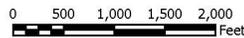


KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

December 7 - 13, 2009

Aerial Image of Kingston Ash Slide August 14, 2009



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

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Issue (Date/Time)
12/15/2009 9:30:03 AM

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WEEKLY REPORT

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HIGHLIGHTS

- Cumulatively, just over 2,126,500 cubic yards of ash have been removed from the river and east of Dike 2.
- Have loaded and transported 115 unit trains to date for a total of 1,051,700 tons.
- Heavy rains in the valley areas created high conditions and increased flows in the river system. Debris and cenospheres have been identified in several areas with the majority of debris located on the far bank of the Emory River.
- Dike C buttress work began on Monday.
- EPA approved the work plans for the Filter Press and Genesis Installation; Piezometer Installation in Dredge Cell Relic Area; Lateral Expansion Construction and Operation; and Rail Yard Modification Construction.
- Availability Session was held on Tuesday, December 8th.
- The trackhoe was successfully and safely removed from the Emory River on Thursday, December 10th.

SAFETY

Program Summary

- 22 site specific HSE orientations conducted for the week, 876 to date.
- 12 Safety Observation Reports submitted for the week; 520 to date; 422 of which have been closed (correction from previous report).

Incidents

- Recordable Incidents:
 - A Severson operator strained his shoulder while attempting to secure a pump barge to a larger barge. Injury reported late. Employee put on Lost Time status by physician.
- Non Recordable Incidents:
 - MACTEC laborer experienced minor lower back pain while placing polymer. 1st Aid. Returned to work.
- Property Damage Only:
 - During the high water event two Severson John Boats and one TVA Pontoon boat were sunk while tied up at the Skimmer Wall dock.

INFRASTRUCTURE/ASH MANAGEMENT

- Continued moving ash in the east embayment and east of Dike 2 to allow drainage. Almost no ash was moved to west of Dike 2.
- Work was temporarily halted in the area east of Dike 2 on Wednesday due to high river flows. Work on the dredge cell (including hauling across the east-west haul road) was also halted this week due to questions about underlying ash stability. Upon completion of additional analysis and decrease of water flows, all work was resumed.

ASH DREDGING & PROCESSING

- Severson dredged roughly 54,440 cy this week.
- A main ash pond bathymetric survey was completed on Monday, December 7th. The Thursday survey was cancelled to allow the TVA survey boat to gather post high flow event ash surface data in the Emory River. Main and stilling ponds combined volume has shown a slow rate of decline since 11/14/09 and is now 85,921,257 gallons or 84% of the NPDES permit required volume. This indicates that BMP operation of the rim/sluice trench and TVA dredging through the Thanksgiving holiday has developed positive results.
- Required construction on the lateral expansion area was nearly completed during the week. Stantec review of construction completion is needed prior to operation.
- Filter press mobilization is underway with significant deliveries on site by week's end. Structural fill completed during the week and asphalt pad paced on Saturday.
- Excavator cleaning on the rim ditch was performed on Sunday during zero flow to optimize ditch condition at start of

week with minimal discharge. Assembly of the Severson crane was underway at week's end with all components on site except the clamshell bucket.

- Stantec issued the Engineering Stamped Package with the Quality Assurance Plan and Design for the Lateral Expansion Dike and Outlet Structure on Thursday, December 7th.
- The trackhoe was successfully and safely removed from the Emory River on Thursday, December 10th, decontaminated the equipment, and transferred it onto a truck on Saturday, December 12th, to relocate to a salvage yard.

ASH DISPOSITION

- Loaded and transported 5 unit trains this week.
- Had approximately 3.9" of rain this week.
- Have loaded and transported 115 unit trains to date for a total of approximately 1,051,700 tons.
- Continued inspection and maintenance of the rail in the rail yard.
- Continued putting polymers in rail cars prior to shipping to Alabama.
- Continuing work on the overall operations of the ball field/processing area.
- Queen City Railroad Construction started mobilization for making the KIF Rail Yard Modifications. Final design was agreed to by TVA, Jacobs, Norfolk Southern, and MACTEC.

