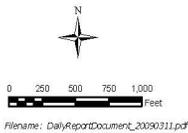


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

August 24 - 30, 2009



Date of map imagery: Feb. 25, 2009



Legend					
	Dike #2		Skimmer Wall		Ash Processing Facility
	Dike C		Weir # 1		
	Dike D		Proposed Dredge Segment		

Tennessee Valley Authority
OE&R - ER&S
Geographic Information & Engineering

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Issue (Date/Time)
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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

August 24 - 30, 2009

HIGHLIGHTS
<ul style="list-style-type: none"> • About 34,200 cy of ash were removed east of Dike 2. • Improvements to dredging production were significant later in the week. • Transported over 60,000 tons of ash offsite.
SAFETY
<p><u>Incidents</u></p> <ul style="list-style-type: none"> • August 24- A Severson employee tripped on timber matting that had been placed on a work barge and fell overboard. He was immediately pulled from the water. No injuries resulted. • August 26- A Severson lowboy truck traveling south on Swan Pond Road was passing a railroad crossing arm. As he approached the crossing, the lights flashed, approximately 3 seconds later, the arm descended and struck the bulldozer he was hauling off-site. • August 26 – A MacTec employee suffered what appeared to be heat-related stress. He briefly passed out and was taken to the on-site paramedic where he was evaluated and cleared for work. • August 27 – A MacTec employee tripped and fell on the rail causing bruising and scrapes. • August 28 – A MacTec employee suffered a recordable injury when he cut his arm on a damaged piece of a rail car. He was treated at the hospital and given stitches to close the injury. • August 28 – A GUBMK crew struck a gas line with a Ditchwitch while trying to excavate for an IT conduit / line. • August 30 – A MacTec employee suffered an ankle injury while performing rail car lining operations. The injured person was ordered to stay off his ankle for 5 days. The incident is recordable as lost time. <p><u>Site Safety Activities</u></p> <ul style="list-style-type: none"> • 17 site specific HSE orientations conducted for the week, 720 to date. • 12 Safety Observation Reports submitted for the week; 240 to date; 182 of which have been closed.
INFRASTRUCTURE/ASH MANAGEMENT
<ul style="list-style-type: none"> • Moved approximately 34,200 in-place cubic yards from east of Dike 2 to the ash storage area west of Dike 2 and to the dredge cell for the test. • Began re-contouring the north embayment to allow application of flexterra to reduce future dust and erosion issues. • The state is reviewing drawings for the new utilities, prepared by CTI. • Performed Storm Water Pollution Prevention Plan (SWPPP) inspections as required. • 10 acres of Flexterra applied this week. • Continued operating water trucks on roads and around ash piles as needed for dust control. • Maintaining the site HAZWOPER requirements – including but not limited to personnel and equipment decontamination stations, fencing, and roads.
ASH DREDGING & PROCESSING
<ul style="list-style-type: none"> • Dredging from the river was performed Monday through Saturday on a two shift basis. A project to date highest daily dredging rate was set on Thursday with over 13,100 in situ yards dredged. Total dredged in-situ yards discharged to the Rim Ditch were 46,266 since last report. • The McKenzie 14” dredge operated 75.0 hours during the period and removed 12,436 cy from Segment 1. An Ellicott engineer was on site to assist Severson in optimizing the McKenzie 14” operation with booster pump. Initial results show a 50 cy per hour improvement – which is significant for a machine of this size. • The Little Rock 20” dredge operated 40.3 hours during the week and removed 12,436 cy from Segment 1. The Little Rock 20” dredge experienced significant down time due to cutter head drive problems and a

scored fuel injector during the week,

- Dredging from the Ash Pond was performed for 28.5 hours by TVA and discharged 13,309 yards to the Rim Ditch.
- Rim Ditch operation was continuous throughout the week with settled fly ash dipping performed by two excavators on both shifts and three Excavators required during peak operation. Truck haulage estimate of Rim Ditch processed yards is 43,061 for the week.
- Sluice Trench dipping was performed by TVA Clam Shell Crane for 18 hours during the week. Truck haulage estimate of Sluice Ditch captured ash was 17,312 yards for the week.
- Daily NTU and TSS sampling was performed of the Sluice Trench discharge
- A field laboratory capable of rapid turnaround on Total Suspended Samples was mobilized and calibrated during the week. Results are intended to be used as operational controls on the ash processing systems. These will not be certified lab results, but will assist in developing system control parameters. Selection of sample location, sampling safe plan of action were completed and the first set of samples were collected on Saturday.

