KINGSTON ASH RECOVERY PROJECT
WEEKLY REPORT

June 1 - 7, 2009

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Filename: DailyReportDocument_20090311.pdf

Legend

- Dike #2
- Dike C
- Dike D
- Skimmer Wall
- Weir # 1
- 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:	Issue (Date/Time)
Mary McDermott	06/08/2009 1:23:04 PM

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HIGHLIGHTS

- Working extended hours and re-evaluating the engineering design on the interim drainage system to expedite completion of this work.
- Dredged approximately 23,600 cubic yards of river ash and 2,000 cubic yards of pond ash.
- Letters of intent to award were issued to loading, transportation, and disposal contractors.
- Repair of the riprap along Dike C was completed.

INFRASTRUCTURE/ASH MANAGEMENT

Engineering

- Car wash design and installation released to be installed in current location – notified engineering to finalize design and issue for construction.
- CTI (Utilities Engineer) continuing the engineering of the utility enhancements.
- Prepared sketch and submitted Task Order to Civil Projects Group to widen the radius at the intersection of Swan Pond Road and Swan Pond Circle.
- Preparing sketch to eliminate the S curve in the middle entrance road to the facility.

Roads

- Laid out the new guard rail location for widening the radius at the intersection of Swan Pond Road and Swan Pond Circle.

Utilities

- No construction activity at this time.

Water Management

- Completed the installation of the fabric baffles in Sediment Pond 2A.
- Have hauled approximately 76,850 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.
- Began moving clay from under the power lines for the clean water ditch in the north embayment and encountered a sand layer and water. CPG adding rock to the base of the ditch and along the slopes to prevent further erosion.
- 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.
- Submitted a work plan to move the skimmers from 1A to 2A, thereby combining the two sediment ponds allowing all discharge thru 2A into the clean water ditch.
- Submitted the Storm Water Management Plan required under the Order to TVA.
- Submitted the work plan to move ash east of Dike 2 to EPA.

Dust/Erosion Control

- 7 acres of Flexterra applied this week.
- 328 acres of Flexterra applied since January 31, 2009.
- Continuing operating water trucks on roads 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.
- Revised the Fugitive Dust Control and Suppression Plan and submitted to the TVA.

ASH DREDGING & PROCESSING

Environmental Data Collection:

- Continued daily TSS monitoring at KIF NPDES 001. The final May monthly mean was 10.50 mg/L. The mean through June 4 was 13.52 mg/L.

- Dredge plume monitoring continued Monday through Saturday, June 1st – 6th.

Dredging:

- River dredging recovered approximately 23,600 cubic yards between June 1st and June 7th.
- Dredging cumulative to date volume: 199,000 cubic yards.
- On June 1, 2009, dredge Emory released less than 1 gallon of biodegradable hydraulic fluid from the cutterhead into the Emory River. The seal on the cutterhead was damaged by river debris during dredging activities.
- Implemented corrective actions in response to the series of releases.
- Ash Stilling Pond dredging continued and recovered approximately 2,000 cubic yards this week.
- Two cranes were used to remove the TVA dredge from the Settling pond and to deploy the dredge to the river at the south boat ramp.
- Revised dredging plan for more aggressive dredging.

Ash Processing:

- The Ash Processing and Storage area contains approximately 300,000 cubic yards of fly ash. A portion of the stockpile is from dredging and recovery operations and the remainder is from the embayment area (material excavated from the installation of stormwater ponds and clean/dirty water ditches) and subsurface improvements in support of rail spur installation adjacent to the Ash Processing and Storage Area.

ASH DISPOSITION

- Construction on the rail spur is ongoing. Track # 2 is complete to station 5+00, which brings it down to the area adjacent to the guard shack. Track #1 installation began and is down to station 21+00 where it was stopped to allow access to move the dredge around to the river. The installation will continue next week. The project is on schedule for June 16th completion of Track #2.
- Unloading and cleaning of the test rail cars that did not leave the KIF site finished this week. Norfolk Southern on site to inspect the rail cars.
- Letters of intent were issued to the contractors for the loading, hauling, and unloading of the ash. Mactec was awarded the loading contract, Norfolk Southern the hauling contract, and Phillips and Jordan the unloading contract. An Ash Disposal Kick-Off Meeting was held in Chattanooga with all the parties on Thursday. This allowed all the contractors an opportunity to review their scopes of work and discuss how each would interface with the others. Further planning meetings are scheduled for next week at the site.
- TransAsh continues to process the ash from the rim ditch and spread in the processing area.
- A Task Order was written to CPG to install manholes to protect the inclinometers.