CENOSPHERE RECOVERY

- Heavy rains in the valley areas created high conditions and increased flows in the river system. Debris and cenospheres have been identified in several areas with the majority of debris located on the far bank of the Emory River.
- The water level raised about 4 feet and the flow in the Emory River peaked at about 56,000 CFS. Although flows dropped to below 10,000 CFS by Thursday, the water level remained high all week. It is anticipated that water levels will remain high into the middle of next week as water is released out of the system.
- Members of the cenosphere crew supported the successful removal of the excavator.

SKIMMER WALL

- Work on the skimmer wall has been suspended until early next year.

DIKE REINFORCEMENT

- Dike C buttress work began on Monday. The work focused on construction of the "Toe Road" along the riprap bottom of the buttress.
- The EPA has signed off that adequate ash has been removed prior to placement of buttress materials.
- Heavy rains on Wednesday shut down operations early and high water elevations on Thursday delayed the start of work until 10:00.
- Continued to monitor the dikes on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, December 7th and Friday, December 11th. On Wednesday December 9th, an attempt was made to perform surface water monitoring associated with an Emory River elevated flow event. Weather (wind), river flow conditions, and large quantities of debris in the river resulted in termination of sampling due to safety concerns. A surface water grab sample was obtained on December 9 from a dock adjacent to the Kingston Water Treatment Plant intake. The river sampling was performed on Thursday, December 10th, with the Emory River flow still elevated.
- 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. Although the most impacted section of the Emory River has been closed to public use, the Emory, Clinch, and Tennessee Rivers are classified for use for Recreation and as a source for Domestic Water Supplies. However, closure of the most impacted reach of the Emory River during the ash recovery operation must be considered in these comparisons.
Noteworthy results are reported below for Fixed River Location samples collected between 10/02/09 and 11/2009. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, the detectable arsenic concentrations were well below the TDWS. Selenium was not detected in any samples.

- On the Clinch River, all detected concentrations of arsenic and selenium were less than the TDWS and F&AL.
- On the Emory River, all arsenic and selenium detects in surface water samples were less than the TDWS and F&AL.
- Daily monitoring of dredge plumes continued. 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 continues routinely twice per week at two locations along the Swan Pond Embayment drainage ditches. Additional samples are collected whenever the 24-hour rainfall exceeds 0.5" measured at the on-site meteorological station.

Sediment Sampling

- Vibecore sampling continues from ERM 0.0 to ERM 1.0 to characterize ash and potential legacy sediments.

Air Sampling

- The majority of air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria. Several real-time readings were above the 150 ug/m³ PM10 level, but all were associated with local active fires and smoke.
- TVA's real-time tapered element oscillating microbalance (TEOM) PM2.5 instrument is operating at the Lakeshore Drive (PS07) air monitoring location. Data for this instrument are available on the regulator website. Daily results for 12/3-12/10 were well below the action limit of 26 ug/m³.

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. Efforts continue regarding the migration of TVA air data into EPA's (AQS).

Biota Sampling

- Mammal trapping continues in collaboration with the University of Tennessee.
- Benthic invertebrate sampling will continue over the next several weeks.

FINAL REMEDIATION

- An internal workshop was held to plan out the initial phases of work for the final remediation and dredge cell remediation effort. These phases identified are consistent throughout all alternatives so the decision is not needed to begin construction. For example, a processing area is needed in the north embayment in all alternatives.

DREDGE CELL

- Approximately 15,200 cy of ash were placed in the test embankment this week. Results continue to show no underlying ash movement.

COMMUNICATIONS

Communications

- Conducted site tours and interviews with Chattanooga Times, Metro Pulse and Engineering News Record.
- Posted to website: Water Quality Information Updated, Solids/Ash Testing Information Updated, Weekly Report Added, Hearing on December 9, 2009 and site updates.
- Continued to handle daily calls from the news media.

Outreach

- Held TVA Availability Session with local residents December 8th at Kingston Outreach Center.
- Updated the CAG on site activities and this week's Congressional testimony.
- Maintained Administrative Record.
- Continued to handle calls and visits from residents.
- Continued to gather comments on various administrative records.

