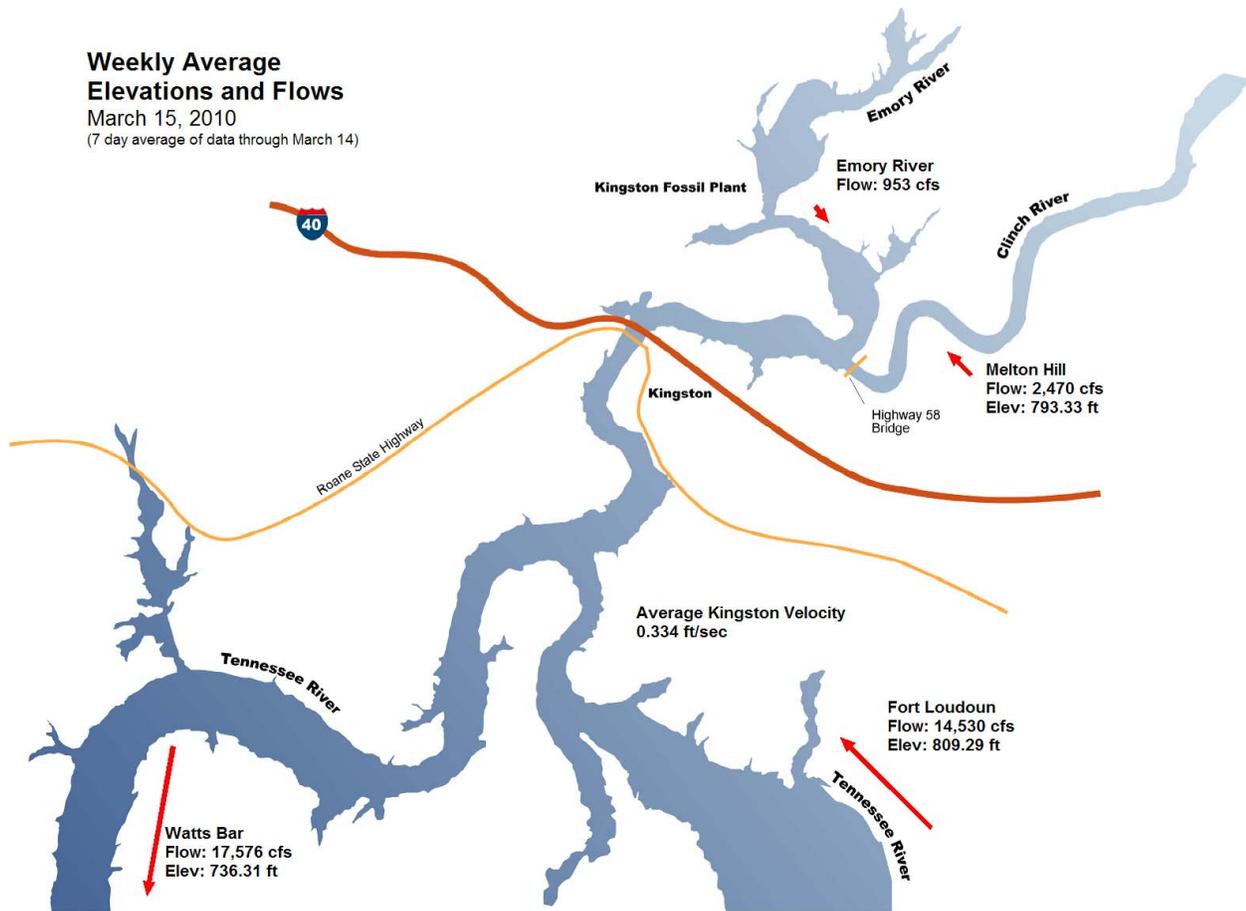
Government/Valley Relations

- Sent site update to public officials

RIVER OPERATIONS

Weekly Average Elevations and Flows

March 15, 2010
(7 day average of data through March 14)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
03/15	0730	Environmental Meeting (ICP Conference Room)
03/15	0900	Dike C Buttress Intake Channel (ICP Conference Room)
03/15	1000	Aquatic Resources Studies (Team Room)
03/15	1000	Programs and Activities Committee (Jacobs Meeting Room)
03/15	1100	Seismic Analysis (ICP Conference Room)
03/15	1200	MACTEC Safety Meeting (Jacobs Meeting Room)
03/15	1300	Environmental Staff Meeting (ICP Conference Room)
03/15	1400	Schedule Updates (ICP Conference Room)
03/16	0800	Dredge Cell Test Embankment (ICP Conference Room)
03/16	0930	BCP Meeting (ICP Conference Room)
03/16	0930	Communications (Team Room)
03/16	1000	TVA Communications (Team Room)
03/16	1030	Project Review Weekly Meeting (ICP Conference Room)
03/16	1330	Dredge Team Meeting (ICP Conference Room)
03/16	1400	Environmental Meeting (Team Room)
03/17	0800	Time Critical Weekly Meeting (ICP Conference Room)
03/17	0900	Data Management Meeting (ICP Conference Room)
03/17	0930	Project Management Alignment Meeting (Old ICP Conference Room)
03/17	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
03/17	1330	Test America Weekly Call (Conference Call)
03/18	0730	Environmental Meeting (ICP Conference Room)
03/18	0900	Work Control Process Alignment Meeting (ICP Conference Room)
03/18	0900	LTD Project Controls (Team Room)
03/18	1130	HSE Staff Meeting (Old ICP Conference Room)
03/18	1300	Jacobs OPR (ICP Conference Room)
03/18	1500	Plant Startup (ICP Conference Room)
03/18	1400	SOP Meeting (Old Team Room)
03/19	0900	Jacobs Senior Managers Meeting (ICP Conference Room)
03/19	1100	Exit Discussion with JMJ (ICP Conference Room)
03/19	1300	Q2 Kingston (Team Room)
Daily	0730	Site Safety Orientation (Old Team Room)
Daily	0900	MACTEC Daily Reconciliation (Jacobs Meeting Room)
Daily	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date: March 8 - 14, 2010		Field Report	
Safety*				Weekly Total	Cumulative Total
Near Misses				0	38
First Aid Incidents				0	29
Recordable Incidents				0	9
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)		1,242	97,943
Total		Tons of Light Debris		0	959.57
Cenosphere Slurry		Gallons		168,000	12,468,000
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	181,776	
TVA	Air – Fixed	1,778	--	2,458	
TVA	Surface/Utility Water	3,250	27,478	135,895	
TVA	Ground Water (spring and well)	78	879	3,377	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	162	320	2,910	
TVA	Biota	721	1,688	18,037	
*Week ending 03/12/2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards thru March 14, 2010 (see Note)			39,625	2,176,156
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			30,825	631,254
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			28,970	1,634,700

NOTE: Total dredged from the river has been adjusted to include ongoing survey adjustments and all of TransAsh and TVA reported hydraulic and mechanical dredging to date.

Ash Loading to Trains - Weekly as of March 14th

