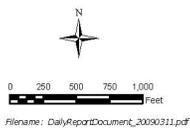


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

June 8- 14, 2009



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

Date of map imagery: Feb. 25, 2009

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

Prepared by:
Mary McDermott

Issue (Date/Time)
06/15/2009 2:14:34 PM

KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

June 8 - 14, 2009

HIGHLIGHTS

- Moved approximately 11,000 cubic yards of dry ash east of Dike 2 onto the ash processing area.
- Dredged approximately 24,000 cubic yards of ash from the river.
- All field activities to assess the Dike C stability are complete.
- Railroad spur Track #2 is complete as is the turnout off the main rail.

INFRASTRUCTURE/ASH MANAGEMENT

Engineering

- Continuing electrical design for the car wash – engineering scheduled to be completed by June 19th.
- CTI (Utilities Engineer) continuing the engineering of the utility enhancements.
- Prepared plan to put permanent crossing for the rail spur to the haul road to be straight from Swan Pond Road, not off the plant entrance road.
- Working with TDEC to possibly identify another method/product to protect the bottom of the clean water ditch to prevent erosion.

Utilities

- While installing the storm drain beside the existing rail on Swan Pond Road, requested Queen City Rail to install a casing pipe for the future installation of the 20" effluent line.

Water Management

- Relocating the skimmers from Sediment Pond 1A to 2A, reconfiguring the ponds to operate as one with all discharge from 2A to the clean water channel.
- Began moving ash from east of Dike 2 to the ash storage area. Moved approximately 11,000 cubic yards this weekend. Have hauled a total of 87,850 cubic yards of ash from the Sediment Ponds and area east of Dike 2 to the Ash Processing Area.
- Continued construction of the clean water ditches – from south of Swan Pond Circle to Dike 2.
- Completed moving clay from under the power lines and continued cutting the clean water ditch in the north embayment.
- Continued installation of check dams and re-contouring of area for effective water management/drainage.
- Performed Storm Water Pollution Prevention Plan (SWPPP) inspections as required.
- CPG working extended hours to expedite completion of the storm water drainage.
- Swan Pond Embayment surface water sampling started Thursday, June 11, 2009 and continues daily at two locations along the Swan Pond drainage ditches. The objective of the sampling is to evaluate the quality of the surface water draining from the embayment into the river.

Dust/Erosion Control

- 7 acres of Flexterra applied this week.
- 335 acres of Flexterra applied since January 31, 2009.
- Continuing operating water trucks on roads and around ash piles as needed for dust control.
- Working with TVA personnel on additional short and long term remedies for dust control – seeding, alternatives to Flexterra, and misters.

ASH DREDGING & PROCESSING

Environmental Data Collection

- Continued daily TSS monitoring at KIF NPDES 001. The mean through June 12th was 14.57.
- Dredge plume monitoring continued Monday through Saturday, June 8th – 12th.

Dredging

- Approximately 24,000 cubic yards of ash was removed from the river and 4,500 cubic yards from the stilling pond.
- TVA's yellow dredge was refurbished this week and moved into the river to support dredging.

ASH DISPOSITION

- A meeting to discuss safety was held Monday at the site with representatives from TVA, Jacobs, Norfolk Southern, and Mactec. Reviewed methods and work plans to assure all parties understood and are in agreement with the process.
- A Pre-Mobilization Meeting was held with Mactec on Friday. Mobilizing crew on Monday to begin preparations to load ash into rail cars when final approval received.
- Received regulatory approval to increase storage height of ash in the ash processing area to 15 feet.
- Completed installation of turnout off the main rail this weekend. Asphalt to be placed on Monday with the road opening Tuesday, as scheduled.
- Track #2 is complete and Norfolk Southern is scheduled to perform their inspection on Monday, June 15th.
- Construction of Track #1 is progressing and scheduled for completion by the end of next week.
- Norfolk Southern is scheduled to move the rail cars on site Monday and Tuesday, June 15th and 16th.
- TransAsh continues to process the ash from the rim ditch and spread in the processing area.
- Approval to dispose ash offsite not yet received. If not received by June 16th, the schedule will be negatively impacted.
- Waste profile samples of ash were collected on Monday, June 8, 2009 for characterization and comparison to waste acceptance criteria. The ash samples are being analyzed for TCLP metals, radium-226, and radium-228.