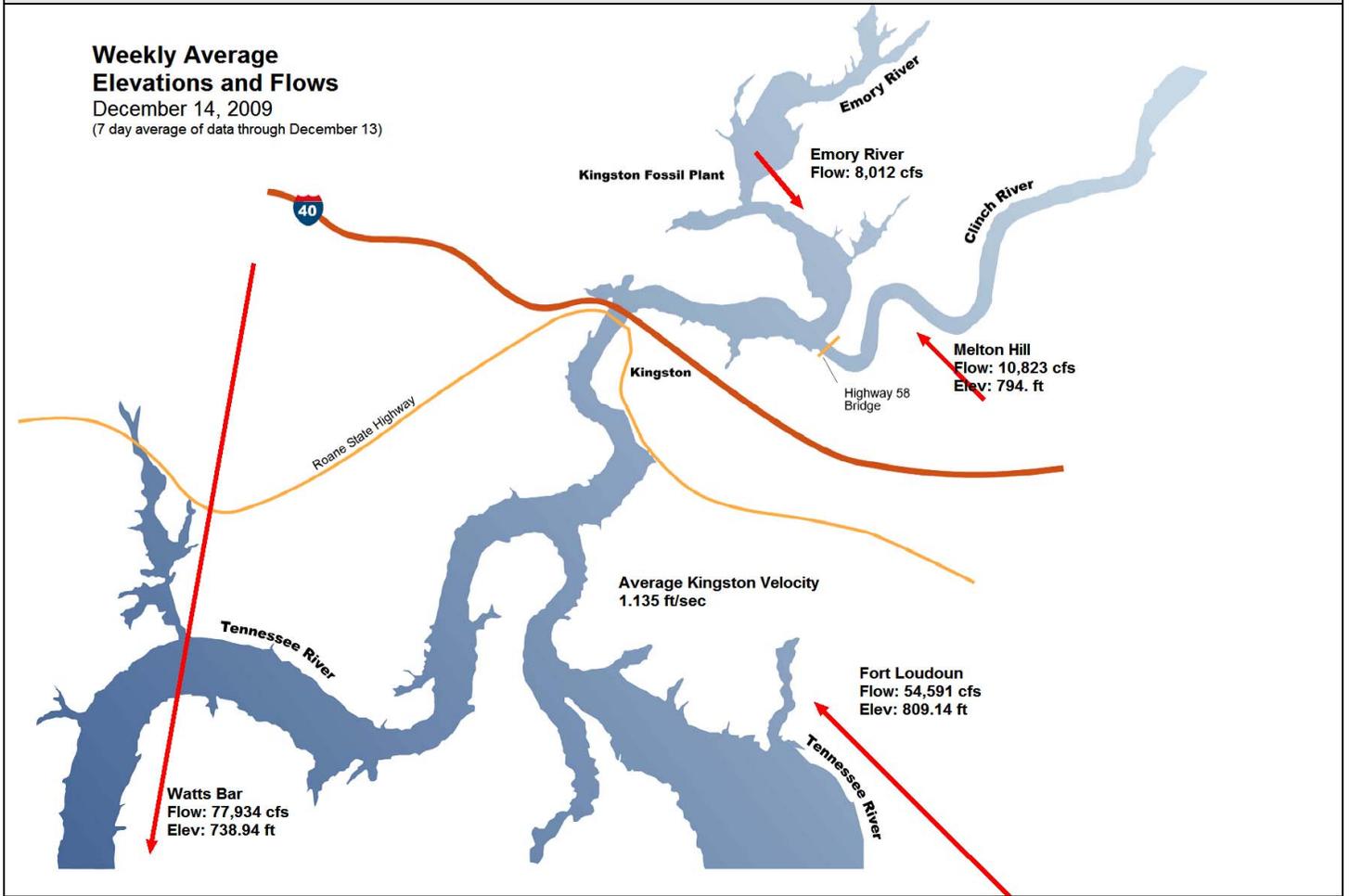
Government/Valley Relations

- Held various meetings with local officials.

Other

- Held Holiday Luncheon for recovery site workers – day shift and night shift.

