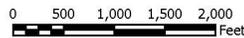


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

October 26 – NOVEMBER 1, 2009

Aerial Image of Kingston Ash Slide August 14, 2009



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

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

October 26 – November 1, 2009

HIGHLIGHTS

- An EPA safety audit was completed last week and overall feedback from the audit team was positive.
- Cumulatively, just over 1,748,400 cubic yards of ash have been removed from the river and east of Dike 2.
- Eighty-five (85) unit trains have left the site; approximately 754,100 tons of ash has been disposed of offsite.
- Contract bids for the offsite utility repair contract are due November 6, 2009 with an award projected before December 3rd.
- Submitted the revised Technical Assistance Plan.

SAFETY

Program Summary

- 11 site specific Health Safety Environmental orientations conducted for the week, 837 to date.
- 16 Safety Observation Reports submitted for the week; 436 to date; 388 of which have been closed.
- An EPA safety audit was completed with overall positive feedback provided by the audit team. Minor improvements were suggested for the Site Wide Safety and Health Plan (SWSHP) and orientation process. These are being addressed in the latest SWSHP revision.

Incidents

- October 27 – A property damage incident occurred when an employee departing work for the day backed over a water line stub-up. The parking area was somewhat cramped and congested due to the trailer relocation. The water line was marked by an orange traffic barrel however the employee did not see the marker.
- October 28 – A craft employee working with a vendor relocating the site trailers suffered a hand injury while utilizing a nail gun. The nail gun slipped while he was attempting to nail a metal strap, the nail struck the employees hand. The individual was treated by the onsite paramedic and released to normal work. This injury was classified as a first aid case.
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INFRASTRUCTURE/ASH MANAGEMENT

- Moved just over 24,000 cy of ash from east of Dike 2 to west of Dike 2.
- Managed the wet staging and processing areas and hauled and accepted loads from the sluice trench removal operation.
- Applied 12 acres of Flexterra for dust control.
Performed Storm Water Pollution Prevention Plan inspections, maintained HAZWOPER controls, and applied water to roads for dust control.
- Drafted a work plan to modify the completion of the east embayment removal from dredging to excavation.
- The main HAZWOPER entrance and exit station on the south portal of the project completed work to install wheel washers.
- Continued construction of the Peninsula Ash Temporary Storage Area with installation of the completion liner in the settlement pond and main storage area and covering with clay cap. Construction of the road leading to the storage area will start next week.
- Responded to questions from potential contractors for the Offsite Utilities Contract to repair and install over 59,000 linear feet of utility pipe lines along Swan Pond Road, Swan Pond Circle Road, and Hassler Mill Road. There are eleven construction companies that potentially will bid on the contract.

ASH DREDGING & PROCESSING

- Through November 1st, the Severson hydraulic dredged volume is estimated at 725,307 cubic yards and the total dredged from the river is at 1,200,994 cubic yards. Note: Total dredged from the river has been adjusted to include all of Trans Ash and TVA reported hydraulic and mechanical dredging to date.
- Dredging from the river was performed Monday through Saturday on a two-shift basis.
- The McKenzie 14" dredge operated 5.0 hours during the period.
- The Kylee 16" dredge operated 113.5 hours during the period
- The Sandpiper 20" dredge operated 106.8 hours during the period.

- Truck haulage estimate of Rim Ditch processed yards is 48,994 for the week. Truck haulage estimate of Sluice Ditch captured ash was 31,376 yards for the week. Weekly total includes both Severson and Civil Project haulage.
- Severson collected nephelometric turbidity units (NTU) and total suspended solids (TSS) samples on weekdays from the Sluice Trench discharge. Daily TSS samples of the Rim Ditch effluent. Sluice Trench Effluent, Ash Pond effluent and Stilling Pond were also collected and processed on site during the week.
- Stilling Pond and Ash Pond bathymetric surveys were completed on Saturday and Sunday, respectively, by Hard Hat Services and calculations are underway.
- Continued to work with Stantec to get an analysis and work plan to support placement of dredged material from the sediment basins cleanout and east embayment dredging operation into the lateral expansion as a temporary storage area option. Stantec expects to complete and issue the report on Tuesday, November 3rd.