CENOSPHERE RECOVERY

- Resumed using excavator to remove heavy debris from the river. There were heavy debris areas on Clinch River at Ladd's Landing and on the Tennessee River at Knox Park.
- Demobilized two of the six VTU barge sets. VTUs were removed from the barges on Monday and barge sets were removed on Friday. Two of the barges were from SWS and two were from P&J. The two P&J barges were picked up by Southern Shores to use in the dredging program. The two barges from SWS were removed from the site.
- Continued to work down stream in the area of Tennessee River Marker TRM-548 as well as areas in the Clinch and the Emory around the plant.

SKIMMER WALL

- Initial draft of Turbidity Control Work Plan was submitted to TVA for "in-house" review.
- Floating Barge was re-installed at previous failed Skimmer Wall location to provide the intake channel with added debris protection.
- Discussed effectiveness of turbidity curtains in protecting the intake system with TVA River Ops and Aer-Flo, installation engineer. Both parties believe very little protection can be acquired in the case of "neutrally buoyant" suspended solids.
- Turbidity control curtains will continue to be analyzed for viability for short-term use in the intake channel.
- Turbidity measurements with depth show no variation.

DIKE REINFORCEMENT

- Completed repairing riprap along Dike C.
- Continued working on final report for Dike C stability.
- Stantec is awaiting funding increase to allow them to complete the six remaining borings which are located in the water around Dike C.
- Continued working on report for Dike D and Dike 2 stability report.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, Wednesday, and Friday, June 1st, 3rd, and 5th. The first set of nutrient samples was collected on Wednesday.
- The only significant surface water observations during the month of May were associated with the Emory River high flow event of May 4. Total suspended solids (TSS) at TRM 563.5 increased to a maximum of about 80 ppm, and rapidly decreased after the event. For the three primary metals of concern (arsenic, mercury, selenium), the only increase in concentration detected was for total arsenic at TRM 563.5 on May 5th, the day after the high-flow event. The concentration of arsenic slightly exceeded (11.6 ppb) the State of Tennessee domestic drinking water supply criterion of 10 ppb (this is for comparison purposes only). The concentrations of total selenium and mercury did not exceed any of the criteria used for comparison.
- TVA staff met with TDEC and EPA staff to discuss the possibility of reducing the frequency of both routine surface water sampling and monitoring of the current dredging operation. TDEC and EPA are evaluating this suggestion. Until their feedback is received, the monitoring will continue on the current schedule.
- Surface water monitoring crews began a series of 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.
- Nutrient sampling (nitrogen, phosphorus) has been initiated on a limited basis to determine if application of fertilizer on the Swan Pond Embayment creates any elevations of these constituents in the river system. Initially, samples will be collected once per week and after a > 0.5" rainfall event. Once the data are evaluated over time, the monitoring for these constituents will be adjusted.

Air Sampling

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

Engineering

- Final Remediation work continues on preparing technical memoranda to support the upcoming data quality objectives workshop. Efforts on developing conceptual site models, data summary tables, and alternatives are ongoing.

Documentation

- Another version of the dredge cell embankment test plan has been developed based on comments received from TDEC. This should be submitted to EPA for approval next week and work will begin again on preparing the area for the test.

SAFETY

- 19 site specific HSE orientations conducted for the week, 320 to date.
- 4 Safety Observation Reports submitted for the week; 50 to date; 29 of which have been closed.
- Dredge Emory released approximately one gallon of Chevron Clarity hydraulic fluid into the river at approximately 1600 on 6/1/09. The source of the release was a damaged seal on the cutter head.
- One first aid case was reported with a CPG individual receiving minor lacerations to his head, back and left hand as a result of a window pane falling out of a garage door as he stooped over below it to raise the door. The injury occurred on 6/1/09, the individual was treated by the on site paramedic.
- The first Hazwoper Supervisor Course was held this week on June 5th with 11 personnel attending.

COMMUNICATIONS

Communications

- Swan Pond Road closures, Emory River update, TVA Guideline for Health, and updated Air Sampling Results were posted to TVA's Kingston webpage.

