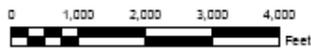


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT May 24 - 31, 2010

Aerial Image of Kingston Ash Slide (02/27/2010)



Date of map imagery: 02/27/2010

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Geographic Information & Engineering

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

May 24-31, 2010

HIGHLIGHTS

- Cumulatively, just over 3,393,765 cubic yards of ash have been removed from the river and east of Dike 2. Dredging in the Emory River is more than 90% complete.
- To date, 246 unit trains have been loaded and approximately 2,337,725 tons of ash has been transported to Uniontown, Alabama.
- The Emory River reopened at 7:00 am on Saturday, May 29, 2010.
- The site was shut down beginning Saturday, May 29th, thru Monday, May 31st, in observance of Memorial Day.

SAFETY

Program Summary

- 10 site specific HSE orientations were conducted for the week – 1,560 to date.
- 9 Safety Observation Reports submitted for the week: 1,155 to date; 1,109 have been closed.

Incidents:

- No incidents or injuries.

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.
- Mayes Construction continued installation of the offsite utilities with 71% complete.

ASH DREDGING & PROCESSING

- A total of 22,864 cy of ash were removed from the river this week by Severson. Dredging was stopped on Wednesday, end of night shift, to allow sufficient time to remove the equipment from the river in support of the reopening on May 29th. An evaluation of the data is being done to determine if additional minor dredging in the river is required after the holiday.
- Demobilization of the dredges has begun with the Shirley dredge removed from the Emory River and moved to the south end of the plant for dismantlement. Much of the pipeline was flushed and also moved to the south area with the help from river operations.
- 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. Completion of over 90% of the river has been documented and approved.
- 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 5 unit trains this week.
- Have loaded 246 and transported 245 unit trains for a total of approximately 2,337,725 tons.
- Continued inspection, maintenance, and repair of the rail in the rail yard. The repair work includes replacing ties, checking and re-gauging rail, and identifying additional ties for replacement.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.

CENOSPHERE RECOVERY

- Southern Waste Services (SWS) and TVA boat crews worked to prepare the Emory River to be opened on Saturday, May 29th. The following was done:
 - Deployed channel marker buoys, no wake buoys and no wake signs.
 - Removed river closure signs and previous river markers.

- Removed booms from the river system. The only boom remaining is small creek boom which prevents debris and cenospheres from migrating through culverts into small ponds and drainage areas.
- Installed two volleyball nets on two separate islands in the Emory River.
- TVA asked the boat crews to pull approximately 25,000 feet of dredge pipe out of the water. With the help of Civil Projects and the TVA Police, the dredge line was successfully removed from the Emory River and stored on the south side of the plant.
- On-site crews worked on removing cenospheres from the Dike C and Skimmer Wall area. Crews also worked on removing an increased level of cenospheres in the intake channel.
- Ash Pond conditions continued to improve. Crews continue to focus on keeping the weir areas clear.

SKIMMER WALL

- Aquarius Marine, LLC, Skimmer Wall debris removal contractor, secured one-inch cable around both ends of the second caisson and plans to lift from the Intake Channel on Wednesday of next week.

DIKE REINFORCEMENT

- Dike C Buttress work continued. Construction on Segment D should be completed early next week.
- A decision was made with the Bureau of Reclamation that construction on the buttress would not be halted until work was completed through station 137. About 150 feet of additional buttress needs to be constructed to reach this point. The two lowest FS (factor of safety) will be improved by reaching this point. However, other areas of the dike will remain below the 1.5 factor of safety.
- Buttress construction is about 34% complete.
- Continued to review Segment A and 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 Monday, May 24th, and Friday, May 28th. Late in the day on Friday, May 28th, local rainfall exceeded 1.0" due to heavy thunderstorms. The automated sampler at ERM 0.5 was activated to sample over a 24-hour period.
- 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.
- 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 continued routinely twice per week at two locations along the Swan Pond Embayment drainage ditches. A rainfall exceeding 0.5" on Friday and Saturday, May 28th and May 29th, triggered additional surface water sampling from the Embayment on Saturday, May 29th.

Sediment Sampling

- Vibecore sampling in support of dredging operations was completed.

