

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

July 12-18, 2010

Aerial Image of Kingston Ash Slide (05/19/2010)



Date of map imagery: 05/19/2010

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

July 12-18, 2010

HIGHLIGHTS

- To date, 291 unit trains have been loaded and approximately 2,806,400 tons of ash has been transported to Uniontown, Alabama.
- No incidents or injuries this week.

SAFETY

Program Summary

- Fourteen (14) site specific HSE orientations were conducted for the week – 1,630 to date. Forty (40) site specific HSE Orientation Refresher sessions were conducted – one hundred twenty (120) to date.
- No Safety Observation Reports were submitted for the week – 1,177 to date; 1,124 have been closed.
- Eighteen (18) WBGT (Wet Bulb Globe Thermometer) weather alerts were issued last week. These are issued to alert supervisors of the current heat level so they can evaluate their crews for physical effort, PPE requirements and acclimation to determine appropriate maximum stay times and associated work/rest regimens.
- The last recordable injury, a bee sting, occurred on July 9, 2010.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Mayes Construction continued installation of the offsite utilities with 86% complete.
- Continued recovering cenospheres from the onsite ponds. Responded to outreach calls as received.
- Continued to dry ash in the ballfield and move time-critical ash from the west storage areas to the trains.

ASH DREDGING & PROCESSING

- Dismantled most of the dredges. Sent some of the smaller boats offsite.
- Continued decontamination and demobilization activities on the filter presses and on heavy equipment.

ASH DISPOSITION

- Loaded and transported seven (7) unit trains this week.
- Have loaded and transported 291 unit trains for a total of approximately 2,806,400 tons.
- MACTEC commemorated the safe lining, loading, and closing of over 1 million tons of ash with a celebration for their employees and families.
- The rail in the yard is being monitored continuously for alignment issues considering the high temperatures we are experiencing.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama. The moisture content is such that some cuts of cars are being shipped without polymer.
- Continuing to work with the plant to minimize the impact of the delivery of coal trains, limestone cars, ammonia cars, and the loaded and empty ash trains.

SKIMMER WALL

- Aquarius Marine LLC, the Skimmer Wall Debris Removal contractor, is mechanically dredging the Intake channel skimmer area for ash and debris. The debris removal work is 60% complete.

DIKE REINFORCEMENT

- Construction on Segment C is suspended until November 2010.
- MACTEC completed the installation of six piezometer locations along Dike C as part of the AECOM's recommendations.
- Stantec Continues to work on finalizing design effort for the buttress.
- Jacobs continues 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, July 12 and Friday, July 16.
- 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 05/04/2010 and 06/04/2010. Comparisons to the F&AL are performed for dissolved concentrations only.

- On the Tennessee River, arsenic was detected in 12 of 13 samples and selenium (dissolved) was detected in one sample. Arsenic and selenium concentrations were both well below the TDWS and F&AL criteria. Thallium was not detected in any Tennessee River sample. Dissolved copper previously reported as detected in one sample exceeding the F&AL was determined to be a non-detect during data validation.
- On the Clinch River, arsenic was detected in 40 of 40 samples and selenium detected in 3 of 40 samples at concentrations well below the TDWS and F&AL. Total and dissolved thallium was detected in 1 of 40 samples and exceeded the TWQC (0.00024 mg/L).
- On the Emory River, arsenic was detected in 43 of 49 samples and selenium was detected in 10 of 49 samples. Two detected arsenic concentrations exceeded the TDWS. All detected selenium concentrations were less than the TDWS and F&AL. Thallium was detected in 4 of 49 samples and all detected concentrations exceeded the TWQC. Dissolved copper was detected in 28 of 49 samples with one concentration collected at ERM 12.2 reported as exceeding the F&AL rejected during validation. Lead was detected in 32 of 49 samples, with one sample from ERM 2.1 exceeding the TDWS.
- Swan Pond Embayment surface water sampling continued routinely twice per week at two locations along the Swan Pond Embayment drainage. Additional Embayment sampling occurred on July 12, triggered by local rainfall exceeding 0.5".
- Automated samplers are being located in the Emory and Clinch Rivers and in the Swan Pond Embayment in preparation for implementation of the Non-Time Critical Surface Water Monitoring Plan. Approval of that plan by EPA and TDEC is pending.

Sediment Sampling

- None to report.

