

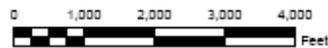
KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

March 22-28, 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 22-28, 2010

HIGHLIGHTS

- Cumulatively, just over 2,932,300 cubic yards of ash have been removed from the river and east of Dike 2.
- To date, 187 unit trains, with a total of approximately 1,749,550 tons, have been loaded and transported to Alabama.
- A crane accident occurred on March 25th. A Severson subcontractor employee in the crane cab was struck by a clamshell scoop on the crane. The worker was transported to the hospital and has recently been released. An investigation is in progress.
- The Community Involvement Plan Responsiveness Summary was approved and posted to the website.
- Boat crews completed work at the Bowman's Bend location along the Tennessee River.
- As requested by the landowners at the John Knox Campground, road base and gravel was placed along approximately 0.2 miles of the dirt access road at the campground.

SAFETY

Program Summary

- 17 site specific HSE orientations were conducted for the week – 1,395 to date.
- 22 Safety Observation Reports submitted for the week: 773 to date; 661 of which have been closed.

Recordable Incidents

- March 25th – The cab on a crane containing a Severson subcontractor employee was struck by a clamshell scoop on a crane. The worker was transported to the hospital and has recently been released. An investigation is in progress.

First Aid – None.

Other

- A Civil Project Artic water truck struck a parked dozer blade with the left front of the vehicle which caused the drain plug on the hydraulic pan to leak resulting in approximately 10 gallons of hydraulic fluid spilled on the ground. The hydraulic fluid was contained and cleanup was completed.
- Two locomotives derailed Monday evening, March 22nd, on TVA property. No injuries occurred. The locomotives were re-railed in less than four hours.

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 21,580 cy of ash were treated and moved from the area to storage.
- Offsite utilities contractor, Mayes Construction, continued construction of the 10" Kingston Utility Board water line and Harriman Utility board 6" water line and gas line. Boring work under I-40 was completed.
- The design specifications and RFP for Swan Pond Circle Road underpass pre-stressed girders were issued.
- Bids for Swan Pond Circle Road underpass foundation design were received on Friday, March 26th, with evaluations planned to be completed next week.

ASH DREDGING & PROCESSING

- A total of 18,933 cy of ash were removed from the river this week using an assortment of five dredges. All dredges are operational. The dredging was stopped on Thursday due to an accident.
- The removal of Weir 1 continued the first part of the week. The rock was taken to the ballfield and a small amount to the lateral expansion area before work was stopped.
- Work continued dipping from the trenches and using the filter presses.
- Lime treatment of sluice trench material occurred on Monday and Tuesday.
- Numerous work packages were generated to restart work after the stand down.

ASH DISPOSITION

- Loaded 5 and transported 6 unit trains this week.
- Have loaded and transported 187 unit trains for a total of approximately 1,749,550 tons.
- Heavy rains in Kingston and Uniontown shut down the loading and unloading operations 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 completed work at the Bowman's Bend location along the Tennessee River. This was a large debris removal worked from the shoreline.
- One boat crew manned the southern boom in the Emory River.
- The access road improvements were completed at the John Knox Campground. The improvements were requested by the landowners and involved placing road base and gravel along approximately 0.2 miles of a dirt access road.
- The rivers appear to be in good shape with limited debris and cenospheres. It appears that more debris is coming down the Clinch River than in recent months.
- 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.
- The crews were down on Thursday as part of the site wide stand down and due to poor weather, it was decided not to send the crews back to work. Work resumed on Friday as normal.

SKIMMER WALL

- Aquarius Marine, the Skimmer Wall debris removal contractor, continued moving equipment to the site and will arrive on March 30th.

DIKE REINFORCEMENT

- Dike C Buttress work continued. Approximately 1,200 feet of buttress have been completed. Work has focused on construction of an access road along the bench and removal of the #57 stone from the original haul road built along the toe.
- CP continued using an amphibious excavator to relocate ash to an area where the dredges can more easily remove the material.
- 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 22nd, and Friday, March 26th.
- 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 02/01/2010 and 03/12/2010. 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, all detected concentration of arsenic was less than the TDWS and the F&AL. Selenium was not detected in any sample.
- Dredging was discontinued on Thursday, March 25th, due to a Safety investigation. Dredging and daily monitoring of dredge plumes have not been re-established as of March 29th. 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 23 and Thursday, March 25th.

Sediment Sampling

- Additional vibecore sampling for cesium characterization in the KIF intake channel is planned.
- Shoreline inspections and sediment sampling to facilitate/guide dredging activities began March 22nd and are continuing this week
- Sediment samples from Brown's Cove were collected last week with TDEC.

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.
- TDEC performed their quarterly air sampling audit Friday, March 26th.
- EPA's quarterly air audit begins March 30th.