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/m³) were recorded, they were associated with wood fires or around railroad and utility work.
- TVA currently operates two real-time PM2.5 instruments: a tapered element oscillating microbalance (TEOM) PM2.5 instrument at Lakeshore Drive (PS07); and a PM2.5 Beta Attenuation Monitor (BAM) at the northern-most reach of proposed work in the North Embayment (PS13). PM2.5 average measurements at both stations for the past week approached the action level of 26 ug/m³, however regional measurements were elevated as well. Rainfall over the weekend reduced PM2.5 concentrations.
- Additional BAM instruments have been installed and are equilibrating and collecting data.

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.
- Turtle trapping and sampling occurred last week and will be continuing over the next several weeks.

Non-Routine Sampling

- None to report.

FINAL REMEDIATION

- The final Sampling and Analysis Plan (SAP) for the River System was transmitted by TVA to EPA/TDEC on Thursday, May 27th.
- The draft Leaching Test Plan was transmitted by TVA to EPA/TDEC on Friday, May 28th.
- Purchase Request was completed for Geosyntec hydrogeological modeling support on Thursday, May 27th. Hydrogeologic modeling of fate and transport began with meeting between TVA, Geosyntec, and Jacobs modelers.

DREDGE CELL

- TVA, Jacobs, AECOM, TDEC, and EPA continued reviewing Stantec 90% Design Central Dredge Cell Working Platform package.
- Jacobs/TVA/AECOM provided comments on Stantec 60% Design Package for the Central Dredge Cell Ash Stacking. Stantec is evaluating the comments.
- TVA Civil Projects continued on the Recontouring Central Dredge Subgrade with approximately 30% complete.
- Deep Soil Mixing Pilot Project contractor, RECON Services, visited the site for finalizing mobilization plans and interfacing with site personnel.
- Ash recontouring of the bottom of the Dredge Cell continues. Stantec is reviewing a requested design change that would reduce the quantity of excavation required beneath the working platform.
- A meeting with Stantec was held on Wednesday, May 26th, to clarify schedule durations for future design efforts.

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 received on May 28th.

COMMUNICATIONS

Communications

- Posted to Website: Weekly Report and Weekly Area Resident Update, Action Memorandum, and Public Comment Period notice.
- 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.
- Finalized copy for next edition of the Dredge Report.
- Finalized Kingston Ash Recovery Project update column for Roane County News.
- Drafted ad for approved May work plans.
- Photographed Emory River reopening for TVA News Bureau.