Air Sampling

- Air monitoring results, including fixed-station and real-time monitoring results are below ambient air quality criteria.
- 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 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 ug/m3 averaged over a 24-hour period.
- EPA Region 4 is currently reviewing the revised Air Monitoring Plan. Approval is expected by the end of this week.
- Mobile real-time PM10 sampling continues in the surrounding community. All measurements were normal with the exception of measurements associated with residential burning.

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.
- Air data from the first quarter of 2010 was loaded into EPA's Air Quality System (AQS) database.

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.
- A number of fish filet samples were received from Oak Ridge National Laboratory (ORNL) and shipped to Pace Laboratories for analysis.

Non-Routine Sampling

- None to report.

FINAL REMEDIATION

- No additional updates this week.

DREDGE CELL

- Stantec, TVA, and Jacobs conducted review meetings (3) to resolve issues and develop a path forward on the dredge cell perimeter containment, ash stacking, working platform, and closure cap design elements.
- Continued ash re-contouring in the central dredge cell to build the subgrade for the working platform capillary break.

PLANT ASH DISPOSITION

- Civil Projects operated the rim ditch, sluice trench, and ash pond areas to remove plant-generated ash and process it for disposal.

EMBAYMENT ASH PROCESS

- Civil Projects continued the ash consolidation in the north embayment. It is just over 70% complete.
- Continued excavation of Swan Pond Circle Road underpass. The EarthTec erection representative began training Civil Projects personnel on how to construct foundation panels.
- The underpass design/fabrication/construction is 40% complete.

COMMUNICATIONS

Communications

- Posted to Website: Weekly Report and Weekly Area Resident Update.
- Sent weekly update to members of the public who have signed up to receive it.
- Continued to handle calls from the news media.
- Worked on new Dredge Report for site and plant employees.
- Worked with representatives from communications, environmental and creative services on website redesign and accessibility.
- Prepared communication plan on plant happenings.