ASH DISPOSITION

- Loaded and transported 4 unit trains this week – impacted by rain the other days.
- Loaded and transported 85 unit trains to date for a total of approximately 754,100 tons.
- Continued putting polymers in rail cars prior to shipping to Alabama. There continues to be no freestanding water in the rail cars when they arrived at the landfill.
- Continued work on the overall operations of the ballfield/processing area.
- Made final preparations to try a new piece of equipment to potentially process the ash to help reduce the moisture content. The trial is scheduled for next week.

CENOSPHERE RECOVERY

- Outreach calls remain minimal and all new calls were closed out by the end of the week. There are three small EPA confirmed sites below Tennessee River Marker (TRM) 530.
- One of the three barge-mounted vacuum units was sent downriver to resume cenosphere recovery around the Tennessee River Marker 542. The remaining two units worked areas in the Emory and Clinch Rivers.
- The work plan for relocating the onsite cenosphere collection pits was approved.
- Large amounts of cenospheres continue to collect in the Ash Pond and the Dike 2 Sediment Basins. Crews worked on keeping the weir areas clean.

SKIMMER WALL

- Work on the Skimmer Wall has been suspended until early next year.

DIKE REINFORCEMENT

- MACTEC was awarded a contract to perform conformation sampling of sand, stone and rock materials delivered as part of the Dike C buttress construction. Samples will be collected according to the project Quality Control plan.
- Comments from AECOM are being reviewed to determine if they will have an impact on the construction of the Dike C buttress.
- Continued to monitor the dikes at Kingston on a daily basis. A large amount of abandoned construction materials slows the maintenance and inspection program.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, October 26th, and Friday, October 30th. Samples for nutrient analyses were also collected on Monday, October 26th. Through October 12th, there have been no detections above any criteria (i.e., ambient water quality, domestic water supply) for the three constituents of primary interest in ash (arsenic, selenium, mercury). Since the May 4, 2009 Emory River high flow event, the total suspended solids (TSS) concentrations at the fixed stations have consistently averaged less than 20 mg/L.
- Daily monitoring of dredge plumes continued. On Monday, October 26th, and Wednesday, October 28th, 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.
- A total of 1,557 plume monitoring surface water analyses have been received from the analytical laboratories for sample dates March 19, 2009 – October 13, 2009. Trends are reported below for samples collected between September 1, 2009 and October 13, 2009. On September 24th, a field turbidity measurement and subsequent laboratory results of 1840 mg/L TSS and 0.194 mg/L arsenic were reported for a dredge plume sample. A subsequent review of these data and other downstream data concluded that the plume was localized and created no

downstream impacts.

- Arsenic was detected in all samples with the exception of those collected on August 25, 2009. Sixteen of 26 results were greater than the Tennessee Department of Water Safety (TDWS) (ranging from 0.0114 to 0.194, mg/L). All concentrations were less than the Fish and Aquatic Life (F&AL) except for the maximum result of 0.194 mg/L observed on 9/24.
- Selenium was detected above the F&AL (0.005 mg/L) on 09/24 (0.0123mg/L). The concentration was less than the TDWS.
- Swan Pond Embayment surface water sampling continues routinely twice per week at two locations along the Swan Pond Embayment drainage ditches. In addition to the October 27th and October 29th routine sampling, storm-event sampling was performed on October 28th. EPA collected split samples with TVA. Since the tie-in of 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, except during elevated rainfall events. Over the past several weeks of heavy rainfall, TSS results in the clean water ditch have averaged around 50 mg/L, with the exception of an October 14th storm flow event was 217 mg/L, with the color observed as “muddy brown.” Most detected arsenic concentrations from the Embayment samples exceed the TDWS, but are below the F&AL.

Waste Characterization

- Results were received and reported to the Arrowhead Landfill operator for Toxicity Characteristic Leaching Procedure (TCLP) and paint filter samples collected from rail cars on October 22, in accordance with waste acceptance criteria requirements. No constituents were above Resources Conservation & Recovery Act (RCRA) limits and all samples passed the paint filter tests.

Sediment Sampling

- Sub-bottom data continue to be reduced and interpreted and the sub-bottom crew continues profile work along the Emory, Clinch, and Tennessee Rivers.
- Several sampling plans are being finalized for further sediment evaluation, including a plan to confirm sub-bottom profiling data from the mouth of the Emory River to Clinch River Mile 2.5.
- The TVA vibracore rig will be deployed the week of November 2nd to commence ash characterization along Dike C in preparation for the Dike C reinforcement project.