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

- Amphibian sampling is underway and has been completed for 1 of 5 locations.

Non-Routine Sampling

- Rainfall events triggered embayment sampling on Friday, March 26th, and Sunday, March 29th.
- The river auto sampler was activated on Sunday for a high flow event.
- EPA's contractor Tetra Tech will split routine fixed river samples on March 29th and will split samples from the March 29th sampling of the Embayment and the auto-sampler samples initiated on February 28th.

FINAL REMEDIATION

- Received comments from EPA/TDEC on Thursday, March 25th, on the draft Sampling and Analysis Plan for the river system. Beginning to draft responses. Also, making preparations for sampling of seasonally-exposed sediments and installation of wells/water level measurements so that these data can be collected before the water level in Watts Bar Reservoir is raised for the summer.
- Waiting for final comments on the Action Memorandum and Removal Action Work Plan for the Swan Pond Embayment and Dredge Cell so that those can be sent to EPA/TDEC on April 5th (end of public comment period on the Engineering Evaluation/Cost Analysis).

DREDGE CELL

- Ash treated in the east embayment and ash from the relic area was used to fill the test cells until the work stoppage and heavy rains occurred. Just under 2,000 cy was placed.

COMMUNICATIONS

Communications

- Posted to Web site: Weekly Report; Weekly Area Resident Update information; Community Involvement Plan Responsiveness Summary; and January 26th Public Meeting video.
- Prepared news release on crane accident on site and submitted it to local media outlets.
- Prepared crane accident updates for site employees.
- Worked on Dredge Report for site and plant employees.
- Ordered new bulletin boards for installation around the site.

- Sent weekly update to members of the public who have signed up to receive it.
- Continued to handle calls from the news media.

Outreach

- Provided various updates on the crane accident; road boring work on Swan Pond Circle; utility installation and site activities to the Community Advisory Group.
- Updated Administrative Record with work plans and the Community Involvement Plan Responsiveness Summary.
- Continued to respond to calls and visits from residents.
- Continued to gather comments on various administrative record documents.