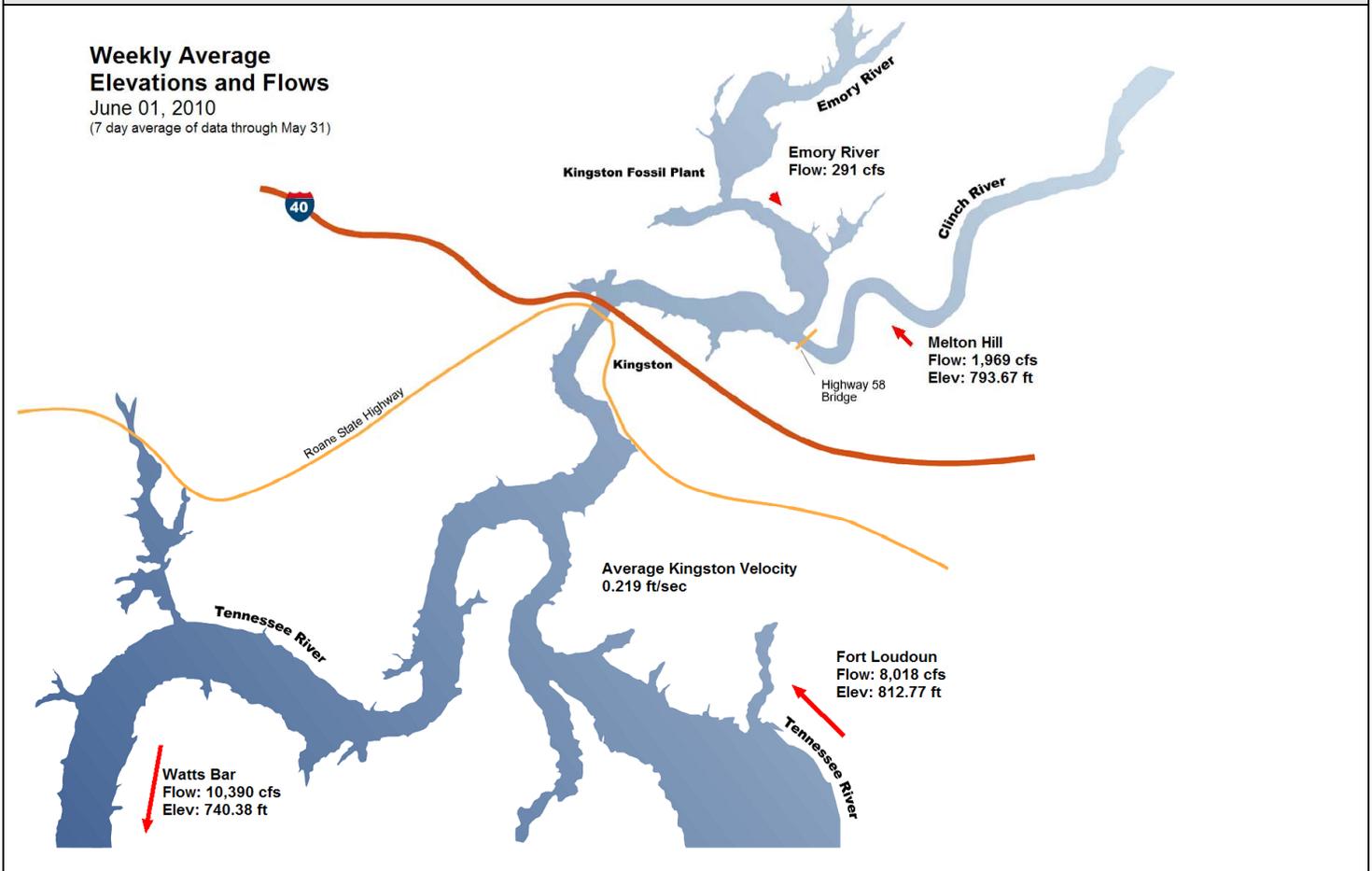
Outreach

- 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 public meeting.
- Worked on Kingston Ash Recovery Project Site update column for Roane County News.
- Updated site bulletin boards with safety and site information.

Other

- Worked on end of time critical celebration event for site employees and guests.

RIVER OPERATIONS



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
06/01	0800	Environmental Group Meeting (ICP Conference Room)
06/01	0800	Roane County Eco Development Foundation (Team Room)
06/01	1400	Schedule Updates (Old ICP Conference Room)
06/01	0930	BCP Meeting (ICP Conference Room)
06/01	0930	Communications (Team Room)
06/01	1000	TVA Communications (Team Room)
06/01	1300	Rules & Regulations Meeting (Team Room)
06/02	0900	Non-Time-Critical Weekly Meeting (ICP Conference Room)
06/02	0930	Bioavailability Study (Team Room)
06/02	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
06/02	1330	Test America Weekly Call (Conference Call)
06/02	1400	Non-Time-Critical Estimate vs. Forecast Comparison (Trailer 1 Meeting Room)
06/02	1430	Data Management Meeting (ICP Conference Room)
06/03	1000	Pace Telephone (Conference Call)
06/03	1130	HSE Staff Meeting (ICP Conference Room)
06/03	1400	Discuss Restoration of Embayments (ICP Conference Room)
06/03	1400	SOP Meeting (Team Room)
06/04	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: May 24-31, 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)		345	105,486
Total		Tons of Light Debris		0	959.57
Cenosphere Slurry		Gallons		96,000	13,962,000
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	232,894	
TVA	Air – Fixed	2,208	--	3,148	
TVA	Surface/Utility Water	3,750	32,495	157,323	
TVA	Ground Water (spring and well)	89	1,021	4,043	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	258	422	3,176	
TVA	Biota	1,049	2,469	27,117	
*Week ending May 28, 2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (including mechanical dredging)			22,864	2,634,916
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			123,325	2,214,400

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 1st