CENOSPHERE RECOVERY

- Continued using excavator to remove heavy debris from areas down river.
- Mobilized a long reach excavator to help remove cenospheres from the sluice channel. This process will be incorporated into the recovery plan, if the excavator is proven successful.
- Continued to work down stream in the area of Tennessee River Marker TRM-548 as well as areas in the Clinch and the Emory.
- The EPA, with the assistance of the Coast Guard, is patrolling the rivers for cenospheres.

SKIMMER WALL

- Monitoring turbidity data. Appears rain event late on June 10th increased turbidity in the river at EMR 4. Will monitor increase at intake and discharge.
- Discussing with TVA the use of new geophysical data recorder for mapping the intake change.
- Turbidity control curtains will continue to be analyzed for viability for short-term use in the intake channel.

DIKE REINFORCEMENT

- Stantec is not going to complete the remaining six borings located in the water ways. After reviewing the data, Stantec believes the remaining six borings will be outside the failure circle for the dike and information obtained from the borings will not impact the stability modeling. Therefore, all 57 borings for dike stability are now complete.
- Continued working on final report for Dike Stability.
- Continued working on report for Dike D and Dike 2 stability report.
- Eleven seeps have been identified along Dike C in the area where trees were cleared. The seeps are small and no flow is visible. A TVA engineer from Chattanooga and Stantec looked at the dike on Monday and provided a recommendation for daily monitoring. Seeps are typical with dikes. TVA soil engineers looked at the area on Wednesday and came to the same recommendation of monitoring.
- The soil engineers pushed two 18" cores in the area and observed moist to wet soil and mottling. Mottling indicates that water has been moving in the area for some time. The trees were likely absorbing the water that is currently manifesting as seeps. The seeps have been surveyed and monitoring will continue for some time. The TVA soil engineers will return next week and attempt to measure resistivity in the Dike to help determine the size of the seeps.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, Wednesday, and Friday, June 8th, 10th, and 12th. Samples for nutrient analyses continued with the weekly sampling event performed on Wednesday.
- Surface water monitoring crews continued collecting temperature measurements at various depths to

detect areas of thermal stratification. The objective of this is to evaluate whether the sampling depths at surface water locations should be adjusted due to thermal stratification. Thermal stratification was detected at ERM 0.1 and ERM 1.75 last week and samples were collected at multiple depths at these locations.

- A second two week sampling round at the Ash Recovery System was initiated on Tuesday, June 9, 2009 and continued on Thursday, June 11, 2009. Sampling is planned for June 16th and the final event of the round is scheduled for June 18th.

Air Sampling

- All air monitoring results, including fixed-station and real-time monitoring continues to have results below ambient air quality criteria. The few occasional exceedances of particulate measurements with the real-time instruments have all been at locations where smoke and the odor of wood fires have been noted.

Data Management

- Electronic data packages continue to be received from the metals re-analysis of surface water samples collected in January and February 2009. This data set is nearly complete for verification.
- Data validation continues for electronic data packages received from the laboratories. As verified packages are received, they are being posted to the password protected website for regulator review.
- The draft Data Management Plan is undergoing internal TVA review. Comments will be incorporated into the plan and a final draft issued for regulator review the week of June 15th.

Other Projects

- A report of the results for the Eckman dredge/visual observation survey was issued on June 4th.
- Students from Duke University accompanied the surface water sample crews Tuesday, June 9, 2009 through Friday, June 12, 2009 and collected surface water and sediment samples for analysis. TVA collected split samples of the Duke University samples.
- Quarterly groundwater sampling was performed June 9, 2009 through June 12, 2009 by personnel from TVA Greenway. Sample coordination, review of collection procedures, and shipping of samples was supported by onsite sampling staff to ensure generation of data sufficient for use to the KIF recovery project. Environmental Standards provided oversight to the GW sampling event.