ASH DISPOSITION

- Continuing to load rail cars and ship the ash to the landfill in Alabama.
- Loaded and moved 7 unit trains this week.
- Have loaded and transported 47 unit trains to date.
- Loaded and transported approximately 60,430 tons of ash this week, for a total of approximately 410,430 tons.
- Planning to transport 2 – 110 car unit test trains next week in preparation of loading and transporting 110 cars on a regular basis.

CENOSPHERE RECOVERY

- Outreach calls from local residents are minimal. The focus remains on addressing EPA identified sites in non-residential areas.
- The TVA tug and barge mounted excavator unloaded approximately 250 tons of river debris.
- Installed staff gauges to monitor water levels in the Emory River.
- Continued collecting cenospheres on site around the ash and stilling ponds.
- Two vacuum trucks are being used in conjunction with CPG activities to assist with the cenosphere recovery.
- Three of the six barge-mounted vacuum units will be demobilized early next week. An addendum to the RFP went out for the skimmer wall debris. Bids are due by the end of next week.

SKIMMER WALL

- Continued to work with Worley Parsons and TVA plant personnel on addressing navigation lighting on the new skimmer wall.

DIKE REINFORCEMENT

- Continued with the design for the Dike C buttress. Stantec provided draft design for the first two of four segments along the lower dike. The design segments are for the northern section of Dike C and the southern intake channel area.
- Jacobs continued to monitor the dikes at Kingston on a daily basis. Monitoring includes the previously identified eleven seeps.
- CPG repaired several identified areas along Dike D.
- Plant Facilities is assisting with the mowing of the Dikes.

ROUTINE MONITORING

Surface Water Sampling

- The revised draft Surface Water Sampling Plan for the Emory, Clinch, and Tennessee Rivers was approved by EPA and TDEC on August 26th.
- Routine surface water fixed station monitoring occurred on Monday, August 24th, and Friday, August 28th. This reflects the approval by EPA and TDEC of the revised surface water sampling plan. Samples for nutrient analyses will continue with the weekly sampling event performed on Monday. Through August 11th, there have been no ash-related constituents detected above any criteria (i.e., ambient water quality,

domestic water supply) for the three constituents of primary interest (arsenic, selenium, mercury). Since the May 4, 2009 Emory River high flow event, the total suspended solids (TSS) concentrations have been consistently less than 20 mg/L.

- The “Dredge-North” and “Dredge-South” Hydrolab stations have been de-activated, in accordance with the revised surface water sampling plan.
- Swan Pond Embayment surface water sampling continues twice weekly at two locations along the Swan Pond Embayment drainage ditches. Since the tie-in off the Embayment settling basins, TSS results from samples collected at the settling basin effluent and from the clean water ditch average below 20 mg/L or less. Total and dissolved arsenic and selenium concentrations have declined as the settling basins and clean water ditch have come on line. The arsenic concentrations sporadically exceed the Tennessee Drinking Water Standard (TDWS), but are below the Aquatic Water Quality Standard (AWQS). Selenium concentrations are well below the TDWS, but continue to be, on average, above the AWQS.

Sediment Sampling

- Equipment issues are being worked to enable gravity core sediment sampling. A new engine is being procured for an additional boat. Based on the equipment availability, this sampling effort could resume the week of August 31st.
- The sub-bottom profile crew collected data by the Skimmer Wall to help establish the locations of caissons and other debris. Several preliminary maps have been generated to display the results of the Dike C survey. Data reduction for this survey continues. Additional visual confirmation will be performed as the gravity core sampling is re-instituted.