RIVER OPERATIONS

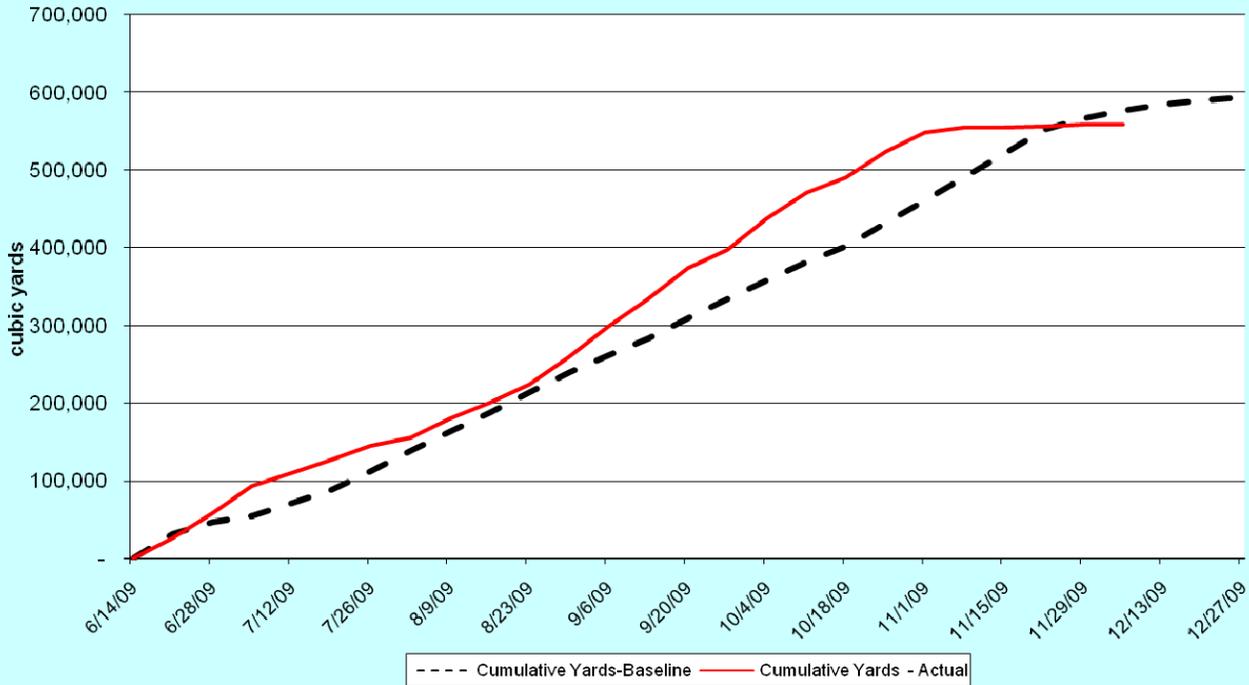


MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
12/14	0730	Environmental Meeting (ICP Conference Room)
12/14	0900	Dike C Buttress Intake Channel (ICP Conference Room)
12/14	1000	Media Tour (ICP Conference Room)
12/14	1000	Aquatic Resources Studies (Team Room)
12/14	1400	Review of Ballfield Plan (Team Room)
12/15	0815	Dredge Cell Test Meeting (ICP Conference Room)
12/15	0900	BCP Meeting (ICP Conference Room)
12/15	1000	Project Review Meeting (ICP Conference Room)
12/15	1000	Cenosphere Marketing (Team Room)
12/15	1200	River SAP (Old ICP Conference Room)
12/15	1300	Kingston Rail Scale (ICP Conference Room)
12/15	1330	Dredge Team Meeting (Team Room)
12/15	1700	CPR/AED Training (ICP Conference Room)
12/16	0800	Time Critical Weekly Meeting (ICP Conference Room)
12/16	0930	Data Management Meeting (ICP Conference Room)
12/16	0930	Jacobs Org Roles & Responsibilities (Old ICP Conference Room)
12/16	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
12/16	1300	Skimmer Dike Sonar TVA Diver Meeting (Team Room)
12/16	1330	Test America Weekly Call (Conference Call)
12/16	1400	Ash Recovery Planning Group (ICP Conference Room)
12/17	0730	Environmental Meeting (ICP Conference Room)
12/17	0900	KIF SOP Meeting (Team Room)
12/17	1000	Pace Telecon (Conference Call)
12/17	1130	HSE Staff Meeting (ICP Conference Room)
12/17	1300	Jacobs OPR (ICP Conference Room)
12/18	0900	Jacobs Senior Managers Meeting (ICP Conference Room)
12/18	1230	EMIT Benchmarking (Team Room)
Daily	0730	Site Safety Orientation (Team Room)
Daily	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