FINAL REMEDIATION

Engineering

- Technical Memoranda summarizing existing information and the approach for risk assessments to facilitate discussions at the upcoming data quality objectives/scoping workshops were submitted to EPA.

Documentation

- TDEC is reviewing the work plan for the dredge cell test.

SAFETY

- 13 site specific HSE orientations conducted for the week, 333 to date.
- 5 Safety Observation Reports submitted for the week; 56 to date; 37 of which have been closed.
- To date 80% of submitted SORs have been completed by HSE staff, 20% by operations.
- No incidents reported for the week.

COMMUNICATIONS

Communications

- Report to Community mailed to every residence in Roane County.
- Established plan for public meeting with EPA and TDEC on June 23rd.
- Posted to TVA's Kingston Webpage: Swan Pond Road Closures, Recreational Advisory for Watts Bar Reservoir, Air Sampling Results Updated.

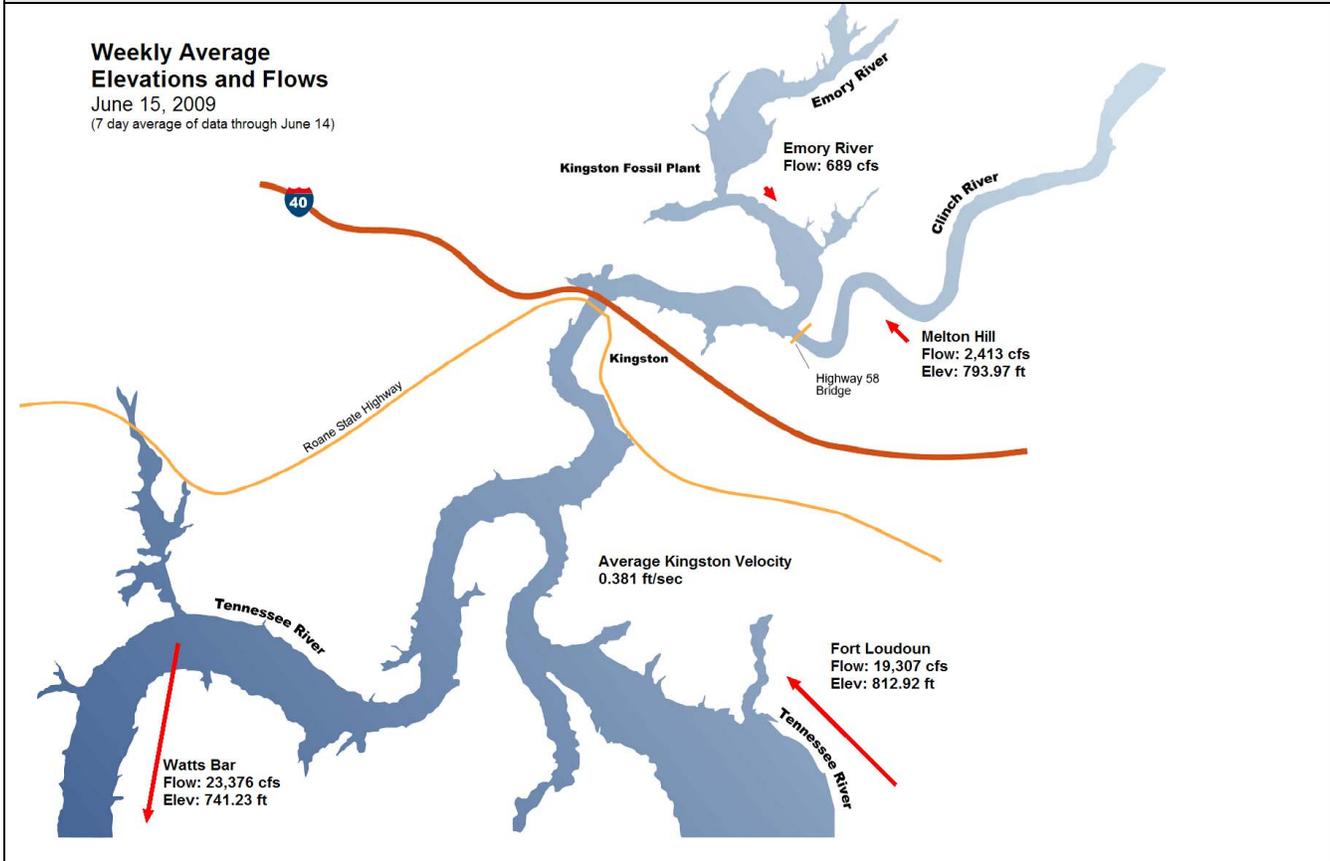
Outreach

- Implemented plan for closure of Swan Pond Road, June 12th through June 16th.
- Continued appraisals and offers on properties TVA is willing to purchase.
- Continued to handle calls and visits from residents.
- Responded to numerous Congressional Inquiries and TVAINFO letters about residents.
- Hosted ORAU personnel for a site tour and briefing.

Valley/Government Relations

- Hosted Representative Bernice Johnson (D-TX), Chairwoman of the House of Representative Subcommittee on Water Resources & Environment for a site visit, tour and briefing.
- Hosted Perry County, AL officials on site tour and briefing.
- Attended Long Term Recovery Committee Meeting and gave update on site progress.
- Along with Procurement, held a telecon with City of Kingston officials to discuss the KIF recovery expense reimbursement process.

RIVER OPERATIONS



MEETINGS/CONFERENCE CALLS

Date	Time	Subject
06/15	0800	Time Critical Meeting (ICP Conference Room)
06/15	1000	Mactec JSA Meeting (ICP Conference Room)