Air Sampling

- All air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria.
- On August 28th, notifications were made that gravimetric laboratory data had been received for August 8th PM 2.5 sampling at station PS09 and reached the action level of 26 micrograms per cubic meter (This is 75% of the NAAQS, as referenced in the KIF Ambient Air Monitoring Plan). Based on a review of meteorological conditions and regional air quality data for that day, it was determined that the data were not indicative of an impact from ash recovery operations.
- The new air monitoring contractor, Shaw Environmental, has mobilized to the KIF and transition activities are ongoing.
- The real-time TEOM PM2.5 instrument is operating at the Lakeshore Drive (PS07) air monitoring location. Data for this instrument are available on the regulator-only website.

Data Management

- Test transfers of data from Equis to the EPA SCRIBE database were initiated the week of August 17th. Some issues have been identified and TVA data management personnel are working with EPA to resolve them. This will delay the start of routine transfers from mid-September to the first of October.

Biota Sampling

- Significant collaboration efforts with TWRA, TVA, and Dr. Hopkins of Virginia Tech have occurred over the past week for the collection of turtle blood samples. The animals are being marked for future sampling as indicator species for bioaccumulation evaluations.

FINAL REMEDIATION

- EPA and TDEC are completing the review of the work plan for the non-time critical removal activities.
- Work continues on the risk assessment and engineering for the dredge cell/embayment EE/CA.

DREDGE CELL

- Just under 26,000 cy of ash were sent to the dredge cell embankment test area last week bringing the total estimated shipped ash volume to just under 44,000 cy.

COMMUNICATIONS

Communications

- Posted to TVA’s Kingston Webpage: Weekly Progress Report, updated air test results, Administrative Record Documents, new photos, ash migration information, and ORAU assessment protocols.
- Prepared information about ruptured gas line on Lakeshore Drive in Harriman.
- Continued to handle daily calls from the news media.

Outreach

- Met with individual residents about property and operations issues.
- Continued to handle calls and visits from residents.
- Responded to Congressional Inquiries and TVAINFO letters about residents.
- Drafted Technical Assistance Plan for implementation of the Technical Assistance Grant.