Air Sampling

- The majority of air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria.
- 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.

Data Management

- Updates to the TVA public web page for surface water data were completed by October 30th.
- Internal review was completed for the Quality Assurance Project Plan revised version. The schedule for re-issuance to EPA is November 2nd.
- Migration of data from the TVA Equis to the EPA SCRIBE database is ongoing. Discussions continue regarding the migration of TVA air data into EPA’s Air Quality System (AQS).

Biota Sampling

- Turtle trapping and collection of blood samples continue.
- Mammal trapping has been initiated in collaboration with the University of Tennessee.
- ORNL, TWRA, and TVA continued fall fish collection as part of the overall ongoing fish health study.

FINAL REMEDIATION

- The TVA review version of the EE/CA should be completed by November 9th.

DREDGE CELL

- Relic material was brought into the test cell to increase the loading on the underlying ash.
- On Friday, the continued addition of material to the test cell was suspended to evaluate the implications of rising underlying pore pressure.

COMMUNICATIONS

Communications

- Distributed Dredge Report
- Posted to TVA’s Kingston Webpage: Air Quality Information Updated, Weekly Report Added, Scrubber Testing

Information Sent to Community Advisory Group, Ash Distribution Information Updated

- Drafted talking points for various site-related activities.
- Completed and delivered the August/September Kingston Ash Recovery Site Report to the Board
- Met with KIF, Recovery Site, Valley Relations, and Communications personnel about overall site communications and notifications; plan to be developed.
- Continued to handle daily calls from the news media.

Outreach

- Submitted revised Technical Assistance Plan
- Information about KIF scrubber sent to CAG and hand-delivered to nearby residents
- 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.