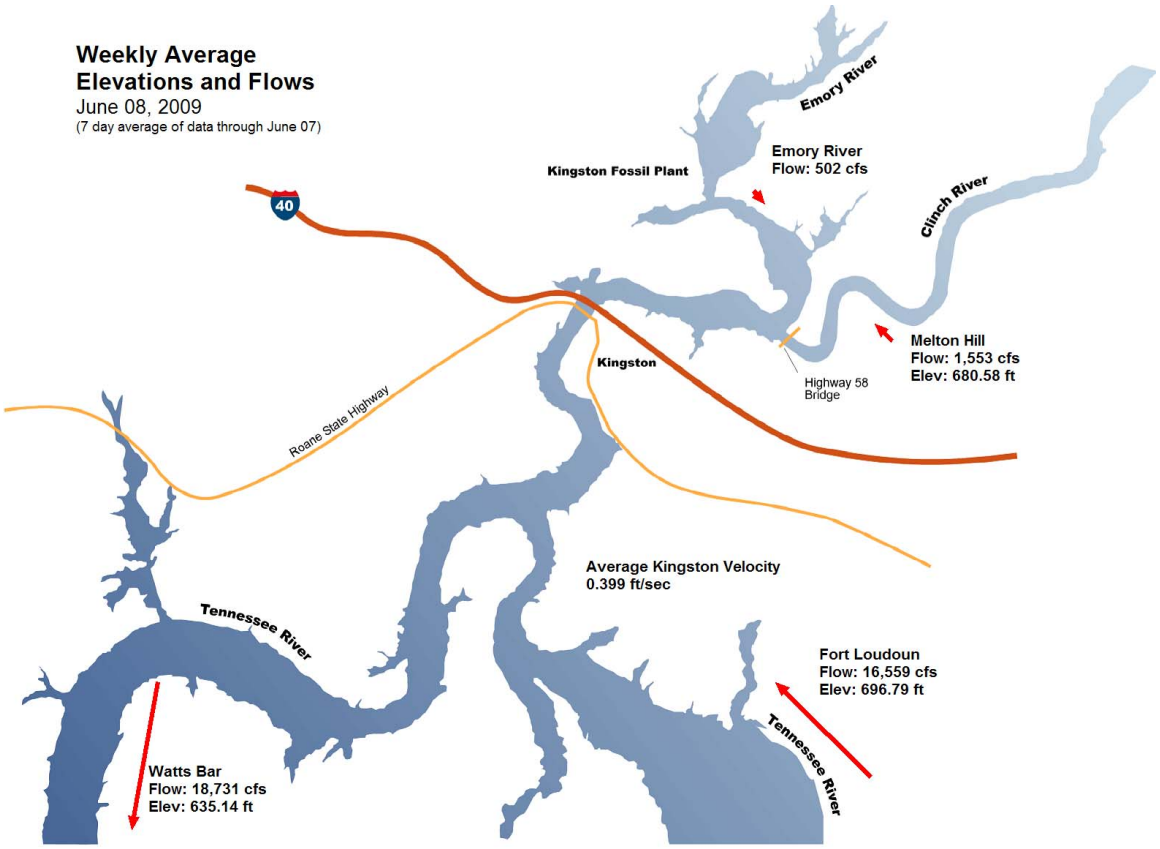
Outreach

- Completed interviews with residents and community leaders for Community Involvement Plan.
- Developed plan and materials for closure of Swan Pond Road, June 12th – 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.

Stakeholders

- Met with Mike Farmer regarding economic assistance to Roane County.
- Planned for visit Monday of Representative Bernice Johnson.

RIVER OPERATIONS



MEETINGS/CONFERENCE CALLS		
Date	**Time**	**Subject**
Daily	0800	Time Critical Daily Meeting (ICP Conference Room)
06/08	1000	Ground Water Monitoring Meeting (ICP Conference Room)
06/08	1400	Ash Loading Safety Review (CPG Conference Room)
06/08	1400	Uniontown Visit (ICP Conference Room)
06/09	1000	Project Managers Weekly Meeting (Team Room)
06/09	1300	Weekly Dredging Program Meeting (Team Room)
06/10	0900	KIF Recovery Staff Meeting (ICP Conference Room)
06/10	1100	Engineering Discussion (Team Room)
06/10	1400	Rail Spur Meeting (ICP Conference Room)
06/11	0900	Dredge Cell Test Team Meeting (ICP Conference Room)

Kingston Recovery Project	Date: June 1 - 7, 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)	1,870	62,319
Total	Tons of Light Debris	0	900.56
Cenosphere Slurry (gallons)		246,000	5,632,500

Environmental

Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	verified
TVA	Air (Real-Time)*	2,286	49,197	49,197	49,197
TVA	Air (Analytical)*	15	1420	1,277	1,039
TVA	Surface/Utility Water	65	1,534	1,345	198
TVA	Ground Water (spring and well)	0	5	5	2
TVA	Ash	0	81	86	50
TVA	Soil/Sediment	3	79	122	9

Dredging				Weekly Total	Cumulative Total
River	Estimated Cubic Yards			23,600	199,000
Ash Pond				0	45,000
Stilling Pond	Estimated Cubic Yards			2,000	7,100

Comments:
* May 29 – June 4, 2009