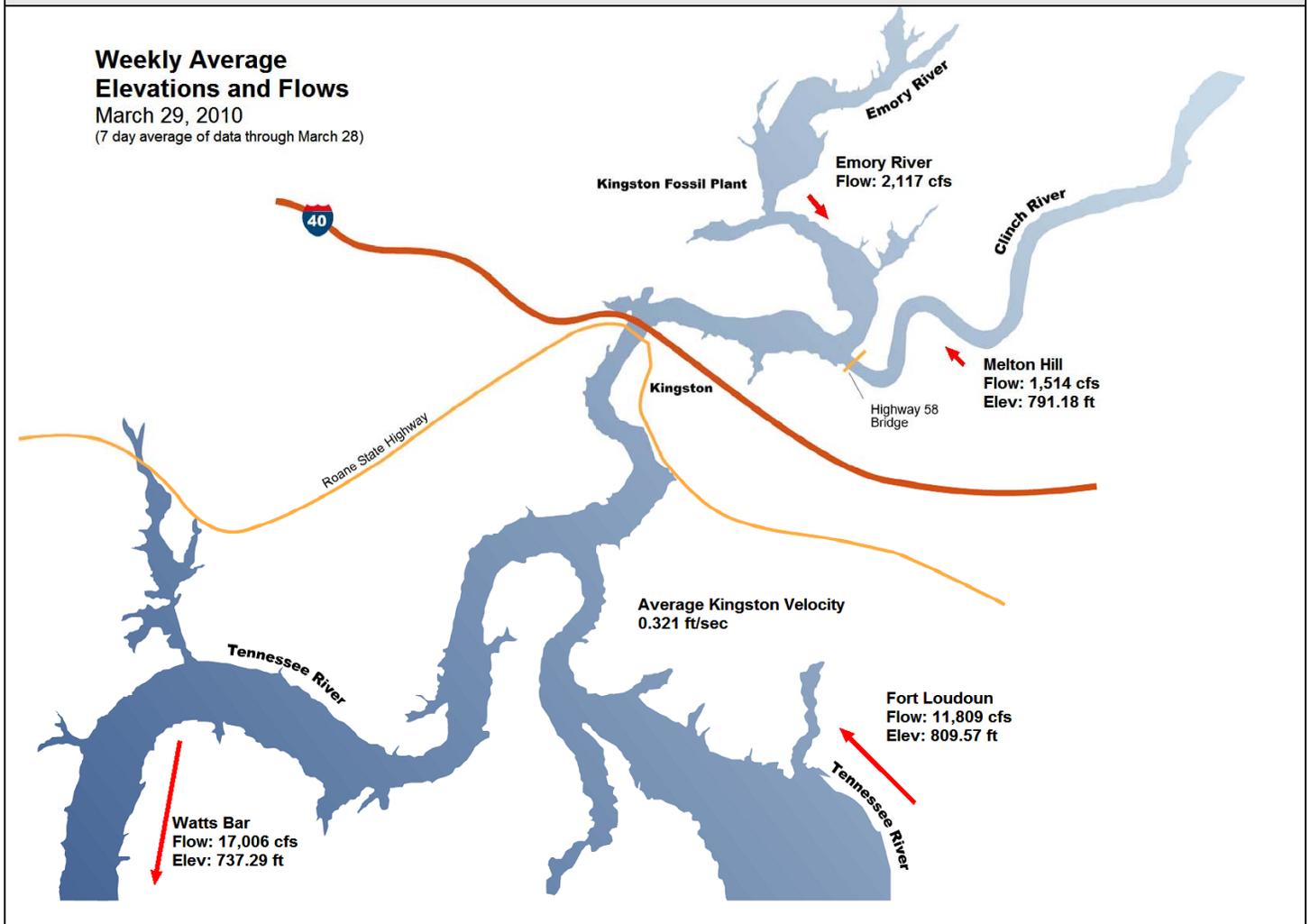
Government/Valley Relations

- Sent site update to public officials.

Other

- Held a meeting of the Health and Safety Programs and Activities Team.

RIVER OPERATIONS



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
03/29	0730	Environmental Meeting (ICP Conference Room)
03/29	0900	Dike C Buttress Intake Channel (ICP Conference Room)
03/29	1000	Aquatic Resources Studies (Team Room)
03/29	1200	MACTEC Safety Meeting (Trailer 1 Meeting Room)
03/29	1300	Environmental Staff Meeting (ICP Conference Room)
03/29	1300	Health & Safety (Old ICP Conference Room)
03/29	1400	Derailment Incident (Team Room)
03/29	1400	Schedule Updates (ICP Conference Room)
03/29	1500	Readiness Review Seasonally Exposed Sediments (ICP Conference Room)
03/29	1500	Aquarius Kickoff (Old ICP Conference Room)
03/30	0800	Dredge Cell Test Embankment (ICP Conference Room)
03/30	0800	JMJ (Trailer 1 Meeting Room)
03/30	0830	Air Audit Entrance (Team Room)
03/30	0930	BCP Meeting (ICP Conference Room)
03/30	0930	Communications (Team Room)
03/30	1000	TVA Communications (Team Room)
03/30	1030	JMJ Kickoff Meeting (ICP Conference Room)
03/30	1330	Dredge Team Meeting (ICP Conference Room)
03/31	0800	JMJ (Trailer 1 Meeting Room)
03/31	0800	Time Critical Weekly Meeting (ICP Conference Room)
03/31	0900	Data Management Meeting (ICP Conference Room)
03/31	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
03/31	1300	Project Status (ICP Conference Room)
03/31	1330	Test America Weekly Call (Conference Call)
03/31	1400	Update Railroad Replacement (ICP Conference Room)
04/01	0730	Environmental Meeting (ICP Conference Room)
04/01	0800	JMJ (Trailer 1 Meeting Room)
04/01	0900	LTD Project Controls (Team Room)
04/01	0900	Kingston Update Meeting (ICP Conference Room)
04/01	1000	Environmental Alignment Meeting (Team Room)
04/01	1000	Pace Telephone (Conference Call)
04/01	1130	HSE Staff Meeting (ICP Conference Room)
04/01	1400	SOP Meeting (Team Room)
04/01	1400	Air Audit Exit (ICP Conference Room)
04/01	0730	Geo Exploratory Meeting (Trailer 1 Meeting Room)
04/02	1030	Operations Lifesaver (Trailer 1 Meeting Room)
Daily	0730	Site Safety Orientation (Old ICP Conference Room)
Daily	0900	MACTEC Daily Reconciliation (Trailer 1 Meeting Room)
Daily	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date: March 22-28, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				0	41
First Aid Incidents				0	31
Recordable Incidents				0	9
Recordable Lost Time Incidents				1	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)		732	99,685
Total		Tons of Light Debris		0	959.57
Cenosphere Slurry		Gallons		210,000	12,888,000
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	189,211	
TVA	Air – Fixed	1,879	--	2,623	
TVA	Surface/Utility Water	3,423	29,431	143,278	
TVA	Ground Water (spring and well)	85	970	3,799	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	164	328	2,930	
TVA	Biota	853	1,878	21,477	
*Week ending 03/26/2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards thru March 28, 2010 (see Note)			18,933	2,247,671
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			22,900	684,629
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			36,650	1,749,550

NOTE: Total dredged from the river has been adjusted to include ongoing survey adjustments and all of TransAsh and TVA 684629 reported hydraulic and mechanical dredging to date.

Ash Loading to Trains - Weekly as of March 28th