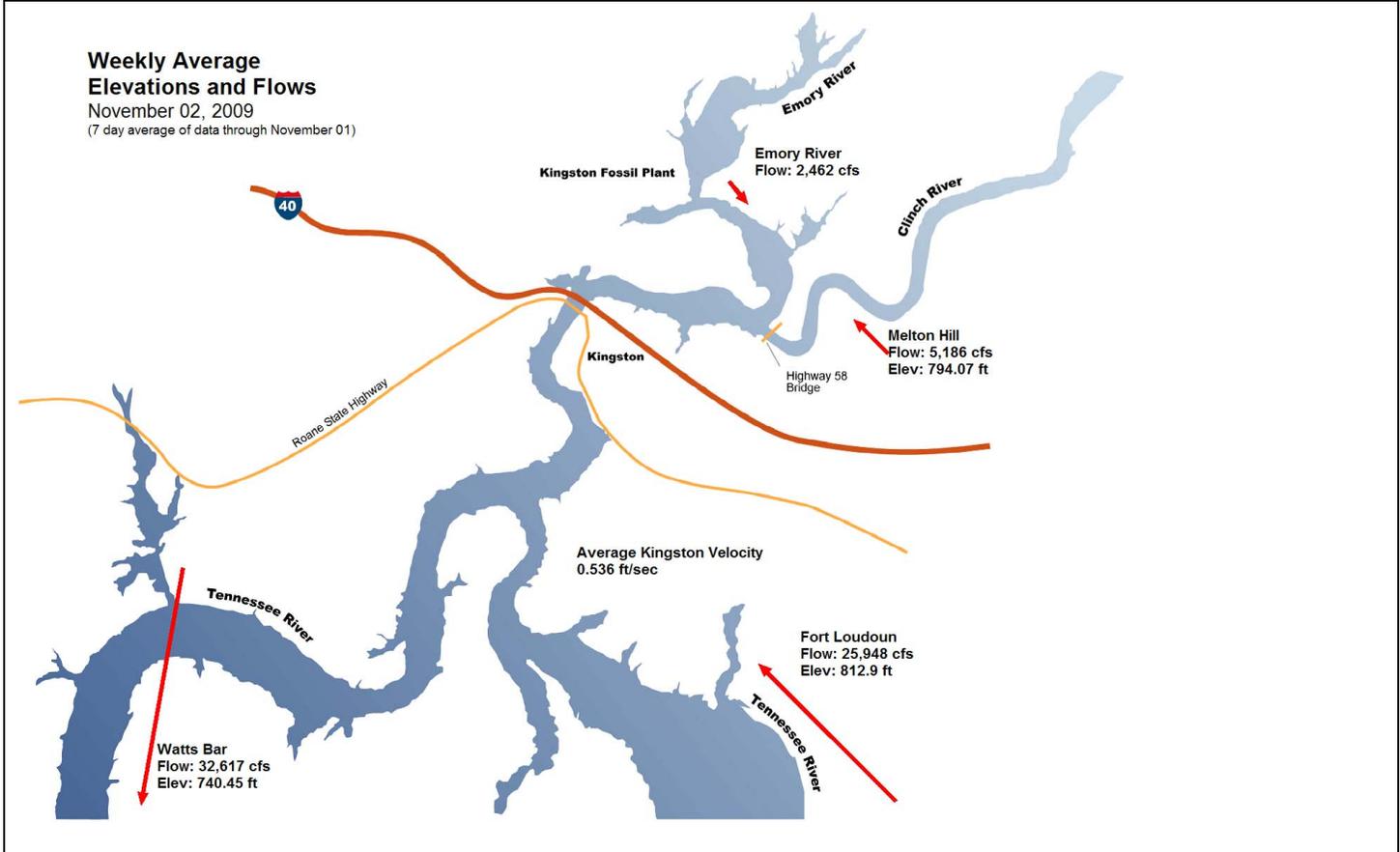
Valley/Government Relations

- Various meetings with local public officials.

Other

- Nominated Site Environmental Team for TVA Environmental Award.