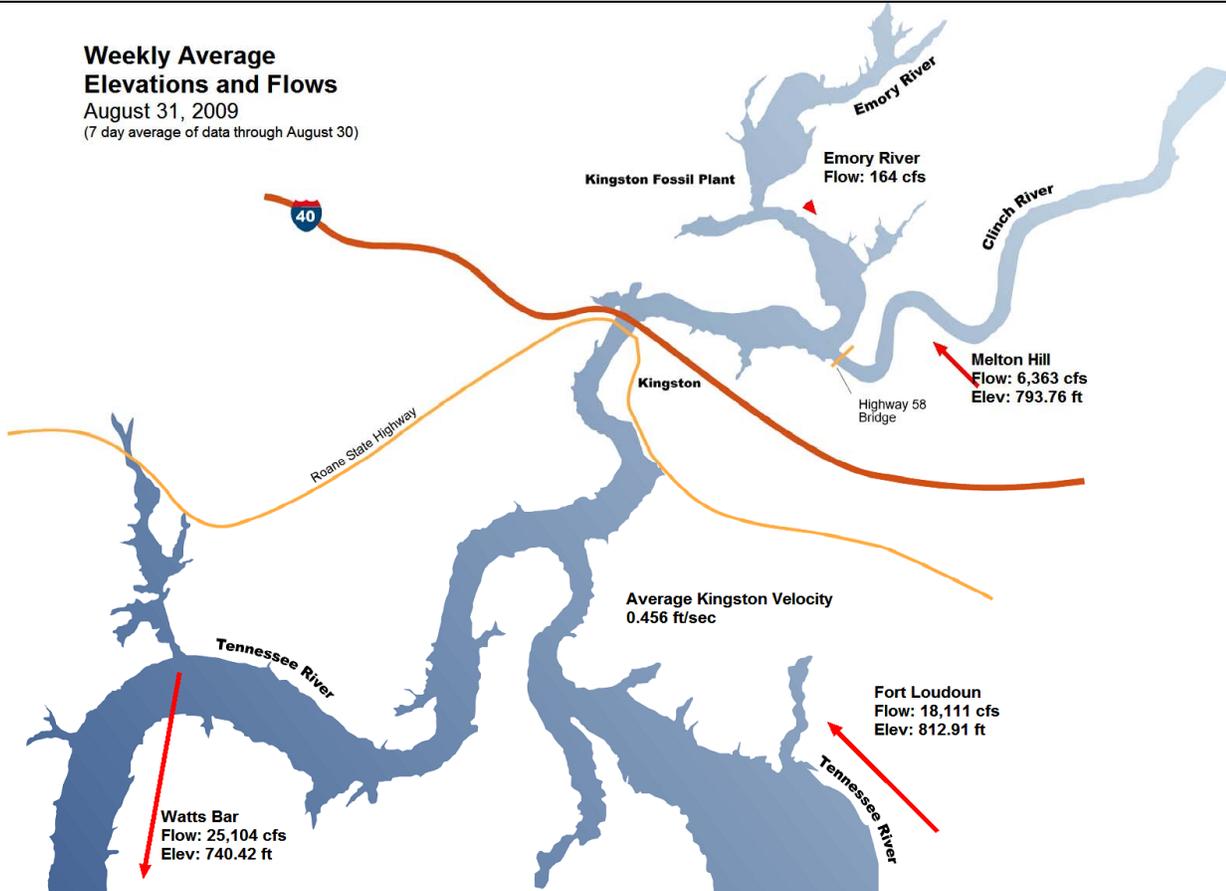
Valley/Government Relations

- Presented at Roane County Long Term Recovery Committee meeting.

RIVER OPERATIONS

Weekly Average Elevations and Flows

August 31, 2009
(7 day average of data through August 30)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
08/31	0730	Environmental Meeting (ICP Conference Room)
08/31	0800	Time Critical Meeting (ICP Conference Room)
08/31	0900	July Project Status (ICP Conference Room)
08/31	1000	Aquatic Resources Study (Team Room)
08/31	1300	Dredge Team Meeting (Team Room)
08/31	1400	Dike C Buttress Design (Team Room)
08/31	1600	Economic Development – Roane County Initiative (Team Room)
09/01	1000	SharePoint Presentation (ICP Conference Room)
09/01	1400	Site Security Procedures (ICP Conference Room)
09/01	1400	SharePoint Presentation (Team Room)
09/02	0800	Data Management Meeting (ICP Conference Room)
09/02	0900	KIF Recovery Staff Meeting (ICP Conference Room)
09/02	1330	Weekly Call With Test America (Conference Call)
09/03	0730	Environmental Meeting (ICP Conference Room)
09/03	0800	Time Critical Meeting (ICP Conference Room)
09/03	0900	KIF SOP Meeting (Team Room)
09/03	1030	Data Management Meeting (Team Room)
09/03	1130	HSE Staff Meeting (ICP Conference Room)
09/03	1300	Jacobs Senior Staff Meeting (Team Room)
09/03	1400	SOPs (Team Room)
09/03	1430	Regulatory Outlook Meeting (ICP Conference Room)
09/03	1830	CAG Meeting (ICP Conference Room)
09/04	1130	HSE Lunch & Learn (ICP Conference Room)
Daily	0730	Site Safety Orientation (Team Room)
Daily	1600	Planning Meeting (ICP Conference Room)

Kingston Recovery Project Field Report	Date: August 24 - 30, 2009	Field Report
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Safety		Weekly Total	Cumulative Total
First Aid Incidents		2	19
Recordable Incidents		2	5
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)	1,445	78,025
Total	Tons of Light Debris	0	959.57
Cenosphere Slurry (gallons)		186,000	7,078,500

Environmental					
Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	Verified
TVA	Air - Real-Time (8/21-27)	3102	98,152	98,152	98,152
TVA	Air – Analytical (8/21-27)	8	1543	1455	1,039
TVA	Surface/Utility Water	49	2,484	2,364	198
TVA	Ground Water (spring and well)	0	26	29	2
TVA	Ash	10	324	323	50
TVA	Soil/Sediment	0	79	141	9

Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (8/21-27)			49,330	560,130
Ash Pond	Estimated Cubic Yards (8/21-28)			13,300	74,700
Stilling Pond	Estimated Cubic Yards			0	24,350
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			34,200	258,100**
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	0
Ash Disposal	Estimated Tons			60,430	410,430