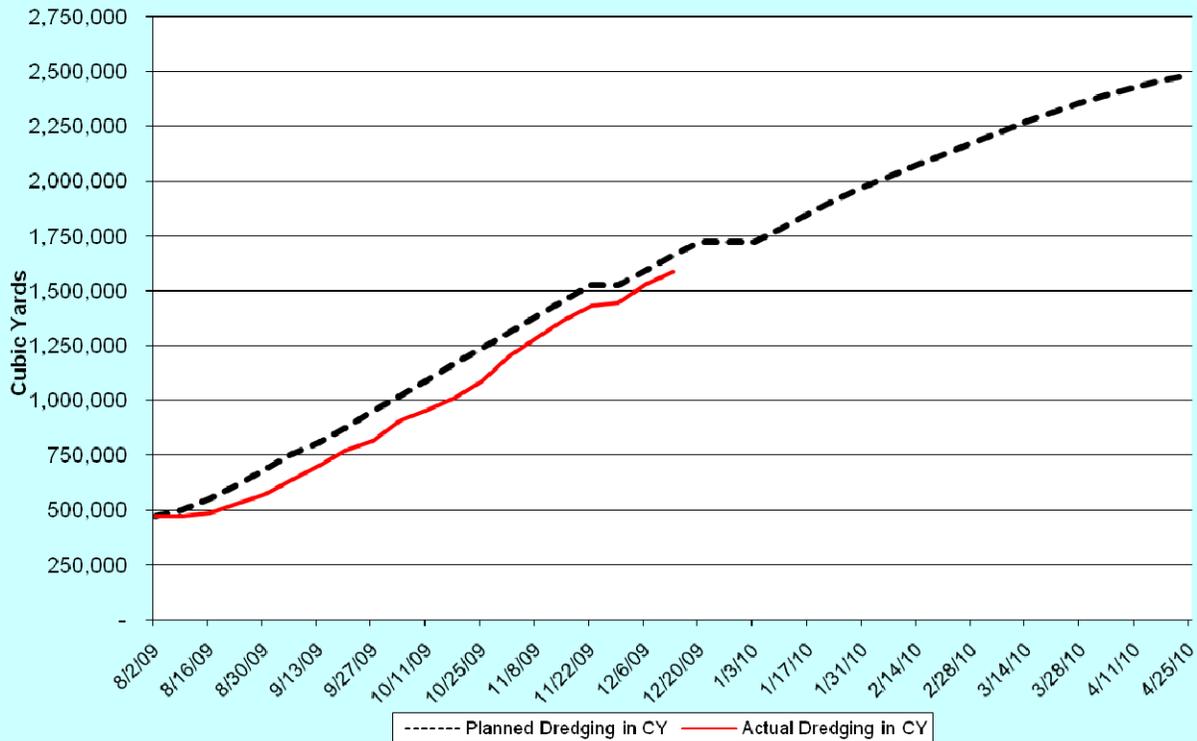
Kingston Recovery Project		Date:	December 7 - 13, 2009		Field Report
Safety			Weekly Total	Cumulative Total	
First Aid Incidents			1	27	
Recordable Incidents			0	8	
Lost Time Incidents			0	2	
Cenosphere/Debris Removal			Weekly Total	Cumulative Total	
Outreach	Light Debris Removal – Land (bags)		0	18,867	
Divisions A, B,C,D Cleanup	Division Shoreline Cleanup (bags)		215	87,275	
Total	Tons of Light Debris		0	959.57	
Cenosphere Slurry	Gallons		175,500	10,,384,000	
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	146,973	
TVA	Air – Fixed	1,254	--	1,392	
TVA	Surface/Utility Water	2,727	22,664	116,889	
TVA	Ground Water (spring and well)	43	498	1,689	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	57	111	1,423	
TVA	Biota	597	1,508	14,756	
*Week ending 12/11/2009					
Ash Dredging & Excavation			Weekly Total	Cumulative Total	
River	Estimated Cubic Yards thru December 13, 2009 (see Note)		54,440	1,568,489	
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume		0	558,079**	
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume		0	73,000**	
Ash Disposal	Estimated Tons		48,600	1,051,700	