RIVER OPERATIONS

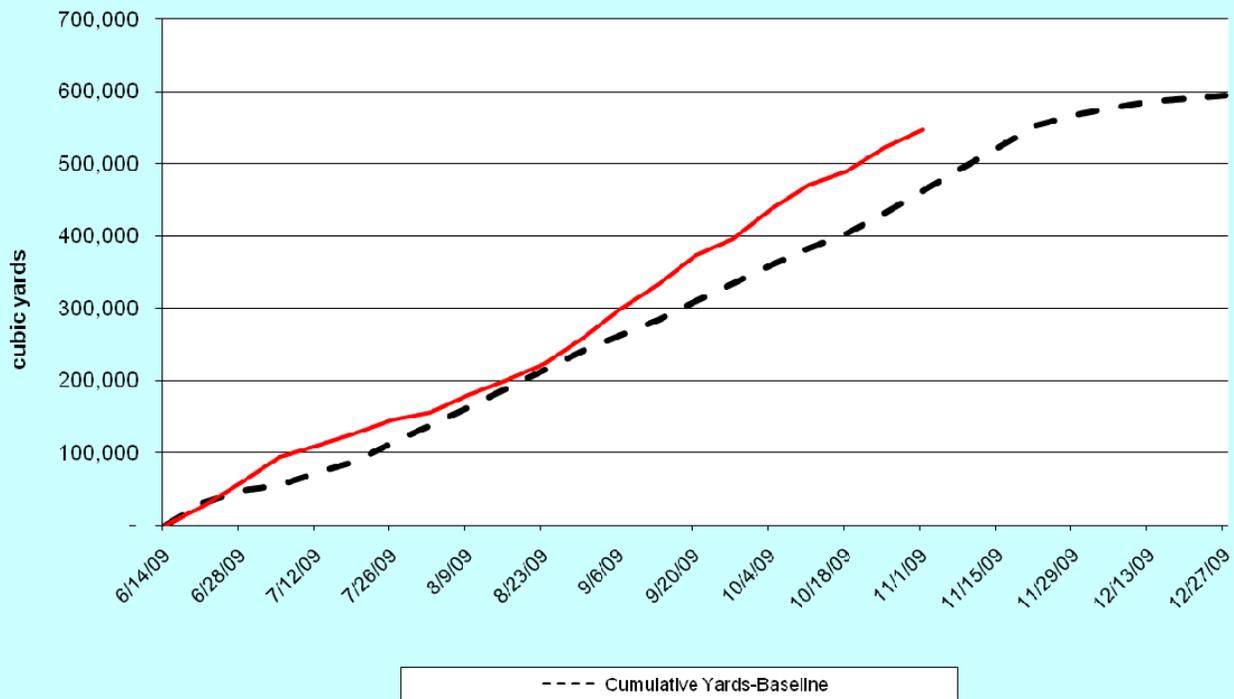


MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
11/02	0730	Environmental Meeting (ICP Conference Room)
11/02	0900	Dike C Buttress Intake Channel (ICP Conference Room)
11/02	1000	Aquatic Resources Studies (ICP Conference Room)
11/02	1430	Free Water Volume (ICP Conference Room)
11/03	1000	Project Review Meeting (ICP Conference Room)
11/03	1100	Jacobs Monthly All Hands Meeting (ICP Conference Room)
11/03	1300	Dredge Team Meeting (Team Room)
11/03	1300	SETAC Planning Meeting (ICP Conference Room)
11/03	1400	Baseline Project Review (Team Room)
11/04	0800	Time Critical Weekly Meeting (ICP Conference Room)
11/04	0900	Data Management Meeting (ICP Conference Room)
11/04	1000	Baseline Project Review (Team Room)
11/04	1100	MRC Environmental & Safety (ICP Conference Room)
11/04	1300	Baseline Project Review (Team Room)
11/04	1330	Test America Weekly Call (Conference Call)
11/05	0730	Environmental Meeting (ICP Conference Room)
11/05	0900	KIF SOP Meeting (Team Room)
11/05	1000	Pace Telecon (Conference Call)
11/05	1130	HSE Staff Meeting (ICP Conference Room)
11/05	1300	EE/CA Meeting (ICP Conference Room)
11/05	1830	Citizens Action Group (ICP Conference Room)
11/06	0900	Jacobs Senior Managers Meeting (ICP Conference Room)
11/06	1000	Contractor/TVA Meeting (ICP Conference Room)
Daily	0730	Site Safety Orientation (Team Room)
Daily	1600	Planning Meeting (ICP Conference Room)

Kingston Recovery Project		Date: October 26 – November 1, 2009	Field Report	
Safety			Weekly Total	Cumulative Total
First Aid Incidents			1	25
Recordable Incidents			0	7
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)		654	63,686
Total	Tons of Light Debris		0	959.57
Cenosphere Slurry	Gallons		286,500	9,001,000
Environmental				
Org	Matrix		Total # Analysis Performed Through 10/28/09	
TVA	Air - Real-Time		123,334	
TVA	Air – Fixed		909	
TVA	Surface/Utility Water		17,891	
TVA	Ground Water (spring and well)		479	
TVA	Ash		104	
TVA	Soil/Sediment		91	
TVA	Biota		737	
Ash Dredging & Excavation			Weekly Total	Cumulative Total
River	Estimated Cubic Yards thru November 1, 2009 (see Note)		110,419	1,200,944
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume		24,237	547,479**
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume		0	73,000**
Ash Disposal	Estimated Tons		36,500	754,100

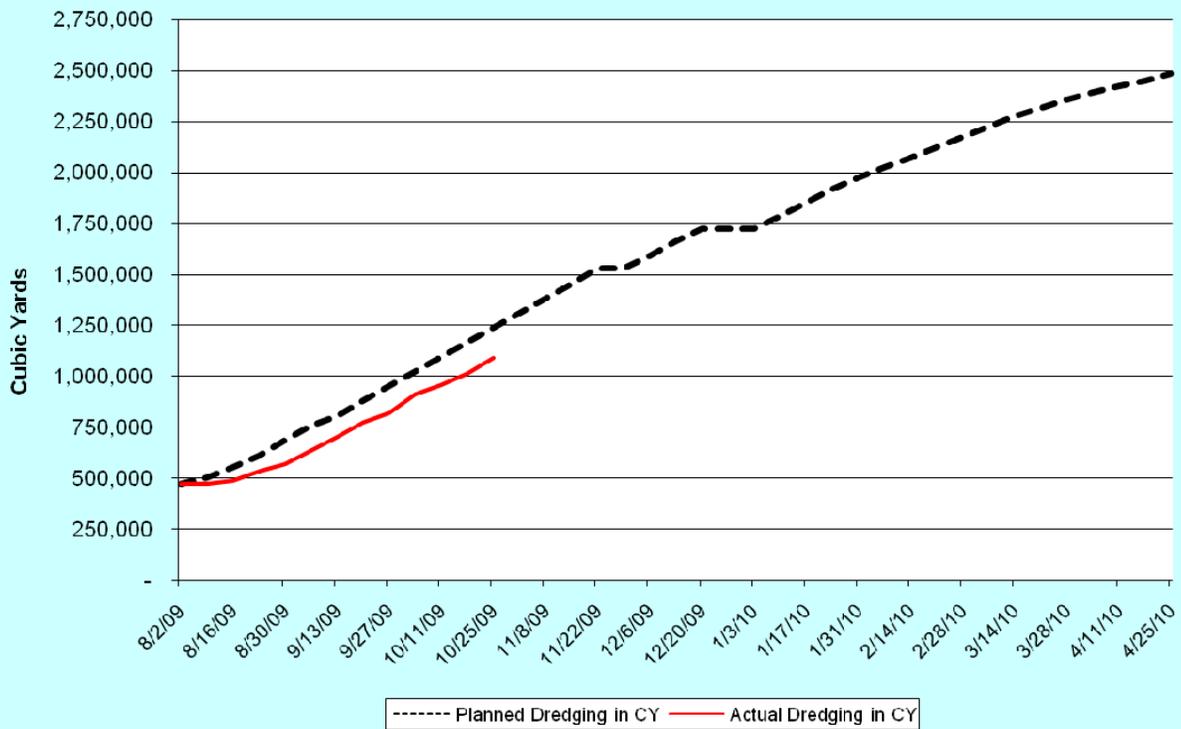
NOTE: Total dredged from the river has been adjusted to include ongoing survey adjustments and all of TransAsh and TVA reported hydraulic and mechanical dredging to date.