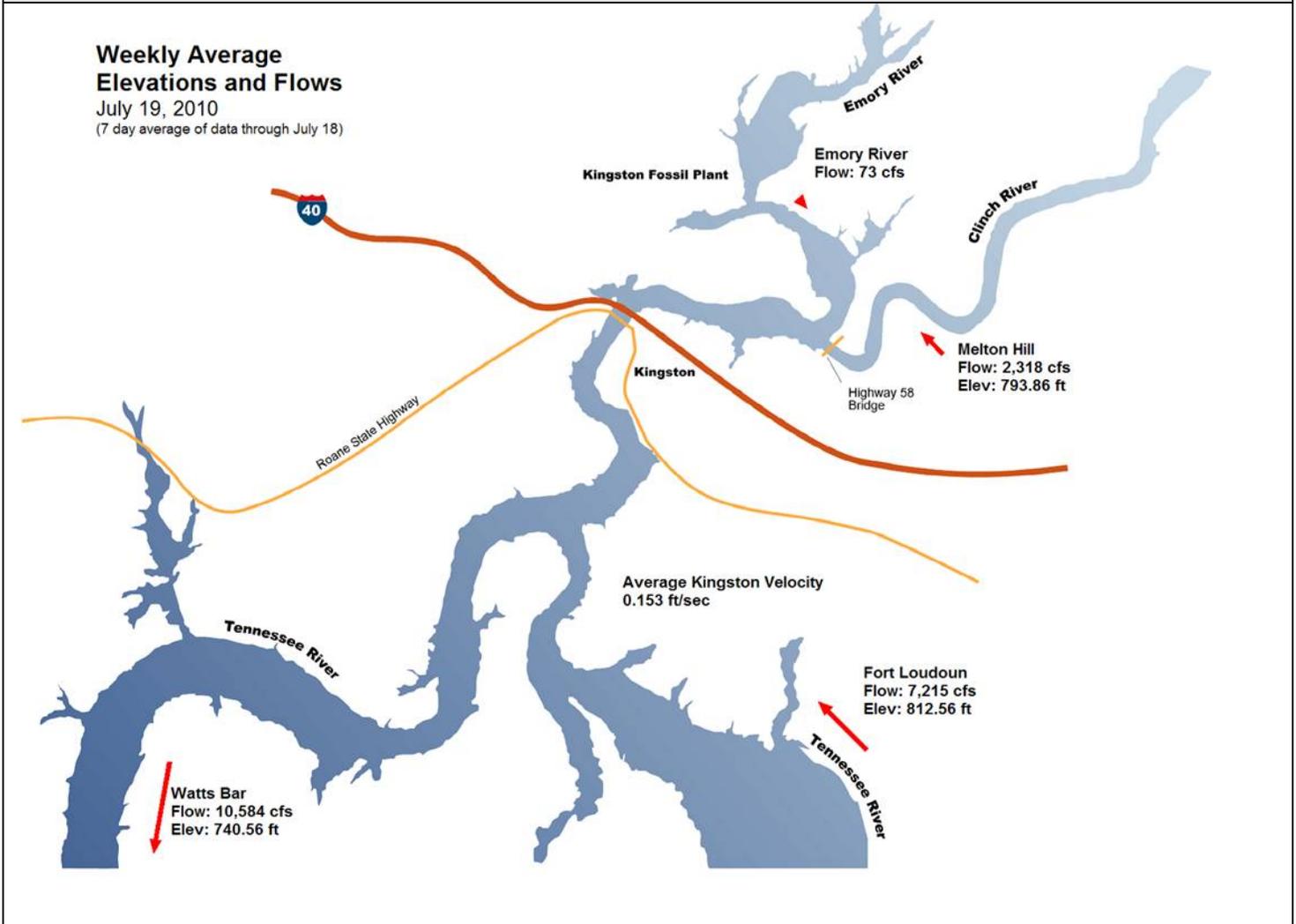
Outreach

- Provided updates to employees, customers, residents, and public officials about site activities.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Finalized details for speaking engagement to Leadership Oak Ridge on leadership in a crisis.
- Began working on August Public Meeting to be held at Roane County High School.
- Updated site bulletin boards with information regarding safety and site activities.
- Attended groundbreaking for new Harriman Elementary School.

RIVER OPERATIONS

Weekly Average Elevations and Flows

July 19, 2010
(7 day average of data through July 18)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
07/19	0800	Environmental Meeting (ICP Conference Room)
07/19	1000	Aquatic Resources Studies (Team Room)
07/19	1100	Jacobs Senior Managers Meeting (ICP Conference Room)
07/19	1300	Environmental Staff Meeting (Team Room)
07/19	1400	Schedule Updates (ICP Conference Room)
07/20	0900	Non-Time-Critical Weekly Meeting (ICP Conference Room)
07/20	0930	Communications (Team Room)
07/20	1000	TVA Weekly Communications Meeting (Team Room)
07/20	1000	MACTEC/Phillips & Jordan/Supply Chain Meeting (Old ICP Conference Room)
07/20	1030	Readiness Review Log (Trailer 1 Meeting Room)
07/20	1500	Skimmer Wall Construction (Trailer 1 Meeting Room)
07/21	1100	MRC Meeting (ICP Conference Room)
07/21	1400	TVA, Jacobs, Stantec Status/Issues Meeting (ICP Conference Room)
07/21	1330	Test America Weekly Call (Conference Call)
07/21	1430	Data Management Meeting (ICP Conference Room)
07/22	0900	KIF Master Plan (Team Room)
07/22	0900	Ecological Review (Downstairs – 173 Lakeshore)
07/22	1000	Pace Telephone (Conference Call)
07/22	1130	HSE Staff Meeting (ICP Conference Room)
07/22	1400	SOP Meeting (Team Room)
Daily	0730	TVA Monitoring Wells Meeting (Trailer 1 Meeting Room)
Mon & Thur	0730	Site Safety Orientation (Old ICP Conference Room)
Daily	1500	Continuation of Dredge Progress & Contingency Plan (ICP Conference Room)
Tue & Thur	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date: July 12-18, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				0	26
First Aid Incidents				0	63
Recordable Incidents				0	17
Recordable Lost Time Incidents				0	12
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	258,418	
TVA	Air – Fixed	2,412	--	3,601	
TVA	Surface/Utility Water	4,115	35,878	174,223	
TVA	Ground Water (spring and well)	108	1,244	4,994	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	268	447	3,368	
TVA	Biota	1,058	2,488	27,386	
*Week ending July 16, 2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (including mechanical dredging)			0	2,762,105
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			71,700	2,806,400

Note: River dredging was completed on June 28, 2010.

Ash Loading to Trains - Weekly as of July 19th