NOTE: Total dredged from the river has been adjusted to include ongoing survey adjustments and all of TransAsh and TVA reported hydraulic and mechanical dredging to date.

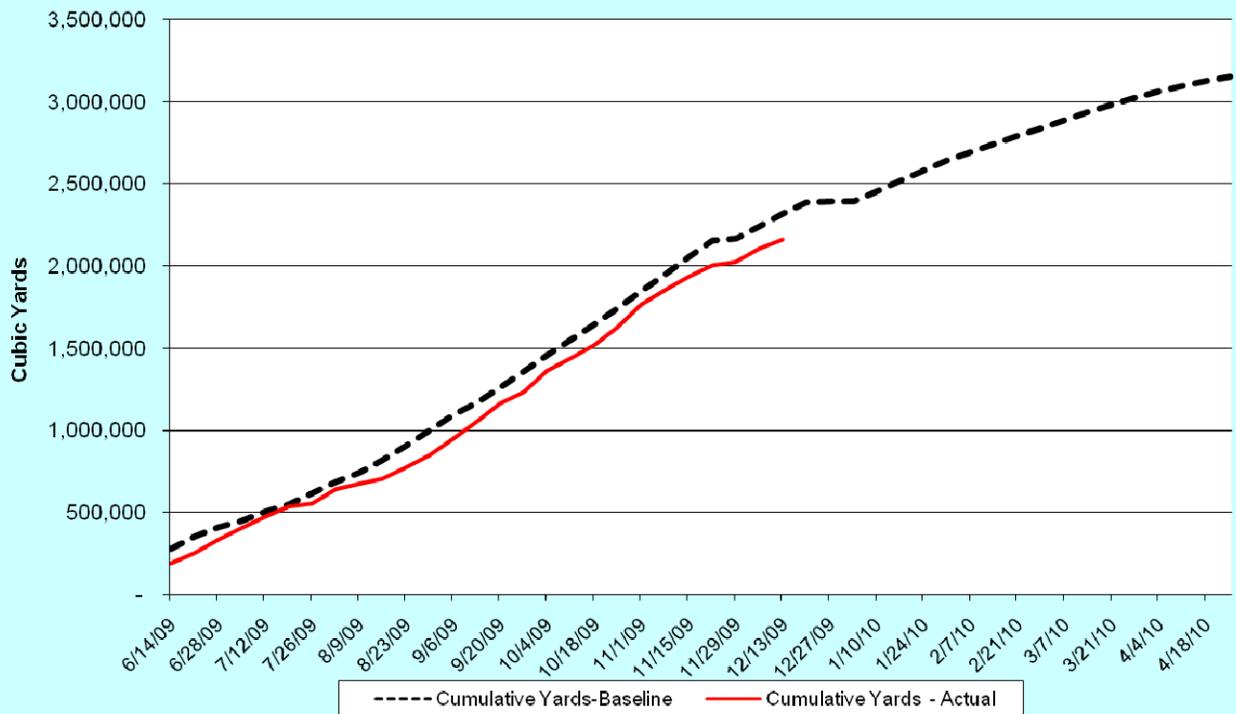
Ash Removal East of Dike 2 - Weekly
as of December 13th



River Dredging - Weekly
as of December 13th



Time Critical Ash Removal - Weekly
as of December 13th



Ash Loading to Trains - Weekly
as of December 13th