Ash Removal East of Dike 2 - Weekly as of November 1st



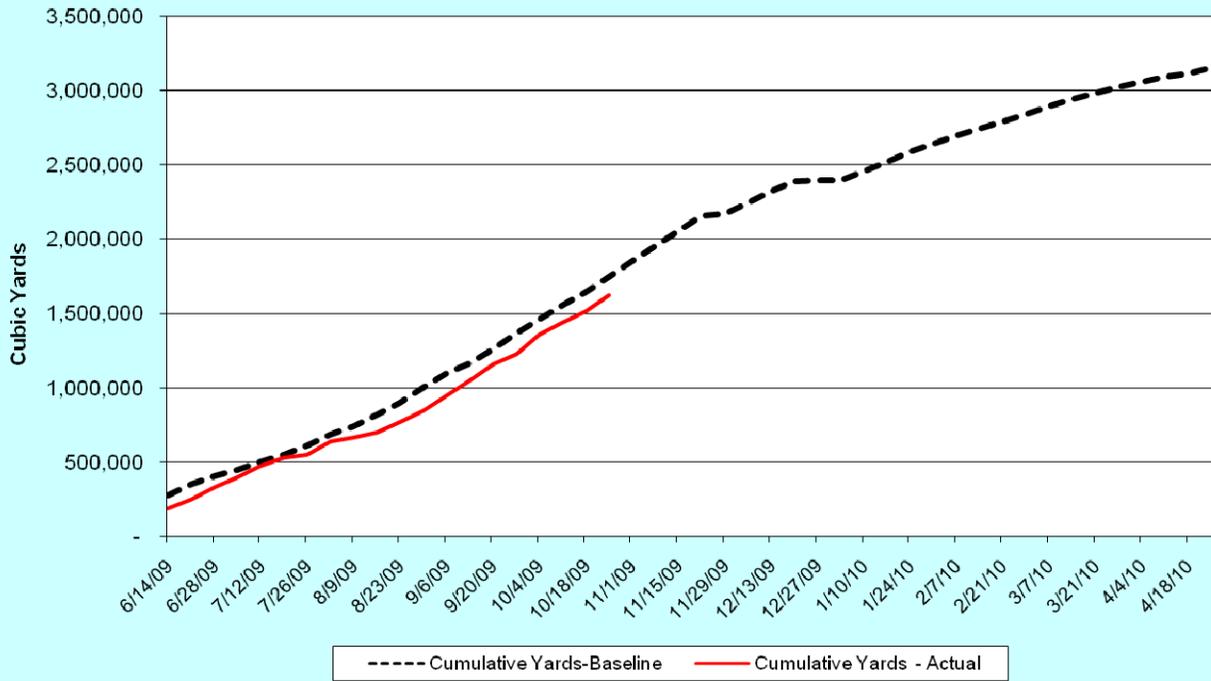
--- Cumulative Yards-Baseline

River Dredging - Weekly as of October 25th



----- Planned Dredging in CY ——— Actual Dredging in CY

Time Critical Ash Removal - Weekly as of October 25th



Ash Loading to Trains - Weekly as of November 1st