06/16	0900	GAO Visit (ICP Conference Room)
06/16	1400	Dike Stability Meeting (Team Room)
06/16	1000	Project Managers Weekly Meeting (Team Room)
06/16	1300	Weekly Dredging Program Meeting (Team Room)
06/17	0800	Time Critical Meeting (ICP Conference Room)
06/17	0900	KIF Recovery Staff Meeting (ICP Conference Room)
06/17	1300	Dredging Evaluation (Team Room)
06/18	0900	Dredge Cell Test Team Meeting (ICP Conference Room)
06/18	1030	Alliance Hauling (Team Room)
06/18	1400	Rail Spur Meeting (ICP Conference Room)
06/19	0800	Time Critical Meeting (ICP Conference Room)
06/19	0900	Infrastructure Team Meeting (Team Room)
06/19	1000	Corrective Action Plan (ICP Conference Room)

Kingston Recovery Project		Date: June 8 - 14, 2009		Field Report	
Safety Status/Personnel Casualty Summary					
	Since Last Report	Adjustments To Previous Op Period		Total Involved	
First Aid	0	0		10	
Recordable Incidents	0	0		2	
Lost/Restricted Time Incident	0	0		0	
Cenosphere/Debris Removal			Quantity		
Recovered Materials			Weekly Total	Cumulative Total	
Outreach	Light Debris Removal – Land (bags)		0	18,867	
Divisions A, B,C,D Cleanup	Division shoreline cleanup (bags)		1,760	64,079	
Total	Tons of Light Debris		0	959.57	
Cenosphere Slurry (gallons)			207,000	5,839,500	
Environmental					
Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	Verified
TVA	Air (Real-Time)*	3,080	52,277	52,277	52,277
TVA	Air (Analytical)*	15	1435	1,281	1,039
TVA	Surface/Utility Water	88	1,622	1,446	198
TVA	Ground Water (spring and well)	19	24	5	2
TVA	Ash	12	93	86	50
TVA	Soil/Sediment	0	79	126	9
Ash Dredging/ Excavation			Weekly Total	Cumulative Total	
River - Dredging	Estimated Cubic Yards			24,200	230,000
Ash Pond - Dredging	Estimated Cubic Yards			0	45,000
Stilling Pond - Dredging	Estimated Cubic Yards			4,500	11,600
Ash Excavation (east of Dike 2)	Estimated Cubic Yards			11,000	13,500
Ash Excavation (other)	Estimated Cubic Yards			0	77,000
Comments: * June 5 - 11, 2009					